

SECTOR REVIEW

”THE MARKET FOR
CONSULTING ENGINEERS
AND ARCHITECTS IN
EUROPE HAS STABILISED

A Swedish, Nordic
and International Survey of
The Consulting Engineering
and Architectural Groups



Svenska Teknik &
Designföretagen
• almega

KEY FIGURES 2016 (2015)

SEK
73.7
billion

The sector had a turnover in Sweden of SEK 73.7 billion (65 billion in 2015)

8
%

Revenue growth was 8% compared with 2015 ¹

SEK
16.9
billion

Swedish groups turned over SEK 16.9 billion in subsidiaries abroad (15.6)

60,500
employees

The sector employed 60,500 personnel in Sweden (55,000)

6
%

Growth in personnel was 6% compared with 2015 ²

15,800
employees

Swedish groups employed 15,800 personnel in subsidiaries abroad (14,800)

11,000
companies

The sector consisted of some 11,000 companies in Sweden

SEK
1,218k

Turnover per employee was SEK 1,218,000 (1,186,000)

7.2
%

Average operating margin was 7.2 % (6.0 %)

7.2
%

Average profit margin was 7.2 % (5.8 %)

5.1
%

Average net margin was 5.1 % (3.9 %)

¹ Companies which together turn over around SEK 2.5 billion have been added in this year's review. The actual growth is consequently 8% and not 13%.

² Companies which together employ 2,000 personnel have been added in this year's review. The actual growth is consequently 6% and not 10%.

THE SECTOR REVIEW

The Sector Review has been published by the Swedish Federation of Consulting Engineers and Architects (STD-företagen) since 1995. It is a compilation of the architectural, engineering consultancy and industrial consultancy sectors in Sweden, the Nordic countries and Europe. The Review presents ranking lists of the largest corporate groups on the respective markets, interesting key business ratios, news about structural transactions and information on the development and economy within the sector over the past year.

Since 2005, STD-företagen's counterparts in the neighbouring Nordic countries have contributed to the Review. The organisations that participate in this cooperation are FRI and Danske Ark (Danish Architects) in Denmark, RIF and Arkitektbedriftene (Architects' association) in Norway, SKOL in Finland and FRV and SAMARK (Architectural association) in Iceland.

The figures in the Review are based on the latest available data that we have been able to find on the respective firms. For just over half the firms the review is equivalent to a calendar closing for 2016. The remaining firms have split financial years. In most cases, we have received their annual reports for 2016/17. However, some annual accounts were not ready when work on the collection of basic data came to an end, for example for those companies whose annual accounts close at the end of August. In these cases, we have retained the same figures as for 2015/16. For the sake of simplicity, we refer to the compiled figures that applied for 2016.

The corporate information in the Review has been acquired via the databases Soliditet (Sweden) and Factiva Dow Jones Companies & Executives (Europe), from the Nordic organisations, direct from companies or via the companies' home pages. The monitoring covers some 2,000 companies in Sweden, the Nordic Area and Europe. Collecting the information is an extensive and time-consuming task, and in some cases it is impossible to obtain reliable information. The information on the international companies is more difficult to access. In Sweden, annual reports are public documents. This is not the case in all countries, and many firms are reluctant to disclose their figures. In these cases, we use the most recent material we can find. Consequently, all companies that appear in – or should appear in – the Review are requested to contact STD-företagen and to submit their details in order to make sure that the information published on them is correct.

We would like to thank those companies that have helped us by submitting their annual reports or figures.

We would especially like to thank Lena Hagman (Almega), Åsa Bergman (Sweco), Dimitris Gioulekas (Knightec), Maria Lindfelt (WSP), John Lydholm (LINK Arkitektur), Johan von Wachenfeldt (Krook & Tjäder Arkitekter) and Anders Wärefors (Bjerking) for their contributions to the report in interviews and introduction.

DAVID CRAMÉR
SWEDISH FEDERATION OF CONSULTING
ENGINEERS AND ARCHITECTS

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MAGNUS HÖIJ, MANAGING DIRECTOR OF THE SWEDISH FEDERATION OF CONSULTING ENGINEERS AND ARCHITECTS

AN INCREASINGLY STRONG SECTOR

► The need for engineering and architectural expertise is greater than ever.

This could be a summary of both 2015 and 2016, but in 2017 it is truer than ever. Our services are in demand from numerous directions, and demand is frequently greater than supply. In many cases, companies are having to turn down commissions.

There is some concern that the market, in particular the housing market, will cool down during 2018. It is possible, even though there is still a shortage of homes in many Swedish cities and municipalities.

But that this could in some dramatic way reduce the need for qualified services within both urban planning and development, infrastructure, schools and hospitals and so forth – I quite simply do not think this is the case. The housing market will remain, even though it might possibly change its character.

Our society, and trade and industry, will have an equally substantial requirement, possibly greater, for continued innovation, creativity, development and design as ever. An investment in our services and our knowledge is quickly paid back in increased value, in more effective solutions, in smarter production. This is true regardless of whether the demand for homes is high or low.

In a time of rapid transition, driven by technological development and internationalisation, the need for early and well thought out planning is simply increasing.

This makes me convinced that our sector, with its engineering and architectural expertise, is very strong and ready for an exciting new year.

MAGNUS HÖIJ

MANAGING DIRECTOR OF THE SWEDISH FEDERATION OF CONSULTING ENGINEERS AND ARCHITECTS



FIVE CURRENT TRENDS IN THE SECTOR

1

MORE COMPLEX SERVICES

AS SOCIETY DEVELOPS and becomes increasingly driven by technology, it is becoming increasingly important to be able to manage complex issues. It can concern solutions linked to industrial development, to cities' growth, to major infrastructure projects or to political deliberations.

There are few sectors that are coping with such challenges better than our member companies. The in-depth knowledge and experience that architectural and engineering firms can offer links knowledge of modern technology with society's major challenges. It also requires cooperation between different areas of expertise. Many of our companies have great breadth internally. Others are electing to work with partners in order to create alliances and networks.

This is an area where insights and perspectives outside the country's borders are of great importance. Demand for perspectives from other countries is going to increase. And our know-how will also be increasingly in demand abroad.

2

NEW ROUTES TO FIND NEW EMPLOYEES

THE SHORTAGE OF RESOURCES, both architects and engineers, has been acute for some time. It has created concerns for both the sector's development but also for clients in different roles and for society in general.

The university system is lagging behind and is not able to increase capacity at short notice, even though immediate action is required. While waiting for the universities to educate a sufficient number of graduates, trade and industry is obviously looking for other routes to find solutions.

Offering opportunities for labour from other countries is an obvious measure. Many companies are actively looking for trained engineers and architects, others are establishing partnerships with international actors.

In some cases the companies are providing training themselves within professions with a shortage of skilled labour in order to be able meet the market's requirements.

3

THE SECTOR IS BLURRING

THE CONSOLIDATION TREND is continuing. But it is not just about company X buying or merging with company Y.

Is is also about skills mixing and new offers being formulated.

The proximity between architects and engineers is obvious. Many architectural firms have already strengthened their know-how within culture, geography, philosophy and several other areas.

But in addition the opportunities offered by digitalisation, both in application and development.

The sector, which at one time was clearly compartmentalised, where one kind of engineer did his or her job with precision and accuracy – but also rarely outside their own compartments – is in the process of changing.

Today's engineers are interacting with other engineers or experts, appearing in new guises, creating new alliances and offers.

The sector is becoming not just more difficult to place in the old compartments, it is also becoming wider, blurring into new roles that are frequently a long way outside the traditional tracks

4

COMPANY BUILDING

IN LINE WITH THE COMPANIES GROWING, widening and changing, the need for structures, organisation and new leadership is increasing.

Functions such as HR, accounts, marketing and communication, are being strengthened and developed. This is providing an opportunity for continued development of the companies' capacity and ability to develop. It is creating better conditions for the personnel to develop. It is boosting the companies' visibility with both customers and potential employees, as well as in the public debate.

One function that has been particularly strengthened in recent times is the legal department in many companies. The need for legal capacity, to manage contracts, insurance policies etc., is constantly increasing in importance.

There is a lot to suggest that the need to understand and be able to interact with the law is increasing in importance.

5

INTERNATIONALISATION

THE PRESSURE TO PICK UP KNOWLEDGE, experiences and working methods from other countries is increasing. Many larger clients expect more than just traditional, Swedish solutions to new problems.

It obviously does not do any harm that many new Swedes are bringing with them know-how and experiences from their former home countries.

But it will require more. Several foreign actors are looking with curiosity at the Swedish market and several have already started establishing themselves here.

In the same way, a significant number of Swedish companies are looking globally, both for new commissions but also in order to find the vitality required to expand their own company.

LENA HAGMAN, CHIEF ECONOMIST, ALMEGA

GREATER DEMAND FROM EXPORT MARKETS BENEFITS ENGINEERING CONSULTANTS AND ARCHITECTS

During 2017, the demand from important export markets for Sweden has grown, in particular the demand for export goods and associated services. This means that the demand for architectural and engineering consultancy is increasing still more since they are needed for new investments all over the world. It is a question of investments in goods and services such as mechanical equipment, product and technical development, research and development. In other words it is a matter of investments that increase competitiveness and productivity in the production and sales of companies in many different countries. In this context, an important role is being played by engineering consultants and architects.

The growth of investments in product development and greater production capacity should continue so that it becomes possible for the growth potential to be increased in a more sustainable way in many countries. It would in this way be possible to break the downward trend in productivity growth following the financial crisis. For a more sustainable increase, profitability needs to rise and provide the necessary scope for continued investments. A

“Catch 22” situation, or in other words a vicious circle with an excessively low growth in productivity that fails to provide the required level of profitability and thus gives rise to low investments, needs to be broken.

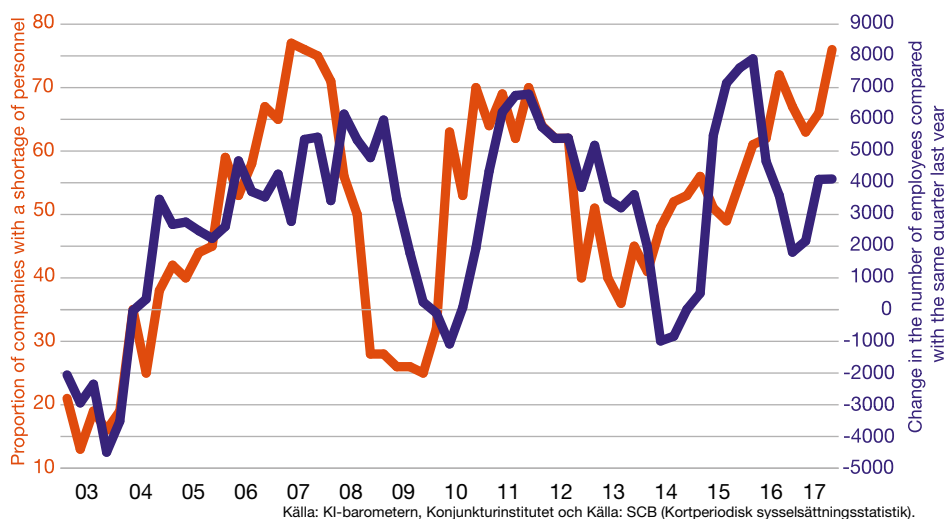
The global upswing in demand during 2017 has accelerated the growth in world trade and been of benefit to Sweden, which exports a large share of the country's overall production. The improvement in demand is now more synchro-

nised between different regions than it was previously. Forecasts for growth in GNP over the period 2017-2018 have been marked up for a whole series of major export markets, for example the EU area and the USA. The already high rate of growth in China is expected, as before, to gradually slow down. The previous fear of a faster deceleration in China appears to have settled down. The downturn in China's growth does not mean, however, that there is a decrease in domestic demand. This year, an upswing has been observed in imports into China, which has made a significant contribution to the upswing in world trade.

THE GROWTH IN EXPORTS and production within export companies all over the world is increasing the need to expand production capacity. In both Germany and Sweden, for example, the export industry has reached a high level of capacity utilisation and needs to expand. The investments in Germany are expected to increase still more in 2018. In Almega's economic forecast from November, we anticipate an upswing in the investments to be made in machinery both this year and in 2018. This will be accompanied by an increase in the demand for services from engineering consultants which their volume of orders in hand indicates and which continued to rise in 2017.

In our new economic forecast, Almega assumes that the growth in global GNP will speed up following the historically weak recovery after the financial crisis. We now base our calculations on the fact that the growth rate will increase, from 3.2 per cent in 2016 to 3.6 per cent this year and to 3.7 per cent in 2018. At the same time, growth in the Euro area is increasing, by 2.2 per cent this year and 1.9 per cent in 2018. At the same time GNP, is also increasing in our neighbouring Nordic countries, in Norway and Denmark to somewhat over 2 per cent this year while in Finland it will be even stronger according to the forecast: by 2.8 per cent. The upswing in Finland is associated with greater international competition over the period 2016-2017, when

The increase in the number of employees in the engineering consultancy and architectural sectors is not accelerating in the current economic upswing as it did in the previous economic recovery over the period 2005-2007



”ALMEGA PREDICTS THAT THE RATE OF GROWTH FOR GLOBAL GNP WILL CONTINUE TO RISE FROM 3.2% TO 3.7%.

there was a decrease in Finland's relative cost of labour per unit.

One important export market for Sweden that constitutes an exception is Great Britain, whose growth is expected to be weaker – with 1.5 per cent both this year and in 2018. In connection with the Brexit referendum last year and the subsequent decision reached on the country's exit from the EU, there has been a significant decrease in the value of the British pound. This has forced up import prices and inflation in Great Britain. With a certain time lag, it has weakened domestic consumption, whose growth rate appears likely to be halved this year compared with last year, to 1.5 per cent. Corporate investments are also being held back by the uncertainty surrounding the effects of Brexit and with regard to which agreement will be finally entered into between Great Britain and the EU in, among other areas, the trade sector. The rising inflation in Great Britain, which is expected to reach a level of over 3 per cent before the end of 2017, caused the Bank of England to raise its key interest rate in November, to 0.5 per cent. But continued weak growth and salary trends suggest that it will be at least 2019 before the next increase in interest rates.

WITHIN THE EURO AREA, no increase is expected to be made in the interest rates of the European Central Bank (ECB) until 2020, since the inflation level in the area is not judged to meet the inflation goal of just below 2 per cent until that point in time. During October this year, the inflation rate within the Euro area was on a level of 1.4 per cent, and cleared for the more volatile prices of food and energy, the inflation rate has fluctuated around 1 per cent during 2017. A continued expansive monetary policy on the part of the ECB is underpinning the increase for investments in Euro countries. It has also been observed in the form of an increase in incoming orders for European engineering consultants, primarily from the private sector.

The increased growth and employment levels during the upswing in the econ-

omy in recent years have led to shortfalls in the labour force in several countries, such as Germany and Sweden. The shortage of personnel is currently especially high among engineering consultancies and architectural firms compared with many other sectors in Sweden. As many as three-quarters of all the countries in the sector now have a shortage of staff. The shortage of labour is a growing problem in general for engineering consultants in Europe.

Signs that, above all, knowledge-intensive sectors in Sweden have not succeeded in recruiting personnel at the rate they are needed in the present economic recovery include the fact that the growth in employment has begun to slow down. It differs from previous patterns recorded in financial booms, for instance during the economic upswing over the period 2005-2007, when the shortage of labour also increased, but also when the employment level continued to increase with growing strength. Now, the shortage of personnel among engineering consultants and architects has risen to the same high level as it was at the peak of the economic boom in 2007. As many as 76 per cent of the companies suffered staff shortages during the third quarter this year, but the rate of increase in the number of employees is not accelerating, see graph. In view of the lack of personnel within so many companies, the number of employees should be increasing faster. In other words, the number of employees needs to increase much more quickly in order to meet the continuing strong demand for the sector.

IN CONNECTION WITH the high utilisation of resources in Sweden, there is a tendency towards an increased outsourcing of advanced service production for foreign countries, or alternatively for increased import from external suppliers. This may thereby compensate to a certain extent for a shortage of personnel in Sweden, and for companies maintaining their level of competitiveness. The production will in other words be more evenly distributed and integrated with activities abroad. This specialisation is under way for export-orientated service companies,

which are meeting greater competition, both on export markets as well as in their supplies on the Swedish market.

The export industry in particular has increased its import of input services, which is serving to apply increased competitive pressure on corresponding service suppliers in Sweden. If we look even further forward, we can expect that international competition will increase still further. If Sweden is to continue developing as a knowledge nation with advanced service production, the shortage of competence in the country will have to be eliminated, by among other ways providing more places at institutes and universities of technology, an increase in the immigration of skilled individuals and lower marginal taxes. Insight into the importance of knowledge-intensive companies for the Swedish economy, for exports, employment and, in the final instance, tax revenue, must increase. The risk otherwise is that the Swedish economy will be shifted to the wrong track and lose its competitiveness, capacity for growth and thousands of jobs.

LENA HAGMAN
CHIEF ECONOMIST, ALMEGA,
NOVEMBER 2017



¹ Weakening to a GNP growth of 6.2 per cent in 2018, according to Oxford Economics' forecast from October 2017.

² See Investment Signals, October 2017, Svenska Teknik&Designföretagen.

³ See the EFCA Barometer for Autumn 2017, which is published twice a year by the European Federation of European Consulting Associations, EFCA.

⁴ Konjunkturinstitutets konjunkturbarometer, oktober 2017. *The Swedish Economy Report published by the National Institute of Economic Research*, October 2017

⁵ See also the EFCA Barometer for Autumn 2017.

⁶ See also Almega's Economy Report, November 2017.

THE SECTOR'S DEVELOPMENT IN 2016 AND 2017

The engineering consultancy, industrial consultancy and architectural sector continues to grow in Sweden. 11,000 companies turned over SEK 73.7 billion and employed a workforce of 60,500 in 2016. This is equivalent to a growth of 8% measured in turnover and 6% measured in number of employees. The sector is in a record position in terms of orders, which has also had a positive effect on profitability. Average operating margin increased to 7.2% from 6.0% during 2015, and the average profit margin also increased to 7.2% from 5.8% during 2015. Turnover per employee increased to SEK 1,218,000 during 2016, from SEK 1,186,000 during 2015.

Companies in the sector

The sector consists of some 11,000 companies. 9,500 of these companies have 0–2 employees. 20 companies have more than 500 employees and 12 groups have more than 1,000 employees. During 2015, 16 companies had more than 500 employees and 10 more than 1,000 employees. The consolidation trend is continuing, and contributing to an increase in the size of the major groups and a decrease in the number of medium-sized companies.

The sector is defined in this report as engineering consultancies within construction, civil engineering and industry, as well as architectural firms. There are also a certain number of inspection and certification companies included in the review. The distribution according to size is as follows:

| Number of employees | Number of companies |
|---------------------|---------------------|
| 501 – | 20 |
| 101 – 500 | 44 |
| 51 – 100 | 51 |
| 21 – 50 | 170 |
| 11 – 20 | 235 |
| 3 – 10 | 980 |
| 0 – 2 | 9500 |
| | 11 000 |

Key ratios

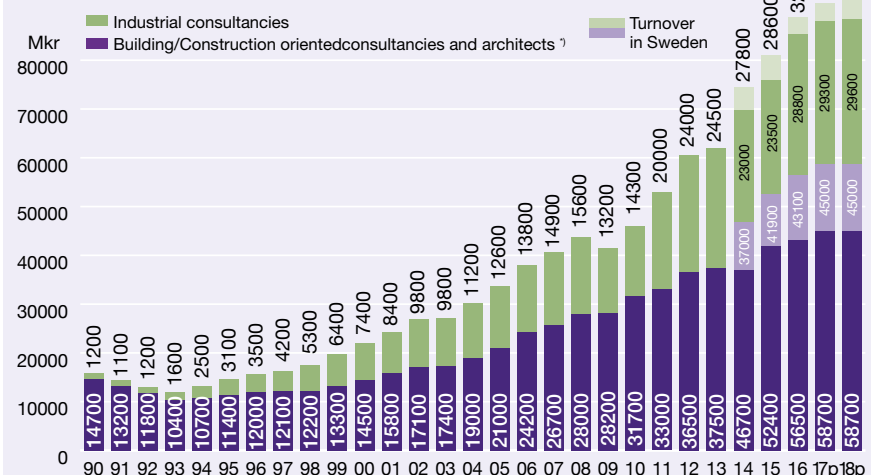
The architectural, engineering consultancy and industrial consultancy sector is continuing to grow in Sweden. Total

¹ Companies which together turn over around SEK 2.5 billion have been added in this year's review. The actual growth is consequently 8% and not 13%.

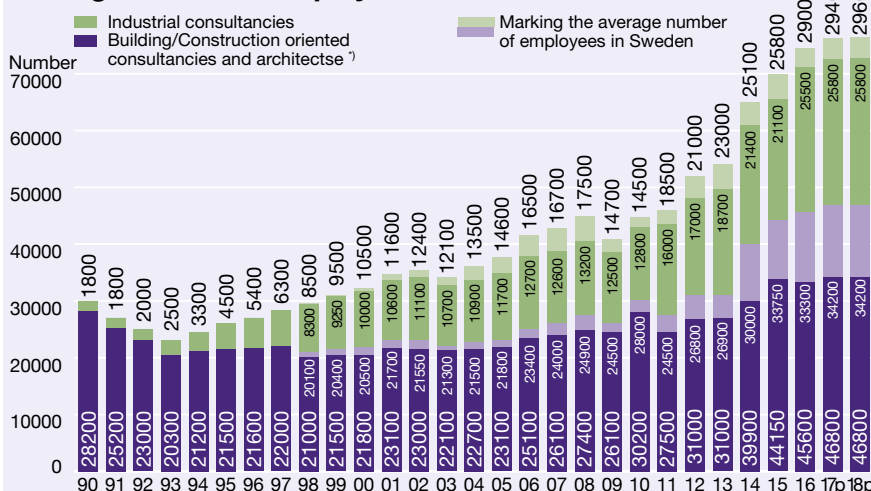
² Companies which together employ 2,000 personnel have been added in this year's review. The actual growth is consequently 6% and not 10%.



Turnover in the Sector, MSEK



Average number of employees in the Sector



^{*)} Of the building/construction-oriented consultancies architects represented 10 billion SEK in turnover and 8,500 employees in 2016. Certification and testing-oriented companies representing 1.8 billion SEK in turnover and 1,700 employees are not included in the numbers above.

Source: The Swedish Federation of Consulting Engineers and Architects

turnover increased by 8% to SEK 73.7 billion, and the number of employees increased by 6% to 60,500. At the same time, Swedish group's foreign operations increased, largely due to acquisitions. The subsidiaries located abroad turned over SEK 16.9 billion and employed 15,800 people, compared with SEK 15.5 billion and 15,000 employees last year. The sector also includes a number of inspection and certification firms. In 2016 they turned over SEK 1.8 billion and employed a workforce of 1,700.

Average turnover per employee in the sector increased to SEK 1,218,000, from SEK 1,181,000 in 2015. For operations based abroad, the turnover per employee was SEK 1,187,000, a marginal increase over the figure of SEK 1,186,000 for the year before.

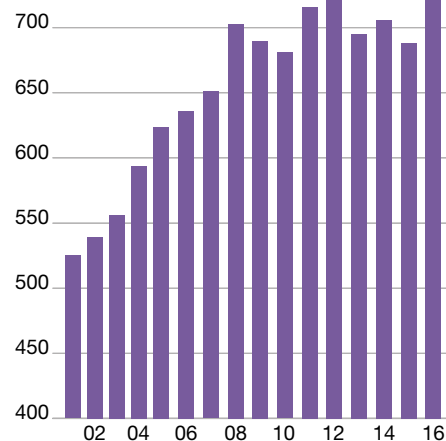
Profitability improved significantly be-

tween 2015 and 2016. Average profit margin (profit/loss after financial items) increased to 7.2%, from 5.8% in 2015. Excluding the inspection and certification firms, the profit margin was 7.4%. Operating margin (after depreciation) was also 7.2%, up from 6.0% in 2015. Before depreciation, the operating margin was 8.7%, against 7.2% in 2015. Net margin (profit for the year after tax) also increased, to 5.1% from 3.9% in 2015.

Value added per employee increased to SEK 856,000, which is a substantial increase over the SEK 688,000 that was recorded in 2015. The value added is equivalent to the increase in value that the companies add in their production, and is also expressed as the company's contribution to GNP. In purely concrete terms, it is the company's sales minus the cost of input goods. The calculation is performed

Added value for the 300 largest groups

kSEK/employee

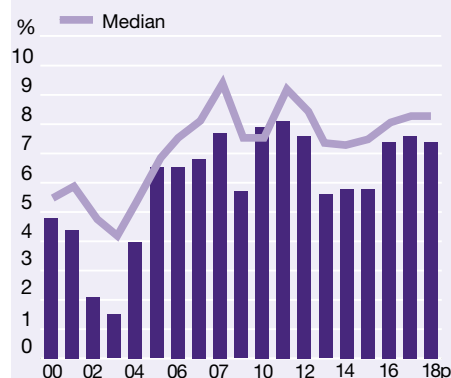


Source: The Swedish Federation of Consulting Engineers and Architects

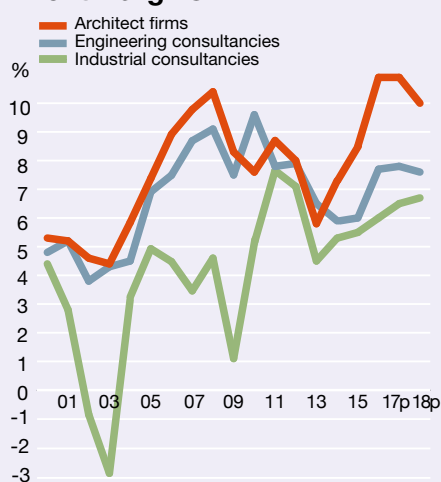
Development by sectors

| | Turnover per employee, SEK thousand | | | | | | | | | | | | Profit after financial items per employee, SEK thousand | | | | | | | | | | | |
|--------------------------------|-------------------------------------|------|------|------|------|------|------|------|------|------|------|-----|---|-----|----|----|----|----|-----|-----|-----|-----|--|--|
| | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17p | 18p | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17p | 18p | | |
| The top 300 *)groups | 1037 | 1017 | 1065 | 1130 | 1161 | 1150 | 1165 | 1182 | 1230 | 1246 | 1246 | 78 | 46 | 85 | 92 | 88 | 64 | 67 | 69 | 91 | 94 | 93 | | |
| Building construction oriented | 1102 | 1086 | 1125 | 1150 | 1171 | 1194 | 1181 | 1213 | 1286 | 1299 | 1297 | 101 | 81 | 104 | 92 | 92 | 76 | 71 | 77 | 106 | 108 | 103 | | |
| of which | | | | | | | | | | | | | | | | | | | | | | | | |
| Architectural firms | 1063 | 1098 | 1099 | 1132 | 1158 | 1214 | 1159 | 1177 | 1264 | 1267 | 1271 | 110 | 87 | 84 | 98 | 92 | 63 | 84 | 100 | 138 | 138 | 127 | | |
| Engineering consultancies | 1107 | 1184 | 1129 | 1153 | 1174 | 1093 | 1184 | 1219 | 1290 | 1306 | 1302 | 101 | 80 | 107 | 90 | 92 | 79 | 70 | 73 | 106 | 102 | 98 | | |
| Industrial consultancies | 949 | 964 | 954 | 1099 | 1148 | 1093 | 1143 | 1136 | 1153 | 1170 | 1176 | 44 | -17 | 45 | 91 | 82 | 49 | 61 | 58 | 70 | 75 | 79 | | |

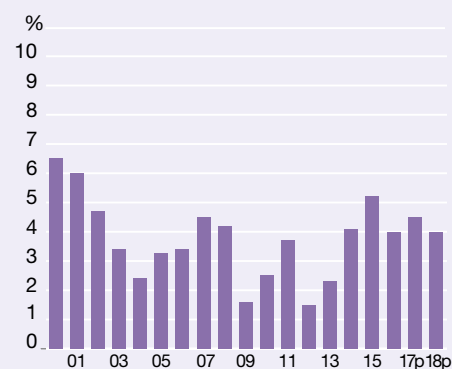
Profit margins in the top 300 groups



Profit margins



Change in payroll costs/employee



Source: The Swedish Federation of Consulting Engineers and Architects

“THE AVERAGE PROFIT MARGIN INCREASED TO 7.2% IN 2016 FROM 5.8% IN 2015.



Investments in Sweden

| | 2016 | | 2017p | 2018p |
|---|--------------|----------|-----------|----------|
| | Billion SEK | % | % | % |
| Dwellings | 226.8 | 14 | 19 | 5 |
| Other premises | 135.7 | 4 | 4 | 1 |
| Industrial buildings | 7.1 | 9 | 21 | 0 |
| Infrastructure and installations | 88.3 | 6 | 7 | 4 |
| Total construction oriented investments | 457.9 | 9 | 12 | 4 |
| Investments by manufacturing industries in machines and tools, according to STD-företagen and Statistics Sweden | 56.9 | 3 | 0 | 2 |

Building and industrial investments in 2016 and forecasts for 2017 and 2018. Source: SCB, BI and STD-företagen.

by adding together the company's payroll costs, social insurance contributions, operating profit/loss and depreciation. Together they constitute the value added. This value is then divided by the mean number of employees in order to arrive at the value added per employee.

However, financial strength (equity/assets ratio) fell to 41% from 50% the year before. Financial strength is a way of measuring a company's assets in relation to its liabilities. In this context, a company's equity is measured against its total assets. A general rule of thumb is that a company should have a financial strength of over 30%. However, at the same time

it should not be too high. This means that the company's capital is inactive and is not generating income. One explanation for the decreased financial strength might of course be the extensive acquisitions made in recent years. The overall balance sheet total in the sector has increased, while equity has not increased as much. However, financial strength in the sector remains satisfactory.

Payroll expenses in the sector continued to increase. They increased by 4.0% between 2015 and 2016, which, it has to be said, is a substantial amount. However, they increased even more the year before, by 5.2%. It is likely that there will

also be relatively high increases in payroll expenses in the next few years, in view of skills shortages and the high level of employee turnover in the sector. Half of the employees recruited during 2016 came from competitors.

Architectural firms

The architectural sector turned over SEK 10.1 billion in 2016, which is a substantial increase compared with 2015 when the turnover was 8.4 billion. The number of employees increased by 14% to 8,200 from 7,200. Turnover per employee thus increased to SEK 1,232,000 from SEK 1,111,000 in 2015. Swedish architectural firms turned over about SEK 400 million and employed 300 people in subsidiaries abroad. Profitability improved substantially during 2016. The profit margin increased to 10.9% from 8.5% and the operating margin increased to 10.4% from 8.1% the year before. The operating margin was 13.4% before depreciation.

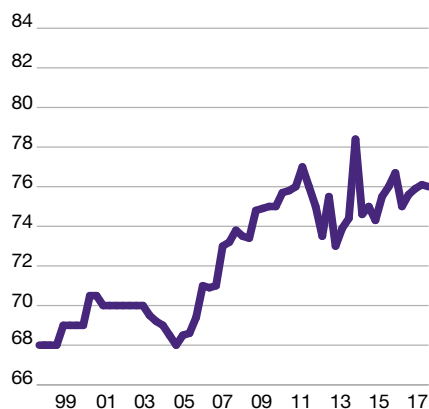
Industrial consulting companies

The industrial consulting sector turned over SEK 28.8 billion in 2016, a substantial increase over the SEK 23.5 billion of the year before. However, some 2 billion is explained by increased monitoring this year, which is why the growth was actually 13% (28.8 billion/23.5 billion). The number of employees increased to 25,500, from 21,400 in 2015. Here too a proportion of the growth is explained by increased monitoring, just under 2,000 employees. Staffing thus grew by 9% (25,500/23,400). Turnover per employee in Sweden was SEK 1,129,000 during 2016, compared with SEK 1,098,000 the preceding year. Profit margin increased to 6.0%, from 5.1% in 2015. Operating margin increased to 9.1% from 5.5%. Operating margin was 7.3% before depreciation.

Engineering consulting firms

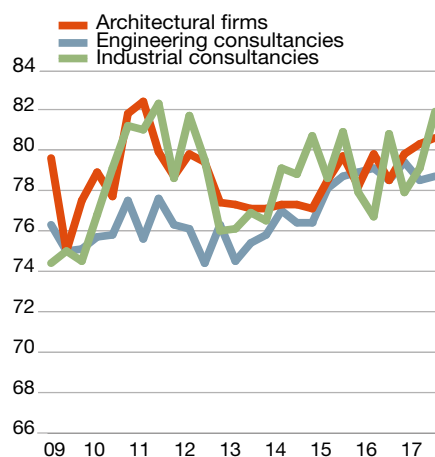
The engineering consulting firms turned over SEK 33 billion during 2016 and employed 25,100 people. These are similar figures to 2015; SEK 32.5 billion and 25,000 employees. In addition, Swedish groups together turned over SEK 13

Annual billing ratio



The billing level of the listed companies, weighted according to the size of the respective company.

Average billing ratio per sector



From member surveys for the report *Investeringssignalen*, weighted according to the size of the respective company.

INTERVIEW
ANDERS
WAREFORS,
CEO, BJERKING

“THE FACT THAT ALL PERSONNEL ARE CO-OWNERS... CREATES A WONDERFUL TEAM SPIRIT

In what ways do you notice the boom? How has your business developed in the last year?

We absolutely notice the boom and our business has been developing very positively for many years, for example, we increased our turnover by 25 per cent during 2016. At Bjerking we have chosen to have the capital region of Stockholm-Uppsala as our principal trading area and there really is high pressure in the region, perhaps it is the region in Europe with the best growth. Demand for our expertise has in part enabled us to grow within just about all our core activities, but it has also provided us with the conditions to expand our already wide range of services. The last service area that we added was bridge design, and we have also been able to focus on developing our operation within project-, construction- and commission management.

How is internationalisation affecting your operation? Is it noticeable on an everyday basis? How do you think it will affect the sector?

A lot is spoken in the sector about international actors coming in and taking market shares and undercutting our prices, but so far we have not observed it having any appreciable effect on us. The construction- and civil engineering sector is, in distinction from many other sectors, largely confined to the country's



Anders Wärefors, CEO, Bjerking.

borders. However, I think that in the long term there will be a change here too. Common standards and technological developments will make it simpler for actors from different countries to come in and deliver directly in the respective country.

We have observed declining investments in research and development. What will this mean for the sector's and the companies' competitiveness and capacity to innovate?

It is obviously worrying that our sector is not investing in research and innovation to the extent needed. The sector is already fundamentally very conservative and we need to take new steps. In this respect we are way behind other sectors and, somewhat simplified, I would say that we have gone from being

completely analogue to making the analogue digital. We have not fully taken the step, even though a lot of exciting things are happening, particularly within BIM and the visualisation field. One area where we are becoming increasingly knowledgeable, but where we have not always succeeded in communicating what we can do and how it can make life easier for our customers. In order to keep up with within research and innovation we are instituting specific initiatives at Bjerking. Our founder Sven-Erik Bjerking was a pioneer within the research field and we are extending the tradition.

Moreover, I think that we need to make joint initiatives in the sector in order to utilise the vast IT expertise there is in Sweden and seriously incorporate it into our sector.

The shortage of expertise is widely discussed. What does an attractive employer look like today, which can attract and retain personnel?

I think that we have gone past the stage where we are competing for expertise with benefits and salaries. Today it is much more about having good leaders, offering personal development and working towards a higher goal. It is important to be part of a beneficial social development and it is important to have an employer that focuses on sustainability issues.

Employee turnover at Bjerking is lower than average for the sector and this is a sign that we are doing a lot right. The fact that all personnel are co-owners in the company means that we have a high level of involvement and we take a lot of joint responsibility, something which creates a wonderful team spirit.

I also think that a corporate culture such as ours, which is based on common humanity and trust, means that we all feel better and thus also perform better.

billion in their foreign subsidiaries and employed 12,000 people. Turnover per employee in Sweden was SEK 1,315,000 against SEK 1,283,000 in 2015. Profit margin increased to 7.7% in 2016, from 6.3% the year before. Operating margin increased to 7.8% from 6.4%. Operating margin was 9.0% before depreciation.

Inspection and certification firms

The inspection and certification firms turned over SEK 1.7 billion and employed 1,600 people, producing a turnover per employee of SEK 1,059,000. The profit margin decreased substantially to 1.4% in 2016, from 5.7% the year before. The operating margin decreased to

1.1% from 5.7%. The drop in profitability here is probably explained by the fact that it concerns a small group of companies, most of which are foreign-owned. A proportion of the group contributions have consequently been diverted abroad to the parent companies.

Billing level (diagram page 10)

The billing level among the listed companies increased during 2016, compared with last year. It was an average of 76.1% for the first six months and 76.0% for the third quarter this year. In 2016 the billing level was 75.6% and 75.9% respectively. The sector passed the 70% billing level at the turn of the millennium, so there has

been a clear increase in recent decades. However, it should be pointed out that billing levels are not available for all listed companies in Sweden. The statistics are consequently somewhat lop-sided.

The Swedish Federation of Consulting Engineers and Architects own surveys reveal an even clearer trend, with the billing level increasing steadily. The surveys measure it three times a year for architects, engineering consultancies within construction and civil engineering, as well as industrial consultancies. If the three groups are put together, with no weighting, the first two four-month periods of 2017 are clearly higher than any previous notation; 79.9%. In

INTERVIEW
JOHAN VON
WACHENFELDT,
CEO OF KROOK
& TJÄDER



“(AT AN ATTRACTIVE EMPLOYER) EVERYBODY SHOULD HAVE THE OPPORTUNITY TO SHINE

**In what ways do you notice the boom?
How long will it last, do you think?**

We have been incredibly busy for a long time now. The fact that the economic situation is flattening out somewhat feels beneficial in a longer perspective, but there are a lot of indications that overall we will continue to have good times ahead of us. We are at full stretch in all our offices throughout the country and if we look at the offices' advance planning, it continues to look stable. In the present situation we are observing some of the most lavish housing projects slowing down. But there is still a housing shortage in Sweden, and our expectation is that there will continue to be high demand for housing in medium/low price segments. We have a good mix in our project portfolio and are not dependent solely on housing projects.

How is internationalisation and consolidation affecting the sector's development? Is the sector completely different from what it was like ten years ago?

We aren't sitting here waiting for someone to invite us onto the international stage. As one of Sweden's largest architect's offices, we occupy that position through our own efforts. We are driven by a desire and thirst for knowledge, which means that we are convinced that we will become better architects through operating in an international market as well.



Johan von Wachenfeldt, CEO, Krook & Tjäder.

At the start of the year we set up a new office in Oslo and during the autumn we have employed the architect Willem Bruijn, whose most recent position was in Baumschlager Eberle's office in Lustenau, Austria. Today we are competing with the Danes in an increasing number of commissions, and moreover on their home turf. At Krook & Tjäder we currently have two billion-crown (DKK) projects in Copenhagen. Internationalisation is challenging and inspiring, and places high requirements on us as architects.

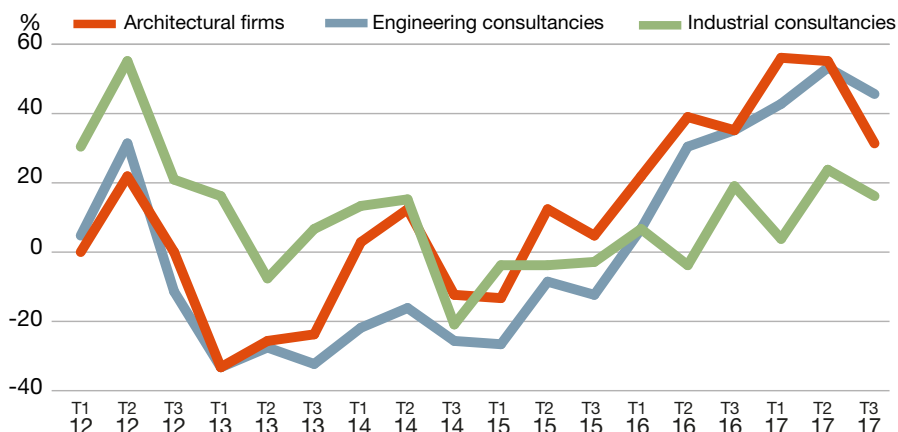
Yes, we are seeing a different sector today than it was ten years ago. There are ever higher requirements for specialist knowledge, certifications and legal requirements. To be able to meet these needs requires resources, which risks leading to a smaller number of

major architect's offices in the market. In this context it is important that as major actors we take our responsibility and ensure that architectonic diversity is encouraged. It is a responsibility we have to society. At Krook & Tjäder we view the working process with each employee's expertise and architectonic ambitions as the key to diversity and good quality.

The shortage of skills is widely discussed. What does this mean for you and what does an attractive employer look like today?

The lack of resources in the sector is affecting everybody. We are consequently actively involved with organisations such as KAN Connect, a network for new Swedish architects, construction engineers and employers in the sector. This enables us not just to resolve the skills shortage – we are also promoting integration and diversity, as well as internationalisation. At Krook & Tjäder we have a very low employee turnover. We are a values-led company which embraces each individual's own ability, freedom and personal responsibility. Over 50 per cent of the employees here have their own clients and that personal relationship is central both within the company and in relation to our customers. We have always endeavoured to be the best employer and it has paid off as we have found it relatively easy to recruit during the boom. During the year we have also produced a completely new model for staff development where each employee drives his or her own development with regular meetings with their immediate manager. An attractive employer sees the employee and allows everybody's skills to have the opportunity to emerge – everybody should have the opportunity to shine.

The Group's opinion about the development of the price situation



The price trend graphs show net figures for the proportion of firms that have raised their prices minus those that have lowered their prices over the past six-month period.

Source: The Swedish Federation of Consulting Engineers and Architects

2016 the total and average billing level was 78.9%. In other words, it has increased by a full percentage point. The corresponding figure in 2009 was 75.8%, which is a substantial increase over ten years.

The industrial consultants and architecture firms have had the highest billing level thus far this year, an average of 80.5%. The average billing level for the architectural firms in 2016 was 79.4% and for the industrial consultancies it was 78.5%. The billing level for the engineering consultancies during the first two four-month periods of the year was 78.6%, against 79.0% in 2016.

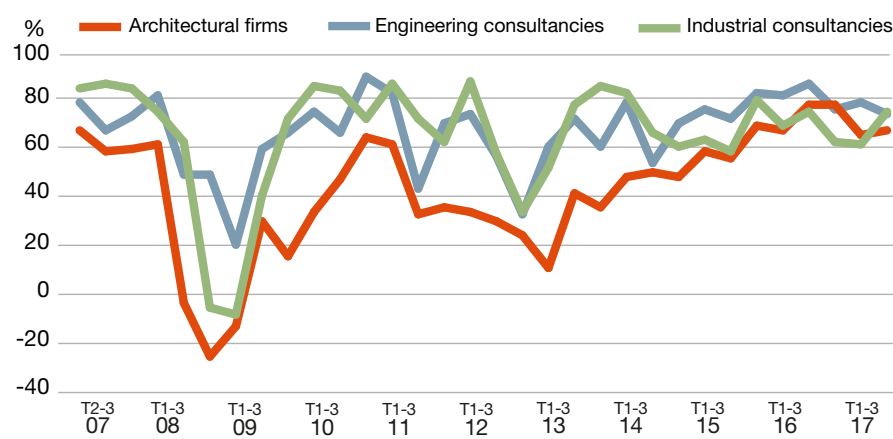
Expectations among the companies in the sector surrounding the de-



The Zenhusen Norra-project in Djurgårdsstaden (new city area in Stockholm). Architects: CF Møller.

velopment of the billing level in the future are relatively favourable; the majority (61%) believe the levels will be maintained and almost one in three (31%) companies expect a continued increase. Only 8% feel that it will decrease during the first six months of 2018. The billing level has been perhaps the principal tool to balance the disjuncture between wage rises and price increases in the sector. With payroll expenses increasing by 3–5% per annum and a price trend that in some years has remained static or in the best case increased by a few percentage points, higher order levels have been used to maintain profitability. The risk and the problems inherent in the strategy are of course primarily that

Manpower development



The expectations regarding how manpower will develop show net figures between the proportion of firms which believe their working force will increase minus those who believe it will decrease over the coming six-month period.

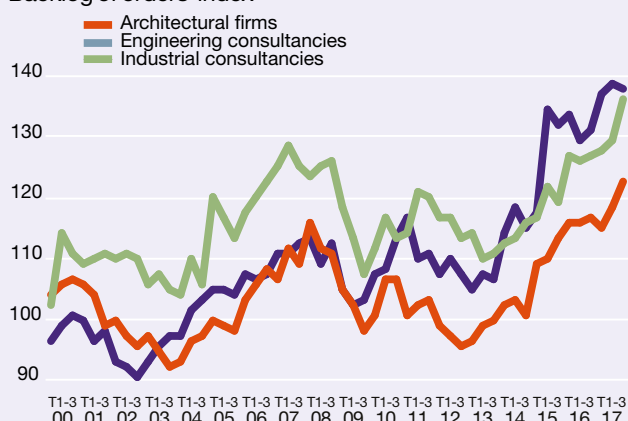
Source: The Swedish Federation of Consulting Engineers and Architects

THE FEMALE SHARE OF THE INDUSTRY'S WORKFORCE WAS 32 % IN 2016.

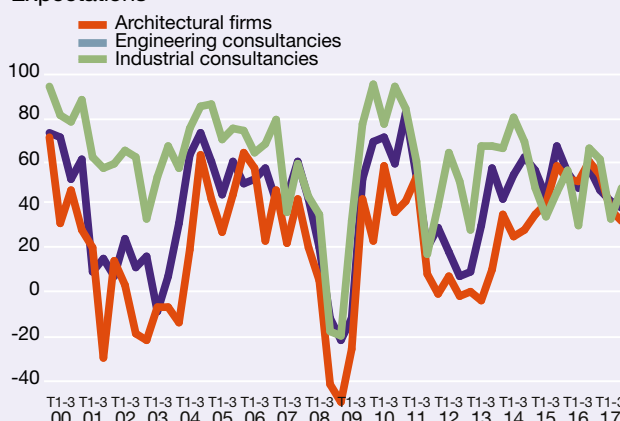


Backlog of orders – index compared with order forecasts (expectations)

Backlog of orders-index



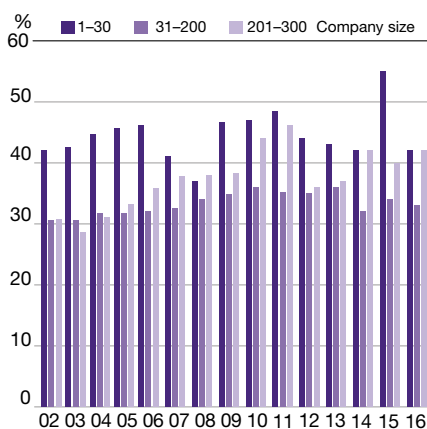
Expectations



The order backlog index is based on questionnaire surveys among STD member firms, and is calculated by weighing between the orders in hand per employee and the order level in 2, 3, 6 and 12 months' time. The confidence curve represents net figures for the proportion of firms that anticipate an improved order situation minus those that expect a worse order situation in 6 months' time.

Source: The Swedish Federation of Consulting Engineers and Architects

Equity ratio. %



Source: The Swedish Federation of Consulting Engineers and Architects

A comparison with other consulting industries, turnover/employee

| Turnover/employee (kSEK) | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
|---|------|------|------|------|------|------|------|------|------|------|------|------|
| Management consultants | 1820 | 1800 | 2075 | 2015 | 1890 | 1880 | 1906 | 1912 | 1823 | 1817 | 1924 | 2114 |
| IT consultants (adm.) | 1170 | 1135 | 1440 | 1270 | 1290 | 1480 | 1545 | 1627 | 1703 | 1917 | 1987 | 1858 |
| Lawyers' offices | 1595 | 1655 | 1750 | 1730 | 1690 | 1770 | 1840 | 1773 | 1921 | 1986 | 2104 | 2132 |
| Market surveyors | 1070 | 1085 | 1280 | 1355 | 1295 | 1445 | 1465 | 1459 | 1437 | 1423 | 1466 | 1461 |
| Public relations and communication *) | 1170 | 1265 | 1285 | 1320 | 1260 | 1235 | 1295 | 1269 | 1736 | 1808 | 1806 | 1849 |
| Auditors | 1135 | 1250 | 1250 | 1230 | 1275 | 1280 | 1320 | 1332 | 1402 | 1433 | 1491 | 1524 |
| and as per our table on page 9 | | | | | | | | | | | | |
| Industrial engineering Consultants | 902 | 905 | 908 | 912 | 941 | 980 | 1088 | 1171 | 1194 | 1181 | 1188 | 1239 |
| Architects/building engineering consultants | 1010 | 998 | 1106 | 1101 | 1084 | 1040 | 1110 | 1148 | 1093 | 1143 | 1109 | 1114 |

It is interesting to make a comparison with other knowledge-intensive sectors. The following comparative figures from the 20–50 largest companies in a few selected sectors have been collected using Soliditets' business tool; Nordic Business Key.

Source: The Swedish Federation of Consulting Engineers and Architects and Soliditets' Nordic Business

100% is the ceiling, and that administration, sales, training and research and development (R&D) must be accommodated. For example, R&D investments among the companies in the sector halved between 2014 and 2016, with the justification that there was no time or that there were no economic resources. This is a risk for the sector's and the companies' competitiveness. So, an

ever higher billing level is not necessarily always desirable.

The price trend (diagram page 12)

The price trend is moving in the right direction, average fees are increasing. But it is moving slowly, at any rate compared with increases in payroll expenses. Two in five companies in the latest member survey state that they raised their average

fees between May and September. Only one in twenty companies said that they had reduced their average fee.

This was the fourth survey in succession in which all three groups (architectural firms, engineering consultancies and industrial consultancies) reported more companies raising than lowering their prices. The industrial consultancies have long been experiencing a high level

INTERVIEW
ASA
BERGMAN,
CEO, SWECO
SWEDEN

LARGER, MORE INTERNATIONAL CLIENTS WITH NEW PROCUREMENT PATTERNS REQUIRE OTHER DEMANDS ON THE CONSULTANTS

How do you perceive the economic boom? How long will it last, do you think?

We primarily experience the boom by the strong market we find ourselves in and the fact that larger investments are being made in civil, environmental and natural resources in Sweden, within both the construction and real estate sector as well as in transport infrastructure. Sweco plans and designs tomorrow's society, towns and cities, and we are experiencing a major demand for our services. Above all, the developing towns and cities require more of the things that Sweco can offer.

How do internationalisation and consolidation affect sector development? Is it an entirely different sector compared with the situation ten years ago?

The overall globalisation trend in combination with the fact that the market in Sweden has for a long time been very sound has led to changes on both the client side as well as among the players in the engineering consultancy and architectural sectors. Larger and more international clients with partially new procurement and purchasing methods entail different requirements on the part of the consultants, and those who succeed best are the ones who can be both near the client, with an understanding of the specific requirements a knowledge of the local markets, and are at the same time global, with opportunities to offer clients the right expertise for each situation.

Sweco has a long history of expanding through acquisition and has made over 100 acquisitions over the past ten years, which have added new competence and new domestic markets, and made us into market leaders in several European countries. Within Sweco, we have consultants with various skills throughout



Åsa Bergman, CEO, Sweco Sweden.

the whole of northern Europe, and for us internationalisation has resulted in new opportunities to match expertise from different countries in our client assignments.

We have seen reduced investments in research and development. What does this mean for the sector and for the competitiveness and innovation capacity of the companies?

Sweco develops technology and adapted solutions, as we have always done in our assignments for clients and in technology development projects that we finance ourselves, which we perform with our customers or with the academic world. Through these development projects we can, for example develop methods or create new services for meeting our clients' demands. It is also a way of contributing towards engineering development and for maintaining and developing peak skills.

I believe that the key lies in being at the leading edge of digitalisation's rapid development and, with smart solutions, meeting the new challenges and requirements that digitalisation entails for our clients. Digitalisation contributes towards our towns and cities becoming sustainable and smart, and it creates

a better weekday and a better life for people who live in towns and cities. So it stands, of course, high on our agenda for being involved and contributing in this changeover.

The lack of competence is being widely discussed. What does this mean for you and what does an attractive employer look like for you today?

For us it is important to be an attractive employer for the very best engineers, architects and environmental experts. We do this on the one hand by offering the most exciting assignments in which we give them the chance of being involved in influencing tomorrow's society, towns and cities, but also by creating a work environment in which everyone feels welcome and respected. Sweco's approach is based on employees rapidly taking responsibility and being near the clients, and we place great value on individual performance and development, equality, diversity, and an open dialogue. The fact that we are ranked high in measurements taken when engineers specify their dream employer, and in our own employer surveys, is a guarantee that we are taking the right approach.

We have succeeded well in attracting new employees and recruit each year over 1000 new employees. However, we are at the same time experiencing the staff turnover that is now characterising the sector, and feel that there have been larger challenges in finding competence within specific areas, for example seniors and experienced candidates with certain peak competences, such as geotechnical engineers, designers and water and sewage treatment designers.

Is profitability good enough, bearing in mind the economic recovery? How do we solve the profitability equation, with rising payroll costs and weak price development?

Sweco has stable development and a sound level of profitability. During recent years we have raised our prices. It is a question of showing what value we create and succeed in taking payment for the value in question. We do this by having good customer relations and really understanding our clients' business operations and challenges. The price question is important for the entire sector, and here there is probably more to do.

of downward pressure on prices, and of course it is still ongoing in some areas. The price trend for the engineering consultancies has been positive since the survey in January 2016 and it has been positive for the architectural firms since January 2015.

The diagram on page 12 illustrates the companies' perception of the development of the price situation. The points on the graph correspond to the net fig-

ure for the proportion of positive and negative companies which responded to the question of whether they raised or lowered their average fees during the last measuring period.

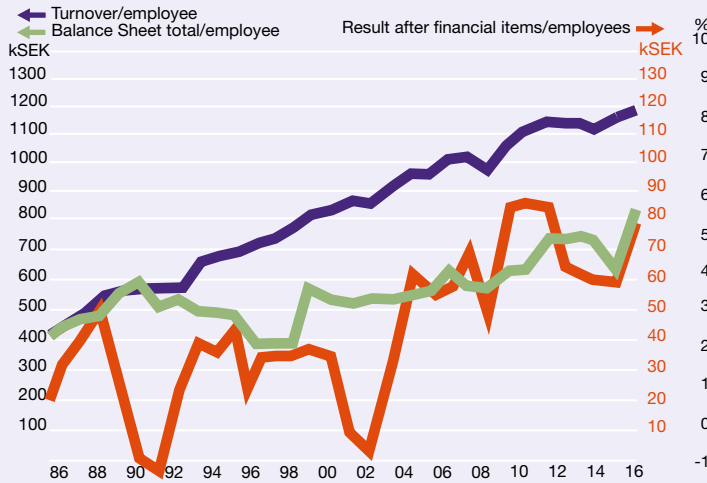
The positive price trend during 2016 and 2017, after several years of stagnation, has naturally had an impact on profitability. Not least for the architectural companies which have a lower pro-

portion of public clients compared with the engineering consultancies within construction and civil engineering. Pressure on prices in public procurements is still described as widespread. The sector now needs to continue to raise its prices so that it can retain profitability, even if the billing level was to fall by a couple of percentage points. The companies need to have resources, both capital and hu-

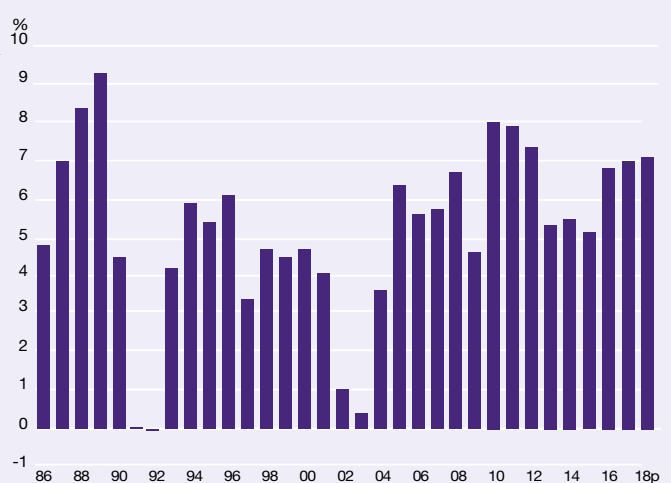
”EMPLOYEE TURNOVER
WITHIN THE INDUSTRY
IS APPROACHING 20%.



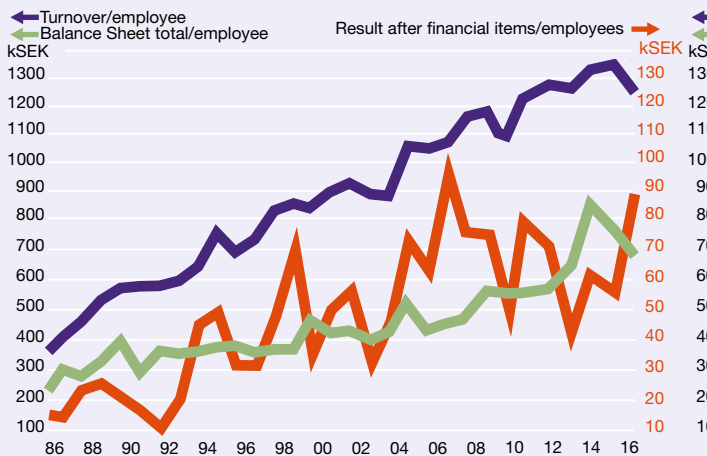
The top 30 Swedish groups



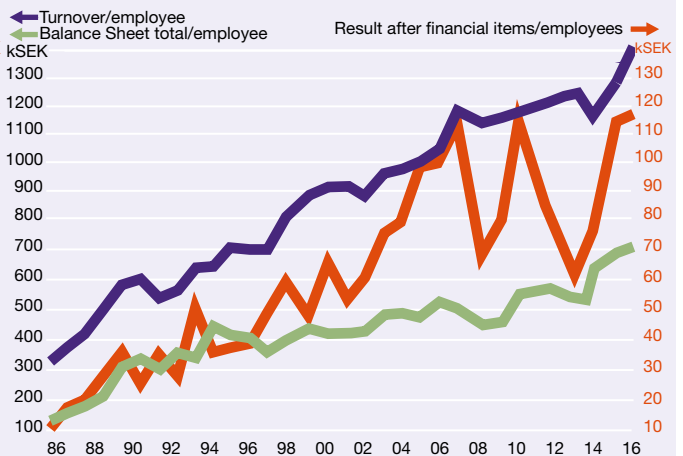
Profit margin in the top 30 groups



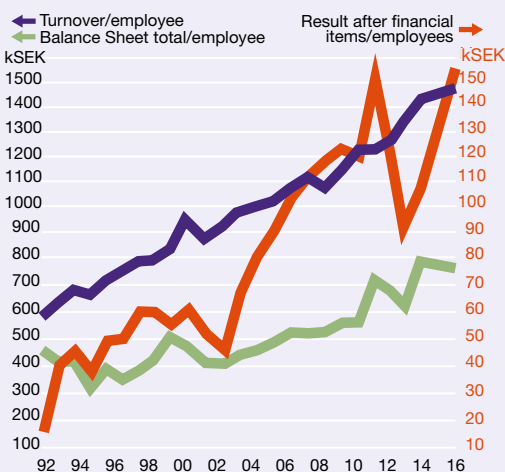
Group no. 31–50



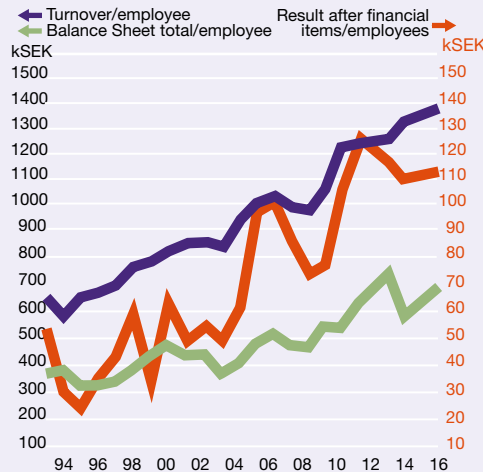
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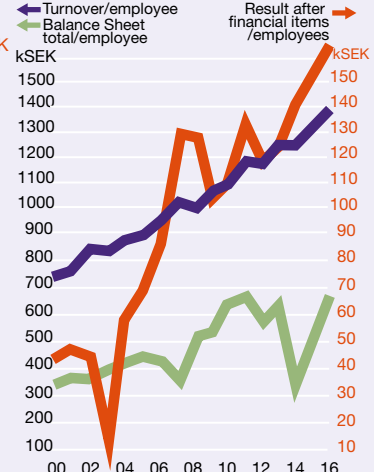
Group no. 101–150



Group no. 151–200



Group no. 201–300



Source: The Swedish Federation of Consulting Engineers and Architects

INTERVIEW
MARIA
LINDFELT,
DIRECTOR OF
HR & COMMUNI-
CATIONS, WSP

IT'S ABOUT INCREASING KNOWLEDGE OF THE SECTOR AND THE EXCITING POSSIBILITIES THAT EXIST

How serious is the shortage of trained engineers and architects for your company?

We have been experiencing a boom for a long time and there is a lot of competition for cutting edge expertise and talents. At the same time, it represents a challenge for the sector to find new working methods, to do things in a smarter way and to ensure that capable employees stay and develop in the company. For a global company like WSP, cutting edge expertise is always available within the group.

What needs to be done to make it easier to recruit and retain personal?

It's about increasing knowledge of the sector and the exciting possibilities that exist, not least in the consultancy world. The tasks an engineer performs are completely different today than they were just a few years ago. A



Maria Lindfelt, Director of HR & Communications, WSP.

lot of work is being put into attracting women and students with foreign backgrounds onto engineering courses. Those of us who work in the sector have a responsibility to disseminate knowledge about what today's engineering jobs are like. Have a look at our Instagram account, @lifeatwspsweden, for example.

What constitutes an attractive employer (which can attract and retain personal)?

I think that the decisive issue is being able to offer the employees challenges and development opportunities in interesting, complex projects. In this respect WSP has a major advantage as a growing, global company with numerous prestige commissions throughout the world. Training and career prospects is another important factor in a successful corporate culture. We have just received a gratifying confirmation that our employees are satisfied with WSP as an employer. We advanced this year from 17th to 12th place in Universum's employee survey.

A lot is spoken about the shortage of skills. What is the knowledge level like in newly graduated students? What is lacking and what can be done about any shortages?

For today's students, cooperation and communication are often a matter of course, which makes them well equipped for today's and tomorrow's working life. They have travelled a lot, have global networks and often have good language skills. As an employer we have to supplement this with a good internal programme in the form of training and mentors so that recently graduated employees quickly feel secure in their professional role.

man, to be able to invest in research and development and simultaneously generate profits for their owners and continue to invest in acquisitions.

Record level of incoming orders

The excellent level of incoming orders in the sector at the end of 2016 has continued during 2017 as well. All three groups (architectural firms, engineering consultancies and industrial consultancies) noted a higher order book index (see diagram on page 14) during the second four-month period of 2017 than they had for the last four-month period of 2016. The order book index is calculated through a weighting between orders on hand per employee and the order levels in two, three, six and twelve months. All three groups have registered historical records during the year, with the highest index figures measured since the order book index was set up before the turn of the millennium. Incoming orders in the sector are thus at a record level.

The companies' expectations regard-

ing the trend for incoming orders (see diagram on page 14) for 2017 remain optimistic. Four in ten (43%) of the companies in the latest member survey believed there would be an increase in incoming orders during the first six months of 2018, only one in fifty (2%) companies believed there would be a decrease. It is possible that the situation might have changed slightly since the survey was conducted in September and October. Housing investments have slowed. Perhaps faster than expected a few months ago, as the housing market has reached saturation, with thousands of new apartments coming on to the market in recent years, at the same time as the mass media has created a panic over a potential price crash that has resulted in disequilibrium between buyers' and sellers' price expectations. However, the housing shortage has not yet been resolved through more house building, so housing investments will not entirely cease, but will probably continue for many years to come, though possibly at a slower pace. Besides the

housing market, which has been the engine for the construction sector in recent years, developments in other sub-sectors have also been positive. Both public investments in properties, hospitals, schools and infrastructure, as well as private investments in offices, commercial premises, hotels and energy plants has increased during the last year. The development also looks like continuing during the coming year, not least the investments in infrastructure and plants.

The industrial consultancies' order development is largely dependent on what demand is like for the manufacturing industry. Demand in the domestic market has been good for several years now, with some fluctuations, while it has been weaker from international markets. Demand for exports has also increased in line with an increasingly strong recovery throughout Europe and satisfactory growth in the USA. At the same time, the industrial companies are currently investing in product and process development, so the industrial consultancies

THE TOP 50 ARCHITECTURAL GROUPS



| | 17 | 16 | Group | Annual report | Turnover MSEK | (Previous year) | Em- ployees |
|-----|----|----|---|---------------|---------------|-----------------|----------------|
| STD | 1 | 1 | White Architects | 16 | 892.2 | 824.3 | 682 |
| STD | 2 | 2 | SWECO Architects * | 16 | 834.0 | 780.0 | 629 |
| STD | 3 | 3 | Tengbom group | 16 | 628.4 | 527.2 | 603 |
| STD | 4 | 4 | PE Arkitektur * | 16 | 275.0 | 252.0 | 237 |
| STD | 5 | 12 | Tyréns Arkitektur (Pyramiden & AQ Arkitekter, et al)* | 16 | 240.0 | 118.6 | 230 |
| STD | 6 | 8 | Mälarholmen (Ettelva Arkitekter & M.E.R. Solution) | 16 | 187.3 | 143.0 | 84 |
| STD | 7 | 6 | Wingårdh-group | 16 | 178.6 | 158.8 | 141 |
| STD | 8 | 9 | Semrén & Månsson Arkitektkontor AB | 16/17 | 159.1 | 142.8 | 156 |
| STD | 9 | 5 | Link Arkitektur AB | 16 | 157.4 | 155.5 | 139 |
| STD | 10 | 7 | Arkitekterna Krook & Tjäder AB | 16 | 153.3 | 143.9 | 137 |
| STD | 11 | 11 | Liljewall Arkitekter AB | 16 | 151.4 | 129.6 | 136 |
| | 12 | 32 | ÅF (SandellSandberg & Koncept Sthlm) * | 16 | 140.5 | 41.9 | 109 |
| STD | 13 | 10 | FOJAB AB | 15/16 | 139.0 | 99.3 | 105 |
| STD | 14 | 13 | NYRÉNS Arkitektkontor AB | 16 | 138.3 | 112.6 | 100 |
| STD | 15 | 14 | AIX Arkitekter AB | 15/16 | 116.9 | 101.1 | 84 |
| STD | 16 | 16 | Brunnberg & Forshed Arkitektkontor AB | 16 | 103.7 | 84.5 | 70 |
| STD | 17 | 15 | ÅWL Arkitekter AB | 16 | 101.8 | 85.6 | 79 |
| STD | 18 | 17 | Arkitema AB | 16 | 97.7 | 84.3 | 86 |
| STD | 19 | 18 | Byrån för Arkitektur & Urbanism (BAU) | 16 | 85.8 | 80.6 | 58 |
| STD | 20 | 22 | BSV Arkitekter & Ingenjörer AB | 16 | 82.0 | 66.4 | 61 |
| STD | 21 | 24 | Archus | 16 | 81.4 | 54.2 | 55 |
| STD | 22 | 21 | Reflex Arkitekter AB | 16/17 | 81.0 | 75.7 | 54 |
| STD | 23 | 20 | Cedervall Arkitekter | 16 | 78.8 | 76.8 | 79 |
| | 24 | 29 | Strategisk Arkitektur Fries & Ekeröth AB | 16 | 72.1 | 44.5 | 40 |
| STD | 25 | 19 | BSK Arkitekter AB | 16 | 69.7 | 78.9 | 53 |
| STD | 26 | 26 | Equator Stockholm AB | 16 | 69.4 | 46.7 | 45 |
| | 27 | | Codesign Sweden AB | 15/16 | 66.3 | 50.5 | 41 |
| STD | 28 | 25 | A & P Arkitektkontor AB | 16 | 66.0 | 49.5 | 32 |
| | 29 | 23 | Wester+Elsner Arkitekter AB | 16 | 64.7 | 62.7 | 42 |
| STD | 30 | 27 | Yellon AB | 16 | 53.3 | 44.9 | 46 |
| STD | 31 | 30 | BBH Arkitektur & Teknik AB | 16 | 52.9 | 43.9 | 30 |
| STD | 32 | 35 | MAF Arkitektkontor AB | 15/16 | 50.4 | 39.1 | 35 |
| STD | 33 | 31 | Carlstedt Arkitekter AB | 16 | 49.7 | 43.6 | 49 |
| STD | 34 | 28 | SYD ARK Konstruera AB | 16/17 | 48.7 | 44.4 | 46 |
| STD | 35 | 39 | Scheiwiller Svensson Arkitektkontor AB | 16/17 | 47.5 | 36.0 | 29 |
| STD | 36 | 36 | C.F. Møller Sverige AB | 16 | 47.5 | 38.3 | 40 |
| | 37 | 42 | DAP Stockholm | 16 | 43.4 | 32.3 | 12 |
| STD | 38 | 47 | Lindberg Stenberg Arkitekter AB | 16 | 40.6 | 30.1 | 32 |
| | 39 | 46 | Kjellander & Sjöberg AB | 15/16 | 39.5 | 31.0 | 41 |
| STD | 40 | 33 | Arkitekthuset Monarken AB | 16/17 | 39.0 | 41.3 | 42 |
| STD | 41 | 40 | Landskapslaget AB | 16 | 38.7 | 34.7 | 27 |
| STD | 42 | 43 | Arkitektgruppen G.K.A.K AB | 16 | 38.2 | 35.3 | 27 |
| | 43 | 58 | Kanozi Arkitekter AB | 15/16 | 37.7 | 26.3 | 31 |
| | 44 | 55 | DinellJohansson AB | 16 | 36.9 | 28.2 | 25 |
| STD | 45 | 49 | Okidoki AB | 16 | 36.9 | 29.6 | 39 |
| STD | 46 | 37 | Thomas Eriksson Arkitektkontor AB | 16 | 36.6 | 38.3 | 27 |
| STD | 47 | 70 | Alessandro Ripellino Arkitekter | 16 | 36.5 | 22.2 | 25 |
| STD | 48 | 34 | Erséus Arkitekter AB | 16 | 34.4 | 40.6 | 29 |
| STD | 49 | 52 | HMXW Arkitekter AB | 16 | 33.0 | 29.3 | 22 |
| | 50 | 41 | ABAKO Arkitektkontor AB | 16 | 32.5 | 34.4 | 34 |

STD = Member of the Swedish Federation of Consulting Engineers and Architects. (*) = lack of conforming figure/proforma/assumed. The 50 largest architectural groups had a turnover of SEK 6,385 million in 2016 (previous year SEK 5,447 million). The average number of employees was 5,055 (4,613) and the turnover per employee SEK 1,263,000 (SEK 1,181,000). The list contains those groups in which architectural activities dominate.

Source: The Swedish Federation of Consulting Engineers and Architects

have had an increasing order development for two or three years and during 2017 the development has led to new record levels in terms of orders.

Investments within the sector

The table (page 10) shows the investments made in the sector during 2016 along with projections for the investment trend during 2017 and 2018. Investments in construction and civil engineering rose by 9 % between 2015 and 2016, to a total of SEK 457.9 billion. The main reason for this was the large increase (14 %) in housing investments. However, investments in premises (4 %), industrial buildings (9 %) and infrastructure and plants (6 %) also increased. The investments made by the industry in machinery and equipment increased by 3 % to SEK 56.9 billion.

Investments within the construction and civil engineering sector are expected to increase by some 12 % in 2017 and 4 % in 2018. It is still housing investments that are driving the increase. Even though a weakening of housing construction is expected, due to decreasing demand for newly constructed homes, investments in building construction projects that are in progress are expected to increase next year too. After that it is likely that investments in housing projects will decline for a few years.

The Employment Situation

(see diagram page 13)

There is still a skills shortage. The latest member survey showed that three in four companies needed new employees. Employee turnover is approaching 20 % on a yearly basis. Competition for skills is increasing, with companies taking personnel from each other and a resultant wage spiral.

In the member survey in September, fully three in four companies needed new recruits. Among the engineering consultancies, 80 % responded that they needed to recruit, while 2 % thought they would be cutting their workforce. Among the architectural firms, 71 % signalled a recruitment requirement and no

THE TOP 50 GROUPS WITHIN INDUSTRIAL ENGINEERING

| | 17 | 16 | Group | Annual report | Turnover MSEK | (Previous year) | Em- ployees |
|-----|----|----|--|---------------|---------------|-----------------|----------------|
| | 1 | 1 | ÅF (divisions + acquisitions) * | 16 | 7130.0 | 6900.0 | 5500 |
| STD | 2 | 9 | Sigma Group (industry & IT) | 16 | 2740.0 | 605.0 | 2689 |
| STD | 3 | 5 | Rejler group, Industry & Energy * | 16 | 1880.0 | 1200.0 | 1940 |
| | 4 | 3 | Combitech AB (acquired Tikab) * | 16 | 1789.1 | 1602.2 | 1502 |
| STD | 5 | 2 | Semcon AB | 16 | 1755.9 | 1656.6 | 1956 |
| | 6 | 4 | HIQ International AB | 16 | 1659.4 | 1508.0 | 1361 |
| | 7 | 6 | Alten Sweden | 16 | 994.6 | 894.1 | 1157 |
| STD | 8 | 7 | SWECO Industry & Energy * | 16 | 950.0 | 860.0 | 875 |
| STD | 9 | 8 | WSP Industry * | 16 | 772.0 | 639.0 | 747 |
| STD | 10 | 10 | Dekra Sweden (Industrial + Automotive) * | 16 | 652.0 | 544.5 | 573 |
| | 11 | 12 | Altran Sweden | 16 | 530.6 | 484.9 | 503 |
| STD | 12 | 11 | Pöry Sweden AB | 16 | 525.1 | 488.2 | 478 |
| STD | 13 | 13 | Knightec AB | 16/17 | 485.8 | 457.9 | 503 |
| STD | 14 | 14 | COWI Industry * | 16 | 460.0 | 420.0 | 435 |
| STD | 15 | 15 | Etteplan Sweden AB * | 16 | 420.2 | 395.6 | 419 |
| STD | 16 | 16 | Ansaldo STS Sweden AB | 16 | 383.8 | 314.1 | 56 |
| STD | 17 | 17 | Avalon Innovation AB | 16 | 311.5 | 310.6 | 240 |
| STD | 18 | 21 | Consat AB | 16 | 235.1 | 216.0 | 188 |
| | 19 | 20 | Z-Dynamics (Infotiv & Combine) | 16 | 224.4 | 220.7 | 248 |
| STD | 20 | 26 | Projektengagemang (PE Industri) * | 16 | 218.0 | 146.0 | 204 |
| | 21 | 22 | Eurocon Consulting AB | 16 | 214.2 | 198.8 | 204 |
| | 22 | 34 | Essiq AB | 15/16 | 175.5 | 139.8 | 227 |
| | 23 | 18 | Elektroautomatik i Sverige AB | 16 | 173.7 | 230.7 | 93 |
| STD | 24 | 36 | Neste Jacobs AB | 16 | 169.8 | 111.7 | 134 |
| | 25 | 23 | TechniaTranscat AB | 16 | 169.3 | 168.4 | 91 |
| STD | 26 | 28 | i3tex AB | 16 | 165.5 | 134.4 | 180 |
| STD | 27 | 25 | FS Dynamics AB | 16/17 | 160.3 | 157.5 | 160 |
| STD | 28 | 35 | Devport AB | 16 | 154.0 | 112.0 | 135 |
| | 29 | 24 | Optronic Partner PR AB | 16/17 | 146.7 | 158.3 | 50 |
| STD | 30 | 27 | Core Link AB | 16 | 146.0 | 135.7 | 49 |
| STD | 31 | 38 | HRM Engineering AB | 16 | 136.4 | 100.9 | 128 |
| STD | 32 | 32 | Cactus Utilities & Rail * | 16 | 130.7 | 115.4 | 68 |
| STD | 33 | 43 | Teamster AB | 16 | 126.9 | 92.9 | 46 |
| STD | 34 | 37 | Escenda Engineering AB (acquired by Tata Technologies) | 16 | 125.1 | 103.8 | 95 |
| STD | 35 | 51 | Segula Technologies AB | 16 | 122.9 | 73.9 | 120 |
| STD | 36 | 30 | Engineeringpartner Automotive Nordic AB | 16 | 112.7 | 119.2 | 115 |
| | 37 | 57 | T-Engineering AB | 16 | 110.9 | 70.6 | 51 |
| | 38 | 31 | QRTECH AB | 16 | 109.4 | 118.4 | 77 |
| STD | 39 | 39 | Condesign AB | 16 | 107.3 | 99.0 | 120 |
| STD | 40 | 66 | Automations Partner i Helsingborg AB | 16 | 100.0 | 60.7 | 35 |
| STD | 41 | 55 | AcobiaFlux AB * | 16 | 96.2 | 73.0 | 54 |
| STD | 42 | 49 | Havd Group | 16 | 95.1 | 74.6 | 31 |
| STD | 43 | 56 | Ansys Sweden | 16 | 94.0 | 70.8 | 23 |
| | 44 | 50 | Technogarden Engineering | 16 | 92.6 | 74.4 | 107 |
| | 45 | 48 | TechRoi AB | 16 | 87.3 | 75.5 | 68 |
| | 46 | 40 | Veryday AB (fmr Ergonomidesign) | 15/16 | 85.3 | 97.5 | 57 |
| | 47 | 60 | Prose AB | 16 | 85.0 | 68.1 | 62 |
| | 48 | 86 | Fiber Network Consulting AB | 16 | 81.3 | 38.6 | 38 |
| STD | 49 | 45 | Conmore Ingenjörbyrå AB | 16 | 78.9 | 80.7 | 114 |
| | 50 | 62 | IETV Elektroteknik AB | 16/17 | 76.1 | 63.7 | 31 |

STD = Member of the Swedish Federation of Consulting Engineers and Architects. (*) = lack of conforming figure/proforma/assumed. The 50 largest groups within industrial engineering had a turnover of SEK 27,846 million (previous year SEK 24,430 million) in 2016. The average number of employees was 24,337 (21,610) and the turnover per employee SEK 1,144,000 (SEK 1,130,000). The list only includes groups where industrial engineering consultancy is the dominating activity.

Source: The Swedish Federation of Consulting Engineers and Architects

companies felt there would be cutbacks. Among the industrial consultancies, 79% needed to recruit and none needed to reduce their workforce.

A member survey in June noted that the sector needed to employ 7,500 people by the turn of the year. This is equivalent to 12% of the sector's total workforce. In the same period in 2016, the sector needed to employ 5,600 people, so the need has increased since last year. It emerged in the same survey that half (45%) of the employees recruited during 2016 came from competitors. In June the companies thought that they would be able to fill three quarters of their vacancies. In itself this would entail at least 2,000 vacancies not being filled. At the same time, it has to be remembered that half of the new recruits come from competitors and thus create vacancies at the same time as they are employed. With that in mind, the real staff shortage in the sector actually numbers around 5,000 people, or just under 8% of the sector's overall staffing.

Employee turnover continues to increase in the sector. With the figures that were recorded for the first and second four-month period of 2017, it is consequently likely that the total employee turnover for 2017 is more like 20%. Employee turnover was 15% in 2016. The industrial consultancies had the highest employee turnover during the second four-month period this year at 8.4%, while the architectural firms and the engineering consultancies had an employee turnover of just under 6%.

The shortage of skills has emerged as the major challenge within the sector and has become a bottleneck for productivity, at the same time as contributing to accelerating the wage spiral. Admittedly, the price trend has moved in the right direction during the last year, but it is moving too slowly. Bearing in mind the excellent level of incoming orders in the sector, profitability is not particularly noteworthy. Something needs to be done about this. More engineers and architects are needed. The number of beginner's places in the universities needs

INTERVIEW
JOHN
LYDHOLM,
CEO LINK
ARKITEKTUR

“FOREIGN-OWNED
COMPANY PRESENCE
ON THE SWEDISH MARKET
HAS DOUBLED IN TEN YEARS.

“NOBODY CAN DO EVERYTHING, WE MUST CHOOSE AND MAKE PRIORITIES IN OUR R&D INITIATIVES

In what ways do you notice the boom, and will it last, do you think?

Just like the sector as a whole, at LINK arkitektur we have had a few years of growth and strong demand. From a historical perspective, the boom should have a downturn now, however, there are aspects that suggest otherwise. In part, Sweden has become more integrated with surrounding economies, which might mean that the predicted business cycles are broken. At the same time, we are operating in a period with major demographic changes and steady population growth. This will produce a major need for construction for a long time to come – regardless of economic situation.

Demand for housing, and not least social housing, has been at a high level in recent years, we can observe this in all our offices, from Umeå in the North to Malmö in the South. Furthermore, clients have started to ask for services permeated by sustainability – both environmental and social. Eco-labelling is no longer sufficient – projects are in demand that promote a climate-smart life style and which create spatial conditions for meetings and interaction. The high level of ambition in relation to sustainability is placing new expectations on our expertise.

All in all, this leads me to think that the strong economic situation will remain in place, producing another few years of relatively good growth for the sector. Pressure on the market will probably increase, prices for land



John Lydholm, CEO, LINK arkitektur.

and building plots will be adjusted down at the same time as clients will demand increasingly cost-effective production. In turn, it will mean that us architects will need to develop our role as specialists and advisers. Architects need to be able to systematise their knowledge in order to re-use experiences more optimally and deliver more of the values that are demanded, such as functionality, innovation, sustainability and BIM benefits. Values that ultimately strengthen the customer's offer and simultaneously add value to society from which we can all benefit.

We have observed declining investments in research and development. What will this mean for the sector's and the companies' competitiveness and capacity to innovate?

This is a direct consequence of the sector's high level of orders. Everybody is working under pressure of time and research and development has a low priority compared with helping clients. The solution is to involve clients in development issues and integrate them in relevant projects. Collaborations such as this enable both parties to move their positions forward and, in the best case, create values from which both can derive benefit.

Nobody can do everything, we must choose and make priorities in our R&D initiatives. LINK arkitektur chooses to focus on a range of sustainability perspectives, environmental and economic, but also social sustainability and the requirements placed on actors and society. We are also instigating initiatives in relation to the sector; 100gruppen is an association that we set up when we perceived a problem in relation to the enormous amount of interior fittings that are discarded every year. By involving actors throughout the interior design sector, we have succeeded in putting together a capacity for innovation that is working to promote a circular green economy.

I feel that overall we are putting more time into research and development than the figures suggest. As stated, much of the development is integrated in the projects. If we were to get better at "best practice" studies, it would be possible to share the knowledge more widely. Information technology is developing rapidly and knowledge sharing will take place at a completely different level and at a different pace. Right now we are moving forward fastest and most effectively through the architect and the client together setting a high level of objectives. We must take the time to analyse and try to understand the user's and the end customer's needs. Based on a careful analysis, we can then work innovatively to create what the end consumer is asking

to be expanded by a couple of thousand for there to be any chance of rectifying the skills shortage in a few years.

Age and gender structure

The member companies within the Swedish Federation of Consulting Engineers and Architects have an overall workforce of about 35,000 in Sweden. This is equivalent to half the sector's staffing. According to the Confederation of Swedish Enterprise's wage statistics, 32% of the total workforce in 2016 were women. This is a marginal increase compared with the year before when the proportion of women was 31.5%,

however this is an upward trend, even though it is moving slowly. The proportion of women in 2007 was 26%. When it comes to female CEOs, board members and other executives, things have moved in somewhat different directions during the last year. During 2017, 12% of the CEOs in the 300 largest companies were women, a small increase from 11% during 2016. However, the proportion of women in senior management fell to 29.6% this year from 32% last year, and the proportion of female board members fell to 20.9% from 23.4% during 2016.

The average age among the 35,000 employees in the Swedish Federation of

Consulting Engineers and Architects members in 2016 was 40.8. It has fallen from 41.4 year during 2015. It has fallen for both men and women. The average age for women was 39.5 in 2016, against 39.9 last year. The average age for men was 41.4 against 41.9 in 2015.

Globalisation in Sweden

Globalisation has really had an impact in the sector during the last decade. Not least due to the fact that many international groups looked to Sweden and the Nordic region after the financial crisis of 2008 when investments in infra-



for and that will be beneficial for them. This is also beneficial for the consultant, the client and society, from all perspectives. We have sensible clients who want to collaborate in these issues and who want to fly the flag and be a guiding force within different development areas.

The shortage of expertise is widely discussed. What does it mean for you?

We perceive a distinct risk of this, in both the short and long term. Because our personnel are our greatest and most important resource. Systematic recruitment and proactive work on stress management are central and have received greater attention in the last three years. The high demand and pressure on deliveries is a drain on the organisation and a challenge to the quality of what we create. We want to be assured at all times that we can keep what we promise in relation to time, budget and quality. We have consequently chosen to decline commissions sometimes when for time reasons we can't guarantee a satisfactory delivery.

Everybody in the sector will probably want to look back in ten years' time and think that this was the best decade we have experienced thus far. We don't want to put this at risk simply due to a skills shortage. The protracted shortage is obviously affecting our capacity and a part of the solution for us at LINK arkitektur has been new thinking when it concerns recruitment and collaboration. Young employees have had to take major responsibility at an early stage here, we have recruited architects from several different countries and are working closely together with our colleagues in Norway and Denmark. This has brought with it new dimensions which are continually getting stronger and making us more competitive as an architect partner.



Trädgårdarna retirement home in Örebro, designed by Marge Architects, winner of the Bostadspriset (housing award) in 2017.

PHOTO: JOHAN FOWELIN

structure and construction fell dramatically throughout Europe. At the same time, the major Swedish groups were also part of the consolidation that took place within the sector throughout the world, mainly establishing themselves abroad through acquisitions. During the last ten years, the major Swedish groups have thus become both larger and more international, at the same time as they have encountered new competitors in their domestic market. In a comparison of foreign-owned groups among the 50 and 300 largest groups of companies in Sweden in 2007 and 2017, it can be observed that foreign-owned businesses

doubled in ten years, measured in relation to turnover and number of employees. In terms of number of companies, it has quadrupled, from nine out of 300 foreign-owned companies in 2007, this year there were 41. In 2007 the foreign-owned companies represented SEK 3.88 billion in turnover and 4,160 employees, which is equivalent to 13% of total turnover and the number of employees (for the 300 largest companies). All nine foreign-owned companies were then also among the 50 largest companies in Sweden. In 2017, the 41 foreign-owned companies (among the 300 largest) represented a turnover of SEK 15.8 billion and 13,100

employees, which is equivalent to 25% and 27% respectively of the total turnover and the number of employees. 17 of the 41 foreign-owned companies are among the 50 largest companies in Sweden. There is thus now a larger distribution of foreign-owned companies.

An interesting comparison is the size of the foreign-owned companies in Sweden and the Swedish groups' operations in foreign subsidiaries. The Swedish subsidiaries abroad turn over SEK 16.9 billion and employ 15,800 people, in other words, slightly more than the total for foreign-owned operations in Sweden; SEK 15.8 billion and 13,100 employees. Glo-

INTERVIEW
DIMITRIS
GIOULEKAS,
CEO, KNIGHTEC

“(THE LACK OF) CAPABLE AND DRIVEN ENGINEERS REPRESENT A BOTTLENECK FOR DEVELOPMENT IN SWEDEN

In what ways do you notice the boom? How long will it last, do you think?

When industry is doing well there is a lot of demand for our consultancy services, this is because our clients' organisations are being run on an increasingly slimmed down basis in parallel with their products and projects becoming increasingly complex. And it doesn't just concern individual specialist services. We are seeing an increasing demand for projects and are taking responsibility for major development projects.

The boom is also noticeable in our recruitment work. Capable and driven engineers represent a bottleneck for development in Sweden and it is also affecting our sector. Despite the fact that we recently came in eighth place in Universum's "Sweden's best employer" survey, which is a fantastic acknowledgement of us as an employer, we have to work hard on recruitment.

How is internationalisation and consolidation affecting the sector's development? Is the sector completely different from what it was like ten years ago?

Industry in Sweden is already largely international. For the most part, the largest industrial companies in Sweden have foreign owners, the Swedish market constitutes an ever smaller part of their turnover. Sub-contractors are also expanding abroad and encountering a large number of fantastically capable competitors. This also applies on the consultancy side. International competition is putting pressure on prices and placing ever higher requirements on a high level of expertise and an effective operation. Outsourcing of services to subcontractors abroad as well as companies' own subsidiaries, in Eastern Europe for example, is becoming increasingly common. In order to be able to compete in the long-term, we must become much more focused in Sweden. It concerns technical training which can compete in a global market, but also the capacity to develop specialisations and business skills.

The consultancy sector today is completely different than it was ten years ago, and it will look completely different in ten years time. Requirements for subcontractors will continue to increase and considerably higher requirements will be placed on proactivity and really being best within one's field. Through



Dimitris Gioulekas, CEO, Knightec.

Knightec, I want to contribute to developing our economy and increasing the attraction of our sector, including through our view of diversity and through developing new types of services. The consolidation towards larger actors will continue, but at the same time I think that there is a market for small specialised companies. It is the medium-sized consultancies without a clear focus that will get caught.

We have observed declining investments in research and development. What will this mean for the sector's and the companies' competitiveness and capacity to innovate?

In a globalised world, companies invest in research and development where expertise and markets are located. In this context Sweden is a minor player. China has overtaken the EU in terms of research initiatives and many countries are solidly focused on developing peak skills and cutting-edge research. With our school results falling and the universities receiving grants based on quantity instead of quality, a vigorous shake-up is needed. We need an education system which prioritises learning and effort all the way from elementary school to university. Today Sweden has the OECD's lowest education premium. It doesn't bode well if we want to be a knowledge nation.

It should also be remembered that investments in research do not necessarily imply successful companies. Today many tech companies are disappearing abroad and an increasing proportion of their investments are going abroad.

To be able to defend and develop our prosperity in Sweden requires an internationally competitive climate for companies and entrepreneurs so that they want to operate and develop here. It concerns simple regulations, taxation of share options, internationally comparable taxes and also practical areas such as a functioning housing market. In this context, greater insight and energy is needed from our politicians.

Is profitability sufficiently high, bearing in mind the boom? How is the profitability equation to be resolved, with rising payroll expenses and a weak price trend?

The focus should be on continuously developing the personnel, their capacity to collaborate and their capacity to constantly challenge and develop the clients. It leads in turn to interesting, challenging and developmental projects. It is an interplay. Consultants who do not develop their knowledge quickly become uninteresting. To be able to invest and develop the company's expertise and offering needs profitability that is satisfactory in the long-term. To achieve this requires constant work on increasing the efficiency of the operation and proactively proposing price models where the focus is moved from the number of hours in the project to the value that is concretely delivered. It concerns working methods, digital solutions and business models.

What are the major challenges for the companies in the sector?

Many would say skills provision and I would agree with that. But I also think that adaptation to a global reality with stiffer competition and mobility of talent is a greater challenge than we think. It is a question that both the business world and our politicians need to take more seriously. Things have gone well for Sweden for a long time, and it has probably made us a bit comfortable. It is time to realise that we are not best in the world any longer, that success is not achieved by itself, and that we have a lot to learn from others. It is quite simply time to make a real effort!





The winner of Trafikverkets (Swedish Transport administration) architecture price of 2017; the E6 highway through Världsarvet, on the Pålen-Tanumshede section of the route. Josefine Lenning was the landscape architect responsible for this project.

balisation really is moving in both directions and the market for the major actors is getting ever larger, at the same time as local presence is still of major importance.

Swedish structural deals

Consolidation is continuing in the sector, in conjunction with globalisation, and a large number of acquisitions have been made this year too. It primarily involves the two giants, Sweco and ÅF, but transactions with other actors have also taken place. Projektengagemang continues to expand and several Nordic groups have made acquisitions in Sweden during the year.

A number of the transactions that have taken place during the year are described below, as well as some news concerning changes of management.

Sweco makes Belgian and Nordic purchases

Just as Tomas Carlsson, group chief executive of Sweco, said in 2016 about its strategy for the future, acquisitions have continued this year, but with the focus on central Europe and, to some extent, the Nordic region.

However, the transactions started in Finland with the acquisition of **Karves-företagen** (Karves -Yhtiöt, -Suunnittelu and -Energia & Valvonta) with a total of some 50 employees and a turnover of just over 5 million Euros. The acquisition

strengthens Sweco's offer in relation to construction, refurbishment and energy efficiency for property owners in Finland.

After Finland attention was focused on Belgium, where two transactions were completed during the summer. The first purchase was the Brussels-based installation consultancy **M&R Engineering** with 50 employees and some 6 million Euros in turnover. The Flemish construction consultant **Snoeck & Partners** was subsequently purchased with 24 employees and 3 million Euros in turnover. In October the Norwegian engineering consultancy **Dimensjon Rådgivning AS**, based in Stavanger, was acquired with 53 employees and a turnover of around NOK 60 million. Dimensjon specialises in urban planning, structural engineering and infrastructure.

ÅF's shopping spree continues

ÅF has been an active acquirer in recent years and 2017 has been no exception. 2016 was concluded with the acquisition of the Danish engineering consultancy **Midtconsult** with 180 employees and a turnover in 2016 of some DDK 100 million.

In January the Swiss engineering consultancy **Edy Toscano AG** was acquired with over 370 employees and a turnover in 2015 of SEK 430 million. The acquisition complements the previous focus on the energy sector in Switzerland

by targeting the infrastructure sector as well. In addition, the purchase was made of the Swedish company, **Quality Engineering Group**, with offices in Västerås and Frölunda. QE-group is an industrial consulting firm targeted at the pharmaceutical-, energy- and processing industry, with 24 employees and a turnover of around SEK 30 million.

Vatten & Miljöbyrå was acquired in February with 24 employees and a turnover of SEK 30 million, along with the Piteå-based HVAC and energy consultancy **Cecon** with a turnover of some SEK 6 million. The geotechnical consultant **Teroc Engineering AB** was acquired in March with 2 employees.

One Jonas succeeded by another

Jonas Wiström was succeeded as group chief executive in April, after 15 years in the post, by **Jonas Gustavsson**, whose most recent position was at Sandvik Machining Solutions.

In May the focus remained on the architecture sector with the acquisition of **Koncept Stockholm Arkitekter** with 70 employees and SEK 85 million in turnover.

Eitech's automation department was purchased in May with a turnover of SEK 90 million and 42 employees distributed throughout offices in Umeå, Stockholm, Malmö and Göteborg. The London-based lighting design company, **Light**



Skissernas museum in Lund. Winner of the Kasper Salin-award in 2017, designed by Elding Oscarson.

PHOTO: ÅKE ESON LINDMAN

Bureau, was acquired in October with 10 employees and SEK 6 million in turnover.

PE continuing to grow with a new CEO

Projektengagemang has been very active on the acquisitions front in recent years, and that was the case this year too. It concluded 2016 with the acquisition of the electrical and security consultant **HJR Projekt-El** with 110 employees and started 2017 with the acquisition of the construction consultant **Konkret Rådgivande Ingenjörer**, with 50 employees and a turnover of SEK 68 million.

Per-Arne Gustavsson left the position of MD and group chief executive in October and is due to retire in 2018. Per-Arne set up Projektengagemang in 2006, and is handing over a company with some 1,000 employees and just over one billion in turnover. **Per Hedeback**, business area manager at Munters, simultaneously took over the position.

WSP acquired ProVab AB

In January, WSP acquired the Kramfors-based engineering consultancy ProVab, which specialises in water purification, sewage purification and automation. ProVab has 31 employees and turned over just over SEK 45 million in 2015.

In January, **Combitech** acquired the

technical information company **Tikab**, with 63 employees and a turnover of SEK 4.6 million. In February, Semcon sold its German operation, Engineering Services, with a turnover of SEK 900 million and 800 employees, to Valmet Automotive for 14.1 million Euros. In August **Rejlers** acquired **Infrakonsult Syd**, with 5 employees and a turnover of SEK 7 million, thereby strengthening its offer within the fibre optics field. At the same time, Rejlers AB's board of directors announced the appointment of **Viktor Svensson** as new MD and group chief executive to replace **Peter Rejler**, who is expected to take over the position of chairman of the board after the general meeting of shareholders in March 2018.

Danish acquisitions

In March, the project management consultant COWI acquired **Projektbyrå Stockholm AB** with 78 employees and a turnover of SEK 140 million. In August, **Aperto Arkitekter och Byggkonsulter AB** with 38 employees and a turnover of SEK 4.2 million was acquired by **Niras**.

In June, the Finnish company **Etteplan** purchased **Sorona Innovation AB**, which specialises in documentation solutions. In 2016 Sorona had a turnover of just under SEK 12 million SEK and 9 employees. In November, the Swedish

architect's office **Glantz Arkitektstudio**, with 13 employees and a turnover of just over SEK 11 million was purchased by the Norwegian company **Norconsul**.

Change of CEO at Tyréns

In November, **Ulrika Francke** handed over the position of MD and group chief executive to **Johan Dozzi** after 10 years at the helm. Johan Dozzi's most recent position was at Sweco. Ulrika Francke takes up a position on Tyréns board of directors.

In October, Tyréns acquired a majority stake in the British installation consultancy **Hilson Moran**, with 250 employees and a turnover of SEK 260 million. The company's management will remain as partners, and the business will be operated under the existing brand.

New CEO for White Architects

After seven years as CEO, in January 2018 **Monica von Schmalensee** will be handing over the reins to **Alexandra Hagen**, whose most recent position was as office manager at White's Malmö office. Monica von Schmalensee will remain at the company in an advisory role, as well as have a number of her own assignments, for example, adviser ("Mayor's Design Advocate Group") in urban development issues for London's mayor, Sadiq Khan.

THE 30 LARGEST GROUPS IN SWEDEN

(THE FIGURES REPRESENT ACTIVITIES IN SWEDEN)



| | 2017 | 2016 | Group | Service | Annual report | Turnover MSEK | Turnover in Sweden MSEK | Employees | Employees in Sweden |
|-----|------|------|--|----------|---------------|---------------|-------------------------|-----------|---------------------|
| | 1 | 1 | ÅF (several acquisitions incl. Edy Toscana, Switzerland) * | MD | 16 | 11747.8 | 8899.8 | 8672 | 6581 |
| STD | 2 | 2 | SWECO AB (4 acquisitions in Belgium, Norway and Finland) * | MD | 16 | 16738.0 | 6929.0 | 14832 | 5397 |
| STD | 3 | 3 | WSP Sweden (acquired Provab) * | MD | 16 | 4156.4 | 4156.4 | 3789 | 3789 |
| STD | 4 | 15 | Sigma Group | MD | 16 | 2859.1 | 2306.2 | 2785 | 1973 |
| STD | 5 | 4 | Ramböll Sweden AB | MD | 16 | 1970.0 | 1970.0 | 1460 | 1460 |
| | 6 | 5 | Combitech AB (acquired Tikab) * | I | 16 | 1789.1 | 1758.2 | 1502 | 1502 |
| STD | 7 | 6 | Tyréns AB (acquired Hilson Moran) * | MD | 16 | 2075.7 | 1544.3 | 1785 | 1214 |
| | 8 | 7 | HIQ International AB | I | 16 | 1659.4 | 1356.2 | 1361 | 1065 |
| STD | 9 | 8 | Semcon AB | I | 16 | 1755.9 | 1338.5 | 1956 | 1251 |
| STD | 10 | 10 | COWI AB (acquired Projektbyrå Sthlm) * | MD | 16 | 1330.5 | 1330.5 | 1146 | 1146 |
| STD | 11 | 9 | Rejler group AB | E | 16 | 2341.4 | 1287.9 | 1939 | 1078 |
| STD | 12 | 12 | Projektagemang AB (acquired HJR Projektel & Konkret Rådgiv Ingenjörer) * | MD | 16 | 1137.7 | 1137.7 | 843 | 843 |
| | 13 | 11 | Alten Sweden | I | 16 | 994.6 | 994.6 | 1157 | 1157 |
| STD | 14 | 14 | White Architects | A | 16 | 892.2 | 775.0 | 682 | 608 |
| STD | 15 | 13 | Kiwa Inspecta | CT | 16 | 764.4 | 764.4 | 723 | 723 |
| | 16 | 16 | Structor group | CE | 16 | 680.3 | 680.3 | 433 | 433 |
| STD | 17 | 23 | Dekra Sweden (Industrial + Automotive) * | CT | 16 | 652.0 | 652.0 | 573 | 573 |
| STD | 18 | 17 | Tengbom group | A | 16 | 628.4 | 607.6 | 603 | 576 |
| | 19 | 19 | Altran Sverige AB | I | 16 | 530.6 | 530.6 | 503 | 503 |
| STD | 20 | 21 | Norconsult AB | CE | 16 | 529.9 | 529.9 | 531 | 531 |
| STD | 21 | 18 | Pöyry Sweden AB | MD | 16 | 525.1 | 525.1 | 478 | 478 |
| STD | 22 | 22 | Bengt Dahlgren AB | M | 16 | 496.5 | 496.5 | 414 | 414 |
| STD | 23 | 20 | Knightec AB | I | 16/17 | 485.8 | 485.8 | 503 | 503 |
| STD | 24 | 25 | Björking AB | CE | 16 | 440.8 | 440.8 | 332 | 332 |
| STD | 25 | 24 | Etteplan Sweden AB (acquired Sonora Innovation) * | I | 16 | 420.2 | 420.2 | 419 | 419 |
| STD | 26 | 27 | Ansaldo STS Sweden AB | I | 16 | 383.8 | 383.8 | 56 | 56 |
| STD | 27 | 26 | Hifab Group AB | PM, | 16 | 474.9 | 342.0 | 320 | 245 |
| STD | 28 | 28 | ELU Konsult AB | CE | 16/17 | 338.2 | 338.1 | 180 | 180 |
| | 29 | 51 | Veolia Water Technologies AB | Env | 16 | 549.3 | 309.0 | 138 | 138 |
| STD | 30 | 29 | IVL, Svenska Miljöinstitutet | Env, Enr | 16 | 294.7 | 294.7 | 255 | 255 |

STD = Member of the Swedish Federation of Consulting Engineers and Architects. (*) = lack of conforming figure/proforma/assumed – = missing figure
 PM = Project Management, A = Architecture, CE = Civil/Structural Engineering, CT = Certification and testing, Env = Environment, Enr = Energy, E = Electrical,
 M = Mechanical/HEVAC, I = Industrial, MD = Multi Disciplinary

EXPLANATORY TEXT ON THE TABLES RELATING TO THE 30 LARGEST GROUPS IN SWEDEN AND THE 300 LARGEST SWEDISH GROUPS

The list of the 300 largest Swedish groups presents entire Swedish corporate groups, i.e. it also includes their international operations with subsidiaries abroad. In the case of the foreign companies, only their Swedish operations are presented.

The list of the 30 largest groups in Sweden presents only Swedish operations, even in the case of the larger Swedish groups. In other words, international operations in foreign subsidiaries are not included. The list shows which groups have the largest operations in Sweden.

In the case of foreign-owned companies, the same figures are in other words reported in both tables. We have included only the 30 largest groups in this list since most of the remaining groups only operate in Sweden or have marginal activities abroad.

THE TOP 300 SWEDISH CONSULTING ENGINEERING AND ARCHITECTURAL GROUPS

(GLOBAL FIGURES ARE PRESENTED FOR SWEDISH GROUPS)

| | 2017 | 2016 | Group | Service | Annual report | Turn-over MSEK | (Previous year) | Average number of employees | Result after financial items MSEK | Added value/ empl. kSEK | Total balance sheet MSEK | CEO/Managing director |
|-----|------|------|---|-----------|---------------|----------------|-----------------|-----------------------------|-----------------------------------|-------------------------|--------------------------|--|
| STD | 1 | 1 | SWECO AB (4 acquisitions in Belgium, Norway and Finland) * | MD | 16 | 16738.0 | 16145.0 | 14832 | 1231.3 | 845 | 13843.5 | Tomas Carlsson (Group) Åsa Bergman (Sweden) |
| | 2 | 2 | ÅF (several acquisitions incl. Edy Toscana, Switzerland) * | I,E,M,Enr | 16 | 11747.8 | 10884.0 | 8672 | 946.9 | 875 | 10487.0 | Jonas Gustavsson |
| STD | 3 | 3 | WSP Sweden (acquired Provab) * | MD | 16 | 4156.4 | 3293.5 | 3789 | 266.8 | 731 | 2754.7 | Magnus Meyer |
| STD | 4 | 15 | Sigma Group | MD | 16 | 2859.1 | 684.0 | 2785 | 165.0 | 705 | 1464.3 | Dan Olofsson |
| STD | 5 | 5 | Rejler group | E | 16 | 2341.4 | 1875.5 | 1939 | 22.2 | 755 | 1360.4 | Peter Rejler (group), Jonas Thimberg (Sweden) |
| STD | 6 | 7 | Tyréns AB (acquired Hilson Moran) * | MD | 16 | 2075.7 | 1635.3 | 1785 | 107.9 | 853 | 1005.2 | Johan Dozzi |
| STD | 7 | 6 | Ramböll Sweden AB | MD | 16 | 1970.0 | 1820.7 | 1460 | 134.4 | 900 | 600.0 | Niklas Sörensen |
| | 8 | 8 | Combitech AB (acquiredTikab) * | I | 16 | 1789.1 | 1602.2 | 1502 | 128.5 | 809 | 765.6 | Hans Torin |
| STD | 9 | 4 | Semcon AB | I | 16 | 1755.9 | 1656.6 | 1956 | 94.9 | 623 | 1189.4 | Markus Granlund |
| | 10 | 9 | HIQ International AB | I | 16 | 1659.4 | 1508.0 | 1361 | 207.4 | 938 | 1123.2 | Lars Stugemo |
| STD | 11 | 10 | COWI AB (acquired Projektbyrå Sthlm) * | MD | 16 | 1330.5 | 1034.0 | 1146 | 52.1 | 685 | 535.4 | Pär Hammarberg |
| STD | 12 | 12 | Projektengagemang AB (acquired HJR Projektel & Konkret Rådgiv Ingenjörer) * | MD | 16 | 1137.7 | 683.7 | 843 | 72.7 | 832 | 825.0 | Per Hedeback |
| | 13 | 11 | Alten Sweden | I | 16 | 994.6 | 894.1 | 1157 | 70.2 | 692 | 483.4 | Martin Segerström |
| STD | 14 | 13 | White Architects | A | 16 | 892.2 | 824.3 | 682 | 60.3 | 875 | 371.3 | Monica von Schmalensee |
| STD | 15 | 14 | Kiwa Inspecta | CT | 16 | 764.4 | 797.0 | 723 | -1.0 | 743 | 289.0 | Joakim Wikeby |
| | 16 | 16 | Structor group | CE | 16 | 680.3 | 563.7 | 433 | 97.8 | 1124 | 296.2 | Fladvad, Hulthén, Texte |
| STD | 17 | 17 | Dekra Sweden (Industrial + Automotive) * | CT | 16 | 652.0 | 544.5 | 573 | 37.4 | 813 | 1000.0 | Stefan Törnngren (Industrial) & Jan Martinsson (Automotive) |
| STD | 18 | 18 | Tengbom group | A | 16 | 628.4 | 527.2 | 603 | 43.9 | 779 | 260.6 | Johanna Frelin |
| | 19 | 25 | Veolia Water Technologies AB | Env | 16 | 549.3 | 403.5 | 138 | -22.0 | 897 | 386.9 | Fabrice Brochet |
| | 20 | 20 | Altran Sweden | I | 16 | 530.6 | 484.9 | 503 | 29.1 | 681 | 340.6 | Fredrik Nyberg |
| STD | 21 | 22 | Norconsult AB | CE | 16 | 529.9 | 446.6 | 531 | 21.5 | 630 | 205.5 | Ljot Strömseng |
| STD | 22 | 19 | Pöyry Sweden AB | MD | 16 | 525.1 | 488.2 | 478 | -1.3 | 720 | 149.4 | Johnny Strid |
| STD | 23 | 24 | Bengt Dahlgren AB | M | 16 | 496.5 | 428.5 | 414 | 47.4 | 909 | 207.2 | no CEO |
| STD | 24 | 21 | Knightec AB | I | 16/17 | 485.8 | 457.9 | 503 | 41.6 | 768 | 134.2 | Dimitris Gioulekas |
| STD | 25 | 23 | Hifab Group AB | PM, | 16 | 474.9 | 444.3 | 320 | 7.6 | 690 | 190.0 | Patrik Schelin |
| STD | 26 | 27 | Bjerking AB | CE | 16 | 440.8 | 353.1 | 332 | 35.9 | 966 | 215.4 | Anders Wärefors |
| STD | 27 | 26 | Etteplan Sweden AB (acquired Sonora Innovation) * | I | 16 | 420.2 | 395.6 | 419 | 18.9 | 744 | 138.5 | Mikael Vatn |
| STD | 28 | 28 | Ansaldo STS Sweden AB | I | 16 | 383.8 | 314.1 | 56 | 32.4 | 1584 | 425.1 | Eric Morand |
| STD | 29 | 63 | Niras Sweden AB (acquired Aperto Arkitekter & Byggkonsulter) * | PM | 16 | 343.5 | 120.0 | 163 | 8.9 | 824 | 137.2 | Christian Sandberg |
| STD | 30 | 30 | ELU Konsult AB | CE | 16/17 | 338.2 | 275.5 | 180 | 31.7 | 1108 | 114.8 | Charlotte Bergman |
| STD | 31 | 29 | Avalon Innovation AB | I | 16 | 311.5 | 310.6 | 240 | 4.6 | 752 | 173.2 | Peter Mattisson |
| STD | 32 | 31 | IVL, Svenska Miljöinstitutet | Env, Enr | 16 | 294.7 | 274.2 | 255 | 0.3 | 686 | 205.6 | Tord Svedberg |
| STD | 33 | 33 | Atkins Sweden (SNC-Lavallin) | CE | 16/17 | 264.6 | 240.6 | 207 | 10.7 | 815 | 84.0 | Johannes Erlandsson |
| | 34 | 32 | Forsen Projekt Partner | PM | 16 | 256.9 | 256.7 | 170 | 21.1 | 1104 | 157.0 | Bengt Johansson |
| STD | 35 | 38 | Consat AB | I | 16 | 235.1 | 216.0 | 188 | 9.0 | 788 | 107.9 | Martin Wahlgren |
| | 36 | 37 | Z-Dynamics (Infotiv & Combine) | I | 16 | 224.4 | 220.7 | 248 | 16.5 | 714 | 135.8 | Alf Berntsson (Infotiv), Peter Karlsson (Combine) |
| | 37 | 39 | Eurocon Consulting AB | I | 16 | 214.2 | 198.8 | 204 | 20.0 | 821 | 119.9 | Peter Johansson |
| | 38 | 40 | EBAB i Stockholm AB | PM | 16 | 213.9 | 189.5 | 119 | 55.0 | 1405 | 129.5 | Kaarel Lehist |
| STD | 39 | 41 | Golder Associates AB | CE | 16 | 206.6 | 183.9 | 120 | 8.3 | 906 | 112.9 | Anna-Lena Öberg Högsta |
| STD | 40 | 52 | Mälärholmen (Ettelva Arkitekter & M.E.R. Solution) | A | 16 | 187.3 | 143.0 | 84 | 86.9 | 1162 | 234.0 | Anders Lindh (Ettelva), Cecilia Bejden (M.E.R.), Jan Hardenborg |
| STD | 41 | 48 | Wingårdh-group | A | 16 | 178.6 | 158.8 | 141 | 12.9 | 1034 | 124.5 | Gert Wingårdh |
| | 42 | 69 | Essiq AB | I | 15/16 | 175.5 | 139.8 | 227 | 12.3 | 643 | 56.2 | Jonas Sohtell |
| | 43 | 35 | Elektroautomatik i Sverige AB | I | 16 | 173.7 | 230.7 | 93 | 2.7 | 732 | 75.5 | Jonas Kjellberg |
| STD | 44 | 34 | Force Technology Sweden | CT | 16 | 173.4 | 240.0 | 207 | -25.2 | 539 | 69.7 | Per Gelang |
| STD | 45 | 72 | Neste Jacobs AB | I | 16 | 169.8 | 111.7 | 134 | -3.5 | 618 | 93.7 | Marcus Andersson |
| | 46 | 42 | TechniaTranscat AB | I | 16 | 169.3 | 168.4 | 91 | 11.6 | 1127 | 59.8 | Jonas Gejer |
| STD | 47 | 57 | Integra Engineering AB | PM,CE | 16 | 167.5 | 133.0 | 148 | 25.8 | 907 | 61.7 | Anders Skoglund |
| STD | 48 | 56 | i3tex AB | I | 16 | 165.5 | 134.4 | 180 | 2.4 | 693 | 55.4 | Sara Lindmark |
| STD | 49 | 45 | FS Dynamics AB | I | 16/17 | 160.3 | 157.5 | 160 | 6.3 | 722 | 53.9 | Ulf Mårtensson |



| | 2017 | 2016 | Group | Service | Annual report | Turn-over MSEK | (Previous year) | Average number of employees | Result after financial items MSEK | Added value/ empl. kSEK | Total balance sheet MSEK | CEO/Managing director |
|-----|------|------|--|---------|---------------|----------------|-----------------|-----------------------------|-----------------------------------|-------------------------|--------------------------|--|
| STD | 50 | 61 | Midroc Project Management AB | CE,I | 16 | 159.2 | 126.3 | 110 | 12.4 | 995 | 97.3 | Stefan Kronman |
| STD | 51 | 53 | Semrén & Månsson Arkitektkontor AB | | A 16/17 | 159.1 | 142.8 | 156 | 11.1 | 711 | 209.1 | Magnus Månsson (group CEO), Anders Erlandsson (MD) |
| STD | 52 | 46 | Link Arkitektur AB | | A | 16 | 157.4 | 155.5 | 139 | 6.4 | 803 | 45.7 John Lydholm |
| STD | 53 | 47 | PQR International Group | | M,E 15/16 | 154.8 | 136.1 | 121 | 11.0 | 796 | 43.7 | Mikael Bisther |
| STD | 54 | 71 | Devport AB | | I | 16 | 154.0 | 112.0 | 135 | 7.0 | 812 | 64.9 Nils Malmros |
| STD | 55 | 51 | Arkitekterna Krook & Tjäder AB | | A | 16 | 153.3 | 143.9 | 137 | 16.9 | 803 | 56.5 Johan von Wachenfeldt |
| STD | 56 | 58 | Liljewall Arkitekter AB | | A | 16 | 151.4 | 129.6 | 136 | 16.2 | 860 | 49.7 Per-Henrik Johansson Lamond |
| | 57 | 44 | Optronic Partner PR AB | | I 16/17 | 146.7 | 158.3 | 50 | 6.2 | 764 | 84.3 | Ulrik Stenbacka |
| STD | 58 | 55 | Core Link AB | | I | 16 | 146.0 | 135.7 | 49 | 3.2 | 838 | 90.3 Jörgen Jensen |
| STD | 59 | 60 | We Consulting AB | | E | 16 | 145.0 | 128.7 | 122 | 4.8 | 763 | 41.3 Mats Rönnlund |
| STD | 60 | 43 | INCOORD AB | | M | 16 | 144.1 | 159.9 | 89 | 26.3 | 1194 | 55.9 Tore Strandgård |
| STD | 61 | 54 | FOJAB AB | | A 15/16 | 139.0 | 99.3 | 105 | 22.5 | 990 | 60.9 | Daniel Nord & Cecilia Pering (Fojab Arkitekter) |
| STD | 62 | 70 | NYRÉNS Arkitektkontor AB | | A | 16 | 138.3 | 112.6 | 100 | 5.5 | 873 | 74.5 Tomas Alsmarker |
| STD | 63 | 77 | HRM Engineering AB | | I | 16 | 136.4 | 100.9 | 128 | 12.3 | 714 | 46.5 Mats Rogbrandt |
| | 64 | 59 | Exact Svenska Mätcenter AB | | CE, Enr | 16 | 131.6 | 128.9 | 110 | 1.7 | 629 | 58.8 Peter Mikes |
| STD | 65 | 66 | Cactus Utilities & Rail * | | I | 16 | 130.7 | 115.4 | 68 | 10.9 | 1049 | 65.0 Fredrik Bergström & Elisabet Svensson |
| | 66 | 87 | Brandskyddslaget AB | | M | 16 | 127.9 | 95.2 | 69 | 27.9 | 1419 | 86.4 Martin Olander |
| STD | 67 | 86 | Teamster AB | | I | 16 | 126.9 | 92.9 | 46 | 30.2 | 1076 | 55.2 Ulf Mill |
| STD | 68 | 62 | FVB Sverige AB | | Enr | 16 | 125.6 | 122.0 | 111 | 9.7 | 875 | 63.7 Leif Breitholtz |
| STD | 69 | 74 | Escenda Engineering AB (acquired by Tata Technologies) | | I | 16 | 125.1 | 103.8 | 95 | 10.8 | 725 | 40.2 Nicholas Sale |
| STD | 70 | 109 | Segula Technologies AB | | I | 16 | 122.9 | 73.9 | 120 | 4.0 | 791 | 39.5 Henrik Nessér |
| STD | 71 | 68 | Geosigma AB | | CE | 16 | 118.6 | 114.7 | 80 | 7.5 | 845 | 37.3 Per Aspemar |
| STD | 72 | 82 | Byggnadstekniska Byrån Sverige AB | | CE | 16 | 118.0 | 96.4 | 100 | 19.2 | 891 | 46.9 Erik Löb |
| STD | 73 | 81 | AIX Arkitekter AB | | A 15/16 | 116.9 | 101.1 | 84 | 11.8 | 919 | 41.3 | Gunilla Persson |
| STD | 74 | 64 | Engineeringpartner Automotive Nordic AB | | I | 16 | 112.7 | 119.2 | 115 | 13.5 | 738 | 45.9 Fredrik Blomberg |
| STD | 75 | 76 | VBK Konsult | | CE | 16 | 112.0 | 100.6 | 94 | 8.5 | 643 | 43.8 Ulf Kjellberg |
| | 76 | 117 | T-Engineering AB | | I | 16 | 110.9 | 70.6 | 51 | 5.7 | 1009 | 38.9 Klas Lundgren |
| | 77 | 65 | QRTECH AB | | I | 16 | 109.4 | 118.4 | 77 | 7.6 | 894 | 44.6 Bengt Nordén |
| STD | 78 | 79 | Condesign AB | | I | 16 | 107.3 | 99.0 | 120 | 8.6 | 688 | 39.5 Liselotte Hektor |
| STD | 79 | 90 | Evomatic AB | | E 16/17 | 106.3 | 81.2 | 54 | 0.4 | 668 | 54.2 | Jonas Persson |
| STD | 80 | 75 | Riba koncernen AB | | M 15/16 | 103.8 | 93.3 | 48 | 6.5 | 964 | 38.8 | Michael Lennse |
| STD | 81 | 92 | Brunnberg & Forshed Arkitektkontor AB | | A | 16 | 103.7 | 84.5 | 70 | 15.8 | 1079 | 37.3 Staffan Corp |
| STD | 82 | 89 | ÅWL Arkitekter AB | | A | 16 | 101.8 | 85.6 | 79 | 16.6 | 929 | 52.8 Jacob Haas |
| STD | 83 | 140 | Automations Partner i Helsingborg AB | | I | 16 | 100.0 | 60.7 | 35 | -2.2 | 665 | 24.1 Anders Josefsson |
| STD | 84 | 93 | Arkitema AB | | A | 16 | 97.7 | 84.3 | 86 | 7.9 | 826 | 32.6 Urban Blomberg |
| STD | 85 | 73 | Elecosoft Consultec | | A,CE | 16 | 97.0 | 109.0 | 77 | 6.5 | 787 | 85.0 Anders Karlsson |
| STD | 86 | 115 | AcobiaFlux AB * | | I | 16 | 96.2 | 73.0 | 54 | 4.7 | 938 | 45.7 Mikael Nilsson |
| STD | 87 | 78 | Nitro Consult AB | | CE 15/16 | 95.9 | 99.3 | 69 | 1.5 | 937 | 160.9 | Mats Blacker |
| STD | 88 | 107 | Havd Group | | I | 16 | 95.1 | 74.6 | 31 | 4.9 | 624 | 35.3 Björn Hedenberg |
| STD | 89 | 116 | Ansys Sweden | | I | 16 | 94.0 | 70.8 | 23 | 3.5 | 1429 | 130.2 Richard Belcher |
| | 90 | 88 | Teodoliten * | | CE | 16 | 94.0 | 85.7 | 80 | 15.4 | 844 | 38.0 Joakim Hixén |
| | 91 | 85 | Aecom Nordic AB (Nordic region) | | Env 15/16 | 93.0 | 93.1 | 24 | -4.2 | 633 | 58.8 | Gert Vermeiren |
| | 92 | 108 | Technogarden Engineering | | I | 16 | 92.6 | 74.4 | 107 | 4.1 | 696 | 38.3 Stefan Lundin |
| STD | 93 | 102 | IKKAB (fmr Installation & Kraftkonsulterna) | | M, CE, Enr | 16 | 90.9 | 75.8 | 72 | 7.9 | 838 | 26.3 Stefan Svan |
| STD | 94 | 123 | Projektledarhuset i Stockholm AB | | PM 16/17 | 88.3 | 67.6 | 45 | 7.1 | 1208 | 34.4 | Örjan Kjellström |
| | 95 | 105 | TechRoi AB | | I | 16 | 87.3 | 75.5 | 68 | -11.6 | 566 | 35.9 Tommy Christensen |
| | 96 | 112 | Iterio AB (acquired by Multiconsult) | | CE | 16 | 87.2 | 72.1 | 59 | 6.6 | 995 | 23.6 Jonas Jonsson |
| STD | 97 | | E&D Energijägarna & Dorocell AB | | CE, Enr | 16 | 86.7 | | 16 | 7.6 | 1196 | 56.0 Jan Wikman |
| STD | 98 | 97 | Byrån för Arkitektur & Urbanism (BAU) | | A | 16 | 85.8 | 80.6 | 58 | 8.4 | 1030 | 56.4 Per-Eric Sundby |

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(GLOBAL FIGURES ARE PRESENTED FOR SWEDISH GROUPS)

| 2017 | 2016 | Group | Service | Annual report | Turn-over MSEK | Average number of employees (Previous year) | Result after financial items MSEK | Added value/ empl. kSEK | Total balance sheet MSEK | CEO/Managing director |
|------|------|--|-----------------|---------------|----------------|---|-----------------------------------|-------------------------|--------------------------|--|
| 99 | 80 | Veryday AB (fmr Ergonomidesign) | | I 15/16 | 85.3 | 97.5 | 57 | 7.5 | 1034 | Birgitta Sundén |
| STD | 100 | 106 Bergsäker AB | CE | 16 | 85.1 | 75.2 | 33 | 22.3 | 1578 | Johan Lundh |
| | 101 | 121 Prose AB | I/CE | 16 | 85.0 | 68.1 | 62 | 3.0 | 845 | Anders Gymnander |
| STD | 102 | 134 Helenius Ingenjörbyrå AB | M | 16 | 85.0 | 62.4 | 58 | 15.5 | 1048 | Arne Wallström |
| | 103 | 95 HOAB-group * | PM | 16 | 83.0 | 81.0 | 55 | | 145 | Per Olsson, Th. Liljenberg, P Svensson, R.Nordin et al |
| STD | 104 | 125 BSV Arkitekter & Ingenjörer AB | A | 16 | 82.0 | 66.4 | 61 | 19.4 | 1021 | Johnny Grauengaard |
| STD | 105 | 146 Archus | A | 16 | 81.4 | 54.2 | 55 | 17.6 | 1052 | Johnnie Pettersson |
| | 106 | 198 Fiber Network Consulting AB | I/CE | 16 | 81.3 | 38.6 | 38 | -1.4 | 605 | Thomas Andersson |
| STD | 107 | 103 Reflex Arkitekter AB | A | 16/17 | 81.0 | 75.7 | 54 | 11.4 | 1218 | Marco Testa |
| STD | 108 | 96 Conmore Ingenjörbyrå AB | I | 16 | 78.9 | 80.7 | 114 | 5.8 | 613 | Joakim Olsson |
| STD | 109 | 100 Cedervall Arkitekter | A | 16 | 78.8 | 76.8 | 79 | 0.5 | 580 | Björn Stillefors |
| STD | 110 | 118 BERGAB Berggeologiska Undersökningar AB | CE | 16 | 78.7 | 70.0 | 60 | 8.1 | 987 | Krister Jansson |
| STD | 111 | 113 Crabat AB | CE | 16/17 | 78.6 | 72.0 | 31 | 3.6 | 1046 | Gustav Glader |
| | 112 | 130 IETV Elektroteknik AB | I | 16/17 | 76.1 | 63.7 | 31 | 14.1 | 1138 | Krister Karlsson |
| | 113 | 124 Devex Mekatronik AB | I | 16 | 76.1 | 66.4 | 87 | 5.3 | 693 | Eric Boström |
| STD | 114 | 104 ELE Engineering AB | E | 15/16 | 75.7 | 81.1 | 82 | 0.5 | 762 | Henrik Eriksson |
| | 115 | 171 Strategisk Arkitektur Fries & Ekeröth AB | A | 16 | 72.1 | 44.5 | 40 | 12.2 | 1123 | Maria Börtemark |
| | 116 | 131 Exengo Installationskonsult AB | M | 16 | 71.6 | 62.8 | 53 | 11.1 | 1120 | Christian Rolf |
| | 117 | 120 App Start-Up AB | I | 16/17 | 71.6 | 69.6 | 53 | 7.3 | 945 | Anders Kallin |
| STD | 118 | 137 Kadesjös Ingenjörbyrå AB | CE | 16/17 | 71.2 | 61.3 | 56 | 5.9 | 882 | Birgitta Lindblad |
| | 119 | 111 Assign Group | I | 16 | 70.0 | 72.5 | 24 | 3.1 | 862 | Stefan Svensson |
| | 120 | 142 Chematur Engineering AB | I | 16 | 69.8 | 60.2 | 33 | -3.9 | 1069 | Peter Olausson |
| STD | 121 | 99 BSK Arkitekter AB | A | 16 | 69.7 | 78.9 | 53 | 4.5 | 920 | Stina Ljungkvist |
| STD | 122 | 159 Equator Stockholm AB | A | 16 | 69.4 | 46.7 | 45 | 10.2 | 999 | Annica Carlsson |
| STD | 123 | 135 TM-Konsult AB | CE, I | 15/16 | 68.8 | 62.3 | 72 | 10.7 | 761 | Anders Franklin |
| STD | 124 | Bro Underhåll & Service BUS AB | CE | 15/16 | 68.8 | 45.52 | 27 | 14.6 | 1140 | Kent-Arne Svensson |
| | 125 | 132 Tjuren Projektpartner AB | PM, M | 16 | 67.9 | 62.7 | 32 | 18.0 | 1434 | Niklas Haglund |
| STD | 126 | 136 Altair Engineering | I | 16 | 67.5 | 62.0 | 33 | -1.3 | 1013 | Håkan Ekman |
| STD | 127 | 141 Adiga AB | I | 15/16 | 67.2 | 60.5 | 32 | 3.3 | 774 | Ricardo Heras |
| STD | 128 | 143 Inhouse Tech * | PM, CE, Env | 16 | 66.7 | 60.0 | 45 | 10.2 | 965 | Anders Sundberg |
| | 129 | Codesign Sweden AB | A | | 66.3 | 50.5 | 41 | 3.5 | 602 | Ulrica O Magnusson |
| STD | 130 | 154 A & P Arkitektkontor AB | A | 16 | 66.0 | 49.5 | 32 | 7.7 | 1030 | Per Ahrbom |
| STD | 131 | 166 Centerlöv & Holmberg AB | CE | 16 | 65.3 | 45.0 | 45 | 18.5 | 1147 | Bengt Andersson |
| | 132 | 156 Svensk Konstruktionstjänst AB | I | 16 | 64.9 | 47.9 | 34 | 4.4 | 870 | Johan Lantz |
| | 133 | 133 Wester+Elsner Arkitekter AB | A | 16 | 64.7 | 62.7 | 42 | 9.0 | 1091 | Fredrik Elsner |
| | 134 | 129 Brandkonsulten Kjell Fallqvist AB | M | 16 | 64.6 | 63.9 | 38 | 16.6 | 1391 | Anders Karlsson |
| | 135 | 265 Camatec Industriteknik AB | I | 16/17 | 64.5 | 27.4 | 32 | 4.8 | 811 | Johan Ljungner |
| STD | 136 | 175 Citec AB | I | 16 | 64.0 | 43.0 | 46 | -0.5 | 654 | Kenneth Lovidius |
| STD | 137 | 145 Andersson & Hultmark AB | M | 16 | 61.7 | 55.1 | 53 | 14.5 | 1021 | Tobias Bodén |
| | 138 | 153 StomKon * | CE | 16 | 60.8 | 49.9 | 60 | 10.3 | 827 | Terje Klovland |
| STD | 139 | 101 Tüv Nord Sweden AB | I | 16 | 60.6 | 76.8 | 30 | 2.9 | 1317 | Anders Egerbo |
| | 140 | 149 Erfator Projektleddning AB | PM, CE | 16 | 60.2 | 53.1 | 18 | 3.1 | 1597 | Sven Klockare |
| | 141 | 147 Triathlon AB | I | 15/16 | 59.8 | 54.0 | 55 | 3.7 | 587 | Fredrik Wadsten |
| STD | 142 | 110 IKG Group AB | I | 16/17 | 59.8 | 64.8 | 83 | 0.3 | 657 | Magnus Ahlmark |
| STD | 143 | 152 Vicura AB | I | 16 | 59.6 | 50.0 | 41 | -2.2 | 822 | Magnus Lundblad |
| STD | 144 | 155 Frank Projektpartner AB | PM, CE | 16 | 59.3 | 48.6 | 31 | 5.4 | 1058 | Magnus Trange |
| | 145 | 150 Pq Projektleddning AB | PM | 16/17 | 59.1 | 52.5 | 35 | 11.5 | 1360 | Jonas Karlsson |
| STD | 146 | 139 Cross Design AB | I | 16 | 59.0 | 61.1 | 69 | 4.1 | 585 | Tommy Bergh |
| STD | 147 | 138 Envac AB | Env | 16 | 58.6 | 61.2 | 13 | 23.1 | 3074 | Joakim Karlsson |
| | 148 | 160 Clinton Mätkonsult AB | CE | 15/16 | 58.1 | 46.6 | 35 | 1.4 | 714 | Johan Nyström |
| STD | 149 | 144 TQI koncernen | M, PM, Env, Enr | 15/16 | 58.1 | 57.0 | 42 | 13.2 | 956 | Kenneth Thunvall |



| 2017 | 2016 | Group | Service | Annual report | Turn-over MSEK | (Previous year) | Average number of employees | Result after financial items MSEK | Added value/ empl. kSEK | Total balance sheet MSEK | CEO/Managing director |
|---------|------|--|---------------------|---------------|----------------|-----------------|-----------------------------|-----------------------------------|-------------------------|--------------------------|---|
| STD 150 | 114 | NCS Colour AB | I | 16 | 57.4 | 67.6 | 26 | -4.4 | 927 | 47.1 | Elin Askfelt |
| STD 151 | 181 | VAP VA-Projekt AB | Env | 15/16 | 55.7 | 41.6 | 35 | 10.8 | 980 | 24.1 | Mikael Melin |
| | 152 | Trivector Traffic AB | I,CE | 16 | 55.7 | 51.58 | 43 | 3.3 | 850 | 26.9 | Christer Ljungberg |
| STD 153 | | Systra AB (fmr Dalco Elteknik) | CE | 16 | 55.1 | 66.5 | 54 | 1.5 | 619 | 24.3 | Kent Westh |
| STD 154 | 168 | Electro Engineering koncernen AB | E | 16/17 | 54.2 | 44.8 | 35 | 16.1 | 1336 | 24.9 | Bo Andersson |
| | 155 | Helm (Project Management & Systems) * | PM,CE | 16 | 53.9 | 66.1 | 26 | 2.1 | 825 | 32.6 | Michael Johansson, Michael Claesson, Olof Cyrén |
| STD 156 | | Fire Safety Design AB | M | 16 | 53.8 | 45.0 | 44 | 4.8 | 898 | 21.0 | Alf Johansson |
| STD 157 | 98 | Elajo Engineering AB | I | 16 | 53.4 | 79.1 | 69 | 1.4 | 658 | 11.3 | Mattias Åberg |
| STD 158 | 119 | EDAG Engineering | I | 16 | 53.4 | 69.6 | 74 | -4.7 | 567 | 27.8 | Gerd Blaschke |
| STD 159 | 167 | Yellon AB | A | 16 | 53.3 | 44.9 | 46 | 0.6 | 733 | 22.9 | Markus Leijonberg |
| | 160 | ELVA Processautomation AB | M | 15/16 | 53.3 | 46.9 | 12 | 5.2 | 1687 | 26.5 | Mats Andersson |
| STD 161 | 172 | BBH Arkitektur & Teknik AB | A,CE | 16 | 52.9 | 43.9 | 30 | 1.3 | 724 | 18.3 | Ulf Cigén |
| STD 162 | 178 | Deva Mecaneyes AB | I | 16 | 52.0 | 42.4 | 48 | 4.6 | 754 | 23.2 | Magnus Welén |
| STD 163 | 201 | High Vision Engineering Sweden AB | I | 16 | 50.9 | 38.1 | 29 | 3.1 | 900 | 20.5 | Peter Weston |
| STD 164 | 207 | Projektgaranti AB | PM | 15/16 | 50.5 | 36.3 | 32 | 0.1 | 790 | 14.7 | Kajsa Hessel |
| STD 165 | 194 | MAF Arkitektkontor AB | A | 15/16 | 50.4 | 39.1 | 35 | 0.0 | 856 | 18.5 | Peter Häggmark |
| STD 166 | 161 | P O Andersson Konstruktionsbyrå AB | M | 16 | 50.3 | 51.0 | 19 | 21.4 | 2140 | 23.2 | Mattias Kinhult |
| STD 167 | 205 | Rotpartner * | CE | 16/17 | 50.3 | 37.8 | 45 | 2.5 | 720 | 10.2 | Fredrik Olsson |
| | 168 | Orbicon AB | Env,CE | 16 | 49.8 | 31.5 | 42 | 1.1 | 647 | 17.1 | Åsa Malmäng Pohl |
| STD 169 | 173 | Carlstedt Arkitekter AB | A | 16 | 49.7 | 43.6 | 49 | 5.1 | 742 | 32.6 | Kerstin Eken |
| STD 170 | 190 | Kåver & Mellin AB | CE | 16 | 49.6 | 40.0 | 39 | 7.4 | 983 | 22.0 | Anders Hedberg |
| | 171 | Deltatec AB | I | 16 | 49.6 | 53.0 | 14 | 8.6 | 1446 | 19.7 | Patrik Storm |
| | 172 | Jan Håkansson Byggplanering AB | CE,PM | 16 | 48.7 | 46.8 | 20 | 6.6 | 1386 | 30.4 | Anders Håkansson |
| STD 173 | 170 | SYD ARK Konstruera AB | A,CE | 16/17 | 48.7 | 44.4 | 46 | 3.0 | 833 | 17.8 | Lau Borch |
| | 174 | Calambio Engineering AB | I | 15/16 | 48.3 | 33.5 | 11 | 7.2 | 1601 | 22.5 | Thomas Reidenfalk |
| | 175 | Bylero AB | CE,PM | 16/17 | 48.1 | 45.7 | 39 | 3.7 | 873 | 27.2 | Torbjörn Frilund |
| STD 176 | 209 | Scheiwiller Svensson Arkitektkontor AB | A | 16/17 | 47.5 | 36.0 | 29 | 7.8 | 1124 | 19.9 | Ari Leinonen |
| STD 177 | 199 | C.F. Möller Sverige AB | A | 16 | 47.5 | 38.3 | 40 | 4.6 | 816 | 18.5 | Mårten Leringe |
| | 178 | Myvi Konsult AB | CE | 15/16 | 46.9 | 35.6 | 48 | 6.9 | 845 | 21.0 | Tommy Johansson |
| | 179 | MCA, Mission Consultancy Assistance Sweden AB | I | 16 | 46.8 | 21.0 | 54 | 2.2 | 641 | 20.2 | Pierre Ebenstein |
| STD 180 | 182 | Järnvägen AB (Bergström, BEKAB, Indautomat et al)* | I | 16/17 | 46.8 | 41.6 | 34 | 2.5 | 802 | 20.0 | Tord Hägglund (chairman) |
| | 181 | Addiva AB | I | 15/16 | 46.3 | 46.4 | 63 | -1.0 | 654 | 15.5 | Björn Lindström |
| | 182 | Solvina AB * | I | 15/16 | 44.7 | 47.0 | 29 | 3.9 | 879 | 34.0 | Amer Omanovic |
| | 183 | Licab AB | CE | 15/16 | 44.7 | 40.1 | 33 | 4.2 | 924 | 19.9 | Andreas Andersson |
| | 184 | LMT Elteknik AB | I,E | 15/16 | 44.0 | 42.7 | 36 | 5.6 | 919 | 17.4 | Anders Engqvist |
| STD 185 | 174 | Mats Strömberg Ingenjörbyrå AB | E | 16 | 43.8 | 43.3 | 31 | 4.4 | 1015 | 19.1 | Peter Granberg |
| | 186 | Validus Engineering | I | 16 | 43.7 | 41.2 | 26 | 9.8 | 1045 | 23.4 | Åke Burman |
| STD 187 | 196 | DHI Sverige AB | Env, M | 16 | 43.6 | 39.0 | 28 | 1.8 | 908 | 22.1 | Patrik Alm |
| | 188 | DAP Stockholm | A | 16 | 43.4 | 32.3 | 12 | -2.6 | 558 | 12.2 | Anna Wrangel Möller |
| STD 189 | 284 | Calluna AB | Env | 16 | 43.1 | 25.2 | 50 | 1.4 | 572 | 15.7 | Håkan Ignell |
| STD 190 | 185 | Sören Lundgren Byggkonsult AB | CE, PM | 16/17 | 42.8 | 41.3 | 28 | 3.9 | 1144 | 15.5 | Anders Harlin |
| STD 191 | 202 | BK Beräkningskonsulter AB | CE,I | 15/16 | 42.6 | 38.1 | 32 | 4.3 | 979 | 17.8 | Tomas Carlsång |
| STD 192 | 191 | Wikström AB | PM, CT, ENV, Enr, M | 16/17 | 42.1 | 40.0 | 35 | 4.3 | 961 | 19.6 | Annika Aarhuth |
| STD 193 | 163 | Besiktningsföretaget Ansvarsbesiktning AB | CE | 16/17 | 41.8 | 46.0 | 22 | 1.8 | 871 | 10.8 | John Widmark |
| | 194 | SweRoad AB | CE | 16 | 41.4 | 64.4 | 15 | 1.3 | 843 | 43.8 | Jonas Hermansson |
| STD 195 | 195 | KLT Konsult AB | I | 16 | 41.4 | 39.6 | 39 | 3.7 | 918 | 16.0 | Jonas Kroll |
| | 196 | Infrakonsult Sverige AB | CE | 15/16 | 41.0 | 31.4 | 14 | 4.8 | 1249 | 11.5 | Joacim Jansson |
| STD 197 | 91 | Projektbyggaren i Blekinge AB | PM,A | 16 | 40.9 | 84.7 | 26 | 5.4 | 1132 | 19.3 | Håkan Svensson |
| STD 198 | | Smart Eye AB | I | 16 | 40.7 | 37.57 | 42 | -12.4 | 758 | 139.5 | Martin Krantz |

STD = Member of the Swedish Federation of Consulting Engineers and Architects. (*) = lack of conforming figure/proforma/assumed – = missing figure
 PM = Project Management, A = Architecture, CE = Civil/Structural Engineering, CT = Certification and testing, Env = Environment, Enr = Energy, E = Electrical, M = Mechanical/HEVAC, I = Industrial, MD = Multi Disciplinary

THE TOP 300 SWEDISH CONSULTING ENGINEERING AND ARCHITECTURAL GROUPS

(GLOBAL FIGURES ARE PRESENTED FOR SWEDISH GROUPS)

| 2017 | 2016 | Group | Service | Annual report | Turn-over MSEK | (Previous year) | Average number of employees | Result after financial items MSEK | Added value/ empl. kSEK | Total balance sheet MSEK | CEO/Managing director |
|---------|------|--|------------|---------------|----------------|-----------------|-----------------------------|-----------------------------------|-------------------------|--------------------------|-------------------------------|
| STD 199 | 239 | Lindberg Stenberg Arkitekter AB | A | 16 | 40.6 | 30.1 | 32 | 9.1 | 1000 | 17.1 | Dag Lindberg |
| STD 200 | 225 | SCIOR Geomanagement AB | CE | 16 | 40.5 | 33.0 | 29 | 2.5 | 946 | 32.2 | Fredrik Landqvist |
| | 201 | 197 KFS Anläggningskonstruktörer AB | CE,PM | 15/16 | 40.3 | 38.6 | 30 | 5.5 | 1082 | 25.8 | Patrik Pålsson |
| STD 202 | 227 | STIBA AB | CE | 16 | 40.2 | 32.3 | 26 | 11.7 | 1339 | 20.0 | Joakim Österlund |
| | 203 | 217 HillStatik AB | K | 16 | 40.2 | 33.8 | 19 | 17.8 | 1695 | 26.7 | Conny Höggren |
| STD 204 | 193 | SEVAB (Styr- och Elinstallationer Väst Teknik) | I | 15/16 | 39.7 | 39.8 | 27 | 5.3 | 889 | 25.2 | Thomas Åberg |
| | 205 | 208 Creanova AB | M, Enr | 15/16 | 39.7 | 36.2 | 29 | 7.1 | 1031 | 15.5 | Jonas Dorsander |
| | 206 | 237 Kjellander & Sjöberg AB | A | 15/16 | 39.5 | 31.0 | 41 | 2.8 | 651 | 10.5 | Mi Inkinen |
| | 207 | 179 Konsultgruppen Röda Tråden AB * | CE | 15/16 | 39.1 | 42.2 | 28 | 0.1 | 1355 | 9.4 | Lars-Olof Gyllberg |
| | 208 | 188 C&M Projekt i Stockholm AB | CE | 16 | 39.1 | 40.2 | 23 | 4.7 | 1170 | 14.7 | Krusbeth Kristensson |
| STD 209 | 325 | Fagerström Industri Konsult AB | PM, Enr, I | 16/17 | 39.0 | 20.0 | 22 | 2.3 | 726 | 10.9 | Per Fagerström |
| STD 210 | 184 | Arkitekthuset Monarken AB | A | 16/17 | 39.0 | 41.3 | 42 | 5.4 | 731 | 31.8 | Per Sandkvist |
| STD 211 | 94 | One Nordic Konsult AB | I | 16 | 38.9 | 83.1 | 27 | -11.3 | 749 | 9.7 | Magnus Hasselgren |
| STD 212 | 187 | Energi & Miljöteknik i Göteborg AB | E,M | 15/16 | 38.9 | 40.3 | 15 | 2.8 | 733 | 9.6 | Ola Nygren |
| STD 213 | 214 | Landskapslaget AB | A | 16 | 38.7 | 34.7 | 27 | 4.1 | 998 | 14.0 | Åsa Keane |
| STD 214 | | Enviroplanning AB | Env | 16 | 38.5 | 41.5 | 17 | 0.3 | 757 | 13.7 | Tony Johansson |
| STD 215 | 228 | Arkitektgruppen G.K.A.K AB | A | 16 | 38.2 | 35.3 | 27 | 2.1 | 841 | 13.9 | Bo Johansson |
| STD 216 | 219 | MoRe Research Örnsköldsvik AB | I | 16 | 37.9 | 33.6 | 47 | -0.9 | 553 | 23.1 | Stefan Svensson |
| | 217 | Syntronic Production Services AB | I | 16/17 | 37.8 | 38.7 | 29 | 0.4 | 524 | 49.0 | Roger Lindholm |
| | 218 | 274 Kanozi Arkitekter AB | A | 15/16 | 37.7 | 26.3 | 31 | 6.3 | 771 | 13.9 | Johan Norén |
| | 219 | 306 Geoteam Nord AB | CE | 15/16 | 37.6 | 22.6 | 16 | 0.2 | 725 | 10.0 | Joachim Östergårds |
| STD 220 | 261 | mCUB AB | I | 15/16 | 37.6 | 27.7 | 30 | 2.9 | 700 | 10.7 | Marcus Blomberg |
| STD 221 | 235 | DGE Mark och Miljö AB | Env | 16 | 37.5 | 31.1 | 34 | 0.3 | 657 | 13.8 | Johnny Sjögren |
| | 222 | Projektlots i Sverige AB | PM | 16/17 | 37.4 | 40.7 | 1 | 0.1 | 780 | 10.4 | Astrid Evang |
| STD 223 | 264 | Energi Funktion Komfort, Skandinaviska AB | I,Enr,PM | 16 | 37.1 | 27.4 | 33 | 3.8 | 746 | 13.1 | Mikael Lezdins |
| | 224 | 255 Dinell Johansson AB | A | 16 | 36.9 | 28.2 | 25 | 15.2 | 1222 | 32.0 | Morten Johansson |
| STD 225 | 244 | Okidoki AB | A | 16 | 36.9 | 29.6 | 39 | 3.2 | 709 | 13.1 | Maja Ivarsson |
| STD 226 | 200 | Thomas Eriksson Arkitektkontor AB | A | 16 | 36.6 | 38.3 | 27 | 6.8 | 989 | 13.9 | Thomas Eriksson |
| STD 227 | | A-Way Consulting | I | 16 | 36.6 | 28.4 | 27 | 1.78 | 927 | 14.3 | Kent-Åke Johansson |
| STD 228 | 312 | Alessandro Ripellino Arkitekter | A | 16 | 36.5 | 22.2 | 25 | 9.2 | 1166 | 18.3 | Alessandro Ripellino |
| STD 229 | 246 | TEAM TSP Konsult AB | E | 16 | 36.0 | 29.4 | 22 | 6.3 | 1414 | 16.3 | Mattias Hernegran |
| STD 230 | 213 | Rockstore Engineering AB | CE | 16 | 35.5 | 34.8 | 15 | 5.8 | 1487 | 17.2 | Kristen Knutsson |
| | 231 | 303 Conpal AB | CE | 16 | 35.1 | 23.1 | 0 | 1.6 | 15600 | 15.6 | Per Hansback |
| STD 232 | 210 | Ca Consultadministration AB | PM | 16 | 35.0 | 36.0 | 32 | 1.4 | 918 | 17.5 | Daniel Däverhög |
| | 233 | 236 Hedström & Taube Projektleddning AB | PM | 16 | 34.9 | 31.0 | 21 | 7.1 | 1307 | 13.9 | Jonas Rondin |
| | 234 | 326 Provinn AB | I,CT | 16/17 | 34.8 | 24.6 | 16 | 4.2 | 1078 | 12.1 | Per-Olof Bergström |
| STD 235 | 229 | Landskapsgruppen AB | CE | 16/17 | 34.7 | 31.8 | 30 | 4.0 | 881 | 15.0 | Ulf Rehnström, Tomas Hagström |
| | 236 | 203 Infrapartner AB | CE | 16 | 34.6 | 38.0 | 14 | 3.7 | 1424 | 11.2 | Marcus Sundberg |
| | 237 | 211 B & B, Bro & Betong Projektleddning | CE,PM | 15/16 | 34.6 | 35.7 | 20 | 6.9 | 1187 | 15.2 | Magnus Tengblad |
| STD 238 | 243 | Projectpartner AB | PM | 16 | 34.5 | 29.6 | 18 | 4.0 | 1109 | 18.0 | Tommy Backman |
| STD 239 | 186 | Erséus Arkitekter AB | A | 16 | 34.4 | 40.6 | 29 | 1.5 | 885 | 14.5 | Peter Erséus |
| STD 240 | 258 | Knut Jönson Ingenjörbyrå AB (group) | CE | 16/17 | 34.2 | 28.0 | 23 | 8.7 | 1139 | 60.0 | Per Arne Näsström |
| STD 241 | 183 | Koteko AB | I | 16 | 34.1 | 41.6 | 30 | 0.0 | 768 | 21.6 | Markus Hällström |
| | 242 | 234 PB-Teknik AB | M | 16/17 | 33.9 | 30.8 | 28 | 4.3 | 848 | 18.8 | Patrik Bergström |
| | 243 | 218 Berge Engineering | I | 15 | 33.6 | 23.7 | 40 | 0.2 | 548 | 10.9 | Thomas Winberg |
| STD 244 | 221 | EKM kontroll AB | M | 15/16 | 33.4 | 33.2 | 23 | 0.8 | 630 | 10.8 | Johan Kjellman |
| STD 245 | 272 | EPG Projektleddning AB | PM | 16 | 33.3 | 26.5 | 28 | 3.6 | 849 | 13.2 | Dennis Lundmark |
| | 246 | Aerodynamics Research Center STARCS AB | I | 15/16 | 33.3 | 13.8 | 3 | -0.8 | 1123 | 16.9 | Rune Thyselius |
| STD 247 | 279 | Svenska Teknikingenjörer AB | I | 15/16 | 33.1 | 25.8 | 28 | 5.6 | 835 | 10.9 | Hans Aderum |
| | 248 | 254 Protek Projektstyrning i Göteborg | PM,CE | 16 | 33.1 | 28.2 | 18 | 2.9 | 1038 | 9.6 | Pär Eriksson |
| STD 249 | 248 | HMXW Arkitekter AB | A | 16 | 33.0 | 29.3 | 22 | 7.1 | 1050 | 16.7 | Ragnar Widegren |
| | 250 | 216 ABAKO Arkitektkontor AB | A | 16 | 32.5 | 34.4 | 34 | 1.2 | 751 | 14.8 | Olof Hellberg |



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|------|---------|--|---------|---------------|----------------|-----------------------------|-----------------------------------|-------------------------|--------------------------|---------------------------|
| | 251 350 | Stockholms VVS-Kompetens AB | M | 16/17 | 32.5 | 32.6 | 15 | 6.6 | 1444 | Håkan Klaesson |
| STD | 252 281 | Ingenjörskonsult Mats Bergstedt AB | I | 16/17 | 32.2 | 25.5 | 21 | 6.7 | 947 | Mats Bergstedt |
| | 253 295 | Rstudio for architecture AB | A | 16/17 | 32.2 | 24.1 | 19 | 5.2 | 851 | John R. Johanson |
| | 254 | Oxyma Innovation AB | I | 15/16 | 31.9 | 26.2 | 23 | 3.9 | 885 | Johan Norelius |
| STD | 255 250 | Loostrom & Gelin Konstruktionsbyrå AB | CE | 16/17 | 31.9 | 29.2 | 27 | 4.4 | 917 | Andreas Magnusson |
| | 256 317 | Projektledarbyrå Dalarna AB | PM,CE | 15/16 | 31.8 | 21.9 | 17 | 3.5 | 1172 | Roland Appelgren |
| | 257 206 | S-Tech, Skandinaviska Tech AB | E | 16 | 31.6 | 37.8 | 38 | 2.0 | 674 | Martin Jansson |
| STD | 258 270 | Säkerhetspartner Norden AB | CE | 15/16 | 31.5 | 26.7 | 19 | 7.5 | 1275 | Leif Nyström |
| STD | 259 231 | Fredblad Arkitekter AB | A | 15/16 | 31.4 | 23.4 | 29 | 4.1 | 812 | Leif Jönsson |
| STD | 260 249 | Trafik AB | CE | 16 | 31.3 | 29.4 | 23 | -1.5 | 796 | Mats Hagström |
| STD | 261 257 | Ingenjörskonsult Forma | I | 16/17 | 31.0 | 28.0 | 27 | 3.4 | 815 | Anders Grahm |
| STD | 262 293 | Contekton Arkitekter Fyrstad AB | A | 15/16 | 31.0 | 24.7 | 26 | 10.1 | 1071 | Peter Bergmann |
| | 263 240 | Metod Arkitekter i Uppsala AB | A | 16 | 30.4 | 30.1 | 25 | 6.5 | 987 | Patrik Tammerman |
| STD | 264 282 | Arkitektbyrå Design Göteborg AB | A | 16 | 30.0 | 25.4 | 27 | 3.6 | 719 | Jan Åkerblad |
| STD | 265 286 | Studio Stockholm Arkitektur AB | A | 16 | 29.8 | 25.2 | 22 | 9.7 | 1030 | Alessandro Cardinale |
| STD | 266 253 | Knut Jönson Byggadministration i Stockholm | PM | 16/17 | 29.7 | 28.4 | 10 | 7.4 | 1655 | Tom Ågstrand |
| STD | 267 269 | Metron Miljökonsult AB | Env | 16 | 29.7 | 26.8 | 19 | 9.6 | 1103 | Ann-Sofie Wessberg |
| STD | 268 263 | AG Arkitekter AB | A | 16 | 29.6 | 27.4 | 23 | 4.8 | 1010 | Fredrik Kihlman |
| STD | 269 242 | Elektrotekniska Byrån i Karlstad AB | E,I | 15/16 | 29.6 | 29.6 | 28 | 2.8 | 940 | Jonas Bjuresäter |
| | 270 215 | Creator Teknisk Utveckling AB | I | 16 | 29.5 | 34.5 | 28 | 1.9 | 761 | Mikael Reichel |
| STD | 271 308 | Seveko VVS Konsult AB | M | 16 | 29.3 | 22.4 | 20 | 7.7 | 1247 | Henrik Sandén |
| STD | 272 310 | Vcon VVS-Konsult AB | M | 16/17 | 29.0 | 22.3 | 23 | 9.8 | 1100 | Nicklas Andersson |
| STD | 273 247 | Atrio Arkitekter (Jönköping, Kalmar & Västervik) | A | 16 | 29.0 | 29.3 | 24 | 1.4 | 763 | Lunde, Dahlin, Spaak |
| STD | 274 176 | Terratec Sweden (fmr Blom Sweden) | I,Geo | 16 | 28.8 | 42.9 | 13 | -2.1 | 711 | Ante Erixon |
| | 275 245 | Rundquist Arkitekter AB | A | 16 | 28.7 | 29.5 | 18 | 2.0 | 817 | Henrik Rundquist |
| STD | 276 251 | Varg Arkitekter AB | A | 15/16 | 28.7 | 32.1 | 28 | 6.8 | 890 | Inga Varg |
| STD | 277 289 | Mekaniska Provingsanstalten MPA AB | M | 16 | 28.6 | 24.8 | 14 | 4.5 | 1705 | Torbjörn Ohlsson |
| | 278 287 | Mitta AB | CE | 16 | 28.3 | 25.2 | 31 | 3.1 | 655 | Tomas Knutsson |
| STD | 279 283 | Marge Arkitekter AB | A | 16 | 28.3 | 25.3 | 25 | 4.0 | 857 | Louise Masreliez |
| STD | 280 280 | Creacon Halmstads Konsult AB | CE | 16 | 28.3 | 25.7 | 30 | 1.0 | 740 | Torbjörn Åkesson |
| | 281 321 | A & J Andersson & Jönsson Landskapsarkitekter AB | A | 16/17 | 28.3 | 24.9 | 18 | 4.1 | 929 | Thomas Andersson |
| | 282 302 | Karlender Konsult AB | CE | 15/16 | 28.0 | 23.3 | 17 | 1.0 | 840 | Fredrik Karlender |
| STD | 283 233 | Murman Arkitekter AB | A | 16 | 28.0 | 31.3 | 26 | -0.5 | 712 | Ulla Alberts |
| | 284 273 | Scanscot Technology AB | CE | 16 | 28.0 | 26.4 | 15 | 2.6 | 1163 | Johan Kölfors |
| | 285 223 | AK-Konsult Indoor AIR AB | Env | 16 | 27.9 | 33.1 | 22 | 0.6 | 867 | Thomas Perman |
| | 286 266 | Elkonsulten i Finspång AB | E | 15/16 | 27.2 | 26.9 | 12 | 3.3 | 1075 | Bengt Hillier |
| STD | 287 260 | pidab AB | I | 16/17 | 26.8 | 27.8 | 27 | 0.5 | 719 | Per Forsbring |
| STD | 288 291 | Rördesign i Göteborg AB | I,M | 16/17 | 26.8 | 24.7 | 26 | 1.5 | 878 | Sture Börjesson |
| | 289 259 | Vepro AB | I | 16 | 26.6 | 27.8 | 31 | 1.3 | 595 | Bo Larsson |
| | 290 354 | Klara Arkitektbyrå i Karlstad AB | A | 16/17 | 26.5 | 22.0 | 23 | 5.7 | 957 | Maria Andersson |
| | 291 296 | Eltech Automation i Lund AB | I | 16/17 | 26.4 | 24.1 | 20 | 1.2 | 821 | Mikael Carlsson |
| STD | 292 329 | AB Arkitektlaget Skåne | A | 16 | 26.4 | 20.5 | 20 | 7.0 | 1081 | Lars Bourdette |
| | 293 304 | Werket Arkitekter AB | A | 16/17 | 26.3 | 22.9 | 22 | 5.3 | 944 | Henrik Lehman |
| STD | 294 339 | Elinder&Sten Arkitekter AB | A | 15/16 | 26.1 | 19.7 | 15 | 4.9 | 1096 | Christian Elinder |
| STD | 295 301 | Marktema AB | CE | 15/16 | 25.8 | 23.3 | 14 | 3.3 | 930 | Paul Andersson |
| | 296 299 | Projektidé i Uppsala AB | PM | 15/16 | 25.8 | 23.5 | 15 | 5.0 | 1150 | Henrik Billing (chairman) |
| STD | 297 288 | Jelntech Produktutveckling AB | I | 15/16 | 25.6 | 24.9 | 25 | 1.5 | 708 | Carl-Fredrik Emilsson |
| STD | 298 267 | Total Arkitektur & Urbanism AB | A | 16 | 25.4 | 27.0 | 29 | 6.1 | 723 | Johan Grangqvist |
| STD | 299 330 | Vera Arkitekter AB | A | 15/16 | 25.4 | 20.5 | 25 | 4.1 | 758 | Tobias Nissen |
| STD | 300 300 | Arkitekter Engstrand och Speek AB | A | 15/16 | 25.0 | 23.4 | 20 | 5.3 | 459 | Olle Dahlkild |

STD = Member of the Swedish Federation of Consulting Engineers and Architects. (*) = lack of conforming figure/proforma/assumed – = missing figure
 PM = Project Management, A = Architecture, CE = Civil/Structural Engineering, CT = Certification and testing, Env = Environment, Enr = Energy, E = Electrical,
 M = Mechanical/HEVAC, I = Industrial, MD = Multi Disciplinary

THE NORDIC MARKET

**“ ICELAND HAD
THE BEST
PROFITABILITY IN
THE NORDIC
REGION IN 2016
WITH A PROFIT
MARGIN OF 8.9%.”**



*The Opera house in Oslo,
designed by Snøhetta
architects.*

THE NORDIC MARKET



The Nordic section in the Sector Review is produced in cooperation with our colleagues in Finland, Norway, Denmark and Iceland. FRI and Danske Ark give an account of developments on the Danish market. RIF and Arkitekbedriftene gives a presentation of developments on the Norwegian market. SKOL gives an account of the Finnish market. The Icelandic market is presented by FRV and SAMARK together.

Comparison of key business ratios

A comparison is given below of some of the key business ratios for the Nordic countries. The figures have been calculated on the basis of the lists that were made for the respective countries and with the figures that were available. The Swedish figures in other words correspond to the 300 largest groups in

Sweden. In Norway, Denmark and Finland, they correspond to the 100 largest companies. In Iceland, the figures apply for the 17 largest companies. The calculations have been made on average exchange rates over the period January up to and including November 2017, as presented at the top of the graph below.

The market development in the Nordic region was good in 2016. Profit-

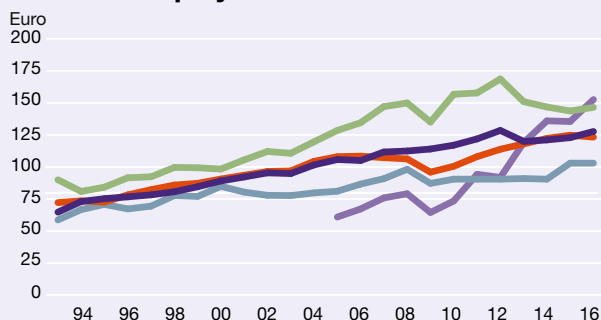
ability improved in all countries except Finland and Norway, where it fell only marginally. Best profitability was achieved in Iceland with a profit-margin, before tax, of 8.9%, that was a substantial improvement from the previous year when it was 6.3%. Sweden had the second-best profitability with 7.2%, compared to 5.8% the year before. Norway followed with 6.9% (7.0%), Finland with 5.0% (5.1%) and Denmark with 4.6% (4.0%). The highest turnover per employee was registered on Iceland with 153,000 Euros followed by Norway with 147,000 Euros, Sweden with 128,000 Euros, Denmark with 123,000 Euros and Finland with 103,000 Euros. Profit (before tax) per employee was 13,600 Euros on Iceland, 10,000 in Norway, 9,300 in Sweden, 5,800 Euros in Denmark and 5,200 Euros in Finland.

Nordic comparison of key figures

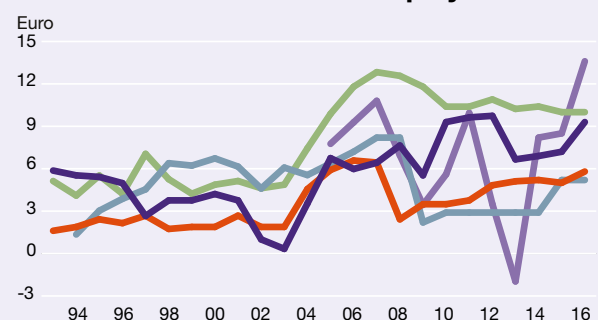
The figures are calculated with the conversion rates below, representing average currency rates for the period January–November 2017.
 1 Euro = 9,6074 SEK 7,4383 DKK 9,2833 NOK 120,05 ISK Tidigare räknades 1 Euro = 5,9457 Mark

Sweden Denmark Norway Iceland Finland

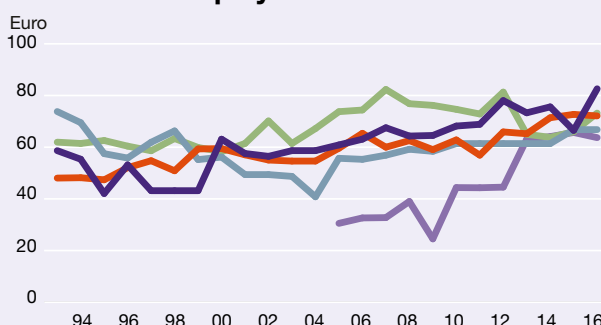
Turnover/employee



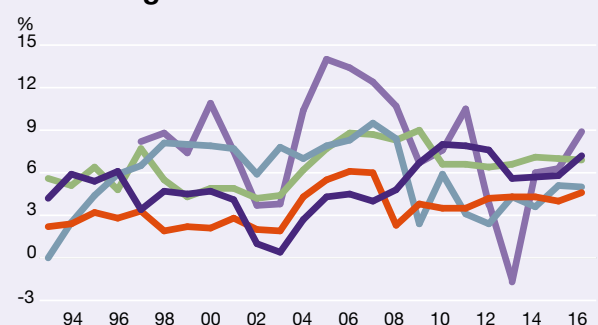
Profit after financial items/employee



Total assets/employee



Profit margin



THE TOP 100 NORDIC ARCHITECTURAL GROUPS

| | 2017 | 2016 | Group | Country | Annual Report | Employees | (Previous year) | Turnover | Currency | Turnover MEUR |
|--------|------|------|--|---------|---------------|-----------|-----------------|----------|----------|---------------|
| FRI | 1 | 1 | Rambøll Architects & Urban Planning * | DAN | 15 | 835 | 700 | 780.0 | MDKK | 104.9 |
| STD | 2 | 3 | White Architects | SWE | 16 | 682 | 632 | 892.2 | MSEK | 92.9 |
| STD | 3 | 2 | SWECO Architects | SWE | 16 | 629 | 700 | 834.0 | MSEK | 86.8 |
| STD | 4 | 4 | Tengbom group | SWE | 16 | 603 | 558 | 628.4 | MSEK | 65.4 |
| DA | 5 | 5 | Arkitema K/S | DAN | 16 | 466 | 450 | 361.8 | MDKK | 48.6 |
| RIF/AB | 6 | 6 | LINK Arkitektur AS | NOR | 16 | 372 | 353 | 387.0 | MNOK | 41.7 |
| DA | 7 | 9 | BIG / Bjarke Ingels Group * | DAN | 16 | 300 | 280 | 250.0 | MDKK | 33.6 |
| DA | 8 | 7 | Arkitektfirmaet C.F. Møller | DAN | 16 | 297 | 309 | 314.7 | MDKK | 42.3 |
| DA | 9 | 8 | Henning Larsen Architects | DAN | 16/17 | 275 | 281 | 268.5 | MDKK | 36.1 |
| STD | 10 | 10 | PE Arkitektur | SWE | 16 | 237 | 228 | 275.0 | MSEK | 28.6 |
| STD | 11 | 21 | Tyréns (acquired Pyramiden & AQ arkitekter) * | SWE | 16 | 230 | 104 | 240.0 | MSEK | 25.0 |
| AB | 12 | 11 | Snøhetta Group * | NOR | 16 | 180 | 180 | 152.9 | MNOK | 16.5 |
| STD | 13 | 14 | Semrén & Månsson Arkitektkontor AB | SWE | 16/17 | 156 | 131 | 159.1 | MSEK | 16.6 |
| STD | 14 | 13 | Wingårdh-group | SWE | 16 | 141 | 131 | 178.6 | MSEK | 18.6 |
| STD | 15 | 17 | Arkitekterna Krook & Tjäder AB | SWE | 16 | 137 | 121 | 153.3 | MSEK | 16.0 |
| STD | 16 | 18 | Liljewall Arkitekter AB | SWE | 16 | 136 | 121 | 151.4 | MSEK | 15.8 |
| DA | 17 | 15 | Årstiderne Arkitekter A/S | DAN | 15/16 | 135 | 129 | 143.0 | MDKK | 19.2 |
| AB | 18 | 12 | Nordic Office of Architecture | NOR | 16 | 134 | 132 | 220.6 | MNOK | 23.8 |
| | 19 | 16 | Schmidt Hammer Lassen Architects K/S * | DAN | 16 | 112 | 124 | 144.3 | MDKK | 19.4 |
| | 20 | 24 | ÅF (SandellSandberg & Konzept Sthlm) * | SWE | 16 | 109 | 89 | 140.5 | MSEK | 14.6 |
| DA | 21 | 19 | KPF Arkitekter A/S | DAN | 16 | 107 | 105 | 77.0 | MDKK | 10.4 |
| STD | 22 | 20 | FOJAB AB | SWE | 16 | 105 | 105 | 139.0 | MSEK | 14.5 |
| STD | 23 | 22 | NYRÉNS Arkitektkontor AB | SWE | 16 | 100 | 96 | 138.3 | MSEK | 14.4 |
| DA | 24 | | Gottlieb Paludan Architects A/S | DAN | 16 | 96 | 97 | 127.0 | MDKK | 17.1 |
| DA | 25 | 26 | PLH Arkitekter AS | DAN | 16 | 93 | 81 | 110.2 | MDKK | 14.8 |
| DA | 26 | 32 | Vilhelm Lauritzen AS | DAN | 16 | 93 | 69 | 90.7 | MDKK | 12.2 |
| DA | 27 | 27 | JJW Arkitekter A/S | DAN | 16 | 85 | 79 | 56.8 | MDKK | 7.6 |
| STD | 28 | 29 | AIX Arkitekter AB | SWE | 15/16 | 84 | 76 | 116.9 | MSEK | 12.2 |
| STD | 29 | 31 | Målarholmen (Ettelva Arkitekter & M.E.R. Solution) | SWE | 16 | 84 | 72 | 187.3 | MSEK | 19.5 |
| DA | 30 | 25 | Mangor & Nagel A/S | DAN | 16 | 82 | 82 | 63.3 | MDKK | 8.5 |
| STD | 31 | 34 | Cedervall Arkitekter | SWE | 16 | 79 | 68 | 78.8 | MSEK | 8.2 |
| STD | 32 | 36 | ÅWL Arkitekter AB | SWE | 16 | 79 | 62 | 101.8 | MSEK | 10.6 |
| | 33 | 23 | DARK Group* | NOR | 16 | 75 | 95 | 89.2 | MNOK | 9.6 |
| DA | 34 | 83 | Creo Arkitekter A/S | DAN | 16 | 75 | 37 | 40.9 | MDKK | 5.5 |
| | 35 | | COBE ApS | DAN | 16 | 74 | | 66.4 | MDKK | 8.9 |
| AB | 36 | 30 | Lpo Arkitekter As | NOR | 16 | 74 | 73 | 77.7 | MNOK | 8.4 |
| DA | 37 | 28 | 3XN A/S | DAN | 16/17 | 73 | 76 | 81.2 | MDKK | 10.9 |
| STD | 38 | 37 | Brunnberg & Forshed Arkitektkontor AB | SWE | 16 | 70 | 61 | 103.7 | MSEK | 10.8 |
| DA | 39 | 41 | CUBO Arkitekter A/S | DAN | 16/17 | 66 | 57 | 106.8 | MDKK | 14.4 |
| DA | 40 | 66 | Tegnestuen Vandkunsten ApS | DAN | 16 | 66 | 45 | 46.1 | MDKK | 6.2 |
| | 41 | 39 | Pes-Arkitehdit Oy (Pekka Salminen) | FIN | 16 | 64 | 60 | 7.5 | MEUR | 7.5 |
| DA | 42 | 42 | Rubow Arkitekter A/S | DAN | 16 | 61 | 57 | 60.9 | MDKK | 8.2 |
| STD | 43 | 45 | BSV Arkitekter & Ingenjörer AB | SWE | 16 | 61 | 54 | 82.0 | MSEK | 8.5 |
| | 44 | | MAD Arkitekter | NOR | 16 | 59 | | 58.9 | MNOK | 6.3 |
| STD | 45 | 40 | Byrån för Arkitektur & Urbanism (BAU) | SWE | 16 | 58 | 60 | 85.8 | MSEK | 8.9 |
| | 46 | 50 | Arkkitehtitoimisto JKMM Oy * | FIN | 16 | 58 | 50 | 9.3 | MEUR | 9.3 |
| AB | 47 | 43 | Lund Hagem Arkitekter AS | NOR | 16 | 57 | 56 | 60.0 | MNOK | 6.5 |
| AB | 48 | 44 | OG Arkitekter AS | NOR | 16 | 55 | 55 | 40.7 | MNOK | 4.4 |
| AB | 49 | 46 | Hille Melbye Arkitekter AS | NOR | 16 | 55 | 54 | 65.8 | MNOK | 7.1 |
| STD | 50 | 67 | Archus | SWE | 16 | 55 | 45 | 81.4 | MSEK | 8.5 |

(*) = lack of conforming figure/proforma/assumed – = missing figure

AB = Member of Arkitektbedriftene, Norway. DA = Member of Danske Ark, Denmark. FRI = Member of FRI, Denmark. RIF = Member of RIF, Norway. SKOL = Member of SKOL, Finland. STD = Member of STD-företagen, Sweden.

THE TOP 100 NORDIC ARCHITECTURAL GROUPS



| | 2017 | 2016 | Group | Country | Annual Report | Employees | (Previous year) | Turnover | Currency | Turnover MEUR |
|------|------|------|--|---------|---------------|-----------|-----------------|----------|----------|---------------|
| DA | 51 | 57 | Kullegaard Arkitekter A/S | DAN | 15/16 | 55 | 48 | 64.5 | MDKK | 8.7 |
| STD | 52 | 38 | Reflex Arkitekter AB | SWE | 16/17 | 54 | 61 | 81.0 | MSEK | 8.4 |
| DA | 53 | 47 | Schönherr A/S | DAN | 16 | 53 | 52 | 45.1 | MDKK | 6.1 |
| STD | 54 | 60 | BSK Arkitekter AB | SWE | 16 | 53 | 47 | 69.7 | MSEK | 7.3 |
| DA | 55 | 64 | KHR Arkitekter AS | DAN | 16 | 53 | 46 | 38.4 | MDKK | 5.2 |
| AB | 56 | 49 | Tag Arkitekter AS | NOR | 16 | 52 | 52 | 56.3 | MNOK | 6.1 |
| | 57 | 55 | Arcasa Arkitekter AS | NOR | 16 | 52 | 49 | 105.7 | MNOK | 11.4 |
| DA | 58 | 69 | Lundgaard & Tranberg Arkitekter A/S | DAN | 15/16 | 52 | 43 | 108.2 | MDKK | 14.5 |
| AB | 59 | 56 | Lund & Slaatto Arkitekter AS | NOR | 16 | 51 | 49 | 65.9 | MNOK | 7.1 |
| AB | 60 | 52 | Ratio Arkitekter AS (fmr Bgo og Medplan Arkitekter) | NOR | 16 | 50 | 50 | 115.4 | MNOK | 12.4 |
| | 61 | 58 | Arkkitehtitoimisto SARC Oy | FIN | 15/16 | 50 | 47 | 8.3 | MEUR | 8.3 |
| DA | 62 | 63 | Friis & Moltke A/S | DAN | 16 | 50 | 46 | 57.6 | MDKK | 7.7 |
| | 63 | 51 | L Arkkitehdit Oy (Arkkitehtitoimisto Larkas & Laine Oy) | FIN | 16 | 49 | 50 | 5.1 | MEUR | 5.1 |
| STD | 64 | 72 | Carlstedt Arkitekter AB | SWE | 16 | 49 | 42 | 49.7 | MSEK | 5.2 |
| AB | 65 | 65 | Dyrvik Arkitekter A/S | NOR | 16 | 48 | 46 | 52.7 | MNOK | 5.7 |
| DA | 66 | | ZESO Achitects ApS * | DAN | 15/16 | 48 | 28 | 30.0 | MDKK | 4.0 |
| AB | 67 | 78 | PIR II architects AS | NOR | 16 | 48 | 40 | 29.7 | MNOK | 3.2 |
| | 68 | 54 | Helin & Co Architects | FIN | 15/16 | 47 | 49 | 11.0 | MEUR | 11.0 |
| DA | 69 | 74 | Christensen & Co. Arkitekter A/S | DAN | 15/16 | 47 | 41 | 49.4 | MDKK | 6.6 |
| DA | 70 | 53 | SLA Arkitekter A/S | DAN | 16 | 46 | 49 | 35.5 | MDKK | 4.8 |
| STD | 71 | 61 | SYD ARK Konstruera AB | SWE | 16/17 | 46 | 46 | 48.7 | MSEK | 5.1 |
| STD | 72 | 71 | Yellon AB | SWE | 16 | 46 | 42 | 53.3 | MSEK | 5.5 |
| DA | 73 | 68 | Rørbæk og Møller Arkitekter ApS | DAN | 15/16 | 45 | 44 | 48.1 | MDKK | 6.5 |
| STD | 74 | 77 | Equator Stockholm AB | SWE | 16 | 45 | 40 | 69.4 | MSEK | 7.2 |
| | 75 | 59 | Architecture Office Sigge Ltd/ Viiva arkkitehtuuri (Arkkitehtitoimisto Sigge Oy) | FIN | 15/16 | 44 | 47 | 6.2 | MEUR | 6.2 |
| DA | 76 | 84 | Aart A/S | DAN | 15/16 | 43 | 37 | 41.7 | MDKK | 5.6 |
| AB | 77 | 70 | Abo Plan & Arkitektur As | NOR | 16 | 42 | 42 | 46.2 | MNOK | 5.0 |
| STD | 78 | 73 | Arkitekthuset Monarken AB | SWE | 16/17 | 42 | 41 | 39.0 | MSEK | 4.1 |
| | 79 | 75 | Wester+Elsner Arkitekter AB | SWE | 16 | 42 | 40 | 64.7 | MSEK | 6.7 |
| AB | 80 | 76 | PKA - Per Knudsen Arkitektkontor AS | NOR | 16 | 42 | 40 | 45.9 | MNOK | 4.9 |
| | 81 | 79 | Uki Arkkitehdit Oy | FIN | 16 | 42 | 40 | 3.6 | MEUR | 3.6 |
| SKOL | 82 | 105 | Aihio Arkkitehdit Oy | FIN | 16 | 42 | 32 | 4.1 | MEUR | 4.1 |
| DA | 83 | | Signal Arkitekter ApS * | DAN | 15/16 | 42 | 24 | 28.8 | MDKK | 3.9 |
| AB | 84 | | Narud Stokke Wiig Sivilarkitekter Nmal AS | NOR | 16 | 42 | | 55.3 | MNOK | 6.0 |
| | 85 | | Codesign Sweden AB | SWE | 15/16 | 41 | 30 | 66.3 | MSEK | 6.9 |
| AB | 86 | 80 | Niels Torp AS Arkitekter | NOR | 16 | 41 | 39 | 54.1 | MNOK | 5.8 |
| AB | 87 | 90 | AMB Arkitekter AS | NOR | 16 | 41 | 36 | 45.3 | MNOK | 4.9 |
| STD | 88 | 107 | Kjellander & Sjöberg AB | SWE | 15/16 | 41 | 31 | 39.5 | MSEK | 4.1 |
| | 89 | 62 | Strategisk Arkitektur Fries & Ekeröth AB | SWE | 16 | 40 | 38 | 72.1 | MSEK | 7.5 |
| AB | 90 | 88 | Alliance Arkitekter AS | NOR | 16 | 40 | 37 | 36.4 | MNOK | 3.9 |
| DA | 91 | 104 | H+Arkitekter (Hou & Partnere) | DAN | 16 | 39 | 32 | 63.8 | MDKK | 8.6 |
| | 92 | | RUM A/S * | DAN | 16/17 | 39 | 25 | 44.7 | MDKK | 6.0 |
| STD | 93 | 100 | Okidokil Arkitekter AB | SWE | 16 | 39 | 34 | 36.9 | MSEK | 3.8 |
| DA | 94 | 85 | Dissing+Weitling Architecture A/S | DAN | 16 | 38 | 37 | 36.0 | MDKK | 4.8 |
| | 95 | 96 | Arkkitehtitoimisto Lukkaroinen Oy | FIN | 16 | 38 | 35 | 3.1 | MEUR | 3.1 |
| SKOL | 96 | 95 | Parviainen Arkkitehdit Oy | FIN | 16 | 38 | 35 | 3.9 | MEUR | 3.9 |
| | 97 | 81 | HRTB AS | NOR | 16 | 38 | 38 | 41.3 | MNOK | 4.4 |
| DA | 98 | 108 | Holscher Nordberg Architects A/S | DAN | 16 | 38 | 30 | 42.9 | MDKK | 5.8 |
| SKOL | 99 | 94 | Arkkitehdit Soini & Horto Oy | FIN | 16 | 37 | 35 | 7.0 | MEUR | 7.0 |
| AB | 100 | 89 | 4B Arkitekter AS | NOR | 16 | 37 | 37 | 39.0 | MNOK | 4.2 |

(*) = lack of conforming figure/proforma/assumed – = missing figure

AB = Member of Arkitektbedriftene, Norway. DA = Member of Danske Ark, Denmark. FRI = Member of FRI, Denmark. RIF = Member of RIF, Norway. SKOL = Member of SKOL, Finland. STD = Member of STD-företagen, Sweden.

REVENUE REACHES NEW HIGH FOR DANISH COMPANIES BUT DECREASES FOR INTERNATIONAL SUBSIDIARIES



Revenue and profits continue to rise for the consulting engineers in Denmark, thus following the trend of the last three years. In 2016, the industry's revenue in Denmark increased by 4.5 percent to EUR 1.78 billion (DKK 13.2 billion) and profit margin (EBIT) went from 7.0 percent in 2015 to 7.1 in 2016. Export accounted for approximately 19 percent of the domestic revenue, which was an increase from 17 percent in 2015. International subsidiaries did not fare quite so well in 2016. Here revenue decreased by 2.9 percent to EUR 1.56 billion (DKK 11.7 billion).

This development was primarily due to the downscaling of oil & gas activities. Despite the lower revenue for international subsidiaries, the Danish consulting engineering firms generated EUR 3.36 billion (DKK 25 billion) in global revenue. Revenue generated by exports and in foreign subsidiaries accounts for 57 percent of global revenue in the industry. Danish consulting engineering firms employed approximately 26,300 staff globally, of which 13,500 staff were employed in foreign subsidiaries and 12,800 staff were employed in Denmark.

Outlook

It is looking brighter for the Danish economy and, in their "Economic Statement" from August 2017, the Danish Ministry of Finance expects GDP to grow by 2.0 percent in 2017 and 1.8 percent in 2018. If these forecasts hold, it will be the highest growth in GDP since 2006. Residential investments are expected to rise by 5.0 percent in 2017 and 6.0 percent in 2018 due to rising prices on housing and low financing expenses. Business investments are expected to increase by 3.0 percent in 2017 and 4.5 percent in 2018. Public investments have been at a historic high these past years and will see a significant decline in the coming years. Public investments are expected to decline from 3.5 percent of GDP in 2017 to 3.4 percent of GDP in 2018. Based on the latest FRI survey (October 2017), the Danish consulting

engineering industry expects a small increase in the number of employees over the next six months. The survey shows that 36 percent of the firms expect to increase their workforce, while 17 percent expect to decrease it. When asked about expected backlog, 29 percent of the firms expect an increased backlog over the coming six months, while none expects their workload to decrease. On the domestic market, Danish consulting engineering firms expect both revenue and profits to grow.

Sector market performance

FRI's forecasts show that the Building Sector, which currently comprises 39 percent of the total turnover in FRI member firms, is expected to grow. The Infrastructure Sector is the second largest sector with 25 percent, but is expected to decline in the coming years. The other two large sectors are Environment and Energy with 12 percent and 11 percent, respectively, of total revenue. The remaining revenue was produced in smaller sectors like IT, Management Consultancy and Process Engineering.

Tendering in English brings international consortiums to Denmark

In the past couple of years, the tendering process for several major projects in Denmark has been conducted in English. This has aroused increasing interest from international consortiums that wish to work in Denmark. As a result, international consortiums with no Dan-



Henrik Garver, FRI



David Hedegaard Meyer, FRI

About FRI

► **The Danish Association of Consulting Engineers (FRI), founded in 1904, is a trade association for Danish consultancy firms providing independent consultancy services on market terms. FRI is a part of the Confederation of Danish Industry (DI).**

Approximately 320 firms are members of FRI and, in total, they employ 26,300 staff in Denmark and abroad. The association is the only trade association for independent technical consultants in Denmark.

The objective of FRI is to support its member firms by contributing to improving their business conditions, strengthening the industry's framework conditions, profiling the industry and increasing its recognition on national and international levels.

FRI is an association for firms. It focuses on business matters and has established good liaisons with authorities and other partners. The association attempts as far as possible to gain influence on the drafting of framework conditions and legislation affecting market conditions in the industry.

Internationally, the association is a member of FIDIC and, in Europe, it is a member of EFCA.

Henrik Garver, CEO, FRI (Danish Association of Consulting Engineers)

David Meyer, Head of Market Analysis, FRI (Danish Association of Consulting Engineers)

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“THE PROFIT MARGIN WENT FROM 7.0% IN 2015 TO 7.1% IN 2016.

ish participation, other than subcontractors, won the construction of two major bridges. ”Fjordforbindelsen” a 10 km freeway, including a 1.4 km high bridge, at a price of EUR 269 million (DKK 2 billion), was won by an Italian, Belgian and Spanish consortium. More recently “Storstrømsbroen”, a 4 km combined rail and road bridge, at EUR 282 million (DKK 2.1 billion) was won by an Italian consortium.

Ongoing revision of the General Conditions for Consulting Services

The General Conditions for Consulting Services of October 1989 (known as ABR 89 from the Danish title) has been the general basis of consultation agreements for professional assistance by architects and engineers for close to 20 years. It is currently undergoing a revision as part of the modernisation of the general agreed documents for the building sector, which will result in a new set of agreed documents in 2018, that will have a profound impact on the sector. As part of the revision committee, FRI is working hard to ensure greater clarity in the tendering process and that the limitation of liability remains at a reasonable level.

Declining investments in infrastructure

Investments in infrastructure is essential to maintain economic growth in a society. It is therefore with some concern that the industry is looking at a pipeline for infrastructure projects that is close to non-existent from 2020 and beyond. For nearly a decade, the 2009 agreement “En grøn transportpolitik” (Denmark’s green transport policy) set the course for infrastructure investments in Denmark. It was a visionary plan with planned investments of EUR 12 billion (DKK 90 billion) from 2009 to 2020. When looking at the latest Finance Bill for 2018, it allocates a meagre EUR 347 million (DKK 2.6 billion) for road investments over the next four years. It is FRI’s hope that the political parties can agree on a new long-

term investment plan for infrastructure in Denmark.

The building sector is booming

FRI’s latest report on business cycles shows that the backlog for residential and commercial building projects continue to improve. A new pipeline survey from Byggepipeline.dk, which lists upcoming projects over EUR 6.7 million (DKK 50 million), shows that within the coming 12 months, new building projects for more than EUR 10.6 billion (DKK 79 billion) will be initiated. The private sector will be responsible for 2/3 of these projects. The increased activity does, however, raise some concerns about potential bottlenecks. The lack of qualified employees is currently one of the most pressing issues for consulting engineers and the rest of the building sector.

COMPANY NEWS:

Rambøll on point with new strategy

With a gross revenue of EUR 730 million for the first half of 2017 and an increase in EBIT to EUR 36 million, Rambøll shows improved performance compared to the first half of 2016. Rambøll launched its new Group strategy ‘Winning Together’ at the beginning of 2017, and a key element of the strategy is to further strengthen its presence and service offerings in key markets such as the Nordics, UK and US. In line with this strategy, Rambøll won many large projects in these markets. In Denmark, Rambøll won the tender for client consultancy on the world’s longest road/rail immersed tunnel connection between Denmark and Germany, the Fehmarn Belt Fixed Link. In Finland, Rambøll was selected to participate in a project to design the 25 km long Jokeri light rail line stretching from eastern Helsinki to Espoo. Rambøll also acquired three companies in Finland, thus adding another 40 experts and bringing the total number of employees in Finland to 2,300. Looking at Norway, Rambøll

signed a large framework agreement with Bane NOR SF, the state-owned company responsible for the Norwegian national railway infrastructure. Rambøll was also part of the winning team tasked with the design of the new governmental headquarters in Oslo. In the UK, Rambøll won a major contract for the UK High Speed 2, Phase 2b, providing civil and environmental engineering services for the Nottinghamshire to Leeds and York section. Rambøll has also won several very large environmental contracts in America.

COWI continues growth

In the first six months of 2017, COWI generated a turnover of EUR 412 million, which corresponds to a 3 percent increase compared to the same period in 2016. COWI’s operating profit (EBIT) amounted to EUR 12 million. With a global presence and more than 6,500 skilled employees, COWI was poised to win many exiting projects. As part of a joint venture, COWI won its largest water contract to date on a British development project in South Africa. Looking to North America, COWI won the design of the Petroleum Cement Terminal in Alaska while, in China, COWI was tasked with designing a district heating accumulator tank for a major Chinese Power Company. COWI is also the first Danish company to be included in the largest infrastructure project ever undertaken: the Belt and Road initiative, which is a modern version of the old Silk Route. Closer to home, COWI won the first phase of a prestigious urban development project, the East Link Project (Östlig Förbindelse), which will complete the ring road around Stockholm. In Norway, COWI is part of the team that won the design for the new governmental headquarters, where 4,500 people will work upon its completion. As part of a joint venture, COWI was furthermore selected to design the Fornebu Line, an 8.5 km extension of the Oslo metro. The first half of 2017 also saw the acquisition of the Stockholm-based company Projektbyrå. The company, which special-



izes in project management, has 110 employees and the acquisition strengthens COWI's position in the Swedish market.

Merger between NIRAS and ALECTIA

NIRAS and ALECTIA merged in the beginning of 2017 with NIRAS as the continuing company. In 2016, the combined companies counted more than 2,100 employees, who generated a revenue of EUR 280 million. With the merger, NIRAS' line of business areas has been expanded in Denmark and the UK with consultants within food and beverage, among others. In addition, NIRAS continued its Scandinavian expansion with the acquisitions of three companies in Norway (Oslo Prosjektadministrasjon, Kraftværk and VA Teknikk), and one in Sweden (Aperto). NIRAS secured a foothold in the Norwegian market for infrastructure and water utilities with their second highway assignment and a framework agreement with the Norwegian Railway Authority as well as the design of an expansion of a wastewater treatment plant in Oslo. In Sweden, NIRAS won several new projects, including the project management for renovation of the Royal Swedish Opera. On the domestic market, NIRAS won numerous projects, amongst these are the design of the new Children's Hospital Copenhagen and a tunnel below Copenhagen to transport excess water and geocoding of Danish properties for the Danish Tax Authorities.

New CEO takes the reins during record year for Sweco Danmark

While 2015 was a somewhat weak year when looking at EBIT, Sweco Danmark took a decisive re-match in 2016 and delivered its best results yet. Revenue was largely unchanged with EUR 147 million in 2016 compared to EUR 148 million in 2015. EBIT, however, soared from EUR -0.5 million in 2015 to EUR 8.7 million in 2016, thus landing Sweco Danmark among the financially best performing consulting engineers in Den-

mark. On 1 April 2017, Dariush Rezai succeeded John Chubb as president of Sweco Danmark. Dariush Rezai comes from a position as President of Mobile Communication at Eltel and has lots of experience with the Danish market. Sweco Danmark also inaugurated a new office in Vietnam, where they have a strong presence providing water solutions.

New headquarters and new CEO for Orbicon

Orbicon continued the upward curve and showed an increase in revenue by 6.5 percent to EUR 70 million in 2016. In two years, Orbicon has grown by 100 employees bringing the total to 600. To accommodate this growth, a new DGNB certified headquarter was inaugurated in Høje-Taastrup. 2016 also saw a change in management with CEO Jesper Nybo Andersen going on retirement and being replaced by Per Christensen. The arctic division of Orbicon is going strong and, in 2016, a new office was opened in Reykjavik, Iceland.

MOE keeps up impressive growth while also expanding abroad

Improving the revenue by 16 percent is an impressive feat and, with EUR 71 million, MOE has reached its highest level yet. For MOE, 2016 also saw an improvement in EBIT, which landed at EUR 4.4 million. Looking at the Danish market, MOE won several high profile projects including the new panda enclosure in Copenhagen Zoo, set to open late 2018, as well as new research facilities covering 9,800 m² for the Technical University of Denmark. With the opening of a new office in Norway, MOE has also strengthened its position on the Norwegian market, as part of an ongoing effort since 2009.

A solid year for Atkins Danmark

The fiscal year 2016/2017 showed improvements in both revenue and earnings before tax compared to last year. Revenue is up to EUR 50 million,

while earnings before tax increased to EUR 4.2 million. In 2017, Atkins won the design of the E45 freeway expansion, which stretches over 15 km, and will also be counselling Denmark's Nature Agency on a project to reduce emissions of greenhouse gasses from agriculture. As part of a 5 year strategy, Atkins is also strengthening its environmental and digital engineering divisions.

EKJ is expanding in Denmark

With a strong performance in 2016, EKJ is set to expand its activities in Denmark by acquiring 31 employees from Balslev Consulting Engineers in the western part of Denmark. For EKJ, 2016 saw an increase in revenue to EUR 26.6 million while EBIT doubled from 2015 to 2016 and landed at EUR 2.1 million. This year, EKJ won several exiting projects such as the renovation of research facilities at the Technical University of Denmark and the reconstruction of the Danish Ministry of Employment. EKJ will also be assisting an Italian consortium with the construction of "Storstrømsbroen", a 4 km combined rail and road bridge.

Up-and-comer INGENIØR'NE shows no signs of slowing down

Going from 26 to 80 employees in just five years, INGENIØR'NE is on its way to becoming one of FRI's larger member firms. With a gross profit of EUR 7.4 million, an increase of 36 percent compared to 2015, INGENIØR'NE came out of 2016 strong. EBIT saw an increase of 26 percent to EUR 1.6 million. In 2017, INGENIØR'NE won several new projects, including the expansion of Grenå Sportscenter as well as the renovation of the emergency department at Horsens Hospital.

Midtconsult becomes part of ÅF Group

On 1 January 2017, Midtconsult became part of the Swedish ÅF Group. The sale was part of Midtconsult's strategy to grow in new business areas in close co-

operation with a strategic partner. The company will continue under the name Midtconsult, but with the addition “- part of the ÅF group”. Drawing on its past experience with high-rises, Midtconsult was part of a team that won the construction of a new 120 meter residential tower in Copenhagen. Midtconsult also won a project for a new town area in Valby, set to hold 2,200 new households.

Søren Jensen to design a new landmark for Aarhus

Still feeling the effects of a restructuring, the 2015/2016 accounting year for Søren Jensen showed a slight decline in gross profit and EBIT, which landed at EUR 4.2 million and EUR -0.05 million, respectively. Not far from its headquarters, Søren Jensen will be the design manager for the first phase of the project for a new 100 meter tall commercial building at Aarhus harbor. Søren Jensen will also be designing “Godsbanekollegiet”, a new dorm with 349 housing units. Not only busy in Aarhus, Søren Jensen is also expanding its office in Copenhagen to accommodate its growth.



DANISH ARCHITECTURAL INDUSTRY IS GROWING

The Danish architectural industry expanded from 2015 to 2016. The total member net fee turnover for 2016 reached EUR 629.8 million, a 6.8% increase from last year's EUR 589.6 million. In the same period, the member firms added 400 new employees to their total staff pool, now employing about 5400 architects and improved their net profits with an impressive 21% from EUR 42.9 million in 2015 to 51.9 million in 2016.

The (net) profit margin thus increased to 8.4% in 2016, from 6.4% in 2015. With added manpower, better sales and predominantly positive sentiments for 2017, the industry's financial development is expected to have further improved in 2017.

The architectural industry is volatile, as large projects are unpredictable and competitions carries substantial risks. Especially smaller firms struggle more than their larger competitors as the Danish value chain is becoming increasingly blurred resulting in a more complex market with added technological and legal requirements. However, with an 8-year period of improved profits, the member firms have also improved their average

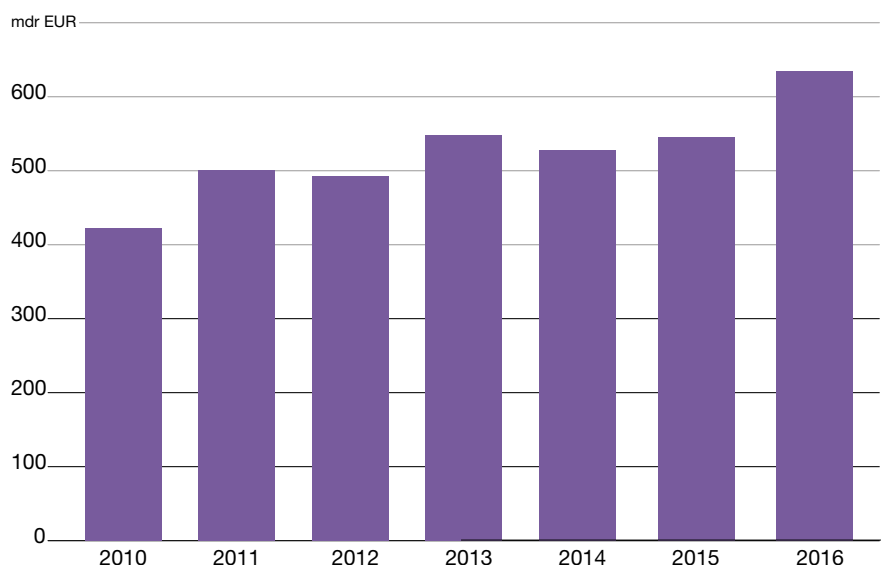
solvency ratios by retaining more capital the last four years, making them better equipped for bad times.

International market news

The Danish architecture industry keep expanding its international activities. In 2016 the members had a slight decrease in exports from their firms located in Denmark, but with an increasing number of foreign based subsidiaries, the total international sales grew almost EUR 13 million from 2015 to 2016.

Denmark's neighboring countries remain the largest export receivers and Norway and Sweden the favored places to build. However, the Australian and North American markets are also be-

Total member net fee turnover 2010–2016



Source: Danish Association of Architectural Firms



coming cherished as several Danish firms establish themselves through competitions.

With increased efforts from architecture firms, collaboration with sister countries and delegation visits facilitated by Danish Association of Architectural Firms, foreign markets are becoming increasingly accessible. Data from Danish Association of Architectural Firm's annual internationalizations survey, show a tendency for diminishing international sales for firms with less than 10 employees.

Tredje Natur goes to New York

Tredje Natur, is a Copenhagen based architecture firm that has become an inspiration for New York city. Their design of Saint Kjelds Square in the Climate Neighborhood in Copenhagen is considered a forerunner in sustainable urban development as it is able to manage large amounts of stormwater and making the neighborhood more attractive at the same time. The North American city is so enthusiastic about the approach, that a three year collaboration agreement has been set up between Copenhagen municipality and the New York Department of Environmental Protection as they would like to copy and create similar neighborhoods in their own city.

DISSING+WEITLING wins large international design competition

DISSING+WEITLING, a firm formed in 1971 to continue the work started by the Danish architect, Arne Jacobsen recently won a competition on the coast-to-coast link in Guangdong, China. The winning proposal was developed in collaboration with COWI, the international consulting group, and will include "the world's widest immersed road tunnel as well as two signature suspension bridges". The project is expected to become a strong support for further development in the Chinese region. Summer 2017, DISSING+WEITLING also completed the "world's longest" elevated cycling path in China, adding the two records to their international portfolio

About Danish Association of Architectural Firms

► **Danish Association of Architectural Firms (Danske Arkitektvirksomheder)** is an organization of private firms of consulting architects. The association's objective is to represent the commercial interests of practicing architects and, in its capacity as impartial consultant to building clients, strengthen the position, quality level and professionalism of its member firms.

As of November 2017, Danish Association of Architectural Firms has 640 active ordinary and associated member firms, with about 5,400 employees that account for approximately 85 – 90 percent of the aggregate building contract sums in Denmark.

Danish Association of Architectural Firms is a member of the Confederation of Danish Industry (DI) who negotiate the general agreements on pay and working conditions for the staff employed by the member firms. At the international level the association is active in the Architects Council in Europe (ACE), and work closely with the other four Nordic organizations.

The organization offer its member firms:
► **Professional insurance, free legal advice on contract paradigms and other legal matters related to the assignments performed, counselling regarding**



Lene Espersen



Lars Emil Kragh

business development and participation in different networks

- **A number of publications free of charge to members on contract, quality management, working environment etc.**
- **Export opportunities in cooperation with e.g. sister organisations and the Danish Ministry of Foreign affairs**

Lene Espersen,

CEO
Danish Association of
Architectural Firms

Lars Emil Kragh,

Head of Business
Development
Danish Association of
Architectural Firms

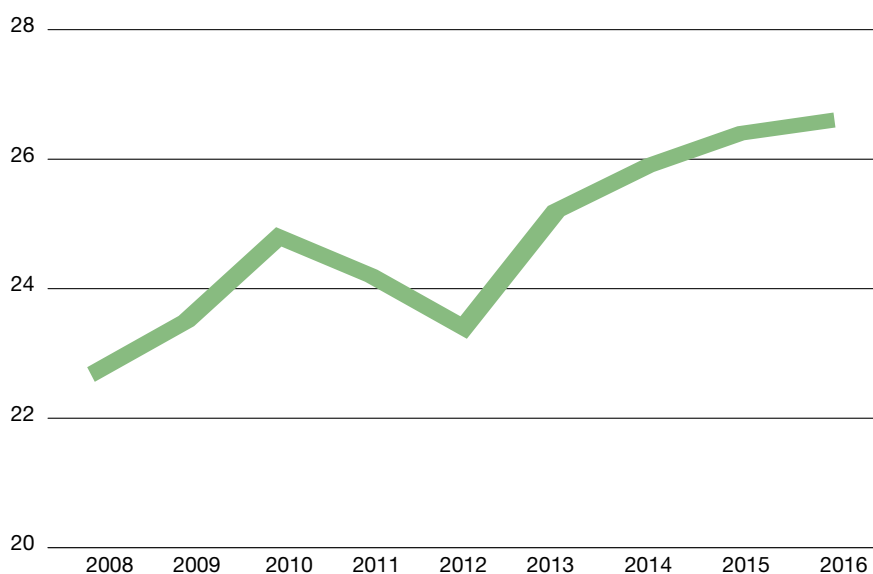
Address: Vesterbrogade 1E, 2nd floor
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Tel: +45 32 83 05 00

E-mail: info@danskeark.dk

www.danskeark.dk Photo: Creative

Solvency ratio 2008–2016



Source: Danish Association of Architectural Firms



“THE (NET) PROFIT MARGIN INCREASED TO 8.4% IN 2016 FROM 6.4% IN 2015.

ILLUSTRATION: SYDNEY FISH MARKET BY 3XN



and strengthening their presence in the country.

3XN to build new tourist magnet in Sydney

Danish 3XN recently won the international competition for **Sydney's Fish Market** which is to become the city's new

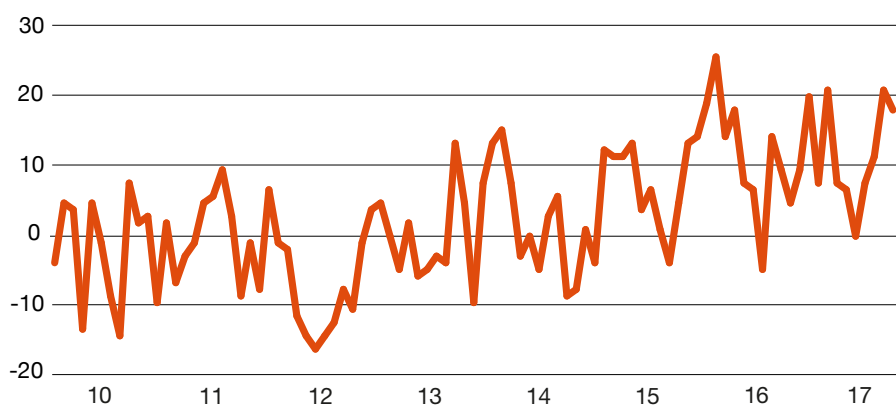
“foodie destination” consisting of a market, restaurants and public spaces. The project will take up 100.000 square meters, have a construction sum of EUR 200 million and is expected to open in 2022. With additional competitions won in both Canada and Sweden, 3XN expanded its international position the

past year. Financially, 3XN increased its turnover from EUR 10.2 million in 2015/16 to 10.9 million in its financial year 2016/17 and more than doubled its net profits.

WERK takes a foothold in Hamburg

The newly formed progressive architectural firm WERK who are specialists in development of concepts within construction, urban spaces and urban planning, takes a strong foothold in Hamburg. After winning a 1st price for the housing project **Creative Blocks** in the Hafencity quarter, the firm recently ads another winning proposal to its German portfolio, naming the landscape project “Creative Blobs”.

Market sentiment indicator



Source: Danish Association of Architectural Firms

ILLUSTRATION: CREATIVE BLOCKS BY WERK



THE TOP 100 DANISH CONSULTING ENGINEERING AND ARCHITECTURAL GROUPS

| | 2017 | 2016 | Group | Service | Annual report | Turn-over MDKK | Average (previous year) employees | Tot. Balance sheet MDKK | CEO/Managing director |
|--------|------|------|--|--------------|---------------|----------------|-----------------------------------|-------------------------|--|
| FRI | 1 | 1 | Rambøll Group A/S | MD | 16 | 10607.7 | 10589.3 | 12497 | 6383.8 Jens-Peter Saul |
| FRI | 2 | 2 | COWI Group A/S | MD | 16 | 5939.0 | 5701.5 | 6475 | 3331.0 Lars-Peter Søbye |
| FRI | 3 | 3 | NIRAS-Group A/S (acquired Alecia) | MD | 16 | 2078.0 | 1317.4 | 2152 | 1258.9 Carsten Toft Boesen |
| FRI/DA | 4 | 4 | Sweco Denmark A/S * | MD | 16 | 1096.0 | 1075.1 | 1077 | 626.0 Dariush Rezaei |
| FRI | 5 | 6 | Atkins Denmark A/S | MD | 16/17 | 579.4 | 571.0 | 601 | 301.5 Eva Rindom |
| FRI | 6 | 8 | MOE A/S | MD | 16 | 531.4 | 427.6 | 554 | 315.4 Christian Listov-Saabye |
| FRI | 7 | 7 | Orbicon A/S | MD | 16 | 522.3 | 490.3 | 579 | 242.9 Per Christensen |
| DA | 8 | 10 | Arkitema K/S | A | 16 | 361.8 | 330.0 | 466 | 173.5 Peter Hartmann Berg |
| | 9 | 16 | Eltronic A/S | I | 16 | 325.1 | 220.0 | 213 | 107.7 Lars Jensen |
| | 10 | 15 | Dansk Ingeniørservice A/S * | I | 15/16 | 324.4 | 222.0 | 500 | Michael Gadeberg |
| FRI | 11 | 39 | C.F. Møller Architects | PM | 16 | 280.0 | 71.8 | 310 | Anders Bennermark |
| DA | 12 | 14 | ÅF Denmark (acquired Midtconsult) * | A | 16 | 250.0 | 250.0 | 152 | 208.5 Sheela Maini Søgaard |
| DA | 13 | 12 | Henning Larsen Architects | A | 15/16 | 245.2 | 282.2 | 185 | 208.2 Mette Kynne Frandsen, Louis Andreas Becker |
| DA | 14 | 11 | BIG / Bjarke Ingels Group * | A | 16 | 234.8 | 304.1 | 218 | 134.0 Klaus Toustrup, Helle Lehmann Staun, Birgit Møller Christensen |
| | 15 | 9 | ISC Rådgivende Ingeniører A/S * | MD | 16 | 219.0 | 368.9 | 250 | 191.5 Kjeld Thomsen |
| | 16 | 18 | Graintec * | I | 16 | 205.8 | 170.2 | 88 | 104.7 Michael Mortensen |
| | 17 | 13 | Geo * | I | 16 | 204.1 | 274.1 | 350 | 237.1 Kim Sillemann |
| FRI | 18 | 17 | EKJ Rådgivende Ingeniører A/S | MD | 16 | 197.9 | 179.2 | 205 | 175.3 Jørgen Nielsen |
| | 19 | 26 | Schmidt Hammer Lassen Architects K/S * | A | 16 | 144.3 | 93.8 | 112 | 92.2 Bente Damgaard |
| DA | 20 | 25 | Årstiderne Arkitekter A/S * | A | 15/16 | 143.0 | 105.2 | 135 | 62.6 Torben Klausen |
| FRI | 21 | 20 | OBH-Group A/S | MD | 16 | 141.8 | 129.3 | 137 | 72.4 Carsten Gregersen |
| | 22 | 21 | Kuben Management A/S * | PM | 16 | 130.5 | 123.5 | 130 | 76.1 Henrik Christensen |
| DA | 23 | 24 | Gottlieb Paludan Architects A/S | A | 16 | 127.0 | 106.4 | 96 | 66.3 Kristian Hagemann |
| FRI | 24 | 23 | Søren Jensen A/S Rådgivende Ingeniører | MD | 15/16 | 120.5 | 109.3 | 140 | 62.5 Frank Jensen |
| DA | 25 | 33 | PLH Arkitekter AS | A | 16 | 110.2 | 81.0 | 93 | 56.6 Søren Mølbak, Sverre Gunborg Olsen |
| DA | 26 | 28 | Lundgaard & Tranberg Arkitekter A/S * | A | 15/16 | 108.2 | 88.7 | 52 | 82.2 Peter Thorsen |
| DA | 27 | 35 | CUBO Arkitekter A/S * | A | 16/17 | 106.8 | 79.4 | 66 | 41.3 Peter Dalsgaard |
| | 28 | 36 | Dansk Miljørådgivning A/S (DMR) * | Env | 15/16 | 98.6 | 78.6 | 100 | 33.0 Claus Jørgen Larsen |
| FRI | 29 | 19 | NTU International A/S | CE, PM | 16/17 | 95.7 | 131.2 | 29 | 83.4 Lars Bentzen |
| DA | 30 | 31 | Vilhelm Lauritzen AS | A | 16 | 90.7 | 83.8 | 93 | 84.8 Søren Daugbjerg |
| FRI | 31 | 40 | Oluf Jørgensen Group | MD | 16 | 87.4 | 68.5 | 115 | 47.7 Brian Th. Andreassen |
| FRI | 32 | 118 | Cunningham Lindsey Leif Hansen A/S | MD | 16 | 84.3 | 20.3 | 78 | 48.7 Christian Leif Hansen |
| FRI | 33 | 30 | Balslev Rådgivende Ingeniører A/S | MD | 15/16 | 83.8 | 85.4 | 122 | 37.7 Henrik Rosenberg |
| DA | 34 | 22 | 3XN A/S | A | 16/17 | 81.2 | 110.8 | 73 | 54.9 Jeanette Hansen |
| FRI | 35 | 57 | AlfaNordic ApS | MD | 16 | 80.7 | 49.7 | 55 | 20.9 Thomas Meldgaard Petersen |
| DA | 36 | 45 | KPF Arkitekter A/S * | A | 16 | 77.0 | 62.0 | 107 | 68.9 Sine Juul Praastrup |
| FRI | 37 | 55 | Wissenberg A/S | MD | 16 | 74.8 | 52.0 | 62 | 35.7 Lars Bendix Christensen |
| FRI | 38 | 64 | Process Engineering A/S | Enr., I | 15/16 | 74.0 | 46.3 | 65 | 28.3 Poul B. Jakobsen |
| FRI | 39 | 34 | Norconsult Denmark A/S | MD | 16 | 73.6 | 80.6 | 94 | 57.8 Thomas Bolding Rasmussen |
| FRI | 40 | 52 | Ingeniør'ne A/S | MD | 16 | 72.0 | 52.7 | 70 | 51.9 John Andresen |
| | 41 | | COBE ApS | A | 16 | 66.4 | | 74 | 21.0 Dan Stubbergaard Hansen |
| FRI | 42 | 37 | K2 Management A/S | PM | 15/16 | 64.8 | 77.9 | 80 | 25.9 Henrik Stamer |
| DA | 43 | 59 | Kullegaard Arkitekter A/S | A | 15/16 | 64.5 | 49.0 | 55 | 34.4 Thomas Kullegaard |
| DA | 44 | 56 | H+Arkitekter (Hou & Partnere) | A | 16 | 63.8 | 50.0 | 39 | 42.3 Ib Jensen Hou |
| DA | 45 | 29 | Mangor & Nagel A/S | A | 16 | 63.3 | 87.5 | 82 | 29.7 Bente Priess Andersen, Jakob Brings-høj Andersen, Torben Nagel |
| DA | 46 | 43 | White Arkitekter A/S * | A | 16 | 62.0 | 64.7 | 62 | 34.0 Frans Ove Andersen, Erik Skytte |
| DA | 47 | 51 | Rubow Arkitekter A/S | A | 16 | 60.9 | 52.9 | 61 | 28.3 Lars Bo Lindblad |
| DA | 48 | 77 | Cebra Arkitekter A/S * | A | 16 | 60.2 | 35.5 | 27 | 15.1 Kolja Jannik Nielsen |
| FRI/DA | 49 | 58 | AI-Gruppen A/S | MD | 15/16 | 59.9 | 49.1 | 66 | 41.8 Jan Bruus Sørensen |
| | 50 | 42 | Ingeniørfirmaet Viggo Madsen A/S * | CE | 16 | 59.0 | 64.9 | 35 | 28.7 Bjørn Schmelling |
| DA | 51 | 65 | Friis & Moltke A/S * | A | 16 | 57.6 | 44.0 | 50 | 24.1 Palle Hurwitz, Jens Ole Bahr |
| DA | 52 | 54 | JJW Arkitekter A/S | A | 16 | 56.8 | 52.0 | 85 | 23.7 Nina Kovsted |
| FRI | 53 | 48 | DGE Miljø- og Ingeniørfirma A/S | MD | 16 | 55.4 | 54.2 | 52 | 19.2 Poul Erik Jensen |
| | 54 | 73 | Arne Elkjaer A/S * | CE | 15/16 | 53.8 | 37.5 | 32 | 14.0 Michael Reeholm Due |
| FRI | 55 | 50 | Dominia A/S. Rådgivende Ingeniører | CE, E, M, PM | 16 | 53.5 | 53.5 | 50 | 20.1 Kjeld Christiansen |
| | 56 | 69 | Viegand & Maagoe Aps * | I, Env | 16 | 50.7 | 40.0 | 43 | 20.0 Søren Eriksen |
| DA | 57 | 62 | Christensen & Co. Arkitekter A/S * | A | 15/16 | 49.4 | 46.9 | 47 | 20.9 Vibeke Lydolph Lindblad, Michael Christensen |
| DA | 58 | 53 | Rørbaek og Møller Arkitekter ApS | A | 15/16 | 48.1 | 52.4 | 45 | 30.3 Nicolai Lund Overgaard |
| FRI | 59 | 81 | Hundsbaek & Henriksen A/S | MD | 15/16 | 48.0 | 32.1 | 45 | 27.9 Niels Lerbech Sørensen |
| | 60 | 63 | Peter Jahn & Partnere A/S * | CE, A | 15/16 | 47.5 | 46.6 | 35 | 11.5 Jacob Lemche |
| FRI | 61 | 44 | Dines Jørgensen & Co A/S | MD | 15/16 | 47.0 | 64.5 | 53 | 26.7 Ole Rasmussen |
| DA | 62 | 46 | Tegnestuen Vandkunsten ApS * | A | 16 | 46.1 | 58.6 | 66 | 32.8 Flemming Ibsen |
| FRI | 63 | 67 | Gaihed A/S | MD | 16 | 46.0 | 41.6 | 42 | 16.2 Jacob Ulrik Sachse |
| DA | 64 | 71 | Schønher A/S * | A | 16 | 45.1 | 39.5 | 53 | 19.9 Nina Jensen, Rikke Juul Gram |

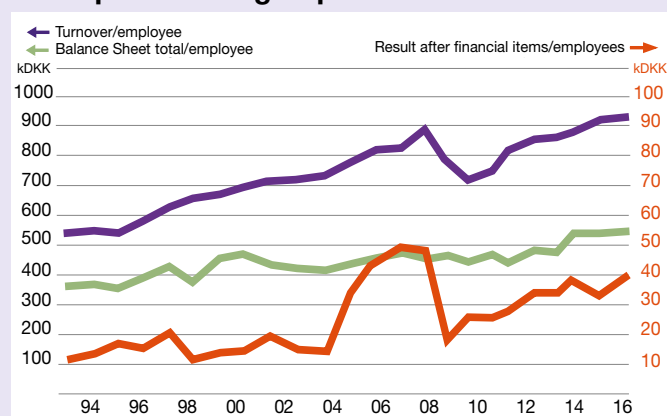
FRI = Member of FRI, the Danish Association of Consulting Engineers DA = Member of Danish Association of Architectural Firms,

(*) = lack of conforming figure/proforma/assumed, - = missing figure PM = Project Management, A = Architecture, CE = Civil/Structural Engineering, Env = Environment, Enr = Energy, E = Electrical, M = Mechanical/HEVAC, I = Industrial, MD = Multi Disciplinary



| | 2017 | 2016 | Group | Service | Annual report | Turn-over MDKK | Average (previous year) | Tot. Balance sheet MDKK | CEO/Managing director |
|-----|------|------|---|--------------|---------------|----------------|-------------------------|-------------------------|---|
| | 65 | 92 | RUM A/S * | A | 16/17 | 44.7 | 27.7 | 39 | Marianne Kjerkegaard Kristensen |
| DA | 66 | 85 | KANT Arkitekter A/S * | A | 16 | 43.9 | 29.5 | 30 | Morten Stahlschmidt |
| DA | 67 | 117 | Danielsen Architecture A/S * | A | 15/16 | 43.7 | 20.3 | 28 | Kasper Danielsen |
| | 68 | 78 | Emcon A/S * | PM,CE | 16 | 43.5 | 34.9 | 27 | Jeppe Blak-Lunddahl |
| | 69 | 89 | AN Group A/S * | I | 16 | 43.3 | 28.0 | 22 | Ole Okkels |
| DA | 70 | 88 | Holscher Nordberg Architects A/S * | A | 16 | 42.9 | 28.0 | 38 | Mikkel Wiell Nordberg |
| DA | 71 | 93 | Arkitektfirmaet Kjaer & Richter A/S * | A | 15/16 | 42.0 | 26.8 | 32 | Ole Madsen |
| DA | 72 | 61 | Aart A/S | A | 15/16 | 41.7 | 48.0 | 43 | Torben Skovbjerg Larsen |
| DA | 73 | 38 | Creo Arkitekter A/S * | A | 16 | 40.9 | 72.5 | 75 | Henning Gammelgaard Andersen |
| FRI | 74 | 143 | INUPLAN A/S * | MD | 16 | 40.1 | | 26 | Kristian Lennert |
| | 75 | 47 | Knud E. Hansen A/S Naval Architects * | I | 16 | 40.0 | 58.4 | 75 | Finn Wollesen Petersen |
| | 76 | 49 | Lodahl 2007 Aps * | I | 16 | 38.6 | 54.0 | 35 | Michael Roel |
| DA | 77 | 82 | Eseebase A/S * | A | 15/16 | 38.5 | 31.0 | 28 | Torben Klausen |
| DA | 78 | 66 | KHR Arkitekter AS | A | 16 | 38.4 | 31.7 | 53 | Lars Erik Kragh |
| | 79 | 60 | LIC Engineering A/S * | CE, Enr, M | 16 | 37.6 | 37.8 | 57 | Niels-Erik Ottesen Hansen |
| FRI | 80 | 74 | Sloth-Møller Rådgivende Ingeniører A/S * | MD | 15/16 | 36.6 | 36.3 | 49 | Lars Frost Larsen |
| FRI | 81 | 68 | Brix & Kamp A/S | MD | 16 | 36.4 | 41.0 | 48 | Søren Jepsen |
| DA | 82 | 70 | Entasis A/S * | A | 16 | 36.2 | 40.0 | 28 | Christian Cold |
| DA | 83 | 103 | Gehl Architects ApS * | A | 15/16 | 36.2 | 22.6 | 30 | Helle Lis Søholt, Henriette Vamberg Rasmussen |
| DA | 84 | 79 | Dissing+Weitling Architecture A/S * | A | 16 | 36.0 | 33.1 | 38 | Steen Savery Trojaborg |
| DA | 85 | 86 | SLA Arkitekter A/S * | A | 16 | 35.5 | 29.1 | 46 | Mette Skjold |
| DA | 86 | 83 | Design Group Architects * | A | 16 | 33.6 | 30.5 | 26 | Christian Giese |
| FRI | 87 | 148 | P.A.P A/S | Enr., E, I | 15/16 | 33.5 | | 39 | Carsten Eichstedt |
| | 88 | 144 | Grue og Hornstrup Rådgivende Ingeniører A/S * | CE, E | 15/16 | 32.9 | | 21 | Lars Grue |
| FRI | 89 | 87 | Viborg Ingeniørerne A/S | MD | 16 | 31.4 | 29.0 | 34 | Karsten Lindberg |
| | 90 | | RAVN Arkitektur A/S * | A | 16/17 | 30.8 | | 33 | Anne Guldhammer |
| DA | 91 | 106 | ZESO Architects ApS * | A | 15/16 | 30.0 | 22.2 | 48 | Torben Juul Andersen & Claus Høeg Olsen |
| FRI | 92 | 97 | OSK -Ship Tech A/S | CE, I, PM | 15/16 | 29.6 | 25.7 | 42 | Jacob H. Thygesen |
| | 93 | 80 | ProlInvent Gruppen A/S * | I | 15/16 | 29.2 | 32.3 | 22 | Leif Dalum |
| DA | 94 | 96 | Nova 5 Arkitekter A/S * | A | 15/16 | 29.2 | 25.9 | 31 | Hanne Vinkel Hansen |
| DA | 95 | 111 | Signal Arkitekter ApS * | A | 15/16 | 28.8 | 21.6 | 42 | Birgitte Andersen |
| FRI | 96 | 91 | Ingeniørgruppen Varde | MD | 16 | 28.7 | 27.7 | 26 | Henning Andersen |
| FRI | 97 | 100 | D.A.I. Group A/S | CE, E, M, PM | 16 | 28.6 | 24.6 | 31 | Kim Heshe |
| FRI | 98 | 146 | RMG-Inspektion A/S * | CE | 16 | 28.6 | | 25 | Anita Jochumsen |
| FRI | 99 | 113 | Spangenberg & Madsen Rådgivende Ingeniørfirma A/S | MD | 16 | 28.5 | 21.1 | 38 | Michael Rasmussen |
| | 100 | 90 | Bertelsen Og Scheving Arkitekter Aps * | A | 15 | 27.9 | 27.9 | 31 | Jens Bertelsen |

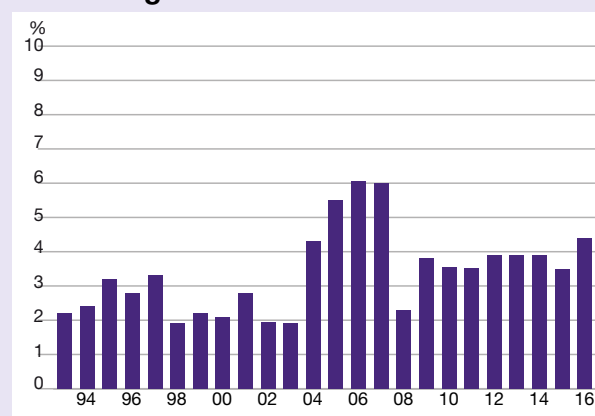
The top 30 Danish groups



Generally speaking, it is risky business making direct comparisons between key business ratios for the largest firms and corresponding figures for the medium and small-sized firms. In the case of the latter firms, the extensive efforts of the often many partners has a relatively significant impact on the companies' turnover and profit level per employee.

For firms 31-100 in the above list, turnover in 2016 increased by 3% to approximately DKK 3,407 million (DKK 3,301 million in 2015). The number of employees grew by 8% to 3,456 (3,200). The turnover per employee consequently fell to DKK 986,000 (DKK 1,031,000). The profit before tax fell to DKK 65,000 per employee (DKK 81,000). Calculated in terms of profit margin, this gives 6.7% (7.9%). The average balance per employee was approximately DKK 498,000 (DKK 537,000).

Profit margins



Key business ratio 30 largest groups 2016 (previous year)

| | | |
|---|----------|----------|
| Turnover per employee | DKK 913k | DKK 916k |
| Profit after financial items per employee | DKK 40k | DKK 32k |
| Balance sheet total per employee | DKK 544k | DKK 537k |

The turnover for the 30 largest groups increased by 4% to approximately DKK 25,619 million (DKK 24,624 million in 2015). The average number of employees also grew by 4% to 28,055 (26,890). The turnover per employee was 913,000 DKK (916,000 DKK). The profit before tax grew to DKK 40,000 per employee (DKK 32,000 the previous year). The profit margin for the 30 largest groups in 2016 increased to 4.4% (3.5% in 2015). The average balance per employee was approximately DKK 544,000 (DKK 537,000 in 2015).

ECONOMIC IMPROVEMENT IN NORWAY, STABILITY FOR CONSULTING ENGINEERS

Norway, as a major supplier of oil and gas, has faced a challenging economic situation in the last few years. With somewhat low revenues and little willingness to invest in the oil and gas sector, the Norwegian economy has been kept aloft with significant stimulation of the economy with the use of public and state funds. These funds, to a large degree, have also been invested in public buildings and new infrastructure. Moreover, funds have been allocated in order to catch up on the considerable maintenance backlog for older infrastructure and public buildings. This has been favourable to the industry and has led to a growth in turnover in the industry of 15 % in the last three years.

The Norwegian economy is improving. The prognostics for growth in the mainland economy are calculated at a GDP growth of 2.5 % in 2018. Oil and gas prices are now rising; however, they are still 50 % below the prices of 2014. This has contributed to a marked downturn in investments in oil and gas activities. Moderate wage settlements combined with weaker exchange rates for the Norwegian krone pull in the opposite direction and will aid in improving conditions for other export businesses and competitive sectors. With an anticipated inflation of 1.5 % in 2017 and 2018, declining levels of unemployment (4.0 %) and an increase in BNP growth (2.5 %), the Norwegian economy is healthy. This indicates a good level of activity in the Norwegian economy and for Norwegian consulting engineers in 2018.

Norway, that has major, fluctuating and transient incomes from natural resources, established an oil fund in 1990. The oil fund (The Government Pension Fund) was established in order to combat an excessively high cost level and to stabilise domestic consumption. The market value of this fund in 2017 is anticipated to be in the region of BNOK 8200. This means that Norway is still a wealthy country with major opportunities. The state can therefore use the dividends from this fund to stimulate the economy and to maintain levels of employment. In 2018, it is expected that this stimulus will

amount to BNOK 255. This also means that public authorities will continue to invest in sectors such as infrastructure, roads and railways. Moreover, huge sums are being invested in health, schools and cultural buildings and a good level of investment is being maintained in the municipal sector. This will lead to a good market for planning and for our industry.

The consultancy industry in Norway – strong concentration, increased international competition and a need for cost control

The consulting industry in Norway has become more and more international, both in terms of ownership and competition in the Norwegian market. In 2017, approximately 40 % of employees in RIF – Association of Consulting Engineers are wholly or partly owned by international consultancy groups. If we include international groups working in Norway that are not associated with RIF, this figure is even higher.

Activity in the market is characterised by the fact that the 6–7 largest companies have approx. 75 % of the market – i.e. a significant market concentration. This has not led to reduced competition. Turnover per employee and operating results have been reduced from 2014 as a result of tougher competition and a high level of cost in the industry.

To combat this, in the last 10 years the industry has invested a great deal in

the recruitment of younger employees, which has meant that the average age in the industry has fallen by 4 years during the same period.

The market – good activity in the development of infrastructure and energy market; construction market is stable

In Norway, significant funds are being invested in the renewal of infrastructure. New construction and rehabilitation of roads, railways, energy networks and telecommunication is being carried out in order to make the country more competitive and less dependent on oil and gas production.

For the industry and consulting engineers, this offers many exciting opportunities and challenges. These markets are showing good activity.

The building and construction industry, viewed as a whole, has been experiencing continual growth from 2011. As of November 2017, the industry is anticipating stable, good activity in 2017 and 2018. Employment levels in the industry are expected to increase slightly in 2017 and 2018, but now appear to have reached a temporary saturation point.

Production in the building and construction market, apart from oil and gas, has increased by 24 % in the period 2011–2017. The number of employees in the building and construction sector has in the same period increased by 30,000, to 220,000. For 2018 until 2020, production is expected to increase by an extra 3 % per year.

The market for consultant engineers is still expanding, but it is expected to level out a little in 2018. The construction market is expected to increase by 4 % in 2017. The prognoses for 2018 and 2019 show a levelling off, with an increase of approx. 1.0 %. In the construction market (infrastructure), we anticipate an increase in activity in 2017, 2018 and 2019. Investment in this market is expected to increase by 7 % in 2017 and a further 8 % per year up to 2019. The number of employees from 2011 to 2017 has increased by 37 % in RIF companies.



“PRODUCTION IN THE BUILDING AND CONSTRUCTION MARKET ... HAS INCREASED BY 24% BETWEEN 2011 AND 2017.

Consulting engineers – anticipated developments in 2018 and 2019

Norway still has broad economic freedom of action and we will see an increase in resources focused on the following areas:

In total, investments in the building and construction market will increase by 5.6% in 2017, with an anticipated increase of 3.7% in 2018 and 2.7% in 2019. The total market will exceed BNOK 500 in 2018.

Infrastructure

The development and maintenance of infrastructure in Norway is largely governed by public financing. The National Transport Plan 2014–2023 has a total framework plan of BNOK 508. This plan is fulfilled until 2019. The objective of the authorities is to halve the time for completion of the projects, through simplification of the planning processes and organisation of major road and railway projects as dedicated collaborative turn-key projects as an implementation strategy. In order to become less dependent on annual allocations in budgets, a separate state infrastructure fund of BNOK 100 was established. Dividends are earmarked to speed up road projects, more for maintenance of roads, railways and collective transport networks, along with broadband and IT infrastructure. The aim of building up this type of fund is to secure more predictable financing of projects and maintenance.

In 2015, in addition to the Norwegian Public Roads Administration, a separate national road authority was established, "Nye veier" (New roads), that has been assigned the task of carrying out the development of 6 selected stretches of motorway from 2016–2022, with a total cost of BNOK 148.

In addition, the task of catching up on a major backlog of maintenance of infrastructure has been started. The aim is to quantify the value of public assets and thereby also quantify the backlog of maintenance in annual budgets. Other priorities include simplification of the laws on public procurement, hereunder the development of guidelines for public-private innovative co-operation and

About RIF

► RIF is the industry organization for approved consulting companies in Norway. RIF companies encompass both consulting engineers and other professions and the activities of members are largely associated with the building and construction market. In 2017, RIF has 170 member companies, with approximately 12,000 employees and represents approximately 70% of the independent consulting engineer industry in Norway.

RIF is the member companies' tool for creating the best possible commercial terms by working for improved framework conditions: Politically, financially and in relation to assignment providers.

From the association's strategy 2016–2020:

- Increase the level of knowledge in society of members' independent role, value creation and social responsibility
- Promote socially beneficial and sustainable solutions and be the preferred expert source in the area
- Adopt a clearer role in relation to social drivers such as climate challenges, sustainability and digitalisation
- Reinforce relations and enter into close dialogue with prioritised industry organisations, public and private operators (clients and premise providers)
- Gain a common understanding of challenges across the entire industry



Liv Kari Hansteen, RIF



Clas Svanteson, RIF

- Promote developmental and long-term supplier strategies with clients (completion models)
- Promote value-based procurement and completion, in addition to standard contracts
- Safeguard consultants' interests through relevant legislation and regulation work and standards
- Develop a common platform to strengthen the BAE industry's impact and competitive strengths

Liv Kari Hansteen, Managing Director, RIF
Clas Svanteson, Manager RIF insurance services

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at the same time a desire for standardisation of solutions.

These objectives have been carried forward and concretised in the 2018 budgets. For consulting engineers, the public budgets will result in good developments in the level of activity in public building works and continued investment in public infrastructure.

In summary, the expectation is that planning needs and investment in the construction market will increase in 2017 and 2018. This is particularly true of public industrial buildings. A moderate decrease in private building projects will mean a good level of activity overall. In 2017, as in the year before, more is being invested in the construction and maintenance of buildings than was invested in the oil and gas sector.

There is a high level of activity in the construction market (infrastructure) for consulting engineers, and a large number of (in part major) projects are in the planning and implementation stage. Investments on this market are expected to increase by 7% in 2017. For 2018 and 2019, production is expected to increase by 8% p.a.

The most stable part of this market has been the roads sector – roads, bridges and tunnels (50% of the construction market). These are projects that have largely been financed by public allocations and toll charges, meaning that it has been possible to maintain a steady level of activity. Investments in roads are expected to increase by 21% in 2017 with an expected further increase of approx. 15% in 2018 and 2019. Railways

“INVESTMENTS IN THE BUILDING AND CONSTRUCTION MARKET WILL INCREASE BY 5.6% IN 2017, 3.7% IN 2018 AND 2.7% IN 2019.

and tramways is also an area earmarked for new investment and development. Investments have increased in 2017, and will increase further in 2018 and 2019.

Construction and investments in energy generation plant is expected to level off in 2018. This market encompasses the modernisation of power plants, investments in new forms of energy and infrastructure for line construction, distribution and energy export.

RIF companies' expectations concerning order reserves as of October 2017 show the same trend. The order reserve has improved since the autumn of 2016.

Backlog in refurbishing existing buildings and infrastructure

There is a significant backlog in investment in public works, in particular concerning refurbishment of existing buildings and infrastructure.

In the spring of 2015, RIF published a Norwegian version of a State of the Nation (SotN) report, based on similar reports published in the USA, Finland, Denmark and the United Kingdom. The report was broadly distributed and followed up by RIF as a basis for political prioritisation at both local and national levels. The next edition will be published

in 2020.

RIF has seen that the report has been used, and it has encouraged the authorities to seek dialogue and use the report as a tool in forming policies in a number of prioritised areas. From 2014, the authorities have quantified public assets and thus showed the maintenance backlog in their annual budgets.

RIF (Association of Consulting Engineers) has calculated that the backlog in 2015 is BNOK 2,600. This is most critical for railways, sewage systems, county roads and prisons. For these, functionality and reliability is threatened. Also revealed is a great need in regard to public buildings – two thirds of buildings are categorised as unsatisfactory or poor. There is a corresponding picture for hospitals, where over a third of hospital buildings are unsatisfactory. In addition, the rate of replacement for water supply systems is so low that this will lead to an increased risk of insufficient supplies of water to Norwegian households and to contaminated drinking water.

The authorities show willingness to carry out comprehensive political and practical reforms in order to increase investments in these sectors. RIF's contribution is a desire to cooperate in practical areas such as inadequate capacity and

competence to stimulate more effective implementation of projects. In this process, RIF is focusing on ensuring satisfactory contract and framework terms and conditions for members and for follow-up of budget processes. Allocation of funds and prioritising necessary maintenance and refurbishment otherwise appears to be a difficult political exercise.

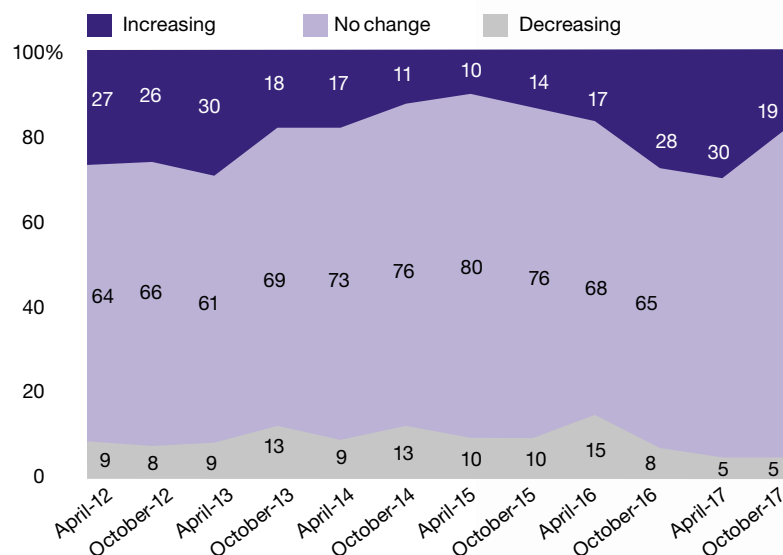
The green shift

Norway signed the Paris Agreement in the spring of 2016. This means that Norway will accept a conditional obligation to reduce emissions by 40% by 2030 compared to 1990.

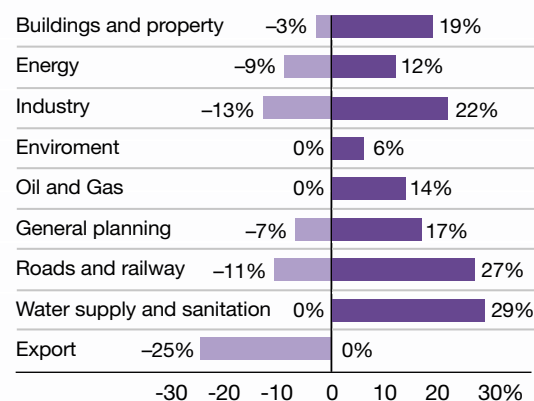
The government's objective is that Norway, and Norwegian companies, shall be early adopters and become a leading nation in the green shift. New technology and new business models will make the green shift a competitive advantage for Norway and create new growth, jobs and welfare.

Norway aims to carry out the process jointly with the EU in order to reach climate goals for 2030. The consequences for Norway will first and foremost be an obligation to achieve significant reductions in emissions, for example in construction, the transport sector and agriculture. A final agreement between Nor-

Expected order stock in 3 months 2012–2017



Expected change in order stock in 3 months per market segment



Development in companies' order reserves during the last six months distributed between business areas. The blue column indicates the share that has performed "better than forecast" while the grey column indicates the share that has performed "lower than forecast".



way and the EU is naturally expected after the EU regulations have been approved at the end of 2017.

The climate goals for 2020 and 2030 will be guiding for the new National Transport Plan 2018–2029 (NTP), with increased focus on, among other things, city infrastructure plans, more collective solutions, transfer of goods from roads to railways and sea transport, along with stricter standards for environmentally-friendly solutions.

Increased focus on digitalisation and new technology

Digitalisation and new technology has been given major focus in Norway in recent years. Major state building owners such as Statsbygg, Jernbaneverket, "Nye veier" and Helsebygg are focusing heavily on digitalisation and new technology to increase efficiency in both the planning and construction phase and the operations/maintenance phase.

Norwegian consultancy firms are at the forefront in the exploitation of opportunities that lie within new technology, and have received a number of international awards, among others for the use of BIM. RIF has been very active in encouraging state building owners to request fully digital projects. Statsbygg has now indicated that they will do this in the future. The joint project Ringerikesbanen and the new E16 to Hønefoss are joint projects in which consultants, in cooperation with building owners simultaneously operate project design and advanced planning on a 100% digital platform. This has become a reference project for effective communications expansion in Norway.

Some exciting projects

Rail and road. The largest individual projects in the transport sector during the years ahead is the new railway heading south from Oslo, the so-called Follobanen. An investment of BNOK 29 will be invested in the project up to 2022. A corresponding project is planned between Sandvika and Hønefoss – (the Ringerike Line), where a new railway and parallel motorway is to be built. The project is estimated to cost BNOK 27.

Major investments will be made in the Norwegian railway system through a number of projects during the next 10–20 years. In addition to this, there are ongoing investments in tramways and rail to improve punctuality and increase capacity in order to serve a growing population in and around the larger towns and cities. The City Line, new Ulriken tunnel in Bergen and Fornebu Line in Oslo are examples of larger projects.

A number of major motorway projects are also in the planning and construction stage, with focus on major road, bridge and tunnel projects designed to link regions and reduce threats posed by avalanches and land/rockslides. Examples of larger projects that are presently in the planning phase, where construction works are expected to begin in 2017 and 2018, are several stretches of the European highways E6 and E18 where investment totals approx. BNOK 60. At the Norwegian west coast, plans are under way for continuous improved, ferry free roads with improved protection against land/rockslides and avalanches.

E39 Rogfast is the largest road project here in 2017 and 2018, with investment of BNOK 10.5.

Energy. The need to develop trade and industry, increased energy prices and the demand for renewable energy has resulted in the planning and implementation of several exciting projects. Investments are being made in new hydroelectric plants, older generating plants are being refurbished and new small-scale generation plants are being constructed in order to increase the capacity for renewable energy. In 2017 and 2018, approx. BNOK 6.7 will be invested in new wind and water power. Grid capacity for the transport and export of energy is being increased and almost BNOK 160 is being invested over a 15-year period in order to secure safer and higher capacity power distribution in Norway and to Europe.

Cultural buildings. The new National Museum, the new Munch Museum and a new main library in Oslo are under construction. And several large state, county and municipal cultural cen-

tres are being planned and constructed throughout the country.

New government buildings. After the terrorist attack on the government and ministerial buildings, a major, comprehensive planning process has been started to construct completely new government buildings in Oslo. This is calculated to cost over BNOK 10 and planning has started in 2017.

International projects. Almost 40% of employees in Norway work for companies that are owned by foreign consultancy groups, primarily serving the Norwegian market.

An attractive domestic market, with lower ethical and commercial risks along with a high cost level for consulting engineers from Norway has resulted in that Norwegian consulting engineering companies have been less active in international enterprises.

The export stake, which represents approx. 5% of turnover, is stable.

Continued increased concentration in the industry; 2017 is characterised by consolidation and strengthening of competitive ability

In Norway, there is a major concentration in the industry with 6–7 larger consulting enterprises. These now have over 75% of all employees in RIF. Growth in 2016 and 2017 is largely characterised by organic growth. RIF companies have been good at hiring newly qualified engineers, scientists, social scientists and architects. We have seen some acquisitions; however, these have been small in size and have not led to restructured strategies in the industry. These have been acquisitions designed to bolster professional skills and/or local and international market positions.

Some interesting acquisitions and mergers in 2017:

- Multiconsult AS has purchased 100% of the Norwegian consultancy firm Hjeltnes Consult AS, with approx. 250 employees in Oslo.
- WSP has purchased the company Høyer Finseth AS in Oslo with approx. 100 employees.

A THRIVING NORWEGIAN ARCHITECTURAL MARKET



The size of the architectural market in 2016 was approximately NOK 8.5 billion, up 11.7% from the previous year. The office segment lowered the overall growth somewhat, while all other segments contributed positively. The housing segment contributed most towards the growth.

A successful 2016

We estimate that about ¾ of the market, approximately NOK 6.3 billion in 2016, is architecture engineering. Other architectural activities amount to about NOK 2.3 billion, of which approximately NOK 1.7 billion is planning and regulation work. Works associated with housing architecture engineering is by far the largest segment, but works in conjunction with commercial buildings (offices, other industries and public sector) is overall a larger market.

The architectural market has seen two years of very solid growth. This is predominantly due to strong house price growth, which has led to robust growth in the start-up of new apartments. Growth in the housing segment was at an impressive 17% in 2016. Slower business demand led to a 3% decline for the office segment in the architectural market, while increasing transport and investments in power lines contributed to the fact that architectural services within construction increased by 20.5% last year.

In public statistics, many companies state that they are in the business of “architectural services”, but they do not qualify for membership of the association. This applies, for example, to some property developers, carpenters and designers. Statistics Norway’s figures for the total market are therefore larger than the calculations of the Association.

Looking ahead

The report for 2017 shows that the Norwegian architectural market now is moving away from housing. For the forecasted period of 2017–2019, the construction market is expected to grow faster annually than the architectural market. This is because growth in the future construction market will be driven by facilities, where the architects’ share of

project costs is low. This is shown in the latest annual market report developed by Prognosesenteret, commissioned by The Association of Consulting Architects.

In the field of architectural design and engineering, Prognosesenteret expects the office segment to be the strongest grower in 2017. The expected 4.6% growth this year will more than cover the decline of the last two years. The survey was discussed in the paper *Finansavisen* on Monday 29th of May 2017, together with a complementary interview with Magne Wiggen in MMW Architects.

In 2018 the public buildings segment is expected to increase the most, while building and construction will see the largest increase in 2019.

Increased housing investment will continue to yield growth this year, but the peak for the housing segment in the architectural market is expected to be reached in 2017. The next two years there is an expected decline in this segment. In 2018, the growth contribution from public construction will increase significantly, among other things due to work on the new government quarters and in the hospital sector.

“The decline in the housing market is natural. The stable rental market indicates that there is no real housing shortage, and an unusually high housing production in 2016 and 2017 must therefore be corrected. The commercial buildings’ segment is forecasted to grow, but insufficiently for the construction side to maintain the volume from this year. The construction side, on the other hand, continues to grow, but this does not contribute towards many jobs for architects, and we must expect a somewhat weaker home market for them in 2019,” says Egil Skavang, Managing Director of The Association of Consulting Architects.

“Regarding exports, however, the

market is substantial. A recent survey conducted by Innovation Norway, the Ministry of Foreign Affairs, Design and Architecture Norway (DOGA) and The Association of Consulting Architects shows that Norwegian architecture and architectural services are highly ranked and in demand. We believe that improved cooperation between architectural firms wanting to be part of an international reality, and the policy implementation system, can lead to real growth in exports of Norwegian architecture,” says Skavang.

Increasingly positive office managers

The Association of Consulting Architects conducts a semi-annual business survey among the members’ office managers. They are asked about their last six months’ order backlog, in relation to the present and expected order backlog six months ahead. They also respond to questions on number of employees, and the distribution of sales in different segments.

Throughout 2016 and 2017, office managers have expressed increased optimism.

In February 2017, the business cycle report showed that directors of architectural firms had experienced a positive autumn in 2016. They expected increased turnover and new jobs towards the summer of 2017. Architectural firms are the first to notice upswings and downturns in the entire construction industry.

“We conduct this industry survey in order to feel the pulse of the market, and for our members to make informed choices,” says Managing Director Egil Skavang.

A positive autumn

When the office managers in February 2017 looked back six months in time, 38 percent had a bigger order backlog than they had right over the summer, compared to 21 percent who now had a smaller order backlog. The largest offices were the ones reporting greatest growth in the order backlog. As many as 49 percent of Oslo’s offices reported an increased order backlog. The market is slowest in central Norway, where 30 percent reported a smaller order backlog, although also as many as 33 percent still state that it is higher.

“THE SIZE OF THE ARCHITECTURAL MARKET IN 2016 WAS APPROXIMATELY NOK 8.5 BILLION.

In August, there were some regions where the firms' order backlog in total were negative. Now (in January 2017), the totality of firms in all regions have a positive order backlog.

Growth in the housing market

Turnover has increased within housing and planning, while it has decreased in office, industry and public buildings. In western Norway, more offices also report that they expect increased exports.

“It is particularly pleasing that there now is a lighter mood in western Norway. They have had a tough time,” says Skavang.

The office managers report that they now have more employees than they had in August. Especially large firms and firms based in Oslo have hired new employees.

Strong faith

In the time to come, managers expect to increase their order backlog. 29 percent of firms expect to increase their order backlog, compared to 25 percent in August 2016. Nine percent expect lower order backlogs, compared to 11 percent in August. The office managers see a brighter future now than they did right after the summer. In all regions, except for northern Norway, there is a general optimism. This applies especially to Oslo. The smaller firms are least optimistic. The highest market expectations are found in planning and housing.

Regarding the number of future employees, the office managers expect to keep staff at an architectural income of NOK 722,879 in 2016.

This year's income statistics show that the average salary for 2,018 master-educated employees at the member firms of the Association of Consulting Architects was NOK 722,879. This shows an average increase of 3.3 per cent from 2015.

The income statistics of The Association of Consulting Architects are based on information from our members, including salaries, education level and final examination year. All part-time positions are converted to full-time in the statistics. The numbers are compiled in December. The managers have reported

About Arkitektbedriftene

► **Arkitektbedriftene (The Association of Consulting Architects)** is the industry and employers' organization for firms with practicing architects, plus landscape and interior architects in Norway.

As an association of consulting architects, we will actively contribute to Norway having a qualified and competitive architectural industry that takes corporate social responsibility and provides services that meet the needs of the market and construction projects.

The association shall:

- Provide tools and services that help increase business profitability
- Stimulate and follow up research and development in architecture and engineering
- Through our influence and our courses, assure top international quality in Norwegian architectural education
- Have an open, active and modern communication with our surroundings

In order to achieve these goals, The Association of Consulting Architects in Norway embraces three strategies regarding:

- The project Architecture creating value
- The future architectural market
- The future architectural firm

Some numbers:

As of January 1, 2017, 589 architectural offices /523 architectural firms are members of the Association of Consulting Architects. 16 of them are trainee offices. 82 of them are part of our collective agreement with AFAG and other trade unions. The companies have 4441 employees, divided into 4228 man-years. 3539 of the employees are architects.

The administration consists of eight permanent employees and three dedicated project managers. We are located in Essendrops gate 3 at Majorstuen in Oslo,



Berit Solli, ARK



Egil Skavang, ARK

where we are co-located with the Association of Consulting Engineers. We are also neighbours with the Norwegian Confederation of Enterprises, where most industry associations in the fields of buildings, facilities and real estate are located.

The Association of Consulting Architects have contact with several expert committees, whose members are employed at member offices. The expert committees are our most important professional resource. The committees work on themes central to our profession and they conduct research work and give input to the association's strategy and action plan. The Association of Consulting Architects have agreed several committees working within their respective fields to the benefit of the member companies. When a committee has delivered upon its mandate it is usually terminated, or might be changed according to needs.

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Communication Advisor: Berit Solli

a total of 2435 employees' salaries. This comprises somewhat more than 50 percent of all their office employees.

Average payment for all cohorts

| Statistics 2016 | Number | Annual income | Average examination year |
|-------------------|--------|---------------|--------------------------|
| Master | 2 018 | 722 879 | 2001 |
| Bachelor | 187 | 623 456 | 2000 |
| Vocational school | 119 | 585 435 | 1992 |
| Other | 111 | 589 804 | 1993 |
| Total amount | 2 435 | 706 778 | 2000 |

THE TOP 100 NORWEGIAN CONSULTING ENGINEERING AND ARCHITECTURAL GROUPS

| | 2017 | 2016 | Group | Service | Annual report | Turn-over MDKK | (previous year) | Average number of employees | Tot. Balance sheet MDKK | CEO/Managing director |
|--------|------|------|---|--------------|---------------|----------------|-----------------|-----------------------------|-------------------------|--|
| RIF/AB | 1 | 1 | Norconsult AS | MD | 16 | 4236.0 | 3975.0 | 3250 | 2100.0 | Per Kristian Jacobsen |
| RIF/AB | 2 | 2 | Multiconsult | MD | 16 | 2968.0 | 2554.0 | 2344 | 1382.0 | Christian Nørgaard Madsen |
| RIF | 3 | 3 | SWECO Norway | MD | 16 | 2020.0 | 1905.0 | 1492 | 1009.0 | Grete Aspelund |
| RIF | 4 | 5 | COWI AS | MD | 16 | 1609.0 | 1568.2 | 1203 | 633.6 | Egil Bøckmann |
| RIF/AB | 5 | 4 | Rambøll Norway | MD | 16 | 1587.0 | 1647.0 | 1416 | 823.4 | Ole Petter Thunes |
| RIF | 6 | 6 | ÅF Norway * | M,E,Enr, I | 16 | 1124.0 | 1200.0 | 650 | 1400.0 | Rune Hardersen |
| RIF/AB | 7 | 7 | Asplan Viak group | MD | 16 | 1089.0 | 1080.3 | 984 | 475.9 | Øyvind Mørk |
| RIF | 8 | 8 | Dr Ing A Aas-Jakobsen AS | CE, PM | 16 | 750.0 | 690.7 | 163 | 320.9 | Trond A. Hagen |
| | 9 | 11 | Rejlers Norge (incl. Embriq) * | E | 16 | 691.0 | 285.0 | 393 | 270.0 | Thomas Pettersen |
| RIF | 10 | 9 | WSP Norway | PM | 16 | 433.4 | 400.5 | 280 | 247.5 | Knut Jonny Johansen |
| | 11 | 12 | OEC Group | Enr,I,PM | 16 | 270.8 | 284.9 | 141 | 163.1 | Knut Hegge |
| RIF | 12 | 10 | Hjellnes Consult AS | MD | 16 | 266.1 | 306.9 | 230 | 94.4 | Geir Knudsen |
| AB | 13 | 14 | Nordic Office of Architecture | A | 16 | 220.6 | 230.1 | 134 | 77.5 | Erik Urheim |
| RIF | 14 | 13 | ViaNova-group * | CE, Env, E | 16 | 193.0 | 284.0 | 122 | 100.0 | Syrtevit, Paulsen, Selvik et al |
| | 15 | 15 | Techconsult AS | PM,I | 16 | 165.1 | 182.6 | 60 | 48.1 | Ronny Meyer |
| | 16 | 18 | OPAK A/S | PM,Env,Enr,E | 16 | 155.9 | 164.2 | 122 | 53.3 | Jan-Henry Hansen |
| RIF | 17 | 20 | Erichsen & Horgen A/S | M | 16 | 154.1 | 146.7 | 143 | 56.0 | Arne Jorde |
| AB | 18 | 16 | Snohetta Group * | A | 16 | 152.9 | 176.6 | 180 | 77.8 | Frydenlund, Molinar, Greenwood |
| RIF | 19 | 21 | Holte Consulting AS | PM | 16 | 135.0 | 137.2 | 67 | 44.6 | Trygve Sagen |
| | 20 | 22 | Pöyry Norway As | I | 16 | 132.5 | 136.3 | 53 | 47.9 | Jon Terje Julsen |
| RIF | 21 | 29 | ECT AS | E | 16 | 125.2 | 109.2 | 105 | 59.3 | Dag Otto Winnæss |
| RIF | 22 | 23 | Unionconsult * | M, E, Env | 16 | 118.7 | 130.2 | 148 | 63.0 | Løkke, Young & Berntsen |
| AB | 23 | 19 | Ratio Arkitekter AS | A | 16 | 115.4 | 162.7 | 50 | 34.5 | Per Anders Borgen |
| RIF | 24 | 27 | Dr. Techn Olav Olsen AS | PM,CE,Env | 16 | 114.8 | 117.8 | 94 | 46.7 | Olav Weider |
| | 25 | 24 | Atkins Norway | Enr | 16 | 111.6 | 129.8 | 71 | 74.2 | Pierre Henrik Bastviken |
| | 26 | 17 | Insenti AS | PM | 16 | 110.2 | 175.5 | 32 | 71.0 | Bjørn Grepperud |
| | 27 | 31 | Arcasa Arkitekter AS | A | 16 | 105.7 | 80.1 | 52 | 52.1 | Per Erik Martinussen |
| | 28 | 25 | Semcon Norway * | I | 16 | 94.5 | 127.0 | 104 | 32.0 | Hans Peter Havdal |
| | 29 | 206 | Hipas Design AS | A | 16 | 92.2 | 69.0 | 15 | 15.9 | Kjell Magne Ruud |
| | 30 | 26 | DARK Gruppen * | A | 16 | 89.2 | 122.2 | 75 | 29.0 | Geir Gustav Hantveit |
| RIF | 31 | 49 | Structor Norway * | CE,E | 16 | 83.0 | 42.8 | 67 | 35.0 | Snippen, Horn, Sundfær et al |
| | 32 | 30 | Teleplan Consulting AS | E | 16 | 81.5 | 81.3 | 29 | 30.6 | Jan Haakon Gulbrandsen |
| AB | 33 | 201 | Tegn 3 AS | A | 16 | 79.1 | 78.5 | 58 | 25.4 | Siri Hunnes Blakstad |
| AB | 34 | 32 | Lpo Arkitekter As | A | 16 | 77.7 | 74.8 | 74 | 30.1 | Hilde Sponheim |
| AB | 35 | | A-LAB AS | A | 16 | 68.5 | 52.1 | 54 | 43.0 | Geir Haaversen |
| RIF | 36 | 35 | Brekke & Strand Akustikk AS | Env | 16 | 68.1 | 66.1 | 70 | 24.9 | Ingjerd Aaraas |
| RIF | 37 | 34 | Ingeniør Per Rasmussen AS | E | 16 | 66.5 | 67.0 | 25 | 30.1 | Per H. Rasmussen |
| AB | 38 | 39 | Lund & Slaatto Arkitekter AS | A | 16 | 65.9 | 55.7 | 51 | 36.8 | Åse Helene Mørk |
| AB | 39 | 37 | Hille Melbye Arkitekter AS | A,PM | 16 | 65.8 | 60.7 | 55 | 35.8 | Anna Marie Christensen |
| RIF | 40 | 55 | IPD Norway AS | PM, E | 16 | 62.4 | 38.7 | 38 | 15.1 | Aksel Østmoen |
| RIF | 41 | 33 | Dimensjon Rådgivning AS | Env | 16 | 61.7 | 67.5 | 53 | 23.4 | Jon Halvar Eiane |
| AB | 42 | 38 | Lund Hagem Arkitekter AS | A | 16 | 60.0 | 57.5 | 57 | 25.3 | Mona Anette Sævareid Carlmar, Mette Røsebekk |
| AB | 43 | 57 | Arkitektkontoret Nils Tveit AS | A | 16 | 59.4 | 38.0 | 17 | 20.5 | Nils Martinus Tveit |
| AB | 44 | 208 | Mad Arkitekter | A | 16 | 58.9 | | 59 | 20.6 | Åshild Wangersteen Bjørvik |
| AB | 45 | 48 | Tag Arkitekter AS | A | 16 | 56.3 | 44.1 | 52 | 23.2 | Lars Eirik Ulseth |
| AB | 46 | 207 | Narud Stokke Wiig Sivilarkitekter Mnal As | A | 16 | 55.3 | 45.1 | 42 | 23.7 | Lise Rystad |
| AB | 47 | 41 | Niels Torp AS Arkitekter | A | 16 | 54.1 | 51.7 | 41 | 46.7 | Niels A. Torp |
| RIF/AB | 48 | 40 | Nordplan AS | PM,CE,A | 16 | 53.0 | 54.7 | 51 | 17.9 | Arne Steinsvik |
| AB | 49 | 45 | Dyrvik Arkitekter A/S | A | 16 | 52.7 | 44.9 | 48 | 19.4 | Halvor Bergan |
| | 50 | 51 | Efla AS | MD | 16 | 50.2 | 42.1 | 26 | 16.8 | Ragnar Jonsson |
| RIF | 51 | 44 | Bygganalyse AS | PM, CE | 16 | 49.0 | 45.6 | 32 | 29.2 | Frank Henry Roberg |
| | 52 | 66 | Techni AS | I | 16 | 48.3 | 34.1 | 37 | 26.1 | Dag Almar Hansen |
| AB | 53 | 53 | ØKAW AS Arkitekter | A | 16 | 47.8 | 41.2 | 28 | 16.9 | Margrethe Benedikte Maisey |
| AB | 54 | 43 | Abo Plan & Arkitektur As | A | 16 | 46.2 | 45.9 | 42 | 18.8 | Arne Kristian Kolstad |
| RIF | 55 | 46 | Prosjektutvikling Midt-Norge AS | PM,CE | 16 | 46.1 | 44.3 | 32 | 22.9 | Nina Lodgaard |
| AB | 56 | 54 | PKA - Per Knudsen Arkitektkontor AS | A | 16 | 45.9 | 40.5 | 42 | 20.6 | Reidar Klegseth |
| | 57 | 60 | AMB Arkitekter AS | A | 16 | 45.3 | 37.0 | 41 | 23.9 | Michael Bowe |
| AB | 58 | 56 | Enerhaugen Arkitektkontor As | A | 16 | 42.0 | 38.1 | 36 | 18.8 | Bente Nygård |
| | 59 | 62 | HRTB AS (Architects) | A | 16 | 41.3 | 35.3 | 38 | 19.6 | Tove-Christin Eidskrem |
| AB | 60 | 64 | OG Arkitekter AS | A | 16 | 40.7 | 34.2 | 55 | 21.2 | Osmund Olav Lie |
| RIF/AB | 61 | 50 | PLAN1 AS | CE,A,PM | 16 | 40.5 | 42.2 | 34 | 18.9 | Knut Andersen |
| RIF | 62 | 65 | Grunn Teknikk AS | PM,CE | 16 | 39.7 | 34.1 | 15 | 14.7 | Geir Solheim |
| AB | 63 | 73 | 4B Arkitekter AS | A | 16 | 39.0 | 32.4 | 37 | 20.1 | Kari Linderud |
| RIF | 64 | 47 | Itech AS | M,E | 16 | 38.8 | 44.1 | 30 | 15.8 | Håvard Olsen Wiger |
| | 65 | | Grindaker AS | A | 16 | 37.4 | 36.8 | 32 | 13.1 | Per Heikki Granroth |
| | 66 | 52 | L2 Arkitekter AS | A | 16 | 36.9 | 41.9 | 24 | 20.6 | Jon Flatebø |

RIF = Member of RIF, the Association of Consulting Engineers, Norway. AB = Member of Arkitektbedriftene (architects association in Norway).

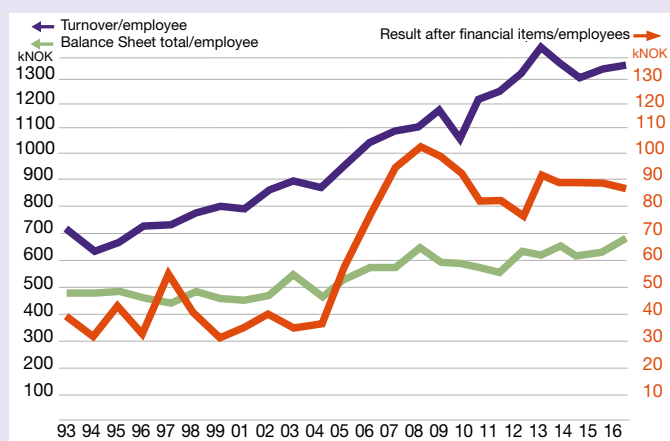
(*) = lack of conforming figure/proforma/assumed - = missing figure PM = Project Management,

A = Architecture, CE = Civil/Structural Engineering, Env = Environment, Enr = Energy, E = Electrical, M = Mechanical/HEVAC, I = Industrial, MD = Multi Disciplinary



| 2017 | 2016 | Group | Service | Annual report | Turn-over MDKK | Average (previous year) | Tot. number of employees | Balance sheet MDKK | CEO/Managing director |
|------|------|--|----------|---------------|----------------|-------------------------|--------------------------|--------------------|---|
| 67 | 67 | Halvorsen & Reine AS (Arkitekterne) | A | 16 | 36.7 | 33.6 | 24 | 21.0 | Øystein Rognbakke (chairman), Aina Lian |
| 68 | 70 | Alliance Arkitekter AS | A | 16 | 36.4 | 32.9 | 40 | 10.3 | Terje Morten Eidsmo |
| 69 | 205 | Opus Bergen AS | A | 16 | 36.3 | 36.6 | 27 | 14.6 | Nancy Jøssang |
| 70 | 80 | Metropolis Arkitektur & Design AS | A | 16 | 35.3 | 29.8 | 27 | 16.0 | Hanne Arvik |
| AB | 71 | Arkitektene Astrup & Høllern AS | A | 16 | 35.0 | 34.6 | 28 | 19.5 | Åke Letting |
| RIF | 72 | ElectroNova AS | E | 16 | 35.0 | 35.7 | 23 | 24.3 | Trond Einar Kristiansen |
| RIF | 73 | Siv. ing. Stener Sørensen AS | CE | 16 | 35.0 | 33.1 | 24 | 10.7 | Bo Reinhold Gunsell |
| 74 | 68 | SJ Arkitektur (Solheim + Jacobsen) AS | A | 16 | 34.5 | 33.4 | 21 | 13.8 | Anne Sudbø |
| 75 | 202 | Room2Room AS | A | 16 | 34.4 | 44.4 | 3 | 11.4 | Henrik Petersson |
| 76 | 58 | Ingeniørfirmaet Malnes Og Endresen AS | E | 16 | 33.7 | 37.9 | 23 | 11.0 | Roger Malnes |
| 77 | 203 | Bjørbeek & Lindheim AS | A | 16 | 33.6 | 34.2 | 26 | 13.1 | Line Løvstad Nordbye |
| RIF | 78 | Fokus Rådgivning AS | CE | 16 | 33.4 | 30.2 | 18 | 12.6 | Jan Ole Myrland |
| RIF | 79 | Fylkesnes AS | CE,PM | 16 | 32.9 | 23.6 | 15 | 11.3 | Geir Hansen |
| AB | 80 | AT Plan & Arkitektur AS | A | 16 | 32.9 | 24.7 | 24 | 15.3 | Mette Hoel |
| RIF | 81 | Løvlien Georåd AS | Env | 16 | 32.5 | 30.0 | 14 | 14.8 | Per Løvlien |
| AB | 82 | Iark AS | A | 16 | 32.1 | 32.4 | 29 | 13.3 | Hanne Margrethe Kjelland Hjermann |
| AB | 83 | Spir Arkitektur AS | A | 16 | 32.0 | 31.9 | 28 | 11.5 | Sven Gitlesen Krohn |
| AB | 84 | Arkitektgruppen CUBUS A/S | A | 16 | 31.3 | 32.7 | 26 | 11.9 | Odd Eilert H Mjellem |
| AB | 85 | LOF Arkitektur AS | A | 16 | 31.3 | 37.9 | 23 | 11.4 | Sverre Jørgen Olsen |
| AB | 86 | Børve Borchsenius Arkitektur As | A, PM,CE | 16 | 31.2 | 28.4 | 27 | 15.8 | Jan Olav Horgmo |
| RIF | 87 | Ivest Consult AS | CE | 16 | 30.8 | 28.5 | 35 | 10.0 | Jan Inge Hage |
| AB | 88 | Kristin Jarmund Arkitektur AS | A | 16 | 30.7 | 27.6 | 23 | 14.8 | Kristin Jarmund |
| 89 | | AS Scenario Interiørarkitektur MNIL | A | 16 | 30.6 | 24.3 | 26 | 11.9 | Linda Steen |
| RIF | 90 | Stærk & Co as | PM, CE | 16 | 30.5 | 27.9 | 27 | 17.1 | Jan Lindland |
| 91 | | HMY Nordic AS | A | 16 | 30.3 | 2.5 | 11 | 11.9 | Troy Abrahamsen |
| AB | 92 | PIR II architects AS | A | 16 | 29.7 | 26.8 | 48 | 11.2 | Miriam Katerine Chada |
| RIF | 93 | Roar Jørgensen AS | PM,CE | 16 | 29.5 | 25.2 | 26 | 15.7 | John Dæhli |
| 94 | | Ysadesign AS | A | 16 | 29.1 | 19.9 | 21 | 12.3 | Anne Mari Gullikstad |
| AB | 95 | Arc Arkitektur AS | A | 16 | 28.8 | 31.1 | 27 | 19.3 | Kjersti Hilde |
| AB | 96 | Kristiansen & Bernhardt Arkitektur Interiør AS | A | 16 | 27.6 | 22.1 | 31 | 19.5 | Renate Ellila |
| AB | 97 | Omega Areal AS | A | 16 | 27.5 | 29.4 | 33 | 16.1 | Gisle Heggebø |
| 98 | | Stein Halvorsen Arkitektur AS | A | 16 | 27.5 | 17.2 | 17 | 14.3 | Stein Halvorsen |
| RIF | 99 | Karl Knudsen As | PM, CE | 16 | 27.5 | 27.4 | 22 | 12.9 | Armstien Garli |
| AB | 100 | Voll Arkitektur AS | A | 16 | 26.9 | 23.5 | 24 | 11.7 | Sigbjørn Berstad |

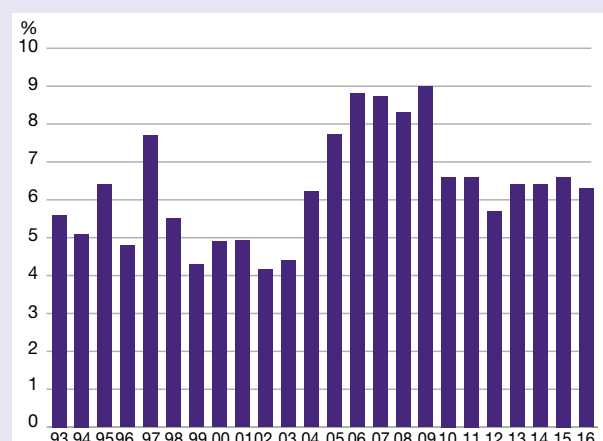
The top 30 Norwegian groups



Generally speaking, it is risky business making direct comparisons between key business ratios for the largest firms and corresponding figures for the medium and small-sized firms. In the case of the latter firms, the extensive efforts of the often many partners have a relatively significant impact on the companies' turnover and profit level per employee.

For firms 31–100 in the above list, turnover in 2016 increased by 12% to approximately NOK 3,006 million (NOK 2,685 million in 2015). The number of employees grew to 2,330 (2,166). The turnover per employee was NOK 1,290,000 (NOK 1,240,000). The profit before tax increased to NOK 136,000 per employee (NOK 121,000). Calculated in terms of profit margin, this gives 10.5% (9.7%). The average balance per employee was approximately NOK 567,000 (NOK 585,000).

Profit margins



Key business ratio 30 largest groups 2016 (previous year)

| | | |
|---|---------------|---------------|
| Turnover per employee | NOK 1,371,000 | NOK 1,349,000 |
| Profit after financial items per employee | NOK 86,000 | NOK 89,000 |
| Balance sheet total per employee | NOK 699,000 | NOK 618,000 |

The turnover for the 30 largest groups grew by 4% to NOK 19,431 million (NOK 18,619 million in 2015). The average number of employees grew by 3% to 14,173 (13,807). The turnover per employee consequently increased to NOK 1,371,000 (1,349,000 the previous year). The profit before tax was NOK 86,000 per employee (89,000). The profit margin for the 30 largest groups in 2016 thereby was 6.3% (6.6% in 2015). The average balance per employee was approximately NOK 699,000 (NOK 618,000).

ICELAND'S ECONOMIC BOOM SETTLES DOWN

GDP growth in Iceland measured 7.4% in 2016, the fastest growth rate since the current upswing began in 2011. It was driven mainly by surging services exports, private consumption, and private investment. Growth is expected to remain robust this year as well, albeit less than in 2016. So far this year, GDP growth (measuring 4.3% in H1) has been sustained by domestic consumption and private investment, plus export growth.

Forecasts assume weaker GDP growth in 2018 and 2019. In particular, domestic demand and exports are expected to slow down. Demand pressures will ease and unemployment will rise. Forecasts indicate that output growth in Iceland will approach that in other industrialised countries, although it will remain relatively strong in overall international context.

Demand pressures in the labour market

Unemployment is now close to an all-time low, and the labour participation rate is near its historical peak. Unemployment measures 2.5% and the employment rate 81%. During this period of strong GDP growth, labour demand has been met to a large degree with imported workers. As output growth has eased, the decline in inflation has lost pace and job creation has slowed. Tensions in the labour market are forecast to subside in the near future, and unemployment is expected to rise somewhat yet remain low in international context.

Wages have risen rapidly in the recent term, owing primarily to generous contractual pay increases. Since the current upswing began, wages are up 7.5% per year, on average, far outpacing those in neighbouring countries. They have also risen well in excess of productivity growth. Added to this is the marked appreciation of the króna during the current upward cycle. The ISK appreciation and the pay rises in excess of productiv-

ity growth have undermined the competitive position of firms in the manufacturing export sector, where the growth rate has stalled.

Inflation low despite steep domestic cost increases

The ISK appreciated virtually unchecked from 2013 through February 2017, fuelled by soaring export revenues, an improved external debt position, and more favourable terms of trade. The appreciation took place in spite of large-scale foreign currency purchases by the Central Bank (CBI), which was building up its foreign exchange reserves prior to lifting the capital controls earlier this year. The recent slide in the ISK can be traced to this liberalisation of restrictions on residents' foreign investment, although a narrower interest rate differential with abroad and a smaller trade surplus are factors as well.

Because of the ISK appreciation and low imported inflation, domestic inflation has remained low in spite of huge cost price increases. Headline inflation has been below the CBI's 2.5% inflation target since the beginning of 2014, making this the longest period of price stability since the target was adopted in early 2001. Inflation will probably rise slightly in the near future, due partly to the weakening of the ISK. Below-target inflation and reduced inflation expectations have enabled the CBI to lower the policy rate in spite of growing demand pressures in the economy.

Surge in private consumption

Significant progress has been made in boosting real wages and disposable household income in the past few years, and real wages are now at an all-time high. Purchasing power has grown much more in Iceland than in key trading partner countries. An important round of wage negotiations affecting the entire labour market is in the offing. It is important to coordinate remuneration policies in discussions with various worker groups and avoid the temptation to play leap-frog in wage-setting. Given the current economic situation and the state of the labour market, it will be challenging to reach agreements providing for pay rises consistent with stability.

Private consumption growth has been rapid in the recent past, as households' financial position has improved vastly, with rising real disposable income and asset prices – particularly in the housing market, where real prices are the highest ever measured in Iceland. Private consumption grew 7.1% in 2016 and 8.3% in H1/2017. The pace will probably ease in the near term, as growth in real disposable income loses traction. Nonetheless, households' financial position is strong at present, making them well prepared to withstand a downturn if it comes.

Economy well balanced externally

Although the domestic economy has grown by leaps and bounds recently, it is well balanced externally, with a current account surplus measuring 7.9% of GDP in 2016. The surplus is expected to be somewhat smaller this year, around 6%, but sizeable nevertheless. This hefty current account surplus is due to several factors: soaring services exports, which have been the main driver of the recent GDP growth phase; favourable terms of trade; and a healthy external debt position. The CA surplus is expected to shrink in the coming term, as the surplus on goods and services trade narrows. This good balance is a sign that



GDP GROWTH IN ICELAND MEASURED 7.4% IN 2016.

the domestic economy will not suffer a hard landing this time.

Both the number of tourists visiting Iceland and their spending while in the country have grown swiftly in recent years. This, of course, has been the cornerstone of the surge in services exports, but now there are visible signs that the growth rate is easing. The number of tourists is still rising, but less quickly than before. Average spending per tourist has contracted as well, as has the average length of stay. The economic boom fuelled largely by rising tourist numbers is making Iceland a more expensive destination, with the associated impact on the exchange rate and wages.

Favourable terms of trade have been a major factor in the recent current account surplus. Oil prices have been favourable for Iceland, an oil importer. Global aluminium prices have been on the rise, and foreign currency prices of marine products have been relatively high. Terms of trade are expected to remain broadly favourable for Iceland.

Investment level acceptable

Investment took a while to pick up during the current upswing, and the investment-to-GDP ratio was low for a long time, hovering around 15% until 2013. A major cause of this was the financial position of households and businesses, both of which were hit hard by the 2008 crisis. In addition, public investment was limited because of the poor financial position of the central government and many local governments. In the past three years, however, investment growth has been brisker, at 15-20% per year, and the investment-to-GDP ratio has risen accordingly, to about 21%, above the OECD average.

Investment has eased in 2017, after a three-year period of rapid growth. Growth measured 5.2% in H1/2017, well below the rate in recent years. In particular, business investment has slowed down, partly due to fluctuations in investment in ships and aircraft. As a share of GDP, however, investment has remained relatively strong. Business in-

vestment growth is forecast to taper off in the near future, but the investment-to-GDP ratio is expected to hold steady at 20-21%, partly due to an increase in public investment and a surge in residential investment by households.

Demand for residential housing has skyrocketed in the past few years, bolstered by improvements in households' financial position and overall population growth, which stems in part from large-scale importation of labour. Added to this is the demand for tourist accommodation, which has been met partly through the sharing economy, with many privately owned flats used for short-term rentals. At the same time, the supply of new flats has been limited, owing in part to a shortage of lots. In this environment, real house prices have surged to an all-time high. Prices have risen in excess of wages, disposable income, and construction costs in the recent term. The housing market appears to be stabilising with an increased supply of new flats, however: sales have slowed, and the pace of house price inflation has eased in the past few months. This trend can be expected to continue if growth in real disposable income, labour importation, and tourism continues to ease and the supply of new housing keeps rising. House price inflation can then be expected to lose momentum at the same time.

Public investment in infrastructure lacking

Public infrastructure investment has been limited during the current upswing, and it has grown very little in spite of improved central and local government finances. Public investment in the road system amounted to 1.0% of GDP in 2016. This ratio has been low for the past six years, averaging 0.9% of GDP, down from an average of 1.6% in the preceding two decades – a period with nothing like the past few years' exponential growth in tourism. In recent years, investment in the road system has not grown commensurate with the road network's increasingly important role in



Ingolfur Bender, Chief Economist SI.

About FRV and SAMARK

► **FRV joined the Federation of Icelandic industries (SI) in 2013 and SAMARK in 2014. Both are independent branch organization within SI, which is a part of the Confederation of employers in Iceland (SA). SAMARK and FRV are a part of one of three pillars of SI – the construction industry. FRV has around 20 member companies and SAMARK around 24.**

Jóhanna Klara Stefánsdóttir, director of the Construction industry at SI manages the daily activities of both SAMARK and FRV.

Ingolfur Bender, Chief Economist SI

value creation. The low level of investment in transport infrastructure has already begun to take its toll, as traffic has mushroomed over this period. Strain on the national road system has never been greater: in the first five months of 2017, traffic on Route 1, the Ring Road, was up 4.4% from the same period five years ago.

According to a recent report on the current situation and outlook for infrastructure in Iceland, prepared by the Association of Consulting Engineers (FRV) and the Federation of Icelandic Industries and entitled State of the Nation, showed that the road system and other infrastructure elements are in poor condition. The report concluded, among other things, that the pent-up infrastructure maintenance need amounts to just over 15% of GDP, which what would be required to re-

THE TOP 17 ICELANDIC CONSULTING ENGINEERING AND ARCHITECTURAL GROUPS

| | 2017 | 2016 | Group | Service | Annual report | Turnover MISK | (previous year) | Average number of employees | Tot. balance sheet MISK | CEO/Managing director |
|--------|------|------|--|---------------------|---------------|---------------|-----------------|-----------------------------|-------------------------|------------------------------------|
| FRV | 1 | 3 | Verkís hf. | | MD | 16 | 5960.6 | 5396.9 | 364 | 2151.9 Sveinn Ingi Ólafsson |
| FRV | 2 | 2 | Efla hf. | | MD | 16 | 5922.1 | 5106.6 | 303 | 2253.6 Guðmundur Thorbjörnsson |
| FRV | 3 | 1 | Mannvit hf | | MD | 16 | 5743.8 | 5268.0 | 282 | 3128.6 Jón Már Halldórsson |
| FRV | 4 | 4 | VSÓ Ráðgjöf ehf. | | MD | 16 | 1250.0 | 1100.0 | 70 | 495.0 Grímur Már Jónasson |
| FRV | 5 | 7 | Lota ehf | | CE | 16 | 829.0 | 476.0 | 49 | 275.0 Pétur Örn Magnússon |
| FRV | 6 | 5 | Ferill ehf., verkfræðistofa | CE, PM, M, Env | | 16 | 702.7 | 535.6 | 27 | 346.6 Ásmundur Ingvarsson |
| SAMARK | 7 | 8 | Arkís ehf. | A, PM, Env | | 16 | 612.0 | 405.0 | 29 | 197.5 Þorvarður Lárus Björgvinsson |
| SAMARK | 8 | 9 | THG Arkitektar | A, PM | | 16 | 513.1 | 390.0 | 28 | 276.5 Halldór Guðmundsson |
| FRV | 9 | | Raftákn ehf | | CE | 16 | 489.7 | 432.0 | 30 | 118.1 Arni V. Fridriksson |
| FRV | 10 | 6 | Hnit hf. | PM, CE, Enr, E, Env | | 16 | 460.4 | 466.3 | 35 | 175.4 Harald B. Alfreðsson |
| SAMARK | 11 | 11 | Tark Arkitektar (Tark – Teiknistofan ehf.) | PM, A | | 16 | 440.2 | 320.3 | 26 | 181.2 Ivon Stefán Cilia |
| FRV | 12 | 15 | Verkfræðistofa Suðurnesja ehf. | PM, CE, Enr, E, Env | | 16 | 392.9 | 276.8 | 21 | 156.3 Brynjólfur Guðmundsson |
| SAMARK | 13 | 12 | ASK arkitektar ehf. | A, PM | | 16 | 348.0 | 241.0 | 23 | 126.4 Páll Gunnlaugsson |
| SAMARK | 14 | 16 | VA arkitektar | A | | 16 | 180.4 | 165.4 | 15 | 65.1 Indro Indriði Candi |
| SAMARK | 15 | 17 | Landmótun sf | A, Env | | 16 | 165.2 | 142.6 | 10 | 86.1 Áslaug Traustadóttir |
| SAMARK | 16 | 29 | Teiknistofa Páls Zóphóníassonar ehf | A | | 16 | 82.2 | 77.5 | 4 | 32 Páll Zóphóníasson |
| SAMARK | 17 | 21 | ARGOS ehf | A | | 16 | 39.4 | 31.3 | 1 | Stefán Örn Stefánsson |

store the infrastructure to good condition where only routine upkeep is needed to maintain it. The need for maintenance is greatest in the road system, government-owned real estate, sewer systems, and energy transport. Maintenance has been sorely lacking in these areas.

The above-mentioned report has given rise to considerable discussion of the position of infrastructure in the Icelandic economy. If recent political discourse is any indicator, it appears that a general awakening to the importance of infrastructure development and maintenance is in the offing. In view of this, public infrastructure investment can be expected to increase in the years to come.

Key business ratio 17 largest groups

| | 2017 | (previous year, 20 groups) |
|----------------------------|------------|----------------------------|
| Turnover/employee | 18.32 MISK | 16.27 MISK |
| Profit before tax/employee | 1.63 MISK | 1.02 MISK |
| Balance/employee | 7.65 MISK | 7.89 MISK |

Turnover for the 17 largest companies in 2016 was 24,132 MISK (20,396 MISK the previous year, then 20 largest) and the average number of employees was 1,317 (1,254). The profit margin grew to 8.9% (6.3%).



MARKET GROWTH STABILISES IN FINLAND



Both domestic and export turnover increased in the Finnish consulting business, but the volatile Finnish market conditions slows down growth and keeps profitability at a low level.

The turnover of SKOL's member companies increased by 6.3 % in 2016. Biggest increase in invoicing took place in infrastructure sector, where invoicing grew by 13 % from previous year. Building and industry sectors turnover grew by 6 %.

Also, the number of staff employed by member companies grew from 16.470 to almost 17.000 employees. The total turnover of Finnish operations of SKOL member companies increased to 1.685 million EUR. The building sector invoiced 624 million EUR, the industrial sector 640 million EUR and the infrastructure sector 371 million EUR.

Most of the growth came from the domestic market. Export growth has biased trends, since the increase in industry sector was only 0.5 % and in infrastructure sector almost 50 % compared to the year

before. Export volumes decreased by 6.7 % in the building sector.

Industrial design and consulting represent over 75 % of the total consulting exports, and it grew by 13 % in 2016. Also, the development-aid exports increased by 12 % to 23 million EUR, but it represents only a small portion of total exports and exports to developing countries. Geographically, roughly one quarter of exports went to EU countries, 10 % to other European countries, one third to Asia and one quarter to rest of the world.

At the end of 2016 Ramboll Finland was the largest consulting firm operating in Finland, followed by Sweco Finland (group), Neste Jacobs, Pöyry Finland, Etteplan, FCG, Granlund, Elomatic, A-Insinöörit and Sito, Citec and Wise. Sito and Wise announced their merger in

March 2017. The new Sitowise will take the 6th place in consulting company size ranking in Finland.

Economic growth continues, building sector has still the lead

Construction industry has been the main driver of the Finland's economy since the beginning of the 2015. Finally, this year other industries started to recover after several years of negative or zero growth. The general increase of investments together with growing exports and domestic consumption have maintained high volumes of construction and thus enhanced the market of engineering and consulting services.

Volume of construction of buildings has increased during the last year by over 7 %. Measured by volume 17 % more building projects and 24 per cent more residential building projects were started than one year earlier.

Engineering and consulting services firms have continued their over 10 % growth in revenue during the running budget year 2017. The total value of service contracts has stayed at the same level as year earlier, but the number of new assignments started to significantly decrease last summer.

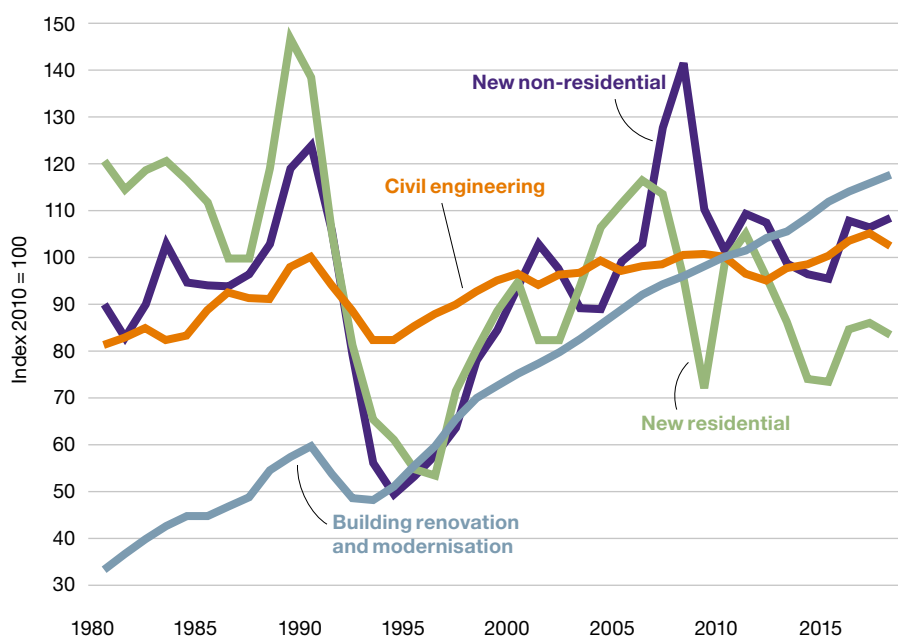
Stabilizing trend was seen also in the number of building permits granted and in construction volume (see fig. 1 & 2). The most recent Confidence Indicator in construction has already shown a turn downwards (see fig. 3).

Staff shortage a growing challenge

Currently the engineering industry faces a growing challenge of staff shortage. The Finnish Association of Consulting Firms SKOL estimated earlier this year that the gap will be up to 9.000 qualified engineers by 2025. be up to 9.000 qualified engineers by 2025."

New public procurement law came into effect at the beginning of 2017 and guidelines for implementation were published in September. The guidelines and recommendations for procurement tem-

Construction volume in Finland 1980 – 2017



Source: Macrobond/Confederation of Finnish Construction Industries RT

“TURNOVER OF SKOL'S MEMBER COMPANIES INCREASED BY 6.3 % IN 2016.



plates were drafted jointly by the Ministry of Housing and the Industry Associations.

Discussions on poor indoor air quality caused by mould and moisture in structures, introducing a new regional administration system, digitalization of public services and processes along with a funding the expanding infrastructure investment gap have gained a growing public and political attention.

Construction and real estate industry together with engineering services has witnessed a couple of major acquisitions and mergers: The two biggest listed contractors (YIT and Lemminkäinen) announced their fusion in June.

SKOL promotes innovative public procurement

SKOL is actively engaged in lobbying the new guidelines and recommendations of Public Procurement Act reform. The main incentive there is to courage clients to include quality criteria and innovative elements in their procurement processes.

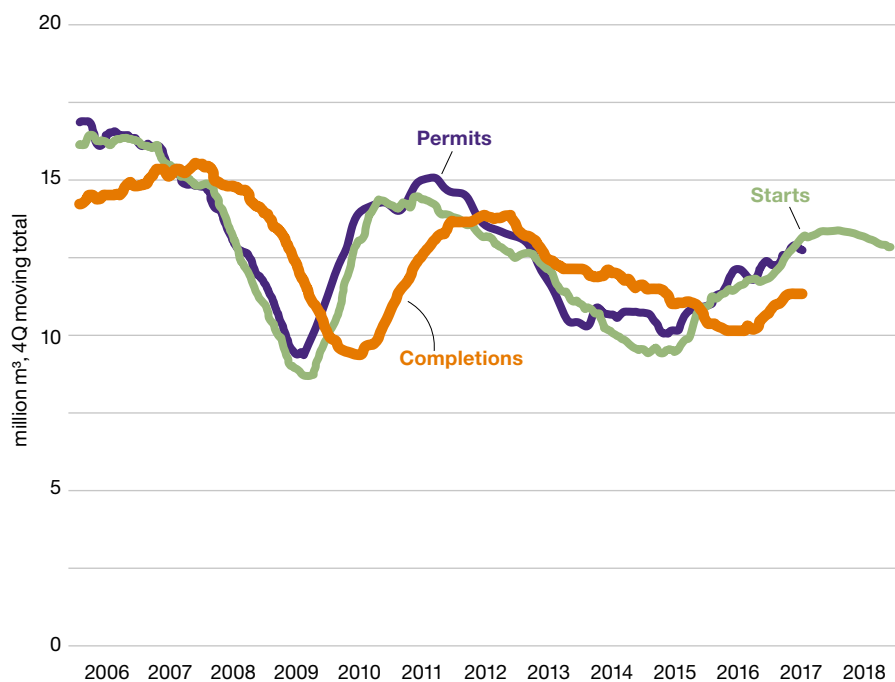
Other major projects led by the association are related to the development of new digital services in the context of built environment and future mobility.

SKOL will conduct in 2018 number of surveys and studies that will explore for example changes in working processes and core competences of engineering services caused by digitalization.

SKOL is also preparing a lobbying agenda for the next parliamentary elections to be held in April 2019 together with Technology Industries and construction industry associations. The main objectives are to establish a long-term infrastructure policy and new investment program together with measures to narrow current the investment gap.

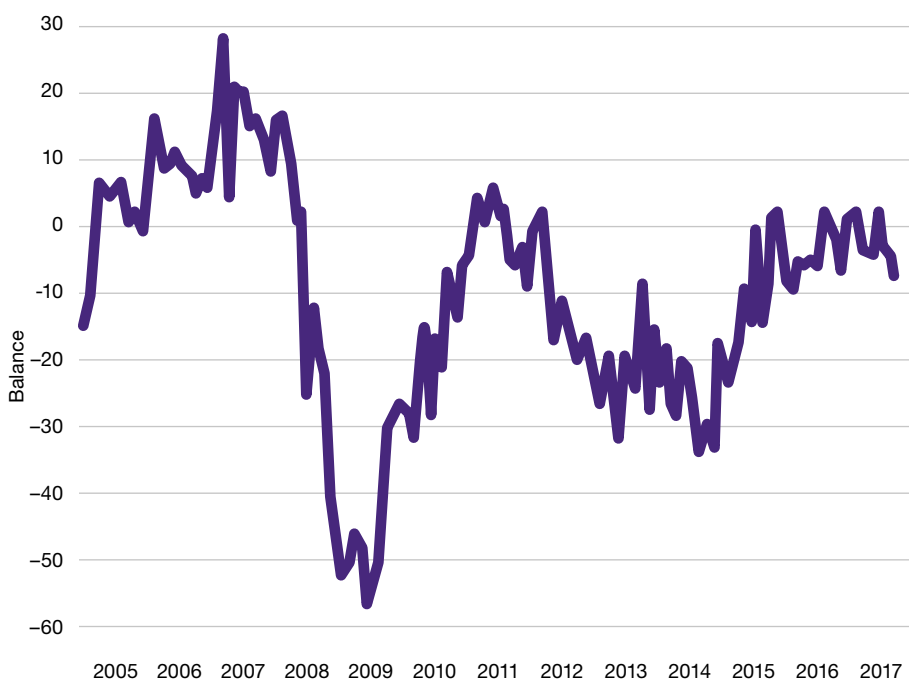


Building permits granted, construction projects started and completed for Residential Buildings in Finland 2006 – 2018.



Source: Macrobond/Confederation of Finnish Construction Industries RT

Confidence Indicator of Construction in Finland 2005 – 2017



Source: Macrobond/Confederation of Finnish Construction Industries RT

The Finnish Association of Consulting Firms SKOL in brief

► SKOL is the employer's association for independent and private consulting companies in Finland. SKOL has around 175 member companies in the fields of industrial, building and infrastructure design and consulting, as well as management consulting and training.

SKOL members employ over 17.000 professionals in Finland, and approximately 7.000 outside Finland. The companies represent about two thirds of total sector capacity in Finland.

SKOL promotes professional, independent, sustainable and ethical consulting engineering, which provides best value to the Clients. SKOL looks after the interests of member companies in Finland

and within EU, improves the operating environment of consulting engineering work in Finland and internationally, as well as builds up the brand and communicates the value of high quality consulting engineering.

The main targets in SKOL strategy are:

- SKOL companies are value adding partners by the Clients, and this is indicated by increased investment on high quality design and consulting.
 - Finland is a good operating environment for design and consulting business and SKOL continues to proactively improve the business environment.
 - Design and consulting business attracts the best young professionals who want to create sustainable and competitive future.
 - SKOL speeds up the international business of its members.
 - SKOL is known and appreciated as an integral part of Technology Industry.
- The activity areas and key actions in each area are listed below. More information about each topic is available at SKOL.

Operating environment/policy

- Influencing new legislation and other regulation
- Seminars for clients and stakeholders
- 14 technical working groups meet regularly, about 200 active participants
- National consulting contracts
- Legal support to members
- Collective agreement (moderate salary increases, 24 hours of additional annual working time continued)
- Cooperation with technical universities and institutes: curriculum, intake, industry coop.
- Forums with Transport authority e.g. rail forum, top management meeting
- Statistics, market reviews, cost follow-

- up, guidance on fringe benefits
- Ad hoc polls on topics of interest

Attraction of young professionals

- Young consultants' forum seminars and get-togethers
- Participation in infra sector LIKE project with the aim to attract young staff
- Participation in Built Environment Young Professionals training programme KIRA-Academy
- Student events like "CEO crossfire" with technical university students
- Young Consultant of the Year –award
- Scholarships to students
- Participation in MyTech-platform www.mytech.fi/suunnittelu-ja-konsultointi video inter-views of young consulting professionals

Procurement

- Innovative procurement road show together with clients, municipalities and politicians
- New national procurement guidelines for consulting services together with major clients
- Practical tools for quality based tender evaluation
- Preparation of scope of work lists for various consulting services e.g. www.sopimuslomake.net/lomakkeet/rt-10-10846-en
- Advising clients on good procurement practices

Communication

- Branding member companies on quality, value for money, sustainability & responsibility
- Regular meetings with media, often together with board members
- Newsletters to clients and stakeholders
- Newsletters to members
- Storytelling workshops to board and spokesmen
- Articles on newspapers
- Strong communications and social media activity
- New unified brand within all associations in Technology industries
- Export group/ forum for companies going international
- EFCA committees, GAM, FIDIC
- Lobbying at EU organisations on good procurement
- RINORD annual conference
- Nordic sector review
- Benchmark with other associations

Project work

- Participation in Real Estate digitalization



Helena Soimakallio, Managing Director SKOL.

- development project www.kiradigi.fi
- Integrated project delivery model development
- Activating the work of Lean Construction Institute Finland
- Building sector 3-year quality project together with construction industry and clients

Helena Soimakallio, Managing Director SKOL

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THE TOP 100 FINNISH CONSULTING ENGINEERING AND ARCHITECTURAL GROUPS

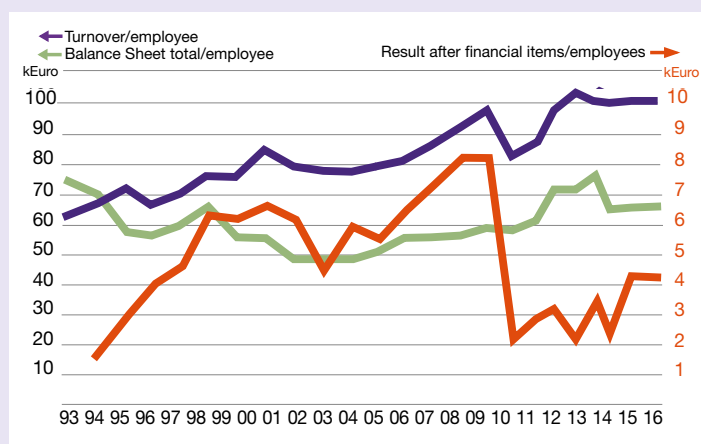
| | 2017 | 2016 | Group | Service | Annual report | Turn-over MDKK | Average (previous year) | Tot. number of employees | Balance sheet MDKK | CEO/Managing director |
|------|------|------|--|-----------|---------------|----------------|-------------------------|--------------------------|--------------------|---|
| SKOL | 1 | 1 | Pöyry Group | MD | 16 | 529.6 | 575.3 | 5387 | 421.8 | Martin Å Porta |
| SKOL | 2 | 2 | Rambölli Finland + Environ * | MD | 16 | 200.6 | 180.5 | 2107 | 110.4 | Kari Onniselkä |
| SKOL | 3 | 3 | SWECO Finland | I,MD | 16 | 188.7 | 177.7 | 1984 | 100.0 | Markku Varis |
| SKOL | 4 | 6 | Etteplan Oy | I | 16 | 183.9 | 141.1 | 2407 | 134.5 | Juha Näkki |
| SKOL | 5 | 5 | Neste Jacobs group | I | 16 | 153.9 | 143.6 | 802 | 95.0 | Jarmo Suominen |
| SKOL | 6 | 8 | FCG Finnish Consulting Group | MD | 16 | 79.0 | 54.7 | 673 | 47.8 | Kimmo Kasteenpohja |
| SKOL | 7 | 9 | Granlund Oy | M | 16 | 61.7 | 54.7 | 666 | 41.8 | Pekka Metsi |
| | 8 | 7 | Insta Automation Oy | I | 16 | 60.0 | 56.8 | 358 | 24.4 | Timo Lehtinen |
| SKOL | 9 | 12 | Elomatic Group Oy | I | 16 | 54.7 | 48.1 | 777 | 43.3 | Patrik Rautaheimo |
| SKOL | 10 | 11 | A-Insinöörit Group | MD | 16 | 54.2 | 51.3 | 427 | 27.3 | Jyrki Keinänen |
| SKOL | 11 | 13 | SITO Group Oy | MD | 16 | 50.1 | 47.9 | 525 | 28.5 | Tapio Puurunen |
| SKOL | 12 | 10 | Citec Group | I | 16 | 48.3 | 51.7 | 445 | 31.9 | Martin Strand |
| SKOL | 13 | 16 | Wise Group Finland Oy (acquired Helimäki Akustikot) | MD | 16 | 42.5 | 30.7 | 427 | 28.8 | Aki Puska |
| SKOL | 14 | 14 | Reijers Finland (acquired JS-Verkot) * | I | 16 | 39.5 | 39.1 | 486 | | Seppo Sorri |
| SKOL | 15 | 19 | WSP Finland | MD | 16 | 35.1 | 28.1 | 386 | 13.0 | Kirsi Hautala |
| SKOL | 16 | 20 | Vahnen Group Oy | CE | 16 | 28.1 | 26.5 | 306 | 15.4 | Risto Rätty |
| | 17 | 4 | Kiwa Inspecta Oy (acquired by Kiwa, NL)* | I | 16 | 25.9 | 176.0 | 295 | 38.1 | Topi Saarenhovi |
| SKOL | 18 | 18 | ÄF Consult Oy | I | 16 | 25.0 | 29.1 | 157 | 11.4 | Jari Leskinen |
| SKOL | 19 | 17 | Dekra Industrial Oy | CT | 16 | 24.5 | 30.2 | 216 | 10.5 | Matti Andersson |
| SKOL | 20 | 15 | Deltamarin Oy | I | 16 | 23.2 | 31.0 | 235 | 20.2 | Janne Uotila |
| | 21 | 25 | Econet Group Oy | I,Env | 16 | 21.7 | 15.2 | 72 | 12.0 | Matti Leppäniemi |
| SKOL | 22 | 36 | Protacon group Oy | I, E, PM | 16 | 21.0 | 9.2 | 219 | 15.2 | Timo Akselin |
| SKOL | 23 | 22 | Destia Design * | CE | 15 | 20.0 | 20.0 | 170 | | Heidi Erha |
| | 24 | 23 | Haahtela Oy * | I,PM | 16 | 19.6 | 19.4 | 34 | 24.3 | Yrjänä Haahtela |
| | 25 | 21 | Insinööritoimisto Comatec Group | I, PM | 16 | 19.3 | 24.2 | 273 | 14.4 | Aulis Asikainen |
| SKOL | 26 | 24 | Optiplan Oy | MD | 16 | 15.7 | 15.9 | 214 | 8.9 | Pekka Kiuru |
| | 27 | 34 | RD Velho Oy | I | 16 | 13.9 | 9.7 | 123 | 5.7 | Mika Kiljala |
| | 28 | 31 | Raksystems Oy | PM, CE, S | 16 | 13.3 | 10.3 | 100 | 4.7 | Marko Malmivaara |
| SKOL | 29 | 32 | ISS Proko Group | PM | 16 | 12.3 | 10.0 | 125 | 7.6 | Harri Väänänen |
| | 30 | 44 | Alte Oy (acquired TSS Group) | E | 16 | 12.3 | 6.9 | 394 | 13.8 | Juha Pekka Sillanpää |
| SKOL | 31 | 28 | Rakennuttajatoimisto HTJ Oy | PM | 16 | 11.5 | 10.9 | 102 | 4.3 | Janne Ketola |
| SKOL | 32 | 27 | Suomen Talokeskus Oy | MD | 16 | 11.4 | 11.6 | 103 | 3.1 | Jari Punkari |
| SKOL | 33 | 26 | NIRAS Finland Oy | I | 16 | 11.2 | 11.8 | 48 | 8.6 | Antti Inkinen |
| | 34 | 30 | Helin & Co Architects | A | 15/16 | 11.0 | 10.4 | 47 | 4.3 | Pekka Helin |
| SKOL | 35 | 33 | Indufor Oy | MD | 16 | 10.7 | 10.0 | 52 | 3.7 | Jyrki Salmi |
| | 36 | 35 | Vitalium group (Mitta Oy) | CE | 16 | 9.6 | 9.6 | 116 | 5.7 | Jari Lappi |
| SKOL | 37 | 29 | Ahma Insinöörit Oy | PM | 16 | 9.5 | 10.7 | 138 | 5.4 | Kim Lindholm |
| | 38 | 38 | Arkkitehtitoimisto JKMM Oy * | A | 16 | 9.3 | 8.7 | 58 | 3.7 | Jaaksi, Kurkela, Miettinen, Mäki-Jyllilä (partners) |
| | 39 | 67 | JLL Finland - Jones Lang LaSalle Finland Oy * (förfärvade Procofin Oy) | A,CE | 16 | 9.2 | 3.3 | 77 | 7.8 | Tapani Piri |
| SKOL | 40 | 39 | AX-Konsultit Oy | M | 16 | 8.9 | 8.7 | 89 | | Urpo Koivula |
| SKOL | 41 | 40 | Finnmap Infra Oy | CE | 16 | 8.7 | 8.6 | 47 | 3.4 | Stefan Nyström |
| SKOL | 42 | 37 | CTS Engtec Oy | I | 16 | 8.5 | 8.8 | 99 | 4.3 | Antti Lukka |
| | 43 | 42 | Arkkitehtitoimisto SARC Oy | A | 15/16 | 8.3 | 7.0 | 50 | 6.4 | Sariotta Narjus |
| SKOL | 44 | 43 | Rapal Oy | PM | 16 | 7.6 | 7.0 | 64 | 6.9 | Tuomas Kaarlehto |
| | 45 | 41 | Pes-Arkkitehdit Oy (Pekka Salminen) | A | 16 | 7.5 | 7.2 | 64 | 4.4 | Jarkko Salminen |
| | 46 | 161 | Insinööritoimisto Enmac Oy | I | 16 | 7.2 | 0.0 | 72 | 3.0 | Juha Ritala |
| | 47 | 51 | Arkkitehdit Soini & Horto Oy | A | 16 | 7.0 | 4.5 | 37 | 1.8 | Sami Horto |
| SKOL | 48 | 48 | FM-International Oy * | CE | 16 | 6.6 | 5.6 | 47 | 1.7 | Kotaro Seki |
| SKOL | 49 | 45 | Golder Associates Oy | Env | 16 | 6.4 | 6.6 | 52 | 3.2 | Kari-Matti Malmivaara |
| | 50 | 59 | Architecture Office Sigge Ltd/ Viiva ark- kitehtuuri (Arkkitehtitoimisto Sigge Oy) | A | 15/16 | 6.2 | 3.9 | 44 | 4.8 | Pekka Mäki |
| SKOL | 51 | 55 | KBR Ecoplanning Oy (fmr Chematur) | MD | 16 | 5.8 | 4.2 | 11 | 4.2 | Timo Kuusisto |
| | 52 | 47 | Esju Oy | I | 16 | 5.6 | 5.9 | 60 | 3.1 | Matti Kainuharju |
| | 53 | 49 | Indepro Oy | PM, CE | 16 | 5.5 | 5.4 | 38 | 5.6 | Matti Kruus |
| | 54 | 46 | Oy Omnitele AB | PM(tele) | 16 | 5.5 | 6.6 | 52 | 4.6 | Ville Santeri Laakso |
| | 55 | 50 | L Arkkitehdit Oy (Arkkitehtitoimisto Larkas & Laine Oy) | A | 16 | 5.1 | 5.2 | 49 | 2.5 | Robert Trapp |
| SKOL | 56 | | Cadpool Oy | MD | 16 | 4.9 | | 68 | 2.0 | Upi Vartiainen |
| SKOL | 57 | 58 | Hepacon Oy | M | 16/17 | 4.4 | 4.0 | 60 | 1.7 | Otto Jokinen |
| SKOL | 58 | 61 | Ideastructura Oy | CE | 16 | 4.3 | 3.6 | 35 | 2.9 | Jyrki Jalli |
| SKOL | 59 | 57 | Geotek Oy | Env | 16 | 4.1 | 4.1 | 45 | 2.5 | Aino Sihvola |
| SKOL | 60 | 79 | Aihio Arkkitehdit Oy | A | 16 | 4.1 | 2.9 | 42 | 3.2 | Timo Meronen |
| SKOL | 61 | 69 | Parviainen Arkkitehdit Oy | A | 16 | 3.9 | 3.3 | 38 | | Mikko Lahikainen |
| SKOL | 62 | 62 | Insinööritoimisto Pohjateknikka Oy | CE | 16 | 3.8 | 3.5 | 46 | 2.1 | Seppo Rämö |
| | 63 | 53 | Re-Suunnittelu Oy - Re-Engineering Ltd | A, CE, PM | 16 | 3.7 | 4.4 | 32 | 1.7 | Matti Juhani Takkinen |
| SKOL | 64 | 64 | Insinööritoimisto Leo Maaskola Oy | M | 16 | 3.6 | 3.4 | 33 | 2.0 | Kari Seitaniemi |
| | 65 | 60 | Uki Arkkitehdit Oy | A | 16 | 3.6 | 3.6 | 42 | 2.2 | Mikko Heikkinen |
| | 66 | 54 | Arkkitehtitoimisto Ala Oy | A | 16 | 3.5 | 4.2 | 20 | 1.4 | Juha Emil Grönholm |
| | 67 | 76 | Kalliosuunnittelu Oy (Rockplan Ltd) | CE | 16 | 3.4 | 3.0 | 34 | 2.9 | Jarmo Roinisto |

SKOL = Member of SKOL, the Finnish Association of Consulting Firms. (*) = lack of conforming figure/proforma/assumed - = missing figure PM = Project Management, A = Architecture, CE = Civil/Structural Engineering, Env = Environment, Enr = Energy, E = Electrical, M = Mechanical/HEVAC, I = Industrial, MD = Multi Disciplinary

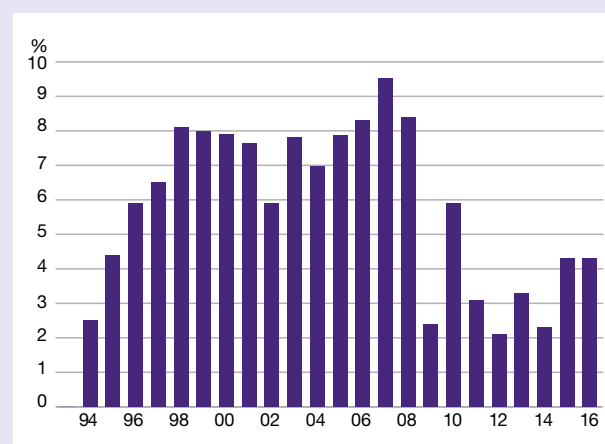


| | 2017 | 2016 | Group | Service | Annual report | Turn-over MDKK | Average (previous year) | Tot. number of employees | Balance sheet MDKK | CEO/Managing director |
|------|------|------|--|-----------|---------------|----------------|-------------------------|--------------------------|--------------------|---------------------------|
| | 68 | 56 | Roadscanners Oy | CT | 16 | 3.4 | 4.1 | 29 | 1.6 | Timo Saarenketo |
| | 69 | 65 | Cederqvist & Jäntti Arkkitehdit Oy | A | 15/16 | 3.3 | 3.4 | 30 | 1.7 | Tom Cederqvist |
| SKOL | 70 | 71 | Akukon Oy | MD | 16 | 3.3 | 3.2 | 32 | 1.0 | Ari Lepoluoto |
| | 71 | 63 | Insinööritoimisto Pontek Oy | CE | 15/16 | 3.1 | 3.4 | 27 | 2.7 | Pertti Määttä |
| | 72 | 81 | Arkkitehtitoimisto Lukkaroinen Oy | A | 16 | 3.1 | 2.8 | 38 | 1.2 | Mikko Lukkaroinen |
| | 73 | 109 | Arkkitehtuuritoimisto B & M Oy | A | 16 | 3.1 | 1.8 | 30 | 1.1 | Jussi Murole |
| | 74 | 93 | Schauman Arkkitehdit Oy | A | 16 | 3.1 | 2.3 | 20 | 2.5 | Janne Untamo Helin |
| | 75 | 86 | Linja Arkkitehdit | A | 16 | 3.1 | 2.5 | 35 | 1.2 | Ville Petteri Niskasaari |
| | 76 | 77 | AW2 - Architecture Workshop Finland Oy * | A | 16/17 | 3.0 | 3.0 | 34 | 1.7 | Anssi Yrjö Mikael Anttila |
| SKOL | 77 | 82 | LINK design and development Oy | I | 16 | 2.9 | 2.7 | 34 | 1.0 | Jaakko Anttila |
| SKOL | 78 | 75 | Insinööritoimisto Lauri Mehto Oy | CE | 16 | 2.9 | 3.1 | 26 | 1.9 | Simo-Pekka Valttonen |
| SKOL | 79 | 72 | Hifab Oy | I | 16 | 2.9 | 3.2 | 12 | 1.3 | Vesa Kurkela |
| SKOL | 80 | 70 | Insinööritoimisto Äyräväinen Oy | M | 16 | 2.9 | 3.3 | 35 | 0.9 | Mikko Äyräväinen |
| SKOL | 81 | 96 | Carement Oy | CE | 16/17 | 2.9 | 2.2 | 34 | 1.0 | Jouni Aukusti Juurikka |
| | 82 | 66 | Asitek Oy | E | 16 | 2.8 | 3.3 | 24 | 1.6 | Rauno Mäkelä |
| SKOL | 83 | 87 | Insinööritoimisto Savolainen Oy | CE | 16 | 2.7 | 2.5 | 31 | 1.5 | Antero Savolainen |
| SKOL | 84 | 88 | Geounion Oy | CE | 16 | 2.7 | 2.5 | 32 | | Matti Mäntysalo |
| | 85 | 85 | Arkkitehtitoimisto Helamaa & Heiskanen Oy | A | 16 | 2.7 | 2.6 | 29 | 2.4 | Juha Saarijärvi |
| SKOL | 86 | 89 | Kva Arkkitehdit Oy | A | 16 | 2.6 | 2.5 | 28 | 0.9 | Ritva Kokkola |
| | 87 | 84 | Arkkitehtitoimisto Hannu Jaakkola Oy (Jaakkola Architects) | A | 16/17 | 2.6 | 2.6 | 19 | 2.5 | Hannu Jaakkola |
| | 88 | 113 | Verstas Arkkitehdit Oy | A | 16 | 2.5 | 1.8 | 24 | 1.4 | Ilkka Salminen |
| SKOL | 89 | 73 | Insinööritoimisto Tauno Nissinen Oy | E | 16 | 2.5 | 3.2 | 30 | 1.6 | Antti Danska |
| | 90 | 92 | BST-Arkkitehdit Oy | A | 16 | 2.4 | 2.4 | 29 | 1.5 | Paul Sergej von Bagh |
| SKOL | 91 | 90 | Yhtyneet Insinöörit Oy | E | 16 | 2.4 | 2.4 | 25 | 1.1 | Juha Kiviniemi |
| SKOL | 92 | 123 | Insinööritoimisto Jormakka Oy | Enr,Env | 16 | 2.4 | 1.6 | 20 | 2.8 | Jussi Jormakka |
| SKOL | 93 | 52 | Plaanagroup | CE | 16 | 2.3 | 4.5 | 30 | 2.4 | Pekka Mosorin |
| SKOL | 94 | 97 | Avecon Oy | PM, M, CE | 16 | 2.3 | 2.2 | 26 | 0.8 | Peter Jakobsson |
| | 95 | 68 | Arkkitehtitoimisto HKP Oy * | A | 16 | 2.3 | 3.3 | 18 | 1.1 | Mikko Suvisto |
| SKOL | 96 | 94 | Sipti Oy | CE | 16/17 | 2.3 | 2.3 | 16 | 1.6 | Teemu Rahikainen |
| SKOL | 97 | 118 | Entop Oy | I | 16 | 2.3 | 1.6 | 27 | 1.8 | Kimmo Määttänen |
| | 98 | 74 | Arkkitehdit NRT Oy (Nurmela,Raimoranta,Tasa) | A | 16 | 2.2 | 3.2 | 28 | 2.4 | Teemu Tuomi |
| | 99 | 108 | Exact AIP-Mittaust Oy | CE | 16 | 2.2 | 1.8 | 28 | 0.6 | Jan-Erik Björni |
| SKOL | 100 | 80 | Contria Oy | CE | 16 | 2.1 | 2.8 | 20 | 0.7 | Kenneth Grönroos |

The top 30 Finnish groups



Profit margins



Generally speaking, it is risky business making direct comparisons between key business ratios for the largest firms and corresponding figures for the medium and small-sized firms. In the case of the latter firms, the extensive efforts of the often many partners have a relatively significant impact on the companies' turnover and profit level per employee.

For firms 31–100 in the above list, turnover in 2016 increased by 9% to €340 million (€311 million in 2015). The number of employees grew by 5% to 3,011 (2,856). The turnover per employee consequently increased to €113,000 (€109,000). The profit before tax fell to €11,300 per employee (€11,500). Calculated in terms of profit margin, this gives 10.0%, same as the year before (10.0%). The average balance per employee was approximately €63,200 (€69,100).

30 largest groups

| | 2016 (excl. Pöyry) | Previous year (excl. Pöyry) |
|---|--------------------|-----------------------------|
| Turnover per employee | €100k (€101k) | €102k (€103k) |
| Profit after financial items per employee | €4.1k (€6.4k) | €4.3k (€5.7k) |
| Balance sheet total per employee | €67.1k (€63.0k) | €66.4k (€61.6k) |

The turnover for the 30 largest groups in 2016 decreased by 2% to €2,077 million (€2,124 million in 2015). The average number of employees was 20,790 (20,870). The turnover per employee was €100,000 (€102,000). The profit before tax was €4,100 per employee (€4,300 the previous year). The profit margin for the 30 largest groups fell to 4.2% (4.3%). The average balance per employee was €67,100 (€66,400).

**”THE PROFIT
MARGIN (PRE
TAX) FOR THE 300
LARGEST GROUPS
IN EUROPE
INCREASED TO
5.3 % IN 2016, FROM
4.3 % THE YEAR
BEFORE.**



*From inside the glass dome in
the Berlin Reichstag building.*

INTERNATIONAL DEVELOPMENT

The sector in Europe has recovered and the market situation has got better during 2016 and 2017. This has contributed to improved profitability, which is also apparent in the average profit margin (profit/loss after financial items) for the 300 largest companies in the sector. It increased to 5.3% in 2016, compared with 4.3% in 2015.

The 300 largest engineering consultancies and architectural firms in Europe employ just over half a million (544,743) personnel and the ten largest groups represent one third (182,718) of them. The sector, which according to Eurostat had a turnover of 350 billion Euros in 2015, has recovered throughout Europe. Profitability has improved during 2016 and 2017. Profit margin, profit/loss after financial items, increased to 5.3% in 2016 from 4.3% the year before. Average profit margin increased to 6.1% from 4.9% in 2015. Operating margin also increased, to 6.5% from 5.8% in 2015. However, turnover per employee fell slightly; 121,000 Euros in 2016 against 128,000 Euros the year before. The balance per employee also fell slightly, to 90,000 Euros from 94,000 Euros.

It should, however, be emphasised that the data is not complete. For some companies there are no reliable figures for either turnover or profits. The calculations have been performed with the companies for which figures are available.

Developments during 2016 and 2017

Surveys conducted by EFCA (the European Federation for Consulting Engineers) among its member organisations during the year reinforce the picture of a sector in recovery. It can almost be said that the sector has recovered and stabilised at a European level. The latest report from EFCA (EFCA Barometer Autumn 2017) in November observes that 15 out of the 20 countries participating currently have a satisfactory or good market. Trade organisations in Sweden, Norway, Denmark, Finland, Germany, Belgium, The Netherlands, Luxembourg, Ireland, France, Austria, Switzerland, The Czech Republic, Portugal, Spain, Italy, Greece, Romania, Bulgaria and Turkey took part in the survey.

12 out of 20 countries anticipated an increase in orders during 2018. Nine out of 20 countries thought there would be an increase in staffing and the rest felt the situation would remain unchanged.

Profitability is also expected to stabi-

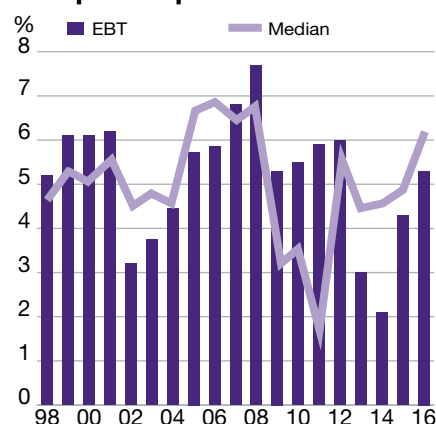
lise. Four out of twenty countries thought profitability would improve during 2017, while only one country felt it would deteriorate. For 2018, five countries thought profitability would improve, two felt it would deteriorate and the rest felt the situation would remain unchanged. Considering the improvement in profitability that took place during 2016, this is good news.

Overall, a positive picture emerges of the sector in Europe. Naturally, there are differences between different countries. While the Nordic countries might be moving towards a cooling market in the next few years, the recovery is continuing in Southern Europe. However, companies in different parts of the continent describe similar challenges. Low hourly rates and a skills shortage that is driving up payroll expenses are problems which appear to be common to companies throughout Europe.

Europe's largest groups

Europe's 300 largest groups are headed by the usual (A-) trio of Altran, Arcadis and Alten. Then come the North American giants which are moving towards the top in Europe. The figures for these groups' operations in Europe are somewhat difficult to interpret, but based on annual reports it is usually possible to work out turnover divided into regions. The number of employees has then been calculated. However, consolidation is ongoing

Profit margins: European top 300



The world's top 10

| 2017 | 2016 | Group | Country | Annual report | Average number of employees | (Previous Year) | Turnover (MEUR) |
|------|------|---------------------------------------|-------------|---------------|-----------------------------|-----------------|-----------------|
| 1 | 1 | AECOM | USA | 16 | 87000 | 87000 | 16198.8 |
| 2 | 2 | Jacobs Engineering (acquired CH2M) * | USA | 16 | 66800 | 43800 | 13690.1 |
| 3 | 3 | SNC-Lavalin Group (acquired Atkins) * | Canada | 16 | 53000 | 36754 | 8046.2 |
| 4 | 4 | WSP Group | Canada | 16 | 36000 | 34000 | 4368.7 |
| 5 | 6 | Altran Technologies | France | 16 | 29106 | 25935 | 2120.1 |
| 6 | 5 | Arcadis Group | Netherlands | 16 | 27080 | 26947 | 3328.8 |
| 7 | 9 | Alten Group | France | 16 | 24000 | 20400 | 1748.3 |
| 8 | 7 | Worley Parsons Engineering Ltd | Australia | 16/17 | 22800 | 24500 | 3549.8 |
| 9 | 12 | Stantec Inc. | Canada | 16 | 22000 | 15200 | 2944.7 |
| 10 | | Cardno Ltd | Australia | 16/17 | 20000 | | 806.3 |

In the case of the European firms the average number of employees per year is reported, whereas for the North American firms it is the total number of employees that is reported. Therefore, although the figures are not fully comparable, they at least give an idea of how the European groups stand in a global perspective.

A COMPARISON BETWEEN SOME INTERNATIONAL LISTED CONSULTANCIES. KEY RATIOS PER LATEST REPORTED FISCAL YEAR

| Company | Country | Market value 20171207 MEUR | Last annual report | Market value last annual report | Turnover MEUR | Average number of employees | Turnover/employee kEUR | Net profit MEUR | Net profit/employee kEUR | Net margin % | Market value/employee kEUR | P/e | P/s |
|------------------------------|---------|----------------------------|--------------------|---------------------------------|---------------|-----------------------------|------------------------|-----------------|--------------------------|--------------|----------------------------|-------------|-------------|
| Semcon AB | SE | 84.8 | 161231 | 85.6 | 182.8 | 2044 | 89.4 | 7.1 | 3.5 | 41.9 | 12.09 | 0.47 | 0.47 |
| ÅF AB | SE | 1430.1 | 161231 | 1350.8 | 1152.2 | 9133 | 126.2 | 75.6 | 8.3 | 147.9 | 17.88 | 1.17 | 1.17 |
| SWECO AB | SE | 2264.8 | 161231 | 2342.0 | 1720.7 | 14653 | 117.4 | 96.8 | 6.6 | 159.8 | 24.19 | 1.36 | 1.36 |
| Rejlerkoncernen AB | SE | 89.4 | 161231 | 109.9 | 243.5 | 2027 | 120.1 | 1.4 | 0.7 | 54.2 | 79.42 | 0.45 | 0.45 |
| Eurocon Consulting AB | SE | 32.9 | 161231 | 21.6 | 22.3 | 204 | 109.3 | 1.6 | 7.7 | 105.9 | 13.79 | 0.97 | 0.97 |
| Hifab Group AB | SE | 18.7 | 161231 | 19.8 | 49.4 | 210 | 235.4 | 0.6 | 2.8 | 94.4 | 34.25 | 0.40 | 0.40 |
| HiQ | SE | 346.0 | 161231 | 350.2 | 172.6 | 1573 | 109.7 | 16.8 | 10.7 | 222.7 | 20.85 | 2.03 | 2.03 |
| Pöyry Group Oy | FIN | 280.1 | 161231 | 197.0 | 529.6 | 5387 | 98.3 | -1.5 | -2.7 | 36.6 | -13.78 | 0.37 | 0.37 |
| Etteplan OY | FIN | 205.6 | 161231 | 136.9 | 183.9 | 2545 | 72.3 | 0.8 | 2.9 | 53.8 | 18.40 | 0.74 | 0.74 |
| Multiconsult AS | NOR | 197.9 | 161231 | 295.5 | 3217.4 | 2344 | 1372.6 | 22.3 | 9.8 | 126.0 | 12.83 | 0.09 | 0.09 |
| WYG PLC | UK | 30.3 | 170331 | 73.4 | 171.9 | 1568 | 109.6 | 0.2 | 1.7 | 46.8 | 27.02 | 0.43 | 0.43 |
| RPS Group | UK | 652.5 | 161231 | 551.2 | 625.0 | 5099 | 122.6 | 2.6 | 5.6 | 108.1 | 19.25 | 0.88 | 0.88 |
| Aukett Swanke Group plc | UK | 5.7 | 160930 | 7.5 | 23.8 | 267 | 89.1 | 0.1 | 3.3 | 28.3 | 8.58 | 0.32 | 0.32 |
| Ricardo plc | UK | 515.8 | 170631 | 471.5 | 371.1 | 2728 | 136.0 | 2.6 | 10.4 | 172.8 | 16.66 | 1.27 | 1.27 |
| Arcadis | NL | 1603.4 | 161231 | 1130.3 | 3328.8 | 27080 | 122.9 | 6.7 | 2.4 | 41.7 | 17.62 | 0.34 | 0.34 |
| Fugro | NL | 943.8 | 161231 | 1177.7 | 1775.9 | 10530 | 168.6 | -32.2 | -29.3 | 111.8 | -3.81 | 0.66 | 0.66 |
| Bertrandt AG | D | 948.3 | 160930 | 979.0 | 992.0 | 12912 | 76.8 | 6.6 | 4.9 | 75.8 | 15.39 | 0.99 | 0.99 |
| EDAG Engineering | CH | 360.0 | 161231 | 390.0 | 715.0 | 8270 | 86.5 | 1.9 | 2.2 | 47.2 | 21.61 | 0.55 | 0.55 |
| Alten Group | FR | 2294.2 | 161231 | 2216.8 | 1748.3 | 24000 | 72.8 | 11.7 | 4.7 | 92.4 | 19.72 | 1.27 | 1.27 |
| Altran Technologies | FR | 2464.4 | 161231 | 2397.1 | 2120.1 | 29106 | 72.8 | 12.7 | 4.2 | 82.4 | 19.57 | 1.13 | 1.13 |
| Assystem S.A. | FR | 649.3 | 161231 | 559.8 | 955.6 | 12422 | 76.9 | 3.3 | 2.5 | 45.1 | 17.77 | 0.59 | 0.59 |
| S II A.A. | FR | 438.0 | 170331 | 378.2 | 438.9 | 6775 | 64.8 | 2.3 | 3.3 | 55.8 | 16.88 | 0.86 | 0.86 |
| Sogecclair S.A. | FR | 129.5 | 161231 | 69.7 | 136.5 | 1398 | 97.7 | 0.6 | 4.2 | 49.9 | 11.86 | 0.51 | 0.51 |
| AKKA Technologies S.A. | FR | 908.2 | 161231 | 680.6 | 1122.7 | 13252 | 84.7 | 1.3 | 1.0 | 51.4 | 53.51 | 0.61 | 0.61 |
| Soditech S.A. | FR | 2.5 | 161231 | 1.9 | 5.4 | 69 | 77.5 | 0.0 | 6.7 | 28.0 | 4.21 | 0.36 | 0.36 |
| INYPESA | ES | 28.1 | 161231 | 29.6 | 19.2 | 195 | 98.7 | 1.2 | 58.6 | 151.8 | 2.59 | 1.54 | 1.54 |
| Ansaldo STS | IT | 2360.0 | 161231 | 2368.0 | 1327.4 | 3951 | 336.0 | 8.1 | 19.6 | 599.3 | 30.53 | 1.78 | 1.78 |
| Average Europe | | | | | | | 117.0 | | 2.6 | 96.5 | | 0.82 | 0.82 |
| Tetra Tech, inc. | US | 2400.5 | 170930 | 2314.5 | 2450.2 | 16000 | 153.1 | 12.3 | 6.6 | 144.7 | 2.58 | 0.94 | 0.94 |
| Hill International, Inc | US | 258.4 | 161231 | 200.7 | 463.5 | 3330 | 139.2 | -0.8 | -2.1 | 60.3 | -3.40 | 0.43 | 0.43 |
| AECOM Technologies, Inc. | US | 5341.0 | 170930 | 5161.5 | 16198.8 | 87000 | 186.2 | 35.3 | 3.5 | 59.3 | 2.00 | 0.32 | 0.32 |
| Jacobs Engineering | US | 7251.5 | 170930 | 6242.3 | 8924.4 | 44800 | 199.2 | 30.3 | 5.8 | 139.3 | 2.82 | 0.70 | 0.70 |
| SNC-Lavalin, Inc. | CAN | 5762.8 | 161231 | 5950.2 | 5675.5 | 34952 | 162.4 | 26.6 | 5.0 | 170.2 | 5.17 | 1.05 | 1.05 |
| Stantec, Inc. | CAN | 2667.1 | 161231 | 2649.9 | 2944.7 | 22000 | 133.8 | 13.6 | 4.1 | 120.4 | 4.51 | 0.90 | 0.90 |
| WSP Global | CAN | 4060.9 | 161231 | 3121.0 | 4368.7 | 36000 | 121.4 | 20.7 | 3.8 | 86.7 | 22.89 | 0.71 | 0.71 |
| Average North America | | | | | | | 168.0 | | 4.3 | 113.7 | | 0.72 | 0.72 |
| Cardno Ltd | AU | 437.4 | 170630 | 395.0 | 806.3 | 20000 | 40.3 | -2.0 | -0.7 | 19.7 | -4.56 | 0.49 | 0.49 |
| Worley Parsons | AU | 230.6 | 170630 | 1899.4 | 3549.8 | 22800 | 155.7 | 3.5 | 1.0 | 83.3 | 12.68 | 0.54 | 0.54 |

The currencies used to calculate the figures in the table above represent the average exchange-rates of the period Jan–Nov 2017, as below:

1 NOK = 1,0349 SEK 1 CAD = 6,5790 SEK 1 USD = 8,5494 SEK
 1 AUD = 6,5537 SEK 1 EUR = 9,6074 SEK 1 GBP = 10,9674 SEK

The figures in the table above are presented according to the respective companies' annual reports, any acquisitions made during the current year are not included.

THE TOP 50 EUROPEAN ARCHITECTURAL GROUPS

THE (PRE-TAX) PROFIT MARGIN FOR THE TOP 300 GROUPS IN EUROPE INCREASED TO 5.3%, FROM 4.3%.

| 2017 | 2016 | Group | Country | Annual Report | Average number of employees | (Previous year) | Turnover MEUR |
|------|------|--|-------------|---------------|-----------------------------|-----------------|---------------|
| 1 | 2 | Foster & Partners Ltd | England | 16/17 | 1480 | 1284 | 234.2 |
| 2 | 1 | AEDAS Architects Group * | England | 16/17 | 1400 | 1450 | |
| 3 | 3 | BDP Building Design Partnership | England | 16 | 903 | 851 | 94.2 |
| 4 | 4 | Rambøll Architects & Urban Planning * | Denmark | 15 | 835 | 700 | 104.9 |
| 5 | 6 | White Architects | Sweden | 16 | 682 | 632 | 92.9 |
| 6 | 8 | ATP Architects Engineers | Austria | 16 | 650 | 600 | 69.7 |
| 7 | 5 | SWECO Architects | Sweden | 16 | 629 | 700 | 86.8 |
| 8 | 11 | Broadway Malyan Ltd | England | 16 | 612 | 530 | 57.9 |
| 9 | 10 | Tengbom group | Sweden | 16 | 603 | 558 | 65.4 |
| 10 | 7 | AIA Life Designers* | France | 16 | 600 | 600 | |
| 11 | 13 | IDOM (Architecture) | Spain | 16 | 510 | 512 | 53.0 |
| 12 | 12 | Gmp Architekten von Gerkan, Marg und Partner * | Germany | 16 | 500 | 515 | |
| 13 | 16 | Arkitema K/S | Denmark | 16 | 466 | 450 | 48.6 |
| 14 | 14 | Benoy Limited (Architects) | England | 16 | 461 | 508 | 55.0 |
| 15 | 22 | Grimshaw Architects Llp | England | 16/17 | 435 | 324 | 67.7 |
| 16 | 17 | Herzog & de Meuron Architekten AG * | Switzerland | 16 | 380 | 420 | |
| 17 | 21 | Burckhardt+Partner AG * | Switzerland | 16 | 380 | 335 | |
| 18 | 18 | Zaha Hadid Architects | England | 15/16 | 379 | 402 | 53.1 |
| 19 | 23 | HPP Architects | Germany | 16 | 377 | 360 | 45.5 |
| 20 | 28 | Sheppard Robson * | England | 15/16 | 374 | 306 | 23.1 |
| 21 | 19 | LINK Arkitektur AS | Norway | 16 | 372 | 353 | 41.7 |
| 22 | 29 | Chapman Taylor LLP | England | 16/17 | 350 | 318 | 41.0 |
| 23 | 20 | HENN Architekten | Germany | 16 | 341 | 350 | 48.0 |
| 24 | 27 | Barton Willmore Group | England | 15/16 | 329 | 306 | 39.9 |
| 25 | 31 | Stride Treglown Group PLC | England | 16 | 321 | 287 | 25.1 |
| 26 | 26 | INBO Architects/Consultants * | Netherlands | 16 | 308 | 308 | |
| 27 | 39 | Purcell Architects | England | 16 | 302 | 241 | 24.3 |
| 28 | 41 | Arup associates, architects * | England | 16 | 301 | 226 | |
| 29 | 30 | Allies and Morrison Architects Ltd * | England | 16 | 300 | 300 | |
| 30 | 34 | BIG / Bjarke Ingels Group * | Denmark | 16 | 300 | 280 | 33.6 |
| 31 | 25 | C.F. Møller architects | Denmark | 16 | 297 | 309 | 42.3 |
| 32 | 45 | PRP Architects Ltd | England | 16 | 292 | 216 | 21.7 |
| 33 | 35 | Heinle, Wischer und Partner * | Germany | 16 | 280 | 270 | 28.2 |
| 34 | 32 | Henning Larsen Architects | Denmark | 16/17 | 275 | 281 | 36.1 |
| 35 | 51 | Pascall+Watson | England | 16 | 271 | 318 | 46.6 |
| 36 | 44 | Scott Brownrigg Architects | England | 16/17 | 269 | 217 | 26.6 |
| 37 | 38 | Aukett Swanke Group plc | England | 16 | 267 | 244 | 23.8 |
| 38 | 36 | IBI Group Europe * | England | 16 | 254 | 260 | 24.0 |
| 39 | 37 | O.M.A. Office for Metropolitan Architecture * | Netherlands | 16 | 247 | 247 | 31.9 |
| 40 | 42 | Wilmoth & Associés * | France | 15/16 | 240 | 225 | 29.5 |
| 41 | | PE Arkitektur | Sweden | 16 | 237 | 228 | 28.6 |
| 42 | 78 | Tyréns (acquired Pyramiden & AQ arkitekter) * | Sweden | 16 | 230 | 104 | 25.0 |
| 43 | 33 | RKW Architekten & Co, KG * | Germany | 16 | 220 | 280 | 30.0 |
| 44 | 43 | Valode & Pistre * | France | 16 | 220 | 220 | |
| 45 | 49 | HLM Architects | England | 15/16 | 216 | 190 | 20.5 |
| 46 | 47 | Rogers Stirk Harbour & Partners | England | 15/16 | 204 | 200 | 36.8 |
| 47 | 64 | UNStudio (Van Berkel En Bos) * | Netherlands | 16 | 200 | 148 | |
| 48 | 58 | MVRDV * | Netherlands | 16 | 199 | 157 | |
| 49 | 59 | Keppie Design | Scotland | 15/16 | 191 | 152 | |
| 50 | 50 | Wilkinson Eyre Architects Ltd | England | 16/17 | 183 | 181 | 23.4 |

and a clear centralisation is underway surrounding the major American and Canadian groups. For example, during the year Jacobs Engineering acquired CH2M, which was eighth largest in the world in 2016, and SNC-Lavalin acquired the British company Atkins, which was tenth largest in 2016. So the era of gigantic deals is not over. It is likely that consolidation and acquisitions will continue throughout the Nordic region, Europe and the world.

Of the Nordic groups of companies, Sweco is still largest (8th in Europe) followed by Rambøll (12th), ÅF (17th), Cowi (23rd), Pöyry (27th) and Norconsult (39th).

World's largest

Aecom remains the (western) world's largest engineering consultancy with around 78,000 employees. With the acquisition of CH2M, Jacobs Engineering is approaching 70,000 employees, and the acquisition of Atkins means that SNC-Lavalin has passed the 50,000 mark in terms of employees. The ten largest groups in the world have some 388,000 employees. This is more than twice as many as in 2007; 176,000. Globalisation and consolidation in the sector have proceeded quickly during the last ten years. It is becoming increasingly international, at the same time as local presence is usually necessary. The sector is divided up into giant groups with global presence, or at any rate a large regional presence, a wide skills base for complex assignments or small niche companies with specialist knowledge or geographic focus. The intermediate layer is becoming ever thinner. It is likely that this development will continue in coming years.



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THE EUROPEAN TOP 300 CONSULTING ENGINEERING AND ARCHITECTURAL GROUPS

| 2017 | 2016 | Group | Services | Country | Average Annual number of report employees | | (Previous year) | Turnover MEUR | CEO/Managing director |
|------|------|--|-------------|-------------|---|--------|-----------------|---------------|--|
| 1 | 2 | Altran Technologies | I | France | 16 | 29 106 | 25 935 | 2120.1 | Dominique Cerutti |
| 2 | 1 | Arcadis Group | MD | Netherlands | 16 | 27 080 | 26 947 | 3328.8 | Peter Oosterveer |
| 3 | 3 | Alten Group | I | France | 16 | 24 000 | 20 400 | 1748.3 | Simon Azoulay |
| 4 | 28 | AECOM Europe * | MD | England | 16 | 16 110 | 5 100 | 2134.6 | Lara Poloni |
| 5 | 14 | Jacobs Engineering Europe * | Env,Enr | England | 16 | 15 500 | 8 600 | 2384.4 | Robert S. Duff |
| 6 | 13 | WSP Europe | MD | England | 16 | 15 000 | 10 100 | 1222.4 | Magnus Meyer (Nordics), Mark Naysmith (UK) |
| 7 | 5 | Mott MacDonald Group | MD | England | 16 | 14 926 | 15 736 | 1606.4 | Keith Howells (Chairman), Mike Haigh (Managing Director) |
| 8 | 6 | SWECO AB (4 acquisitions in Belgium, Norway and Finland) * | MD | Sweden | 16 | 14 832 | 14 697 | 1742.2 | Tomas Carlsson (CEO), Åsa Bergman (MD Sweden) |
| 9 | 10 | AKKA Technologies S.A | I | France | 16 | 13 252 | 12 222 | 1122.7 | Maurice Ricci |
| 10 | 8 | Bertrandt AG | I | Germany | 15/16 | 12 912 | 12 367 | 992.0 | Dietmar Bichler |
| 11 | 7 | ARUP Group | MD | England | 16/17 | 12 806 | 12 806 | 1415.4 | Gregory Hodgkinson (Chairman) |
| 12 | 9 | Rambøll Group A/S | MD | Denmark | 16 | 12 497 | 10 256 | 1426.1 | Jens-Peter Saul |
| 13 | 12 | Assystem Group S.A | MD | France | 16 | 12 422 | 11 553 | 955.6 | Dominique Louis |
| 14 | 52 | SNC-Lavalin Europe (acquired Atkins) * | MD | England | 16 | 11 500 | 2 100 | 1210.0 | |
| 15 | 11 | Fugro N.V | CE | Netherlands | 16 | 10 530 | 11 960 | 1775.9 | Paul van Riel |
| 16 | 15 | Segula Technologies Engineering Group * | I | France | 16 | 10 000 | 8 500 | | Franck Ghrenassia |
| 17 | 16 | ÅF (several acquisitions incl. Edy Toscana, Switzerland) * | I,E,M,Enr | Sweden | 16 | 8 672 | 8 423 | 1194.4 | Jonas Gustavsson |
| 18 | 17 | Egis Group | MD | France | 16 | 8 300 | 8 300 | 1020.0 | Nicholas Jachiet |
| 19 | 18 | EDAG Group | I | Germany | 16 | 8 270 | 7 870 | 715.0 | Jürgen Vogt |
| 20 | 20 | Formel D GmbH * | I | Germany | 16 | 7 000 | 7 000 | 255.0 | Jürgen Haakmann |
| 21 | 24 | S II S.A | I | France | 16/17 | 6 775 | 5 793 | 438.9 | Bernard Huvé |
| 22 | 22 | IAV Group | I | Germany | 16 | 6 700 | 6 500 | 734.0 | Kurt Blumenröder |
| 23 | 23 | COWI Group | MD | Denmark | 16 | 6 475 | 6 433 | 798.4 | Lars-Peter Søbye |
| 24 | 19 | M+W Group GmbH * | CE/PM | Germany | 16 | 6 144 | 7 050 | 3045.6 | Wolfgang Büchele |
| 25 | 21 | Royal HaskoningDHV | MD | Netherlands | 16 | 5 902 | 6 491 | 621.3 | Erik Oostwegel |
| 26 | 27 | SYSTRA Group * | MD | France | 16 | 5 705 | 5 190 | 611.6 | Pierre Verzat |
| 27 | 25 | Pöyry Group | MD | Finland | 16 | 5 387 | 5 752 | 529.6 | Martin Å Porta |
| 28 | 29 | RPS Group plc | Env | England | 16 | 5 099 | 4 530 | 625.0 | John Matheson Douglas |
| 29 | 38 | Artelia | PM | France | 16 | 4 900 | 3 500 | 520.0 | Benoît Clocheret |
| 30 | | Kiwa Group (Inspecta) | CT | Netherlands | 16 | 4 694 | 4 373 | 488.0 | Paul Hesselink |
| 31 | 34 | Turner & Townsend Group | PM, QS | England | 16/17 | 4 674 | 4 034 | 560.5 | Vincent Clancy |
| 32 | 30 | Tractebel Engineering | MD | Belgium | 16 | 4 400 | 4 400 | 570.0 | Daniel Develay |
| 33 | 31 | TPF Group | MD | Belgium | 16 | 4 200 | 4 250 | 254.0 | Thomas Spitaels |
| 34 | 33 | Sogeti High Tech * | I | France | 16 | 4 145 | 4 145 | | Jean-Pierre Petit |
| 35 | 36 | AYESA | MD | Spain | 16 | 4 065 | 3 657 | 240.5 | José Luis Manzananares Japón |
| 36 | 35 | Ansaldo STS | | Italy | 16 | 3 951 | 3 772 | 1327.4 | Andrew Barr |
| 37 | 99 | RINA Group (D'Appolonia) | CT/I | Italy | 16 | 3 738 | 700 | 398.9 | Ugo Salerno |
| 38 | 43 | CH2M Group Europe (fmr Halcrow) * | MD | England | 16 | 3 482 | 2 800 | 456.6 | Mark Thurston |
| 39 | 41 | Norconsult AS | MD | Norway | 16 | 3 250 | 3 000 | 456.3 | Per Kristian Jacobsen |
| 40 | 37 | Tebodin, Consultants & Engineers * | MD | Netherlands | 16 | 3 196 | 3 600 | 224.8 | Niels van Rhenen |
| 41 | 39 | Antea Group | MD | Netherlands | 16 | 3 057 | 3 377 | 395.0 | Menno Smits & Rob van Dongen |
| 42 | 40 | Capita Property & Infrastructure LTD | MD | England | 16 | 3 018 | 3 018 | 291.6 | Dave Spencer |
| 43 | 46 | IDOM Group | MD | Spain | 16 | 2 980 | 2 695 | 275.9 | Luis Rodriguez |
| 44 | 98 | Sigma Group | I | Sweden | 16 | 2 785 | 734 | 297.6 | Dan Olofsson |
| 45 | 45 | Ricardo plc | I | England | 16/17 | 2 728 | 2 725 | 401.9 | Dave Shemmans |
| 46 | 47 | TYPSA Group | MD | Spain | 16 | 2 454 | 2 502 | 230.1 | Pablo Bueno Tomás |
| 47 | 26 | Sener Group * | MD | Spain | 16 | 2 411 | 2 432 | 910.7 | Jorge Sendagorta Gomendio |
| 48 | 53 | Etteplan Oy | I | Finland | 16 | 2 407 | 2 074 | 183.9 | Juha Näkki |
| 49 | 42 | Ineco, Ingeniería y Economía del Transporte SA * | CE | Spain | 16 | 2 401 | 2 850 | 206.7 | Jesús Silva |
| 50 | 51 | Multiconsult | MD | Norway | 16 | 2 344 | 2 110 | 319.7 | Christian Nørgaard Madsen |
| 51 | 48 | Iberdrola Ingeniería Y Construcción * | CE, Env, PM | Spain | 16 | 2 300 | 2 350 | 276.0 | Fernando Bocharán Merino |
| 52 | 49 | PM Group (Project Management Group) * | PM, MD | Ireland | 16 | 2 200 | 2 200 | | David Murphy |

THE EUROPEAN TOP 300 CONSULTING ENGINEERING AND ARCHITECTURAL GROUPS

| 2017 | 2016 | Group | Services | Country | Average Annual number of report employees | | (Previous year) | Turnover MEUR | CEO/Managing director |
|------|------|--|------------------|-----------------|---|-------|-----------------|---------------|--|
| 53 | 67 | NIRAS-Gruppen A/S (acquired Alecia) | MD | Denmark | 16 | 2 152 | 1 404 | 279.4 | Carsten Toft Boesen |
| 54 | 204 | SETEC Group (Setec TPI) | MD | France | 16 | 2 100 | 2 000 | 230.0 | Grégory Viel, Pierre Vicedo |
| 55 | 50 | Drees & Sommer-Gruppe * | PM | Germany | 16 | 2 000 | 2 150 | 334.8 | Hans Sommer (chairman) |
| 56 | 54 | Mace Group (consultancy) | PM | England | 16 | 1 987 | 2 062 | 261.4 | Mark Reynolds |
| 57 | 44 | Semcon AB | I | Sweden | 16 | 1 956 | 2 795 | 182.8 | Markus Granlund |
| 58 | 56 | ILF Consulting Engineers | MD | Germany/Austria | 16 | 1 943 | 1 975 | 216.7 | Klaus Lässer |
| 59 | 57 | Rejler group | E,I,CE | Sweden | 16 | 1 939 | 1 793 | 243.7 | Peter Rejler |
| 60 | 58 | Gleeds * | PM | England | 16 | 1 910 | 1 723 | 251.1 | Richard Steer |
| 61 | 55 | EPTISA * | MD | Spain | 16 | 1 800 | 2 000 | | Luis Villarroya Alonso |
| 62 | 60 | RLE International Gruppe GmbH | I, PM | Germany | 16 | 1 800 | 1 700 | 130.0 | Ralf Laufenberg |
| 63 | 68 | Tyréns AB (acquired Hilson Moran) * | CE, PM | Sweden | 16 | 1 785 | 1 372 | 216.1 | Johan Dozzi |
| 64 | 354 | Buro Happold | MD | England | 16/17 | 1 719 | 1 647 | 196.3 | Roger Nickells |
| 65 | 59 | Ingérop S.A (acquired Rendel) | MD | France | 16 | 1 700 | 1 700 | 207.0 | Yves Metz |
| 66 | 61 | MWH Europe | MD, Env | England | 16 | 1 698 | 1 643 | 207.4 | Catherine Schefer |
| 67 | 81 | RSK Group | Env | England | 16/17 | 1 600 | 1 125 | 127.9 | Alan Ryder |
| 68 | 62 | WYG | MD | England | 16/17 | 1 568 | 1 596 | 171.9 | Douglas McCormick |
| 69 | 63 | Fichtner Group | Enr, MD | Germany | 16 | 1 538 | 1 578 | 281.0 | Georg Fichtner |
| 70 | 69 | Combitech AB (acquired Tikab) * | I | Sweden | 16 | 1 502 | 1 355 | 186.2 | Hans Torin |
| 71 | 74 | Foster & Partners Ltd | A | England | 16/17 | 1 480 | 1 284 | | Norman Foster & Matthew Streets |
| 72 | 66 | AEDAS Architects Group * | A | England | 16/17 | 1 400 | 1 450 | | Keith Griffiths |
| 73 | 71 | Yuksel Proje Uluslararası AS * | CE | Turkey | 16 | 1 400 | 1 350 | 37.9 | Celal Akin |
| 74 | 73 | Obermeyer Planen+Beraten GmbH * | MD | Germany | 16 | 1 400 | 1 300 | | Maximilian Grauvogl |
| 75 | 75 | HIQ International AB | I | Sweden | 16 | 1 361 | 1 270 | 172.7 | Lars Stugemo |
| 76 | 70 | Sogclair SA | I | France | 16 | 1 338 | 1 354 | 136.5 | Phillippe Robardey |
| 77 | 65 | Proger SpA | MD | Italy | 16 | 1 300 | 1 500 | 125.0 | Umberto Sgambati |
| 78 | 131 | EMAY International Engineering & Consultancy * | CE, A | Turkey | 16 | 1 300 | 500 | | Mehmet Kaba |
| 79 | 82 | Müller-BBM Holding GmbH | MD | Germany | 16 | 1 255 | 1 065 | 160.3 | Bittner, Grotz, Hantschk, Ropertz, Schierer & Schröder |
| 80 | 76 | Waterman Group plc | MD | England | 16/17 | 1 223 | 1 253 | 102.4 | Nick Taylor |
| 81 | 77 | Italconsult S.p.A * | PM | Italy | 16 | 1 200 | 1 200 | | Antonio Bevilacqua |
| 82 | 78 | Sweett Group (acquired by Currie & Brown) | PM | England | 15/16 | 1 176 | 1 176 | 67.7 | Douglas McCormick |
| 83 | 72 | Safège Consulting Engineers | Env, S, CE | France | 16 | 1 150 | 1 300 | 105.2 | Annelise Avril |
| 84 | 79 | SLR Group (SLR Management) | Env | England | 15/16 | 1 138 | 1 151 | 128.5 | Neil Penhall |
| 85 | 80 | Movares Group BV | CE, E | Netherlands | 16 | 1 100 | 1 140 | 133.0 | Frits Immers |
| 86 | 86 | MCA Groupe * | I | France | 16 | 1 100 | 950 | 84.0 | Pierre Ebenstein |
| 87 | 87 | Tauw Group bv | MD | Netherlands | 16 | 1 037 | 923 | 109.3 | Anнемieke Nijhof |
| 88 | 83 | Gruner Ltd. (Gruner-Gruppe AG) * | MD | Switzerland | 16 | 1 019 | 1 035 | 120.4 | Flavio Casanova |
| 89 | 84 | Asplan Viak group | MD | Norway | 16 | 984 | 985 | 117.3 | Øyvind Mork |
| 90 | 85 | Witteveen+Bos Consulting Engineers | MD | Netherlands | 16 | 952 | 973 | 137.1 | Sluis Leeuw, van der Biezen |
| 91 | 226 | Dorsch Gruppe * | MD | Germany | 16 | 913 | 200 | 95.7 | Olaf Hoffmann |
| 92 | 91 | BDP Building Design Partnership | A | England | 16 | 903 | 897 | 94.2 | John McManus |
| 93 | 88 | FERCHAU Aviation * | I | Germany | 15 | 900 | 900 | 70.0 | Harald Felten |
| 94 | 92 | AREP Groupe | MD | France | 16 | 900 | 850 | 103.0 | Thierry Chantriaux |
| 95 | | AGAP2 (Hiq Consulting) | I | France | 16 | 863 | 800 | 76.2 | Franck Deschodt |
| 96 | | Ekium Group | MD | France | 16 | 850 | | 80.0 | Philippe Lanoir |
| 97 | 97 | Projektengagemang AB (acquired HJR Projektel & Konkret Rådgiv. Ing.) * | PM | Sweden | 16 | 843 | 735 | 122.2 | Ped Hedeback |
| 98 | 95 | Amstein + Walthert AG * | E, M | Switzerland | 16 | 820 | 800 | | Christian Appert |
| 99 | 90 | Neste Jacobs Group | I | Finland | 16 | 802 | 855 | 153.9 | Jarmo Suominen |
| 100 | 135 | Hoare Lea & Partners * | E, M, Enr | England | 16 | 800 | 482 | | Brian Clargo (Partner) mfl. |
| 101 | 116 | Elomatic Group Oy | I, MD | Finland | 16 | 777 | 587 | 54.7 | Patrik Rautaheimo |
| 102 | 96 | IV-Groep b.v. * | MD | Netherlands | 16 | 761 | 804 | 114.9 | Rob van de Waal |
| 103 | 357 | Golder Associates Europe * | Env, CE, PM, Enr | England | 16 | 751 | | 116.4 | Anna-Lena Öberg-Högsta |
| 104 | 104 | ÚJV Řez, a. s. | Enr, I | Czech Republ. | 16 | 750 | 665 | 56.8 | Karel Krížek |

| 2017 | 2016 | Group | Services | Country | Average Annual number of report employees | | (Previous year) | Turnover MEUR | CEO/Managing director |
|------|------|---|---------------------|-------------|---|-----|--------------------|------------------|--------------------------------------|
| 105 | 103 | GETINSA-PAYMA S.A | CE, Env, PM | Spain | 16 | 710 | 668 | 46.2 | Pedro D. Gómez González |
| 106 | 108 | Peter Brett Associates | MD | England | 15/16 | 700 | 603 | 69.6 | Paul Reilly |
| 107 | 235 | GOPA-Consultants Group * | PM,I,Env | Germany | 16 | 700 | 195 | 168.3 | Martin Güldner, Berthold Averweg |
| 108 | 100 | Cundall Johnston & Partners * | CE,S,Env | England | 16 | 685 | 795 | 51.6 | Tomás Neeson |
| 109 | 106 | White Architects | A,PM, Env | Sweden | 16 | 682 | 632 | 92.9 | Monica von Schmalensee |
| 110 | 119 | GHESA Ingeniería y Tecnología | CE,Env,Enr | Spain | 16 | 682 | 563 | 78.7 | Javier Perea |
| 111 | 137 | FCG Finnish Consulting Group | MD | Finland | 16 | 673 | 477 | 79.0 | Kimmo Kasteenpohja |
| 112 | 117 | Granlund Oy | E,M | Finland | 16 | 666 | 577 | 61.7 | Pekka Metsi |
| 113 | 113 | ATP Architects Engineers | A,CE,E,M | Austria | 16 | 650 | 600 | 69.7 | Christoph M. Achammer |
| 114 | 107 | Emch + Berger Gruppe * | MD | Switzerland | 16 | 630 | 610 | 85.0 | Urs Schneider |
| 115 | 114 | BG Bonnard & Gardel Groupe SA (BG Consulting Engineers) | MD | Switzerland | 16 | 628 | 598 | 84.5 | Pierre Kohler |
| 116 | 115 | INROS LACKNER | MD | Germany | 16 | 628 | 593 | 50.5 | Uwe Lemcke |
| 117 | 101 | CSD Group | Env, PM, CE,S, E | Switzerland | 16 | 624 | 607 | 78.3 | Jean-Pascal Gendre |
| 118 | 122 | Broadway Malyan Ltd | A | England | 16/17 | 612 | 559 | 57.9 | Gary Whittle |
| 119 | 121 | Tengbom group | A | Sweden | 16 | 603 | 558 | 65.4 | Johanna Frelin |
| 120 | 126 | Ingenieurbüro Dipl.- Ing. H. Vössing GmbH | MD | Germany | 16 | 601 | 512 | 49.7 | Rudolf Vienenkötter, Heiko Borchardt |
| 121 | 94 | Prointec S.A * | MD | Spain | 16 | 600 | 800 | 42.0 | Jordi Dagá Sancho |
| 122 | 109 | AIA Life Designers* | CE,A | France | 16 | 600 | 600 | | Christian Bougeard |
| 123 | 110 | Gauß Gruppe * | MD | Germany | 16 | 600 | 600 | 76.0 | Gerhard H. Gauß |
| 124 | 112 | Basler & Hofmann AG * | MD | Switzerland | 16 | 600 | 600 | | Dominik Courtin & Jürg Büchler |
| 125 | 134 | Orbicon A/S | MD | Denmark | 16 | 579 | 486 | 70.2 | Per Christensen |
| 126 | 125 | HPC AG | Env,PM,CE | Germany | 16 | 574 | 512 | 54.0 | Josef Klein-Reesink, Andreas Kopton |
| 127 | 118 | Deerns Consulting Engineers BV | E, M, PM, I | Netherlands | 16 | 554 | 569 | 64.0 | Jan Karel Mak |
| 128 | 120 | PCG-Profabril Consulplano Group | MD | Portugal | 16 | 554 | 559 | 38.7 | Ilidio de Ayala Serôdio |
| 129 | 129 | MOE A/S | MD | Denmark | 16 | 554 | 506 | 71.4 | Christian Listov-Saabye |
| 130 | 358 | Pell Frischmann Group | MD | England | 16 | 538 | | 29.1 | Sudho Prabhu |
| 131 | 128 | Krebs und Kiefer Beratende Ingenieure | CE,S, PM | Germany | 16 | 532 | 462 | 47.6 | Jan Akkermann |
| 132 | 133 | SITO Group Oy | CE, Env, PM | Finland | 16 | 525 | 495 | 50.1 | Tapio Puurunen |
| 133 | 124 | CDM Smith Europe GmbH * | CE, Env | Germany | 16 | 513 | 513 | 50.0 | Hans Martin Gaus (chairman) |
| 134 | 138 | Knightec AB | I | Sweden | 16/17 | 503 | 474 | 50.6 | Dimitris Gioulekas |
| 135 | 89 | ABMI-groupe S.A * | I | France | 15 | 500 | 900 | 70.0 | Philippe Chatron |
| 136 | 123 | Gmp Architekten von Gerkan, Marg und Partner * | A | Germany | 16 | 500 | 515 | | Meinhard von Gerkan, Volkwin Marg |
| 137 | 132 | Fairhurst * | MD | Scotland | 16 | 500 | 500 | | Robert McCracken |
| 138 | 136 | Wardell Armstrong LLP * | MD | England | 16/17 | 480 | 480 | | Keith Mitchell |
| 139 | 142 | Clafis Engineering * | I | Netherlands | 16 | 480 | 450 | | Lambert Jonker |
| 140 | 164 | JBA Group Limited | CE, Env | England | 15/16 | 469 | 413 | 31.1 | |
| 141 | 383 | Ridge And Partners Llp | CE,A | England | 16 | 469 | 411 | 31.1 | Adrian O'Hickey |
| 142 | 143 | Arkitema K/S | A,PM | Denmark | 16 | 466 | 450 | 48.6 | Peter Hartmann Berg |
| 143 | 127 | Benoy Limited (Architects) | A | England | 16 | 461 | 508 | 55.0 | Tom Cartledge |
| 144 | | Worley Parsons | I | England | 16 | 460 | | | Alan Gordon |
| 145 | 141 | Pick Everard Ltd * | MD | England | 16 | 450 | 450 | | Duncan Green |
| 146 | 140 | Citec Group | I, Env | Finland | 16 | 445 | 456 | 48.3 | Martin Strand |
| 147 | 144 | PBR Planungsbüro Rohling AG * | MD | Germany | 16 | 440 | 435 | 48.4 | Heinrich Eustrup |
| 148 | 146 | Rapp Gruppe | MD | Switzerland | 16 | 440 | 440 | 59.5 | Bernhard Berger |
| 149 | 167 | Grimshaw Architects Llp | A | England | 16/17 | 435 | 406 | 67.7 | Jolyon Brewis |
| 150 | 151 | Structor group | CE,PM | Sweden | 16 | 433 | 391 | 70.8 | Fladvad, Hulthén, Texte |
| 151 | 145 | Assmann Beraten + Planen GmbH | MD | Germany | 16 | 429 | 429 | 31.5 | Peter Warnecke / Martin Fecke |
| 152 | 139 | A-Insinööri Group | S, CE, PM | Finland | 16 | 427 | 466 | 54.2 | Jyrki Keinänen |
| 153 | 180 | Wise Group Finland Oy | CE | Finland | 16 | 427 | 293 | 42.5 | Aki Puska |

PM = Project Management, A = Architecture, CE = Civil-/S = Structural Engineering, CT = Certification and testing, Env = Environment, Enr = Energy, E = Electrical, M = Mechanical/HEVAC, I = Industrial, MD = Multi Disciplinary – (*) = lack of conforming figure/proforma/assumed

THE EUROPEAN TOP 300 CONSULTING ENGINEERING AND ARCHITECTURAL GROUPS

| 2017 | 2016 | Group | Services | Country | Average Annual number of report employees | | (Previous year) | Turnover MEUR | CEO/Managing director |
|------|------|--|-----------------------|-------------|---|-----|-----------------|---------------|---|
| 154 | 111 | Acciona Ingenieria Sa * | I | Spain | 16 | 425 | 600 | 91.9 | Pedro Martínez |
| 155 | 157 | Bengt Dahlgren AB | M,Enr | Sweden | 16 | 414 | 364 | 51.7 | no CEO |
| 156 | 149 | Amberg Group * | CE,S,PM | Switzerland | 16 | 400 | 400 | | Felix Amberg |
| 157 | 150 | Opus Joynes Pike (Opus International) * | CE,S,Env | England | 16 | 400 | 391 | 39.7 | David Prentice |
| 158 | | Hill International Europe * | CE,PM | England | 16 | 400 | | 37.1 | |
| 159 | 156 | Steer Davies Gleave Ltd | CE | England | 15/16 | 382 | 370 | 43.3 | Hugh Jones |
| 160 | 147 | Herzog & de Meuron Architekten AG * | A | Switzerland | 16 | 380 | 420 | | Pierre de Meuron; Jacques Herzog |
| 161 | 165 | Burckhardt+Partner AG * | A | Switzerland | 16 | 380 | 335 | | Philipp Bruhlmeier |
| 162 | 148 | Zaha Hadid Architects | A | England | 15/16 | 379 | 402 | 53.1 | Zaha Hadid, Patrik Schumacher |
| 163 | 168 | HPP Hentrich-Petschnigg & Partner (HPP Architects) | A | Germany | 16 | 377 | 360 | 45.5 | Joachim H. Faust, Gerhard G. Feldmeyer |
| 164 | 175 | Sheppard Robson * | A | England | 15/16 | 374 | 306 | 23.1 | Andrew German |
| 165 | | Holinger AG | CE | Switzerland | 16 | 373 | 346 | 42.9 | Peter Rudin |
| 166 | 158 | DOLSAR Engineering Inc. Co. | PM, CE, Env, E, M, MD | Turkey | 16 | 371 | 352 | 5.1 | H. İrfan Aker |
| 167 | 166 | Verkís hf | MD | Iceland | 16 | 364 | 329 | 49.7 | Sveinn Ingi Ólafsson |
| 168 | 153 | Insta Automation Oy | I | Finland | 16 | 358 | 378 | 60.0 | Timo Lehtinen |
| 169 | 170 | ABT Holding BV | MD | Netherlands | 16 | 357 | 313 | 41.4 | Gerard Doos, Rudi Roijackers |
| 170 | 176 | Curtins Group | CE,PM | England | 16 | 351 | 303 | 31.2 | Rob Melling |
| 171 | 177 | Chapman Taylor LLP | A | England | 16/17 | 350 | 318 | 41.0 | Chris Lanksbury |
| 172 | 197 | NET Engineering S.p.A | MD | Italy | 15 | 350 | 256 | 24.0 | Giovanni Battista Furlan |
| 173 | 205 | Geo | I | Denmark | 16 | 350 | 240 | 27.4 | Kim Sillemann |
| 174 | 284 | Dansk Ingeniørservice A/S | I | Denmark | 16 | 350 | 143 | 43.6 | Michael Gadeberg |
| 175 | 163 | HENN Architekten * | A | Germany | 16 | 341 | 350 | 48.0 | Gunter Henn (CEO), Martin Henn, Stefan Sinning, Frank Hoffmeister |
| 176 | 188 | Bjerking AB | CE,M | Sweden | 16 | 332 | 274 | 45.9 | Anders Wärefors |
| 177 | 174 | Barton Willmore Group | A,PM | England | 15/16 | 329 | 306 | 39.9 | Stephen Toole |
| 178 | 171 | BAC Engineering Consultancy Group * | MD | Spain | 17 | 325 | 310 | 17.5 | Joan Franco Poblet |
| 179 | 182 | Stride Treglown Group PLC | A | England | 16 | 321 | 307 | 25.1 | Darren Wilkins |
| 180 | 152 | Hifab Group AB | PM | Sweden | 16 | 320 | 390 | 49.4 | Patrik Schelin |
| 181 | 155 | GPO Ingenieria, S.A. | MD | Spain | 16 | 320 | 374 | 22.4 | Xavier Montobbio |
| 182 | 257 | Bartels Engineering B.V. * | CE,S,PM | Netherlands | 16 | 311 | 166 | | Taco Klevering, Pieter van Boom |
| 183 | 179 | Aveco de Bondt BV (acquired Wareco)* | CE | Netherlands | 15 | 310 | 300 | | Gerrit Paalman |
| 184 | 173 | INBO Architects/Consultants * | A,PM | Netherlands | 16 | 308 | 308 | | Aaron Bogers |
| 185 | 154 | Vahanen Group Oy | CE | Finland | 16 | 306 | 375 | 28.1 | Risto Rätty |
| 186 | 189 | Efla hf | MD | Iceland | 16 | 303 | 273 | 49.3 | Guðmundur Þorbjörnsson |
| 187 | 203 | Purcell Architects | A | England | 16 | 302 | 241 | 24.3 | Mark Goldspink |
| 188 | 169 | Kelprojekta * | A | Lithuania | 16 | 301 | 320 | 10.7 | Algimantas Medziausis |
| 189 | 187 | BIG / Bjarke Ingels Group * | A | Denmark | 16 | 300 | 280 | 33.6 | Sheela Maini Søgaard |
| 190 | 178 | Allies & Morrison Architects Ltd * | A | England | 16 | 300 | 300 | | Bob Allies |
| 191 | | Lombardi SA * | CE,PM | Switzerland | 16 | 300 | | | Roger Bremen |
| 192 | 172 | C.F.Møller architects | A | Denmark | 16 | 297 | 309 | 42.3 | Klaus Toustrup |
| 193 | 200 | O.M.A. Office for Metropolitan Architecture * | A | Netherlands | 16 | 295 | 247 | 31.9 | Rem Koolhaas |
| 194 | 219 | PRP Architects Ltd * | A | England | 16 | 292 | 216 | 21.7 | Neil Griffiths |
| 195 | | SALFO & Associates SA | | Greece | 16 | 292 | 217 | 24.4 | Ioannis Foteinos |
| 196 | 195 | 3ti Progetti | CE | Italy | 16 | 288 | 262 | 25.2 | Alfredo Ingletti |
| 197 | 181 | Mannvit hf. | MD | Iceland | 16 | 282 | 290 | 47.8 | Jón Már Halldórsson |
| 198 | 162 | IPROconsult GmbH * | CE,Env,A | Germany | 15/16 | 282 | 350 | 19.6 | Lutz Junge |
| 199 | 185 | Steinbacher-Consult GmbH * | CE, PM | Germany | 16 | 280 | 280 | | Stefan Steinbacher |
| 200 | 191 | Heinle, Wischer und Partner | A,PM | Germany | 16 | 280 | 270 | 28.2 | T. Behnke, H. Chef-Hendriks, A. Gyalokay, T. Heinle, M. Kill, J. Krauß, C. Pelzeter, E. Schultz |
| 201 | | IUB Engineering AG * | CE,PM | Switzerland | 16 | 280 | | | Urs Müller |
| 202 | 183 | Henning Larsen Architects | A | Denmark | 16/17 | 275 | 281 | 36.1 | Mette Kynne Frandsen |
| 203 | 193 | Planungsgruppe M+M AG , PGMM * | E,M,PM, Enr | Germany | 16 | 275 | 265 | 28.0 | Hermann Ott |

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|------|------|--|-----------|---------------|---|-----|-----------------|---------------|---|
| 204 | 159 | Insinööri-toimisto Comatec Group | I, Enr | Finland | 16 | 273 | 350 | 19.3 | Aulis Asikainen |
| 205 | 250 | Pascall+Watson | A | England | 16 | 271 | 318 | 46.8 | Steve West |
| 206 | | HaCon | I,CE | Germany | 16 | 270 | | 42.0 | Michael Frankenberg |
| 207 | 218 | Scott Brownrigg Architects | A | England | 16/17 | 269 | 279 | 26.6 | Darren Comber |
| 208 | 201 | Aukett Swanke Group plc | A | England | 15/16 | 267 | 244 | 23.8 | Nicholas Thompson |
| 209 | 194 | WTM Engineers | MD | Germany | 16 | 258 | 263 | 26.0 | Karl Morgen |
| 210 | 198 | DRI upravljanje investicij (DRI Investment Management) * | PM | Slovenia | 16 | 256 | 254 | 17.3 | Jurij Kač |
| 211 | 209 | IVL Svenska Miljöinstitutet | Env,Enr | Sweden | 16 | 255 | 232 | 30.7 | Tord Svedberg |
| 212 | 196 | IBI Group Europe * | A | England | 16 | 254 | 260 | 24.0 | Paul Hewes |
| 213 | 199 | Dps Engineering * | MD | Ireland | 15 | 253 | 253 | 109.3 | Frank Keogh |
| 214 | 192 | HR Wallingford Group Ltd * | CE, Env,I | England | 15/16 | 251 | 269 | 25.6 | Bruce Tomlinson |
| 215 | 210 | ISC Rådgivende Ingeniører A/S | MD | Denmark | 16 | 250 | 231 | 29.4 | Kjeld Thomsen |
| 216 | 186 | Iproplan Planungsges. MbH * | MD | Germany | 16 | 250 | 280 | | Jörg Thiele |
| 217 | 221 | Heksagon Muhendislik Ve Tasarim A S * | I | Turkey | 16/17 | 250 | 210 | | Inan Kirac (chairman) |
| 218 | | Pini Swiss Engineers SA | CE | Switzerland | 16 | 250 | | | Olimpio Pini |
| 219 | 190 | Z-Dynamics (Infotiv & Combine Engineering) | I | Sweden | 16 | 248 | 272 | 23.4 | Alf Berntsson (Infotiv), Peter Karlsson (Combine) |
| 220 | 359 | Consulgal Group, SA. | MD | Portugal | 16 | 245 | | 17.2 | Rogério Monteiro Nunes |
| 221 | 202 | Avalon Innovation AB | I | Sweden | 16 | 240 | 242 | 32.4 | Peter Mattisson |
| 222 | 212 | Wilmotte & Associés * | A | France | 15/16 | 240 | 225 | 29.5 | Jean-Michel Wilmotte |
| 223 | 130 | EBP Ernst Basler & Partner Ltd * | MD | Switzerland | 16 | 239 | 244 | 48.9 | Daniel Schläpfer |
| 224 | 207 | Deltamarin Oy | I | Finland | 16 | 235 | 237 | 23.2 | Janne Uotila |
| 225 | 222 | Baur Consult Architekten Ingenieure | MD | Germany | 16 | 235 | 210 | | Andreas Baur, Peter Kuhn |
| 226 | 206 | SD Ingénierie Holding SA * | MD | Switzerland | 16 | 232 | 238 | | J. D. Girard |
| 227 | 237 | Leonhardt, André und Partner Beratende Ing. GmbH | S | Germany | 16 | 232 | 194 | 29.7 | Wolfgang Eilzer |
| 228 | 215 | Hjellnes Consult AS | MD | Norway | 16 | 230 | 223 | 28.7 | Geir Knudsen |
| 229 | 211 | UVATERV Engineering Consultants Ltd. * | MD | Hungary | 16 | 230 | 228 | 6.5 | Gyula Bretz |
| 230 | | Sophia Conseil | I | France | 16 | 230 | | 15.0 | |
| 231 | 269 | Essiq AB | I | Sweden | 15/16 | 227 | 153 | 18.3 | Jonas Sohtell |
| 232 | 208 | Pragoprojekt a.s * | CE | Czech Republ. | 15 | 225 | 234 | 12.6 | Marek Svoboda |
| 233 | | Romair Consulting | CE | Romania | 16 | 223 | | | Bogdan Boeru |
| 234 | 184 | RKW Architektur + * | A | Germany | 16 | 220 | 280 | 30.0 | Wojtek Grabianowski |
| 235 | 217 | Valode & Pistre * | A | France | 16 | 220 | 220 | | Valode & Pistre |
| 236 | 229 | B+S Ingenieur AG * | MD | Switzerland | 16 | 220 | 200 | | Walter Shaufelberger |
| 237 | 245 | Peutz Group bv * | Env,CE, I | Netherlands | 16 | 219 | 185 | | J.F.W. Koopmans |
| 238 | 346 | Protaccon group Oy | I,E,PM | Finland | 16 | 219 | 89 | 21.0 | Timo Akselin |
| 239 | 233 | BWB Consulting LTD (The BWB Partnership) | CE,S, Env | England | 15/16 | 217 | 198 | 19.9 | Steve Wooler |
| 240 | 240 | HLM Architects * | A | England | 15/16 | 216 | 190 | 20.5 | Christopher Liddle |
| 241 | 216 | Optiplan Oy | MD | Finland | 16 | 214 | 221 | 15.7 | Pekka Kiuru |
| 242 | 252 | Eltronic A/S | I | Denmark | 16 | 213 | 175 | 43.7 | Lars Jensen |
| 243 | 223 | Transprojekt Gdanski | CE,A | Poland | 16 | 210 | 206 | 2.6 | Marek Rytlewski |
| 244 | 315 | Troup Bywaters + Anders * | E,M | England | 16 | 210 | 120 | | Peter Anderson |
| 245 | | IBG B. Graf AG Engineering * | CE | Switzerland | 16 | 210 | | | Reto Graf |
| 246 | 214 | Force Technology Sweden | CE | Sweden | 16 | 207 | 223 | 18.0 | Per Gelang |
| 247 | 224 | Metroprojekt Praha A.S | MD | Czech Republ. | 15 | 207 | 205 | 14.5 | David Krása |
| 248 | 336 | Kling Consult Ingenieur GmbH * | CE | Germany | 16 | 207 | 100 | | Markus Daffner |
| 249 | 238 | EKJ Rådgivende Ingeniører A/S | MD | Denmark | 16 | 205 | 192 | 26.6 | Jørgen Nielsen |
| 250 | 236 | Eurocon Consulting AB | I | Sweden | 16 | 204 | 195 | 22.3 | Peter Johansson |
| 251 | 232 | Rogers Stirk Harbour & Partners * | A | England | 15/16 | 204 | 200 | 36.8 | Rickard Rogers |
| 252 | 160 | Temelsu International Engineering Services Inc.* | MD | Turkey | 16 | 200 | 350 | | Demir İnözü |

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| 2017 | 2016 | Group | Services | Country | Average Annual number of report employees | | (Previous year) | Turnover MEUR | CEO/Managing director |
|------|------|---|--------------|-------------|---|-----|-----------------|---------------|---|
| 253 | 230 | Politecnica- Ingegneria ed Architettura * | MD | Italy | 16 | 200 | 200 | 13.2 | Francesca Federzoni |
| 254 | 249 | SGI Consulting SA * | MD | Luxemburg | 16 | 200 | 180 | | Laurent Nilles |
| 255 | 271 | JG Ingenieros SA | M,E, Enr, I | Spain | 16 | 200 | 150 | 10.7 | Josep Túnica Buira |
| 256 | 280 | UNStudio (Van Berkel En Bos) * | A | Netherlands | 16 | 200 | 148 | | Ben van Berkel, Caroline Bos |
| 257 | 267 | MVRDV * | A | Netherlands | 16 | 199 | 157 | | Winy Maas, Jacob van Rijs, Nathalie de Vries |
| 258 | 213 | Goudappel Coffeng B.V * | MD | Netherlands | 16 | 197 | 225 | | Jos van Kleef |
| 259 | 292 | INYPISA Informes y Proyectos SA | MD | Spain | 16 | 195 | 286 | 19.2 | Valentín Estefanell Jara |
| 260 | | ewp AG Effretikon * | CE | Switzerland | 16 | 194 | 192 | 24.5 | Benno Singer |
| 261 | 239 | Dopravoprojekt, a.s. * | CE, S, A, PM | Slovakia | 14 | 192 | 192 | 17.8 | Gabriel Koczás |
| 262 | 270 | Keppie Design | A | Scotland | 15/16 | 191 | 152 | | Peter Moran |
| 263 | 246 | Consat AB | I | Sweden | 16 | 188 | 184 | 24.5 | Martin Wahlgren |
| 264 | 272 | Price & Myers * | CE | England | 16 | 185 | 150 | | Paul Batty m.fl |
| 265 | 248 | Wilkinson Eyre Architects Ltd | A | England | 16/17 | 183 | 181 | 23.4 | Chris Wilkinson, Jim Eyre |
| 266 | 234 | Metroul S.A. | MD | Romania | 16 | 181 | 196 | 19.6 | George Rozorea |
| 267 | 251 | Snohetta AS | A | Norway | 16 | 180 | 180 | 16.5 | Frydenlund, Molinar, Greenwood |
| 268 | 254 | ELU Konsult AB | S,CE | Sweden | 16/17 | 180 | 174 | 35.2 | Charlotte Bergman |
| 269 | 264 | i3tex AB | I | Sweden | 16 | 180 | 159 | 17.2 | Ulf Aiff |
| 270 | 384 | Bureau d'études Greisch * | CE,S,A,PM | Belgium | 16 | 180 | | | Vincent deVille de Goyet |
| 271 | | HMM Gruppe (Hefti, Hess, Martignoni)* | E,Enr | Switzerland | 16 | 180 | | | Urs von Arx |
| 272 | 256 | Coplan AG | I | Germany | 16 | 178 | 170 | 14.7 | Martin Steger |
| 273 | 225 | OTE Ingénierie SA (Omnium Technique Européen) | MD | France | 16/17 | 177 | 176 | 20.2 | Patrick Lullin |
| 274 | 266 | TCPM (TC Project Management B.V) | I | Netherlands | 16 | 176 | 158 | 13.7 | Rudie Veenendaal |
| 275 | | Dr. Eicher+Pauli AG * | CE,Enr | Switzerland | 16 | 175 | | | Dieter Többen |
| 276 | 161 | Technital SpA | CE | Italy | 16 | 174 | 350 | 32.2 | Alberto Scotti |
| 277 | 242 | FASE-Estudios e Proyectos S.A | MD | Portugal | 16 | 173 | 178 | 10.1 | Manuel Quinaz |
| 278 | 244 | Forsen Projekt Partner | PM | Sweden | 16 | 170 | 185 | 26.7 | Bengt Johansson |
| 279 | 255 | Destia Design * | CE | Finland | 15 | 170 | 170 | 20.0 | Heidi Erha |
| 280 | 279 | Advin B.V. - Adviseurs en Ingenieurs | MD | Netherlands | 16 | 170 | 149 | 22.6 | Ralph Henderix |
| 281 | | SC Search Corporation | CE | Romania | 16 | 170 | | | Michael M. Stanciu |
| 282 | | TBF + Partner AG | CE,PM | Switzerland | 16 | 170 | | 21.7 | Thomas Vollmeier |
| 283 | 263 | PDM Group (Pdm Corporate Management Services B.V.) | I | Netherlands | 16 | 168 | 159 | 15.2 | Hubert Mesterom |
| 284 | 253 | IBE D.D | MD | Slovenia | 16 | 167 | 174 | 12.4 | Uroš Mikoš |
| 285 | 285 | Dr Ing A Aas-Jakobsen AS | CE, PM | Norway | 16 | 163 | 142 | 80.8 | Trond A. Hagen |
| 286 | 243 | UTIBER LTD | CE,PM | Hungary | 16 | 162 | 186 | 0.0 | György Lakits |
| 287 | 260 | FS Dynamics AB | I | Sweden | 16/17 | 160 | 161 | 16.7 | Ulf Mårtensson |
| 288 | 261 | Progetto CMR * | A | Italy | 16 | 160 | 160 | | Massimo Roj |
| 289 | 262 | Jaspers-Eyers Architects * | A | Belgium | 14 | 160 | 160 | | John Eyers & Jean-Michel Jaspers |
| 290 | 388 | Prokon Muhendislik Ve Musavirlik A S (Prokon Engineering Ltd) * | MD | Turkey | 16 | 160 | | 9.1 | Hasan Özdemir, Ismail Salici |
| 291 | 392 | Henry J. Lyons Architects * | A | Ireland | 16 | 160 | | | Richard Doorly |
| 292 | 227 | Consitrans S.R.L. | CE,S,Env,PM | Romania | 16 | 159 | 200 | 3.1 | Eduard Hanganu |
| 293 | 301 | EPR Architects Group Ltd * | A | England | 15/16 | 159 | 129 | 14.0 | Stuart Lowther |
| 294 | 273 | Mecanoo Architecten | A | Netherlands | 16 | 158 | 150 | 16.0 | Francine Houben, Aart Fransen & Peter Haasbroek |
| 295 | 298 | Semrén Månsson Arkitektkontor AB | A | Sweden | 16/17 | 156 | 131 | 16.6 | Magnus Månsson, Anders Erlandsson |
| 296 | 241 | Frankham Consultancy Group | MD | England | 15/16 | 155 | 188 | 13.2 | Steven Frankham |
| 297 | 268 | CES Consulting Engineers Salzgitter GmbH * | MD | Germany | 16 | 155 | 155 | | Ralf Meyerhoff |
| 298 | 287 | Clancy Consulting | MD | England | 16/17 | 155 | 141 | 13.0 | Alan Bramwell |
| 299 | 274 | AS Architecture-Studio * | A | France | 16 | 150 | 150 | | Laurent Fischer & Jean-Francois Bonne |
| 300 | 275 | Studio Altieri S.p.A * | CE,A | Italy | 16 | 150 | 150 | | Francesco Viero |

PM = Project Management, A = Architecture, CE = Civil-/S = Structural Engineering, CT = Certification and testing, Env = Environment, Enr = Energy, E = Electrical, M = Mechanical/HEVAC, I = Industrial, MD = Multi Disciplinary – (*) = lack of conforming figure/proforma/assumed



*The new city block
Vallastaden in Linköping.*



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