



The Finnish technology industry is comprised of five sub-sectors





ELEKTRONICS AND ELECTROTECHNICAL INDUSTRY

ABB, Ensto, Murata Electronics, Nokia, Planmeca, Polar Electro, Suunto, Vacon, Vaisala...



METALS INDUSTRY

Boliden, Componenta, Kuusakoski, Luvata, Outokumpu, Ovako, Sacotec, SSAB ...



MECHANICAL ENGINEERING

Abloy, Cargotec,, Fiskars, Glaston, Kone, Konecranes, Metso, Meyer Turku, Neles, Normet, Oras, Patria, Pemamek, Ponsse, Prima Power, Stala, Valmet, Valtra, Wärtsilä...



INFORMATION TECHNOLOGY

Basware, CGI, Digia, Efecte, Enfo, F-Secure, Fujitsu Finland, IBM, Innofactor, Knowit, Microsoft, Nixu, TietoEVRY...



CONSULTING ENGINEERING

AFRY, A-Insinöörit, Citec, Elomatic, Etteplan, FCG, Granlund, Ramboll, Rejlers, Sitowise, SWECO, WSP...

The Finnish technology industry is comprised of five sub-sectors





ELEKTRONICS AND ELECTROTECHNICAL INDUSTRY

- Data communications equipment, electrical machinery, medical technology
- Turnover (2022): 21 billion euros
- Personnel (2022): 40,700



INFORMATION TECHNOLOGY

- IT services, applications and programming
- Turnover (2022): 19 billion euros
- Personnel (2022): 83,500



METALS INDUSTRY

- Steel products, non-ferrous metals, castings, metallic minerals
- Turnover (2022): 19 billion euros
- Personnel (2022): 16,000



MECHANICAL ENGINEERING

- Machinery, metal products, vehicles
- Turnover (2022): 38 billion euros
- Personnel (2022): 135,800



CONSULTING ENGINEERING

- Expertise for construction industry and infrastructure
- Turnover (2022): 7 billion euros
- Personnel (2022): 54,100

The technology industry – the largest export sector in Finland

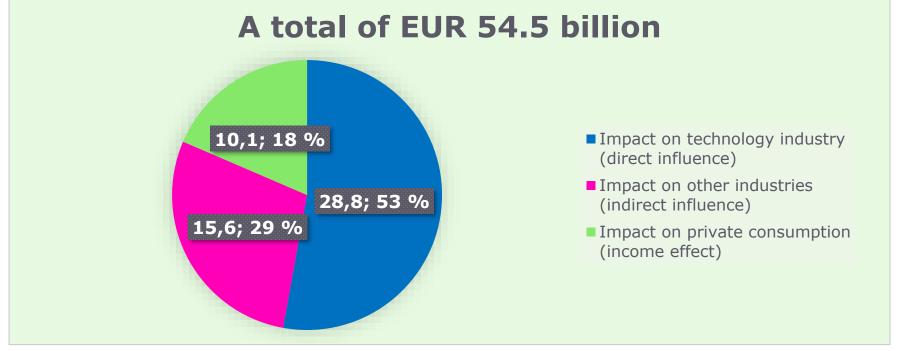


- Over **50** % of total exports.
- Some **338,000** employed directly in the sector, including indirect effects **720,000** people.
- Effect on value added totaling € 63 billion, or **29% of GDP** value added.
- Bring to Finland € 23 billion tax revenue annually.
- Investments almost **EUR 6.0 billion** annually in Finland.
- **65** % of private-sector R&D investment.



Value added to the economy generated by the technology industry is EUR 55 billion, or over 28% of GDP * (2017)

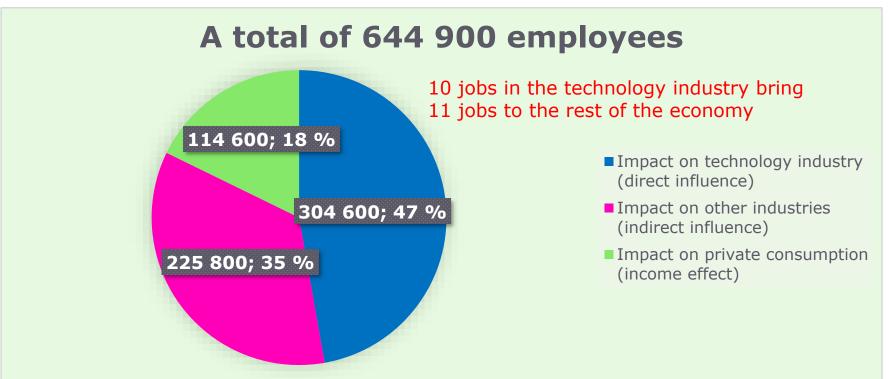




Technology Industries

of Finland

Technology industry generates nearly 650,000 jobs in Finland (over 25% of all employees) (2017)

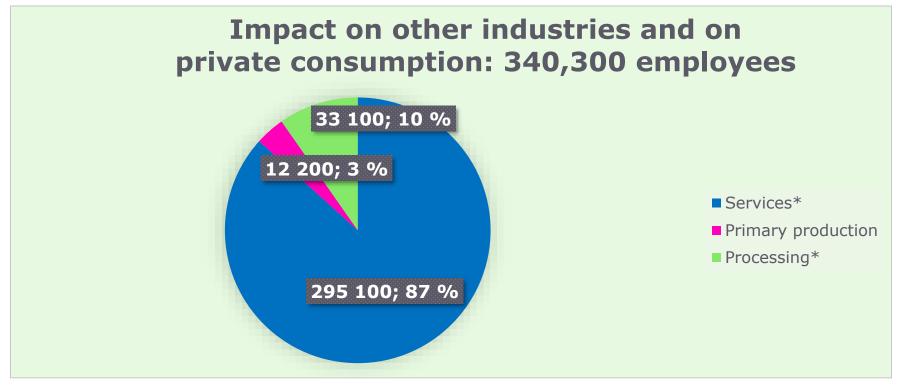


Technology Industries

of Finland

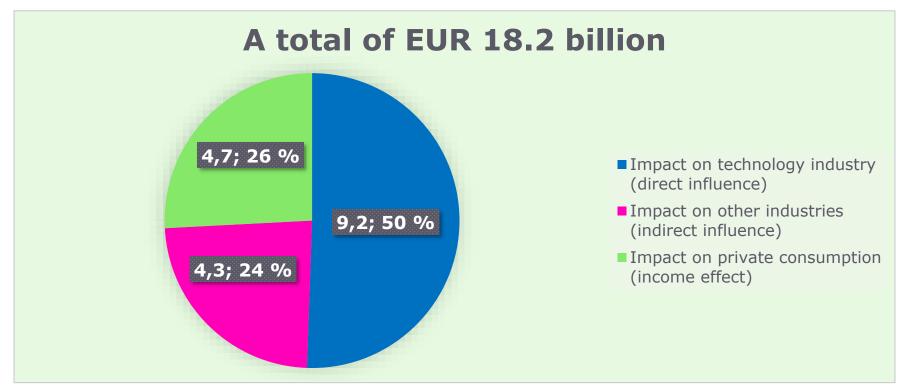
Every job in the technology industry generates almost another job in the services (2017)





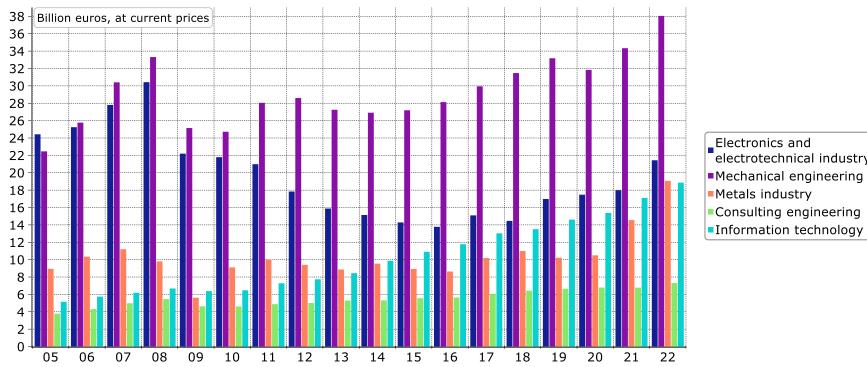
Technology industry generates over 18 billion euros in tax revenue annually in Finland (2017)





Turnover of the technology industry in Finland

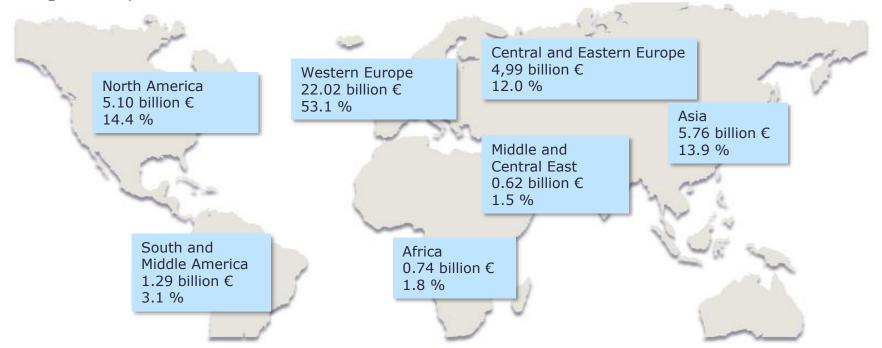




_Electronics and electrotechnical industry Mechanical engineering Metals industry Consulting engineering

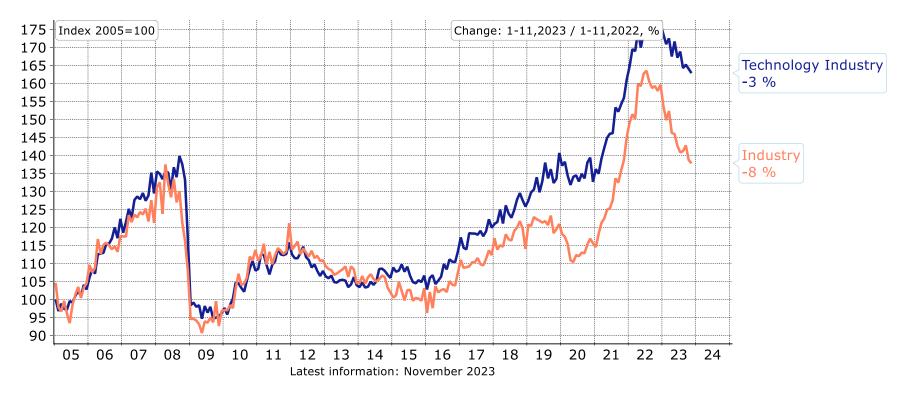
Export of tchnology industry goods from Finland by area in 2023

Total goods exports 41.50 billion euros*



Turnover of the industry and technology industry in Finland

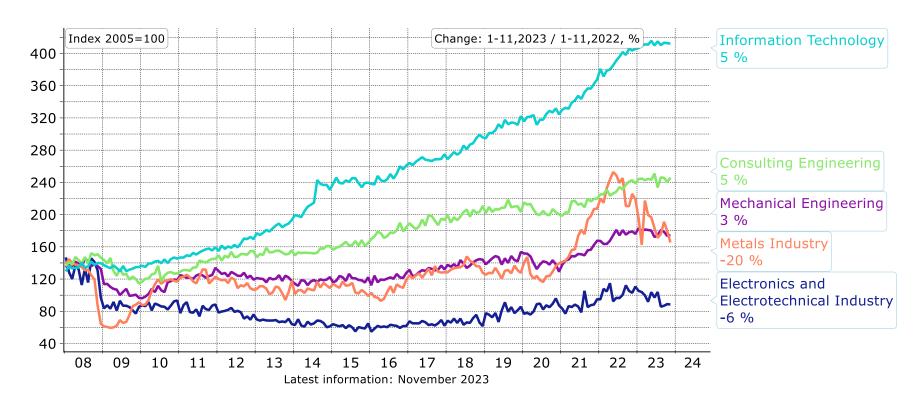




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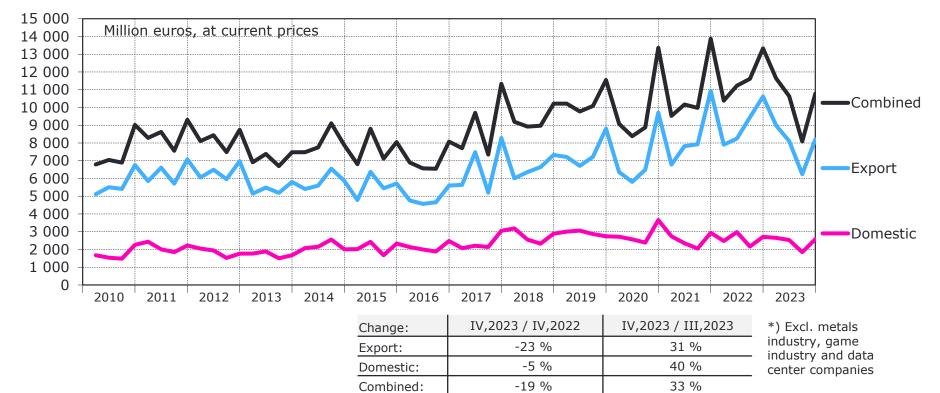
Turnover of the technology industry in Finland





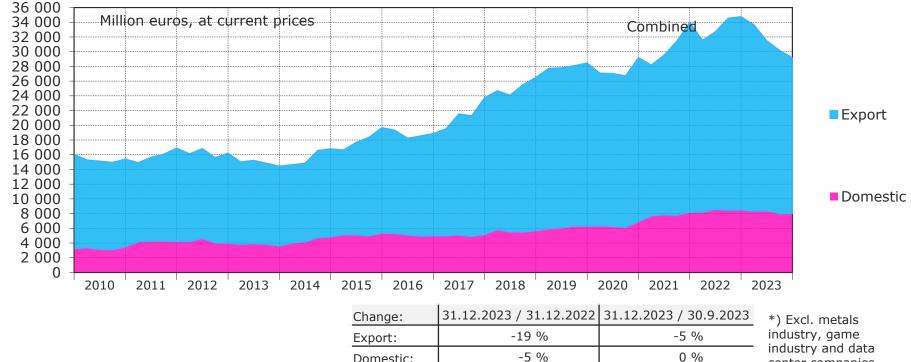
Value of new orders in the technology industry* in Finland





Value of order books in the technology industry* in Finland





center companies

-3 %

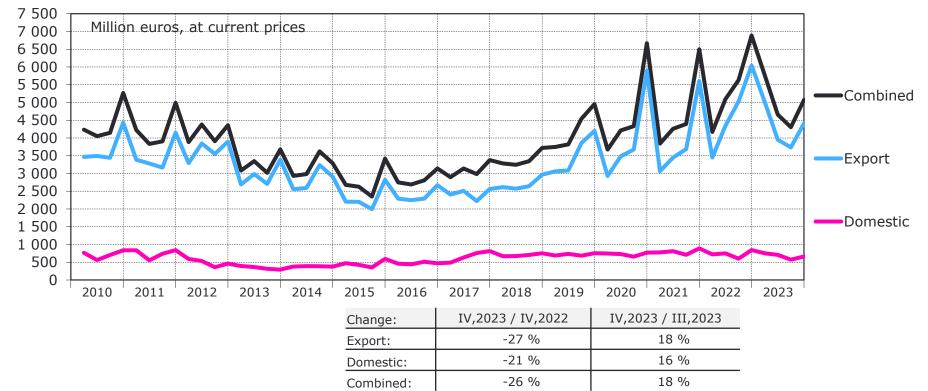
Combined:

-16 %

14

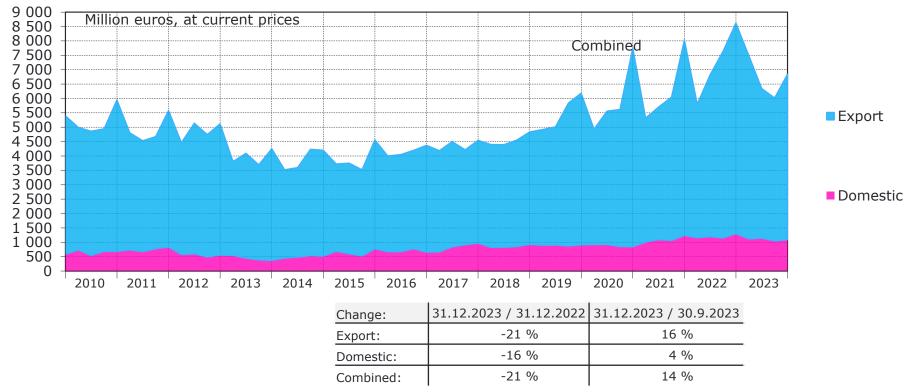
Value of new orders in the electronics and electrotechnical industry in Finland





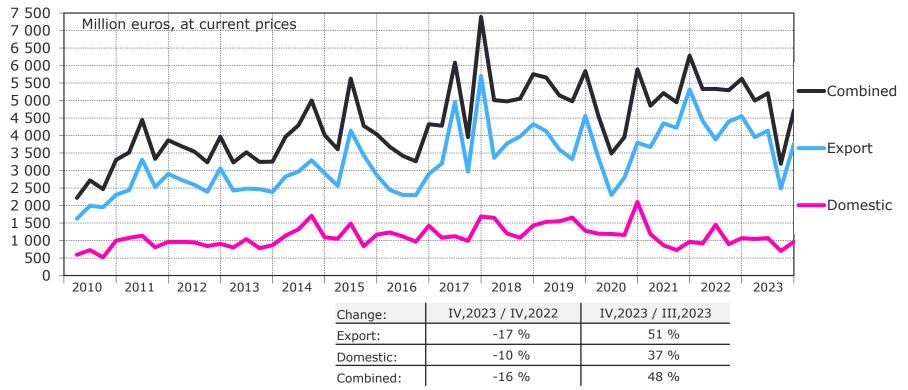
Value of order books in the electronics and electrotechnical industry in Finland





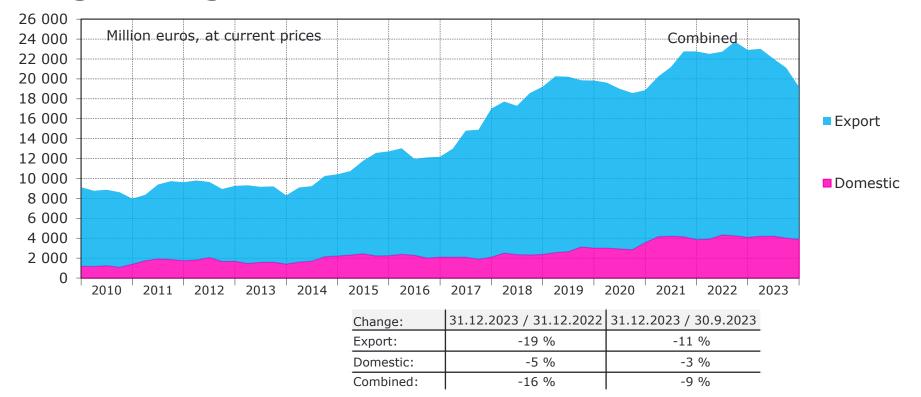
Value of new orders in the mechanical engineering in Finland





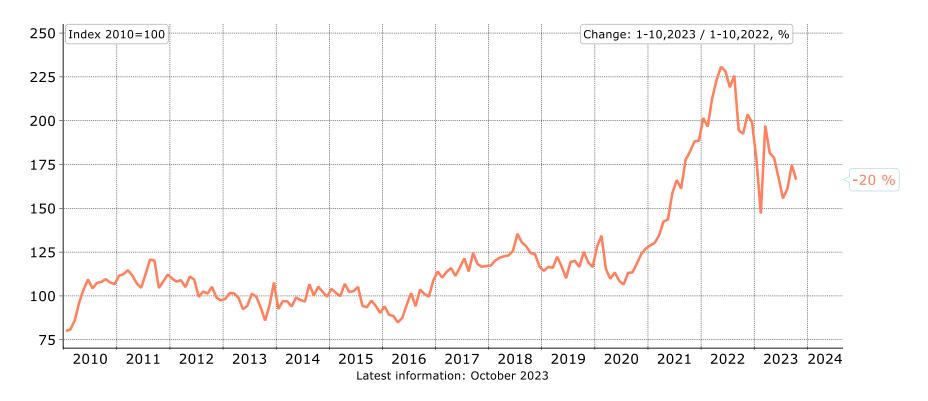
Value of order books in the mechanical engineering in Finland





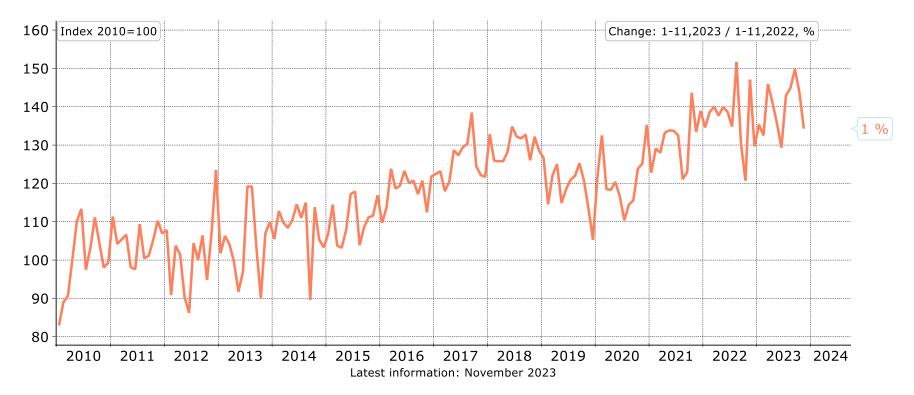
Turnover of the metals industry in Finland





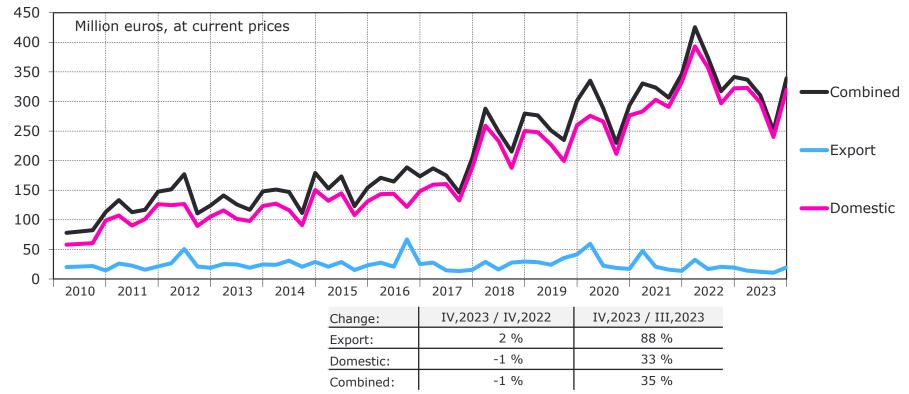
Production volume of the metals industry in Finland





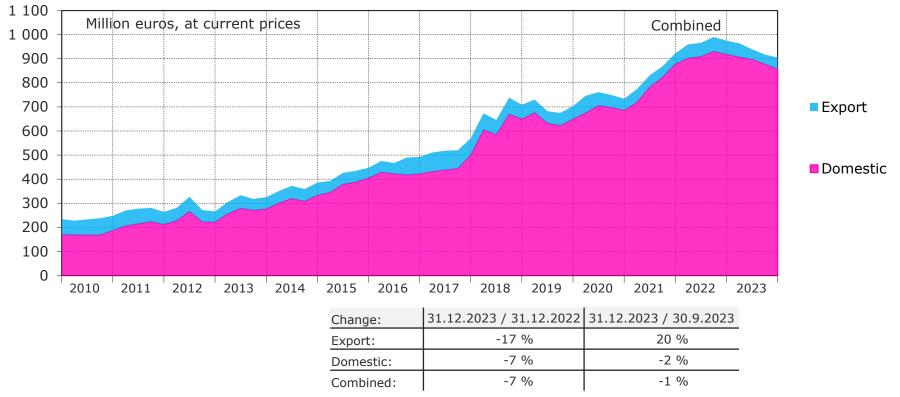
Value of new orders in the consulting engineering in Finland





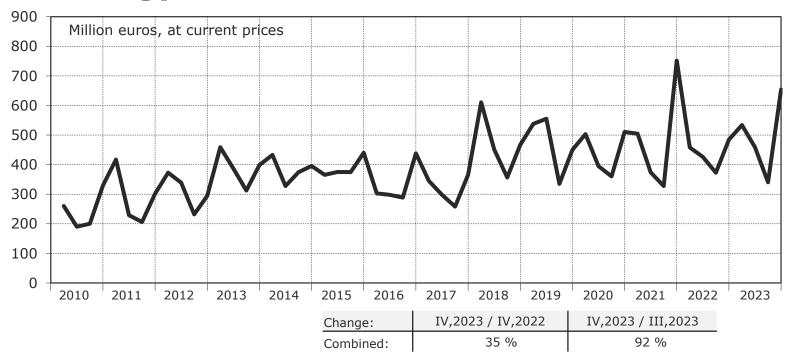
Value of order books in the consulting engineering in Finland





Value of new orders in the information technology* in Finland

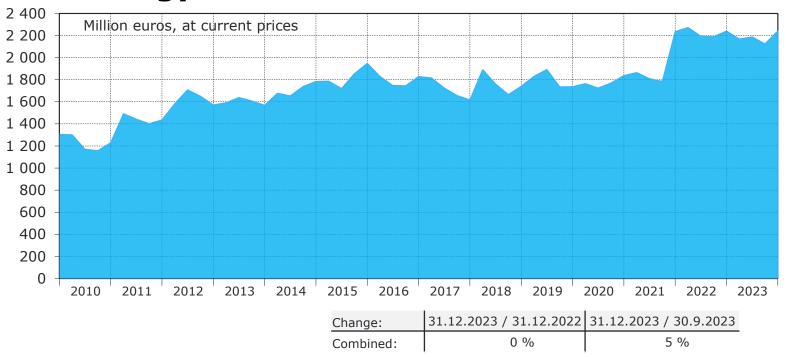




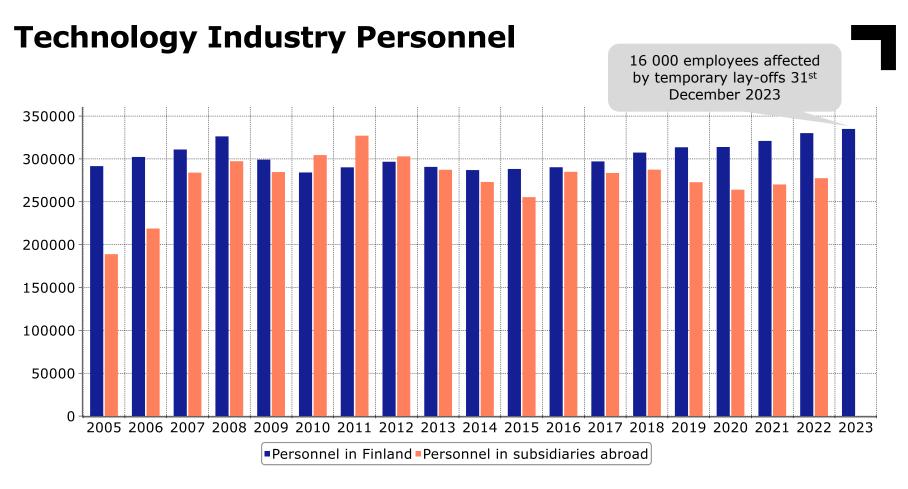
^{*)} Excl. game industry and data center companies

Value of Order Books in the Information Technology* in Finland



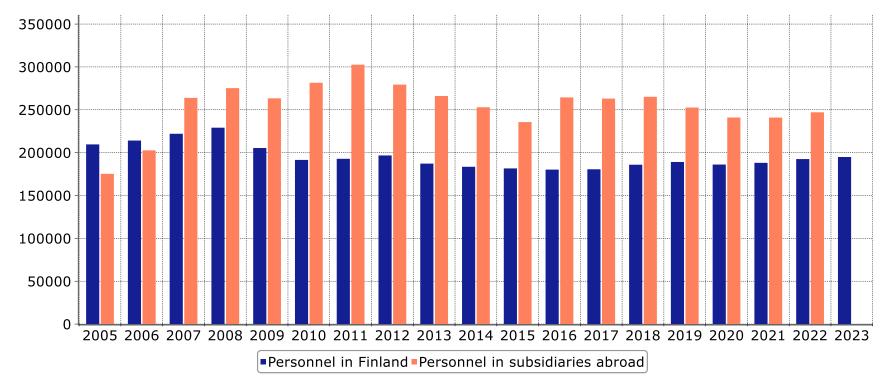


^{*)} Excl. game industry and data center companies



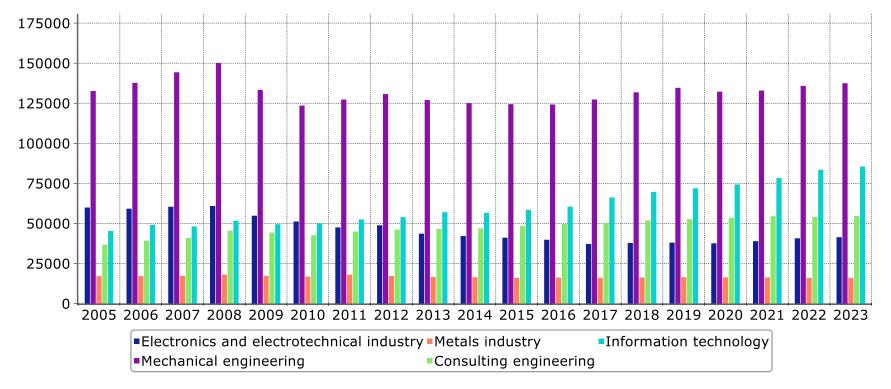
Technology Industry Personnel in Manufacturing Industry*





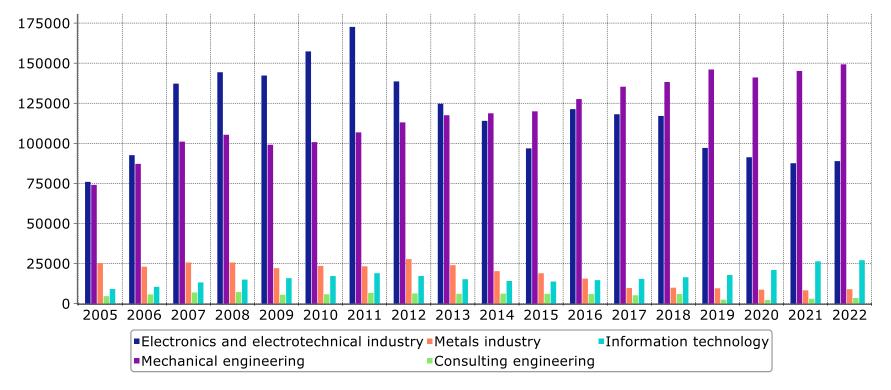
Technology Industry Personnel in Finland by Industry





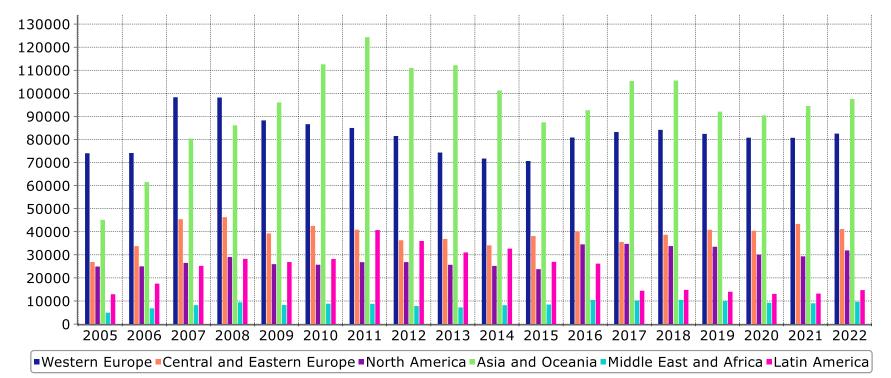
Technology Industry Personnel in Subsidiaries Abroad by Industry





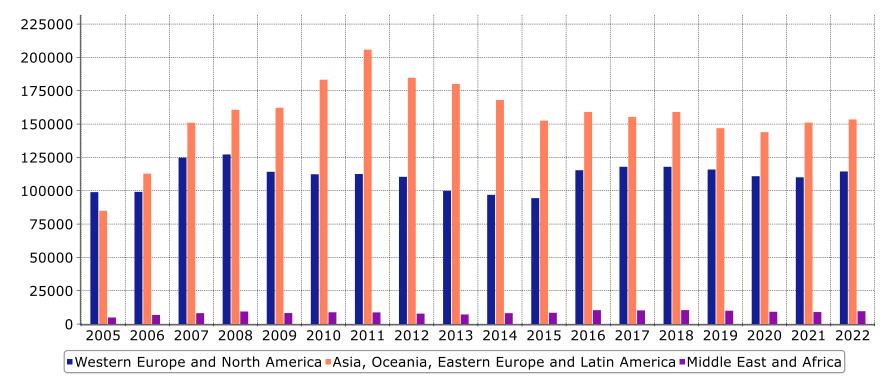
Technology Industry Personnel in Subsidiaries Abroad by Location





Technology Industry Personnel in Subsidiaries Abroad by Location

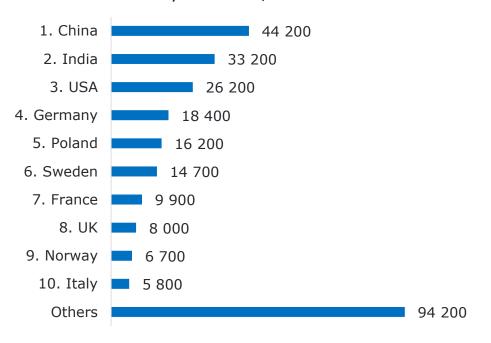


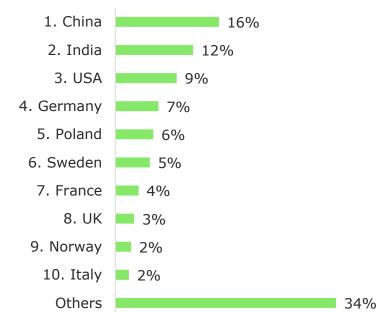


Technology Industry Personnel in Subsidiaries Abroad by Country



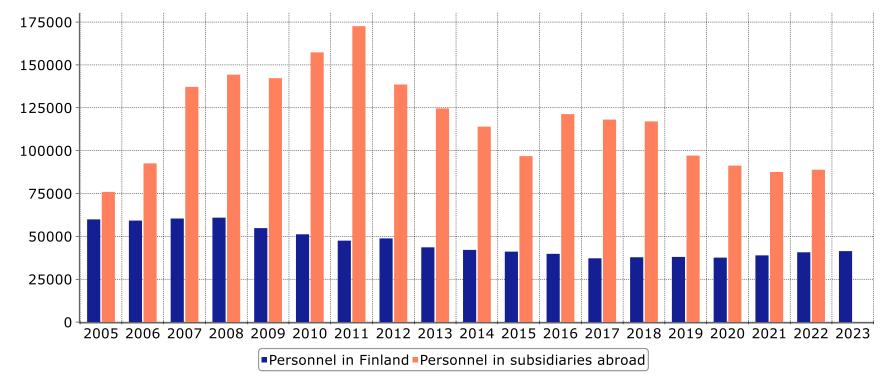
Information from year 2022, total 278 000





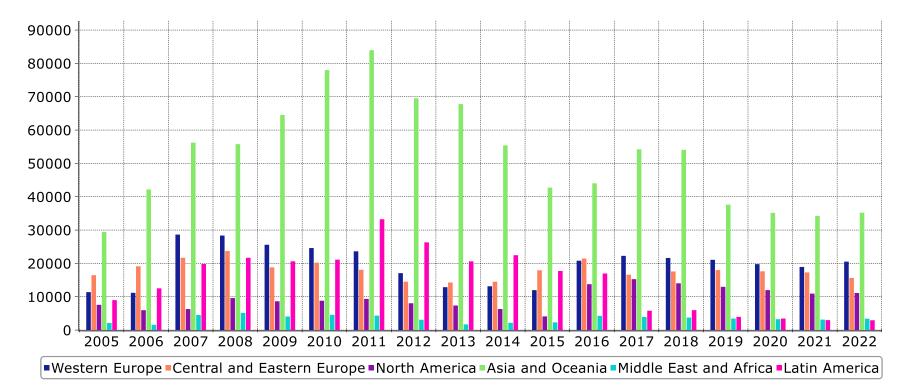
Personnel in Electronics and Electrotechnical **Industry**





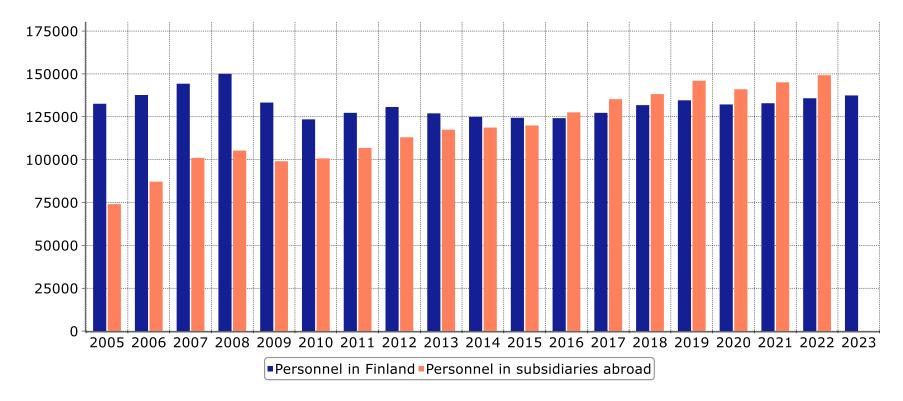
Electronics and Electrotechnical Industry Personnel in Subsidiaries Abroad





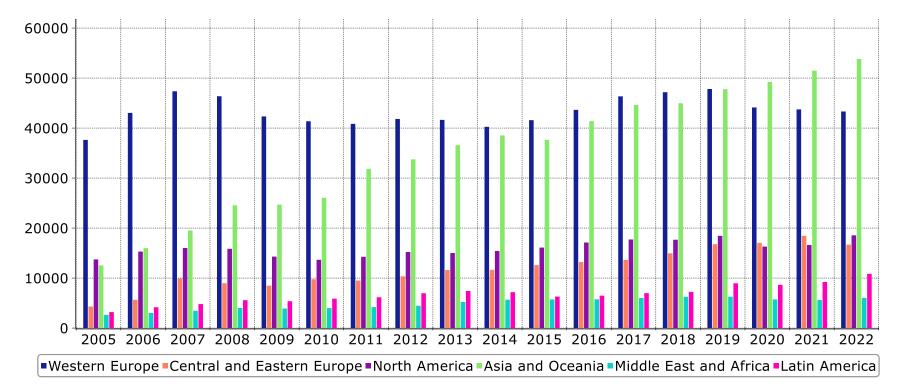
Personnel in the Mechanical Engineering





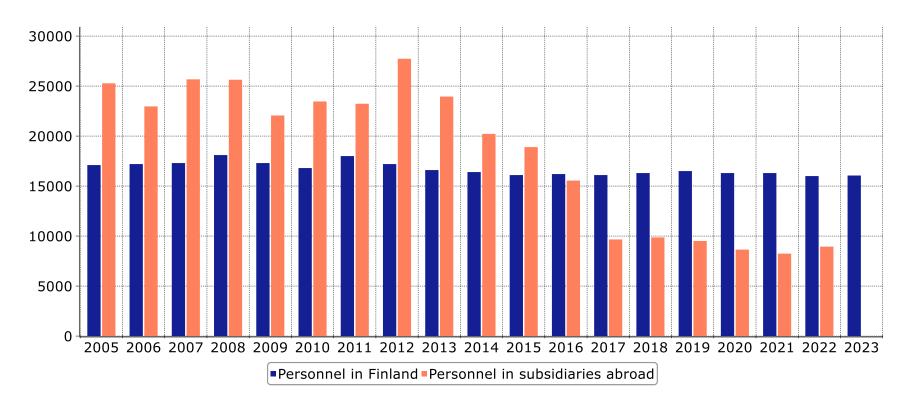
Mechanical Engineering Personnel in Subsidiaries Abroad





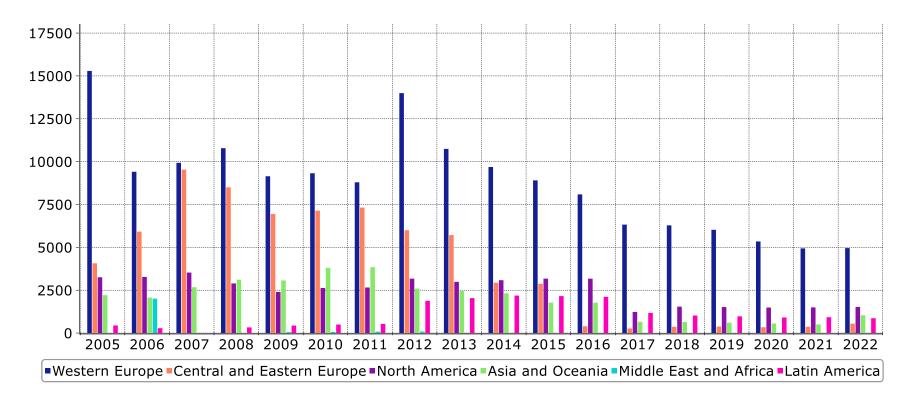
Personnel in the Metals Industry





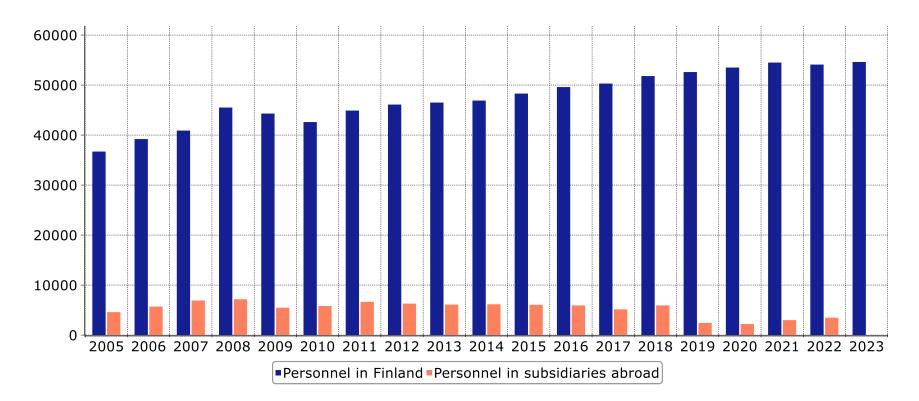
Metals Industry Personnel in Subsidiaries Abroad





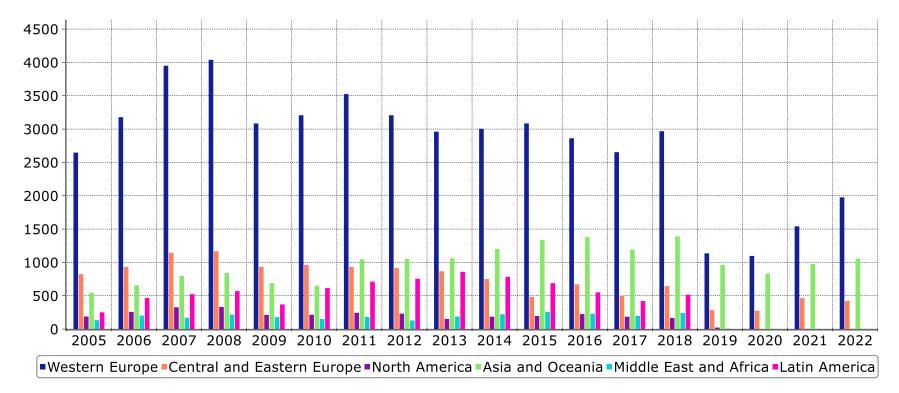
Personnel in Consulting Engineering





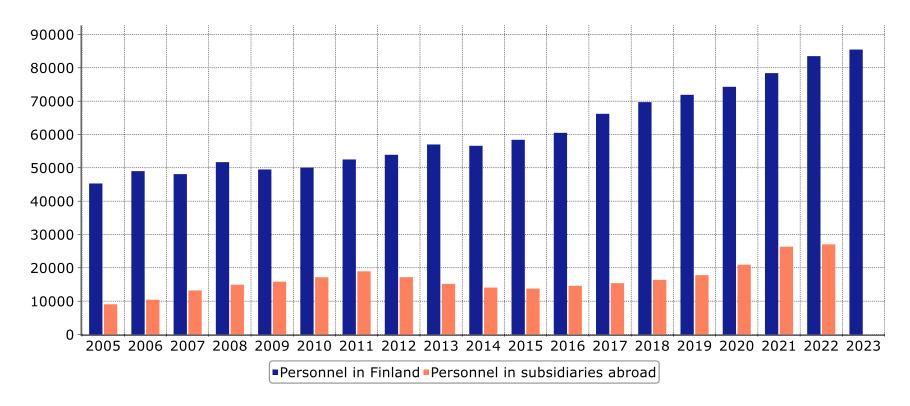
Consulting Engineering Personnel in Subsidiaries Abroad





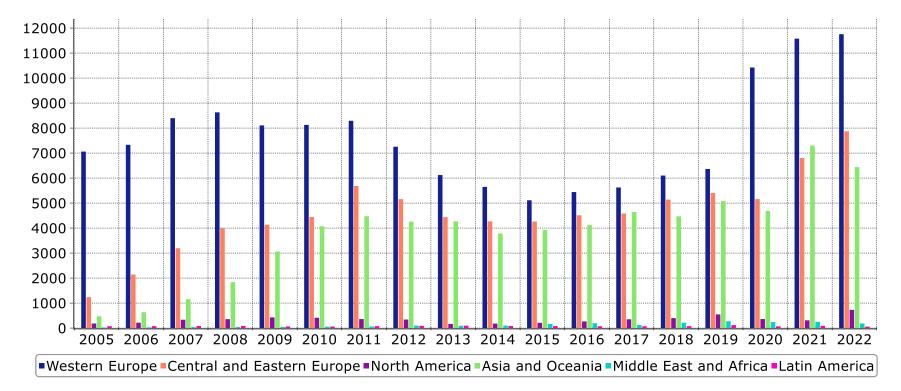
Personnel in Information Technology





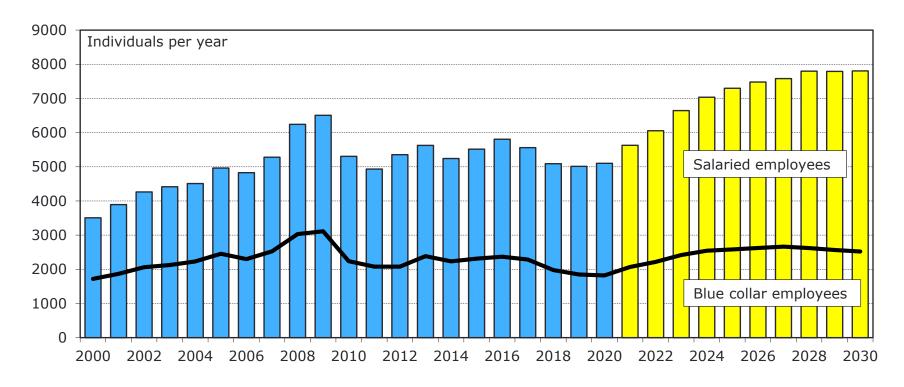
Information Technology Personnel in Subsidiaries Abroad





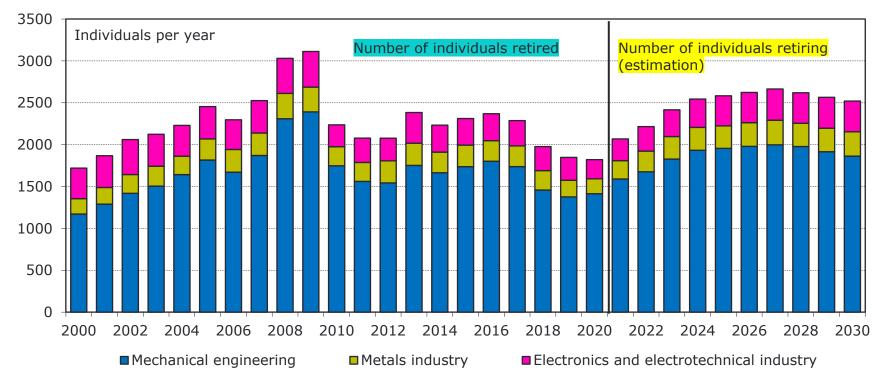
Retirement of technology industry personnel in **Finland**





Retirement of technology industry blue collar employees in Finland



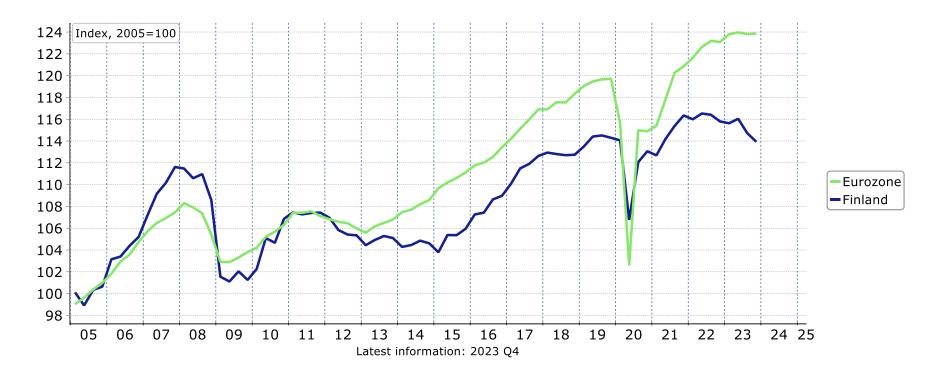




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GDP in Euro Area and Finland by quarter

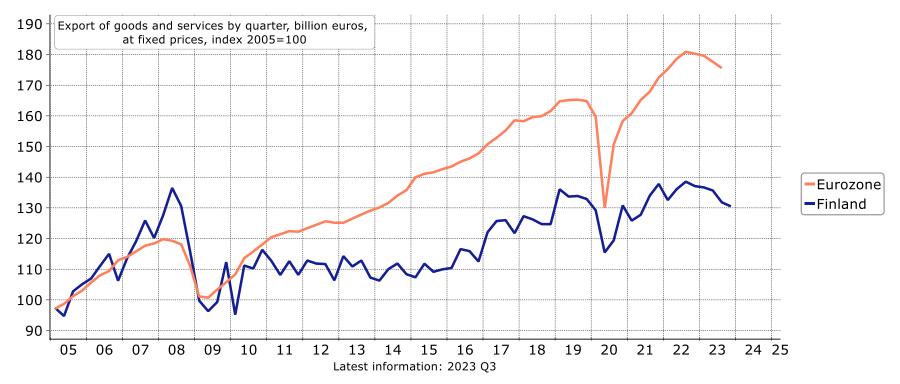




Lähde: Macrobond

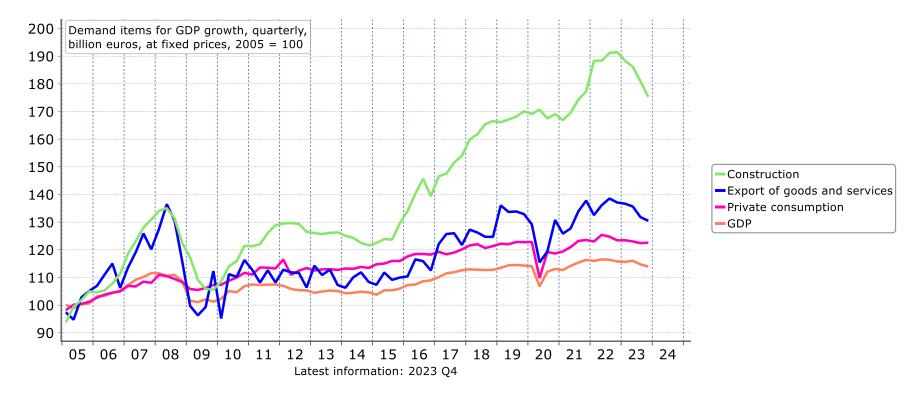
Export of goods and services from Finland and Euro Area by quarter





GDP by demand sector in Finland by quarter

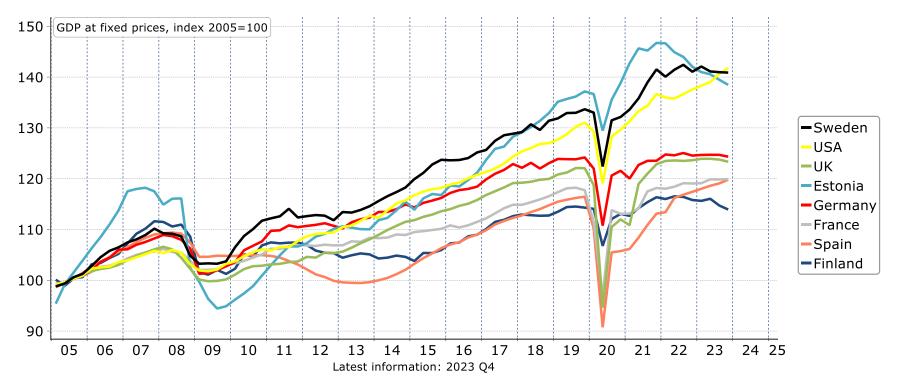




GDP in some western countries

Souce: Macrobond



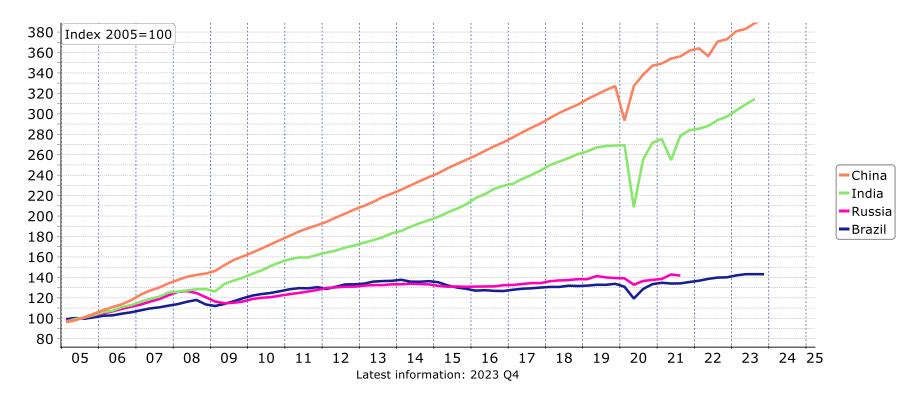


GDP in large developing countries

Source: Macrobond

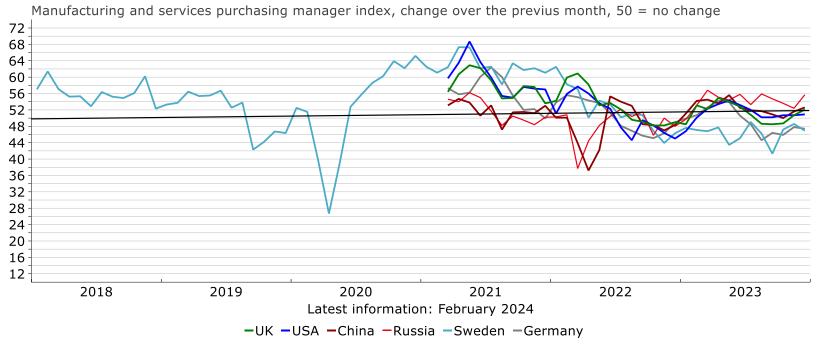


China, India, Brazil and Russia account for 31% of the world economy, adjusted for purchasing power



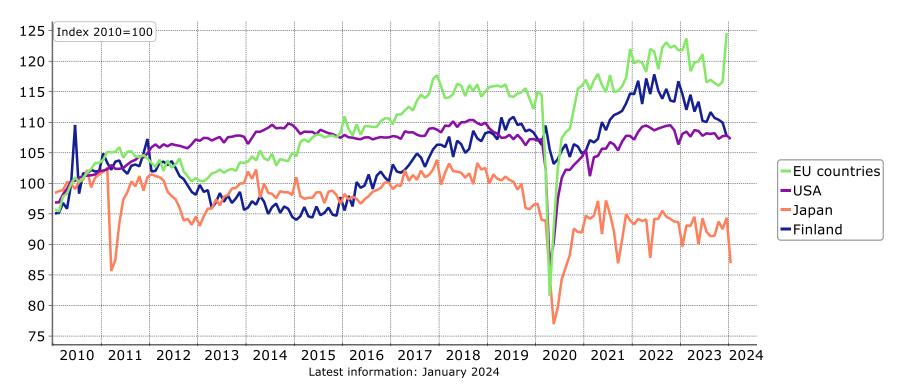
3/5/2024

Purchasing Manager Indices for the entire business sector in Finland's most important export countries



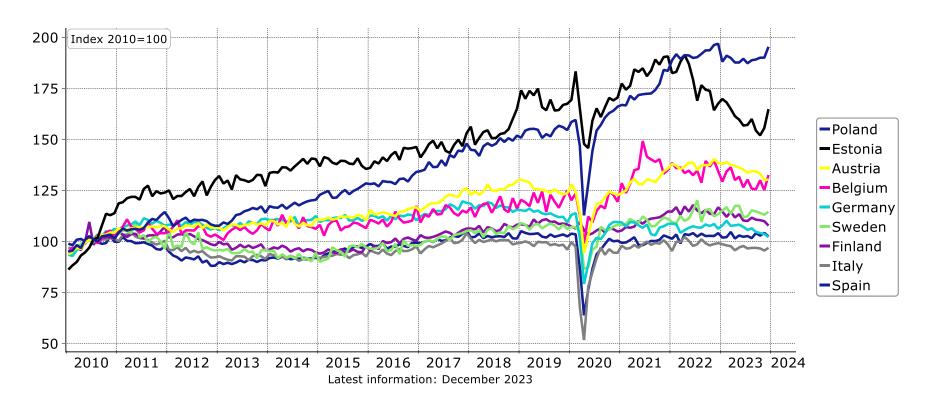
Industrial Production Volume in USA, EU, Japan and Finland





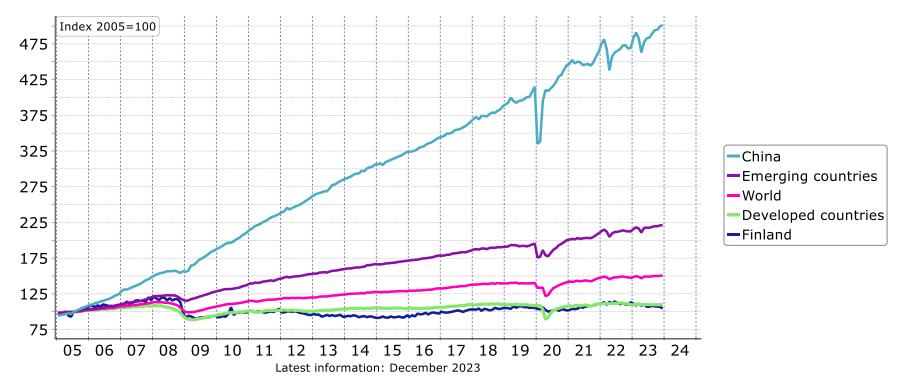
Industrial Production Volume in EU-Countries





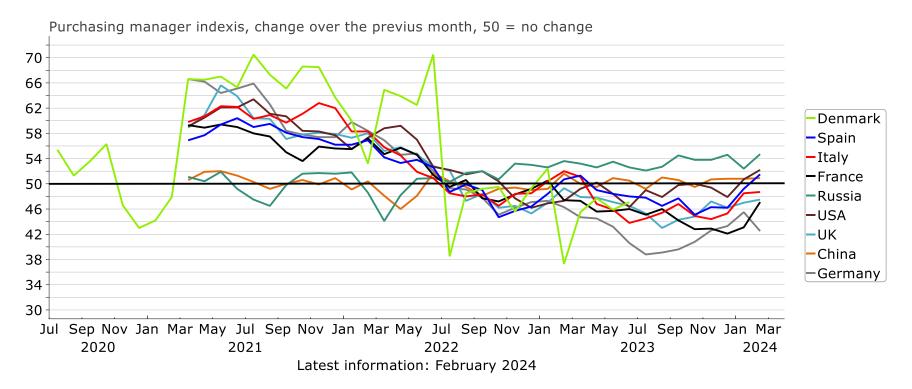
Industrial production globally





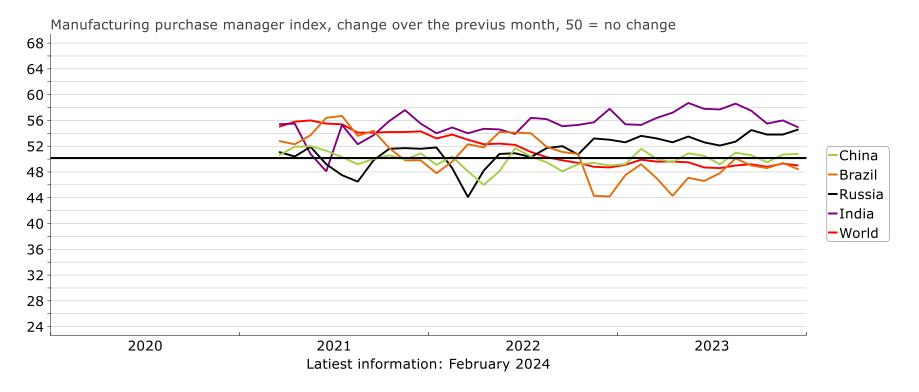
Purchasing Manager indices for the manufacturing industries





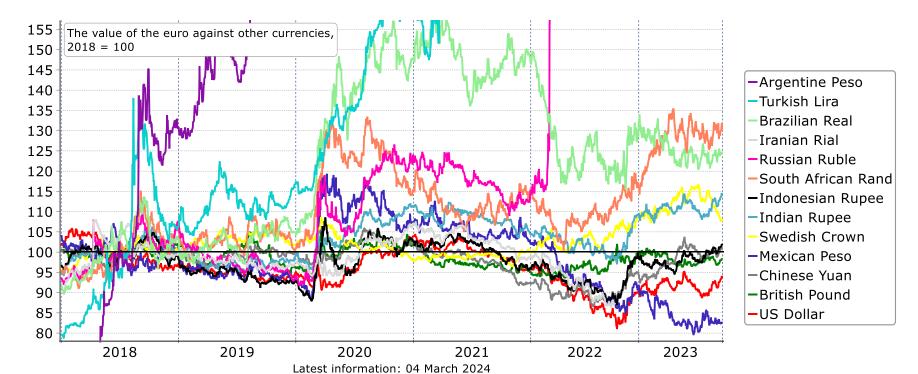
Purchasing Manager indices for the manufacturing industries in major developing countries





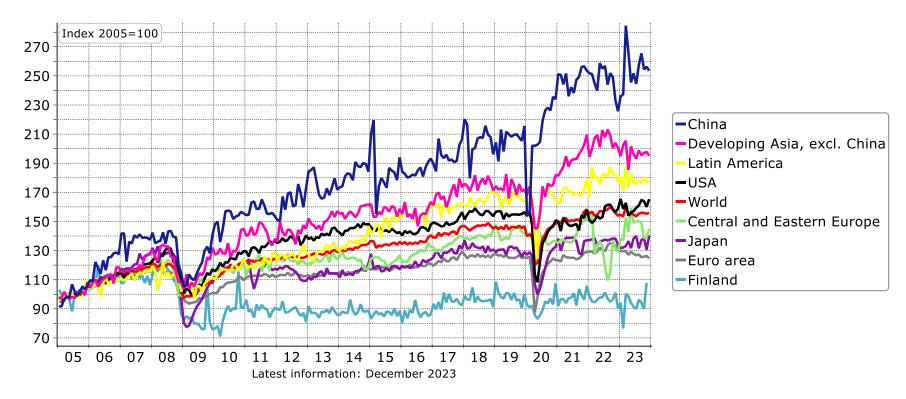
Exchange rates (when the curve rises, the value of the Euro strengthens against the other currency)





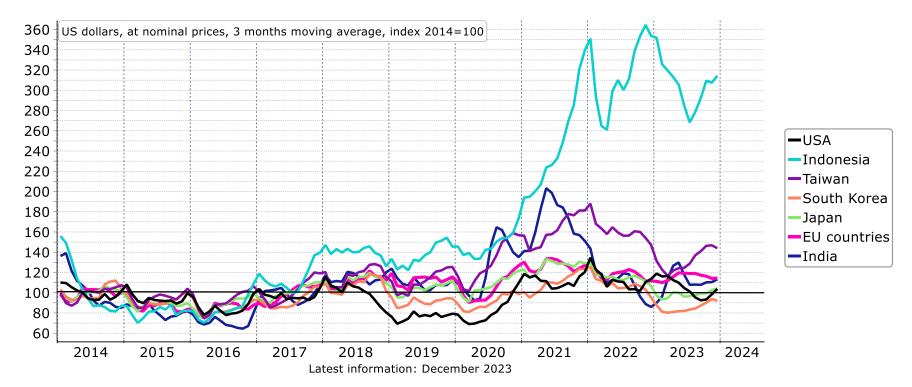
Goods export volume





Chinese goods imports

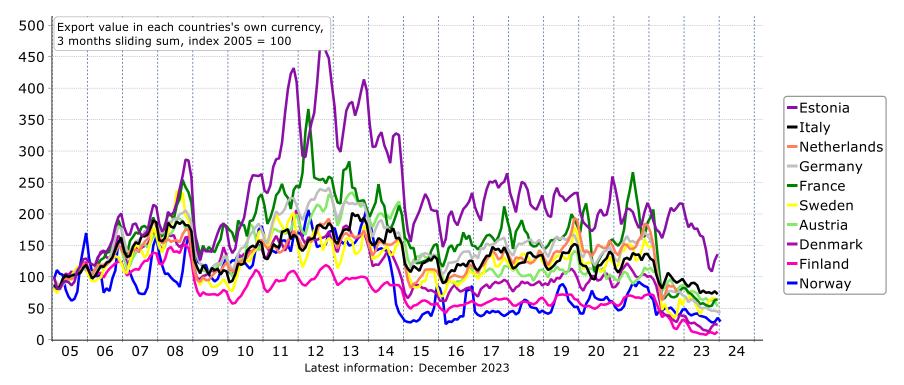




Source: Macrobond

EU exports to Russia



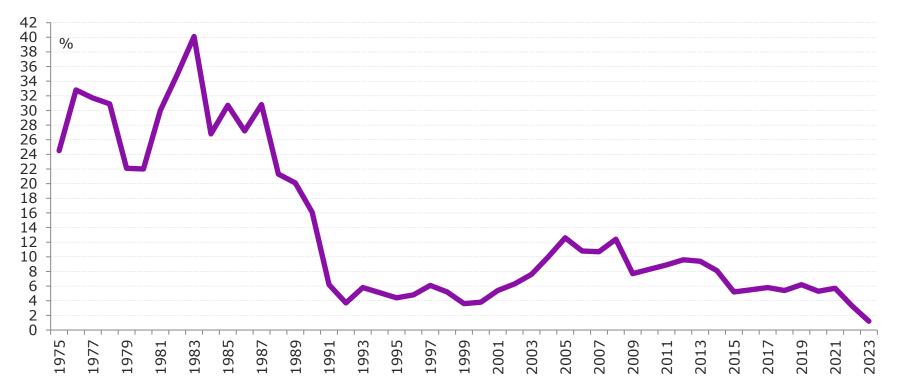


Source: Macrobond

3/5/2024

Russia's* share of the technology industry's Finnish exports



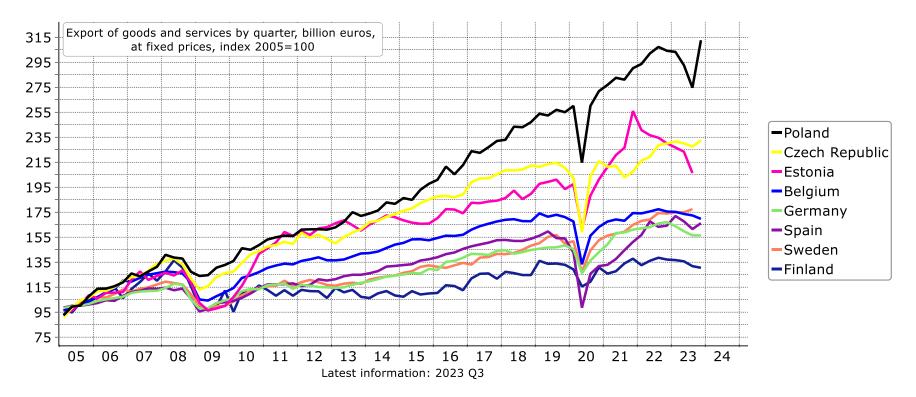




Finland's economic growth relies on exports and investments

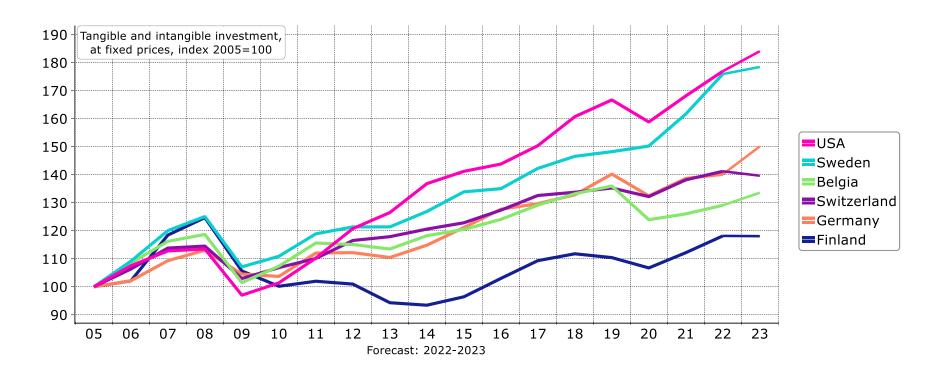
Export of goods and services





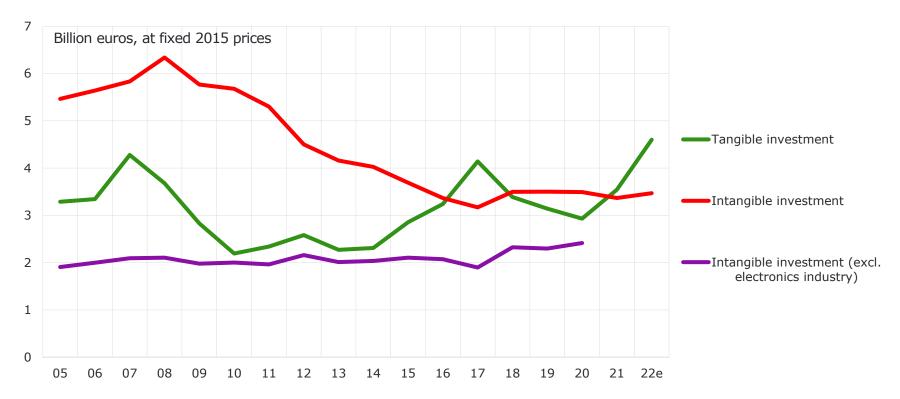
Business investment





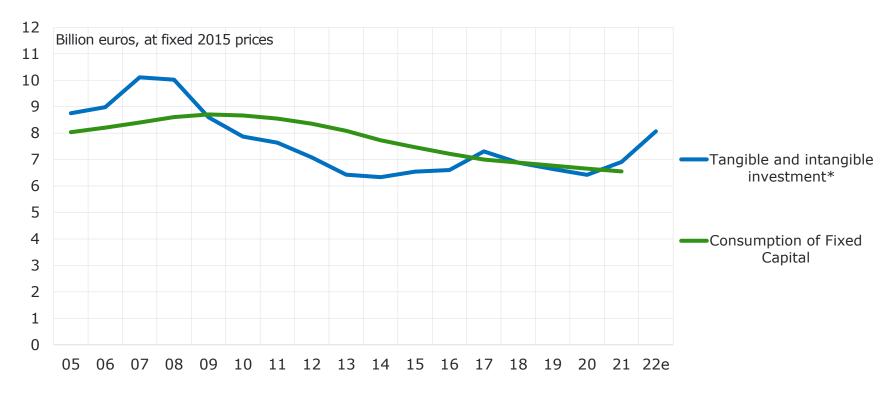
Industrial tangible and intangible investment* in **Finland**





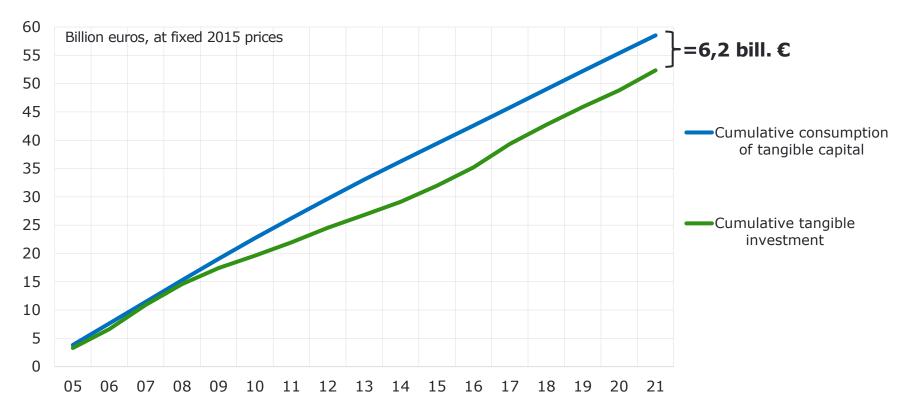
Industrial investment and consumption of fixed capital in Finland





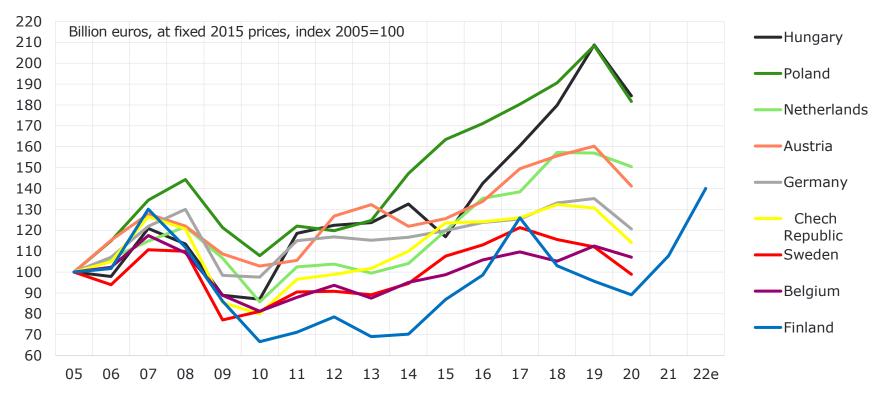
Industrial production capital loss in Finland





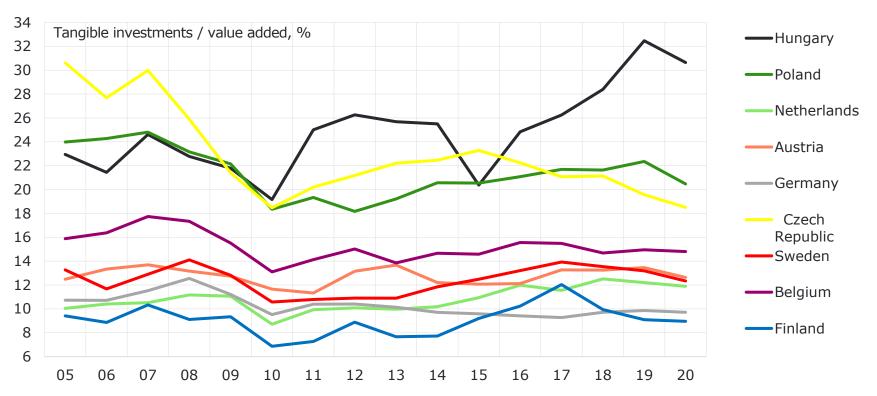
Industrial tangible investment





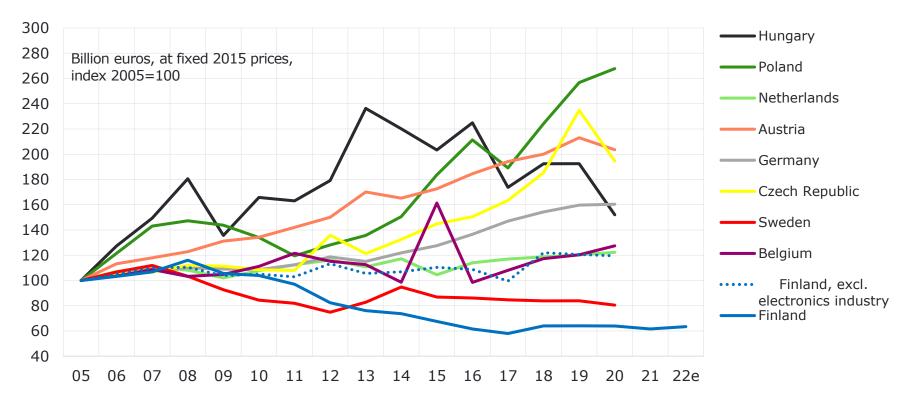
Investment rate in industrial tangible investments





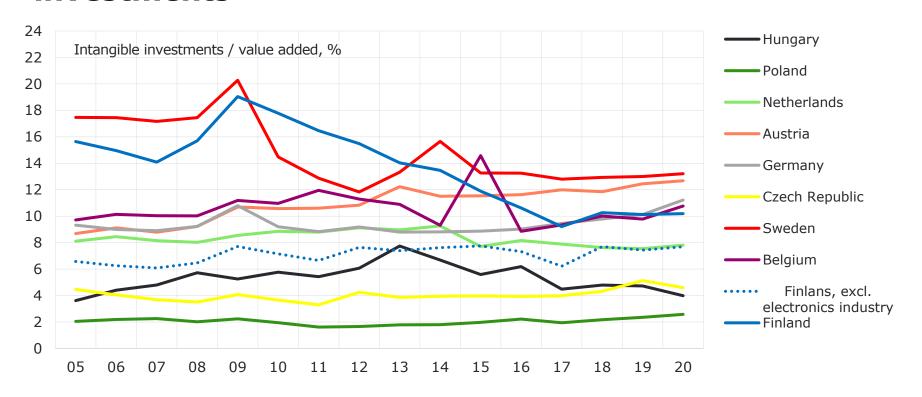
Industrial intangible investments





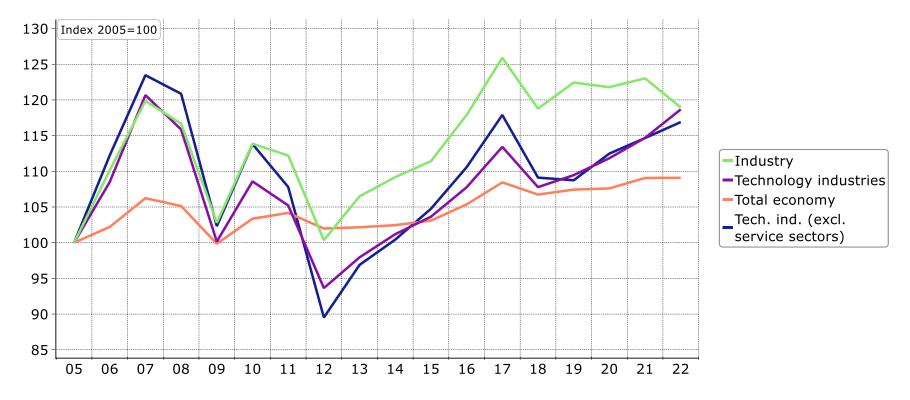
Investment rate of industrial intangible investments*





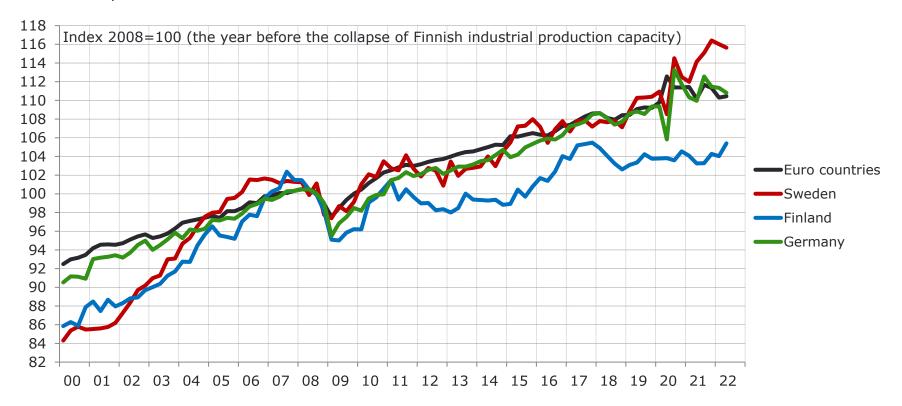
Productivity* development in Finland





GDP productivity development

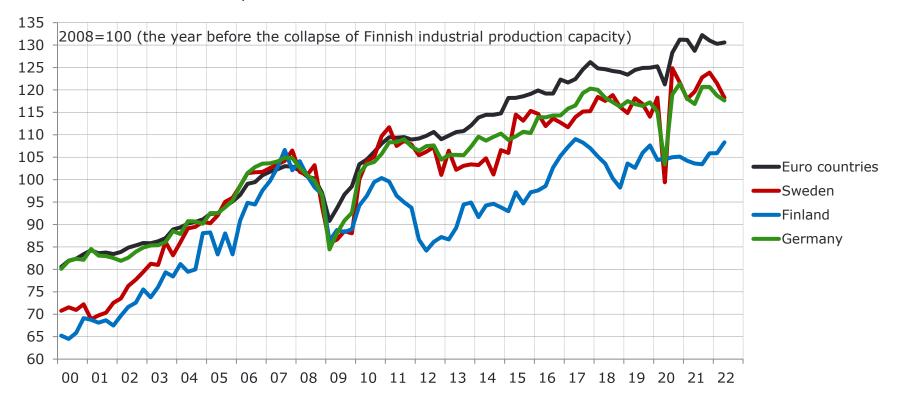
GDP at fixed prices / hours worked



Industrial productivity development

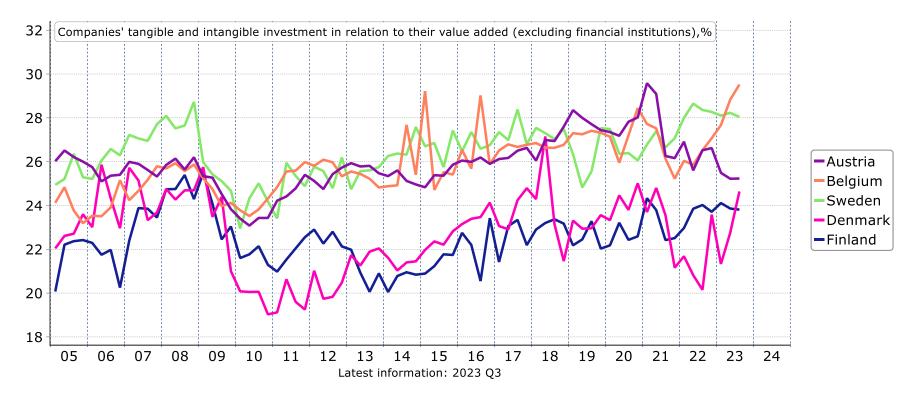


Industrial value added at fixed prices / hours worked



Corporate investment rate

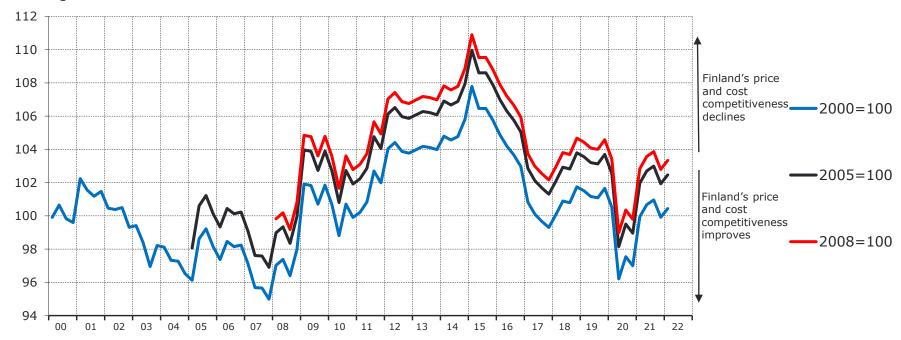




Finland's cost competitiveness compared to the average of Euro countries



Unit labour costs in the whole economy = labour costs / productivity, including the influence of effective exchange rates

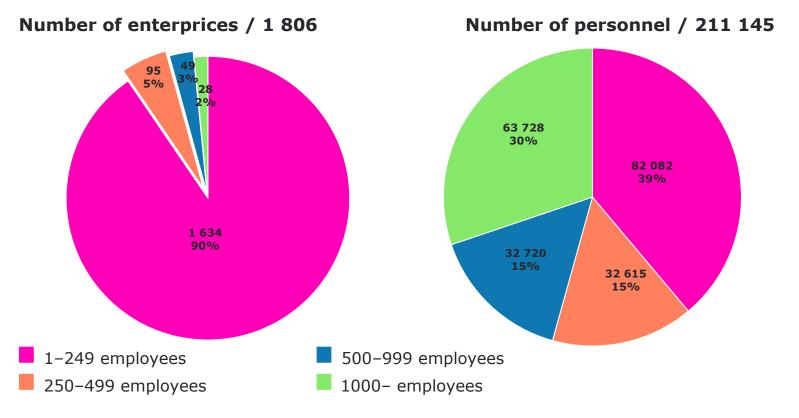






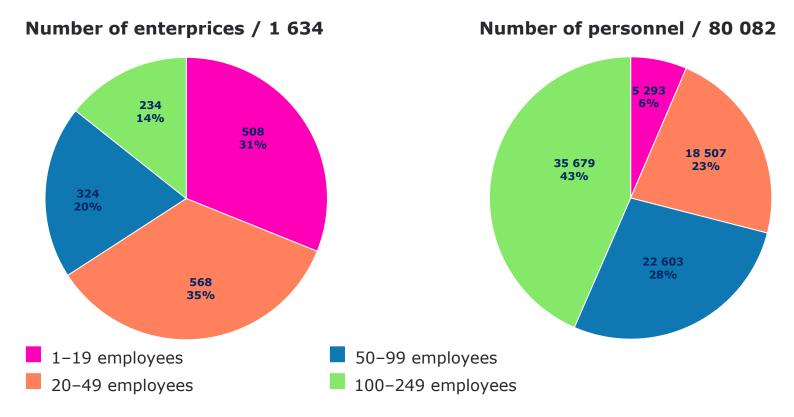
The Federation's Member Companies 2022





The Federation's SME Member Companies 2022

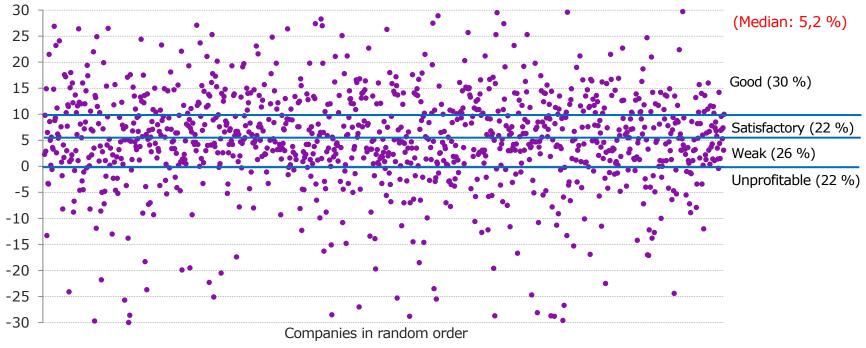




Operating Profit in the Member Companies of Technology Industries of Finland in 2020



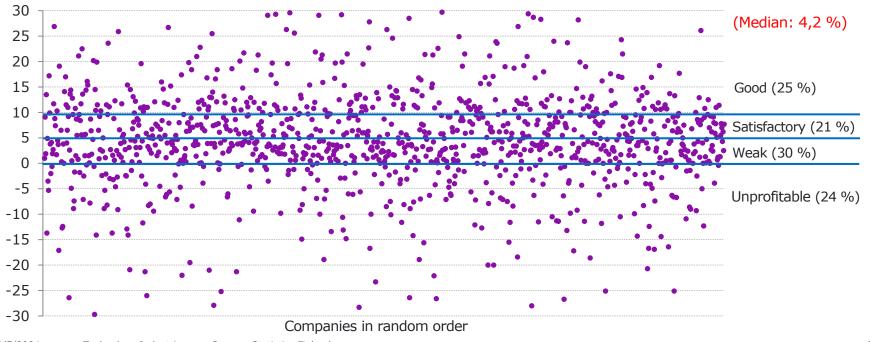
Operating profit-% = operating result / turnover * 100 (before taxes and financial income and expenses)



Net Profit in the Member Companies of Technology Industries of Finland in 2020



Return on assets -% = (net income + financial expenses + taxes) / (capital invested in the financial year) * 100



3/5/2024 Technology Industries of Finland

Source: Statistics Finland

Return on Assets in the Member Companies of Technology Industries of Finland in 2020

Equity ratio -% = (total equity + total appropriations accrued) / adjusted balance sheet * 100



Equity Ratio in the Member Companies of Technology Industries of Finland in 2020



Equity ratio -% = (total equity + total appropriations accrued) / adjusted balance sheet * 100

