

Acquiring the right skills for modern manufacturing and Supply Chain Management

Naoufel Cheikhrouhou

Professeur of Supply chain, Logistics and Operations Management

Geneva School of Business Administration (HEG Genève)

University of Applied Sciences Western Switzerland (HES-SO)

naoufel.cheikhrouhou@hesge.ch

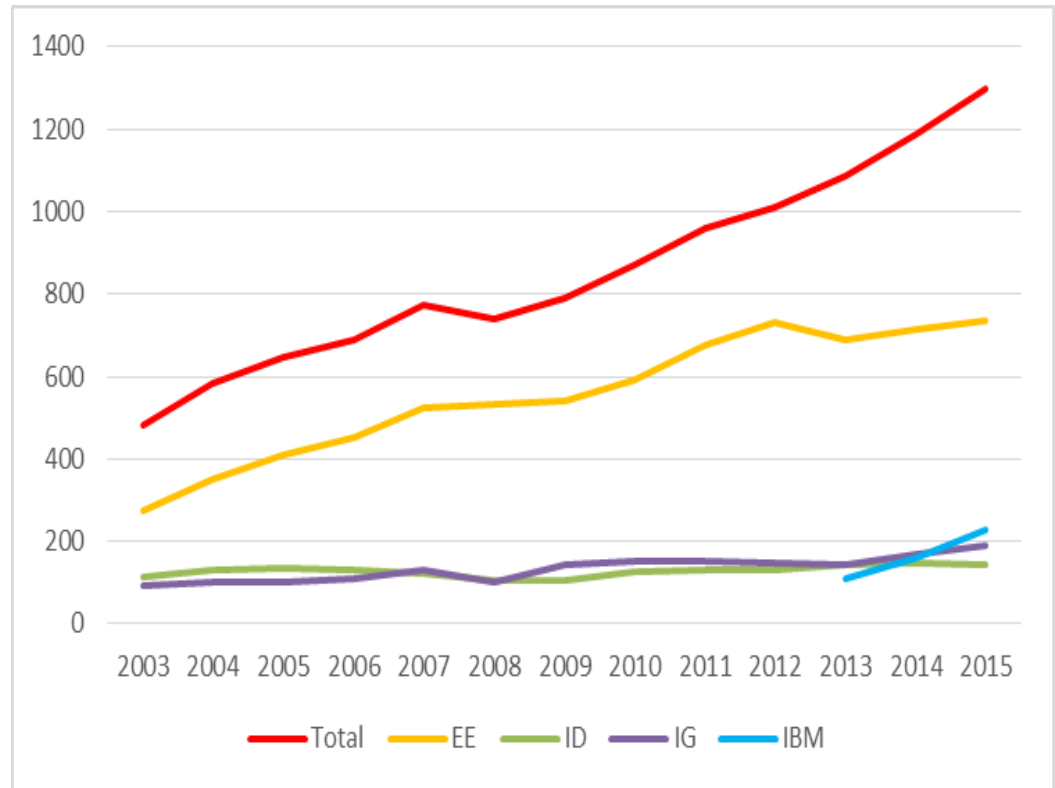
Tel. 022 388 18 99

Geneva School of Business Administration

- The biggest school of UAS WS with approx. 1300 students
- From UAS WS (28 schools in the cantons of Geneva, Fribourg, Jura, Neuchâtel, Valais, Vaud and Bern).
- Bachelors, Masters and continuous education with focus on practice (EMBA, MAS, DAS, CAS)

Geneva School of Business Administration: 1288 students

- Business administration (Economie d'entreprise, EE) : 736 st.
- Business Information systems (Informatique de gestion, IG) : 188 st.
- Information studies (Information documentaire ID) : 144 st.
- International Business Management (IBM) : 220 st.



Supply chain management courses

Bachelor of Science in Business Administration

- Supply Chain I (1st year): manufacturing planning & control
- Supply Chain II (2nd year): service supply chain
- Minor of Logistics (3rd year)

Master of Science in Service Management and Service Engineering

- Service Design Science
- Forecasting methods

Executive Master of Business Administration

- Operations Management


Expertise

- Advisor to the EC on topics related to Factories of the Future, ICT in Manufacturing and Transportation R&D areas
- President of the regional board of the National Thematic Network on Logistics



In cooperation with the CTI

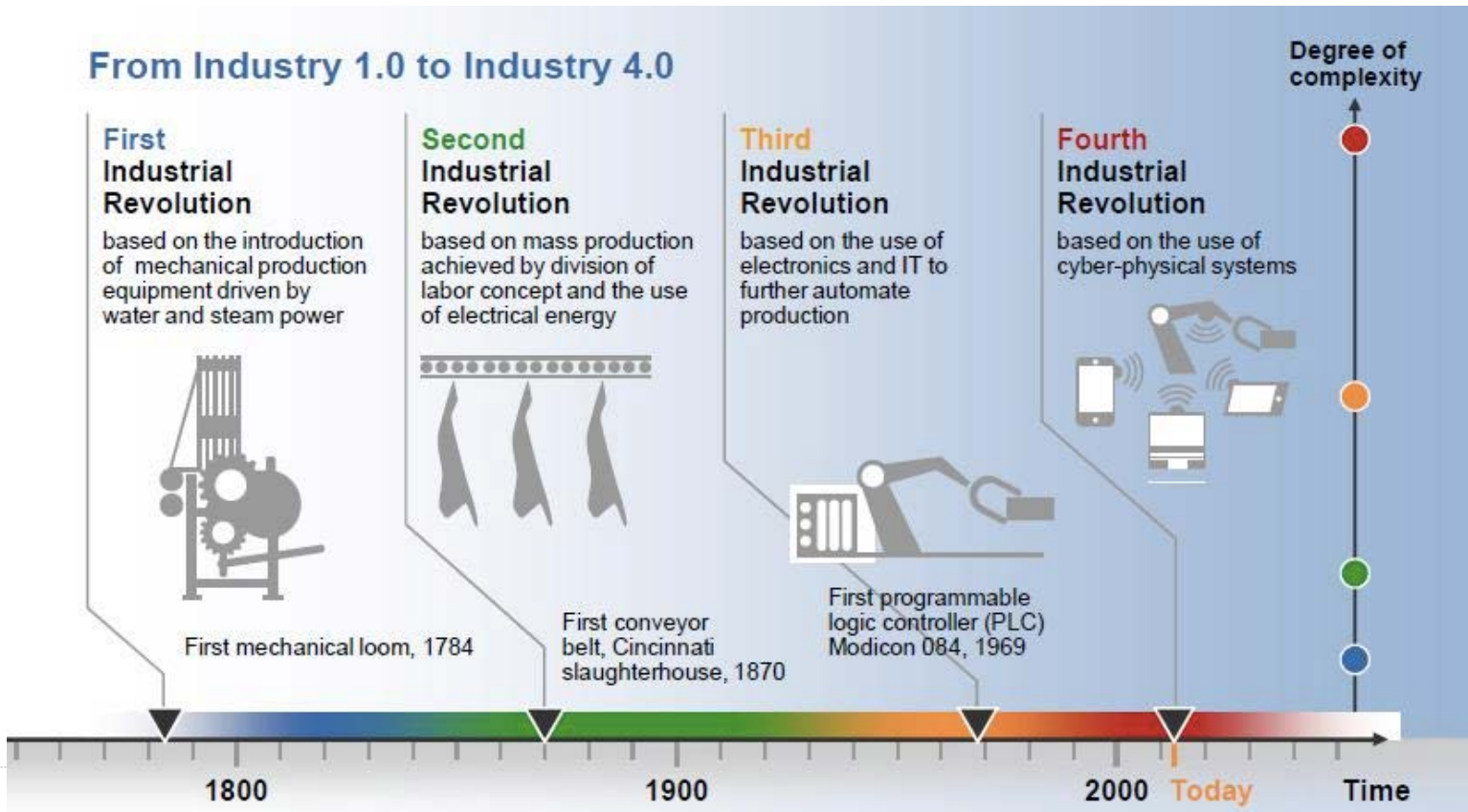
 **KTT-Support**
National thematic networks

 Schweizerische Eidgenossenschaft
Confédération suisse
Confederazione Svizzera
Confederaziun svizra

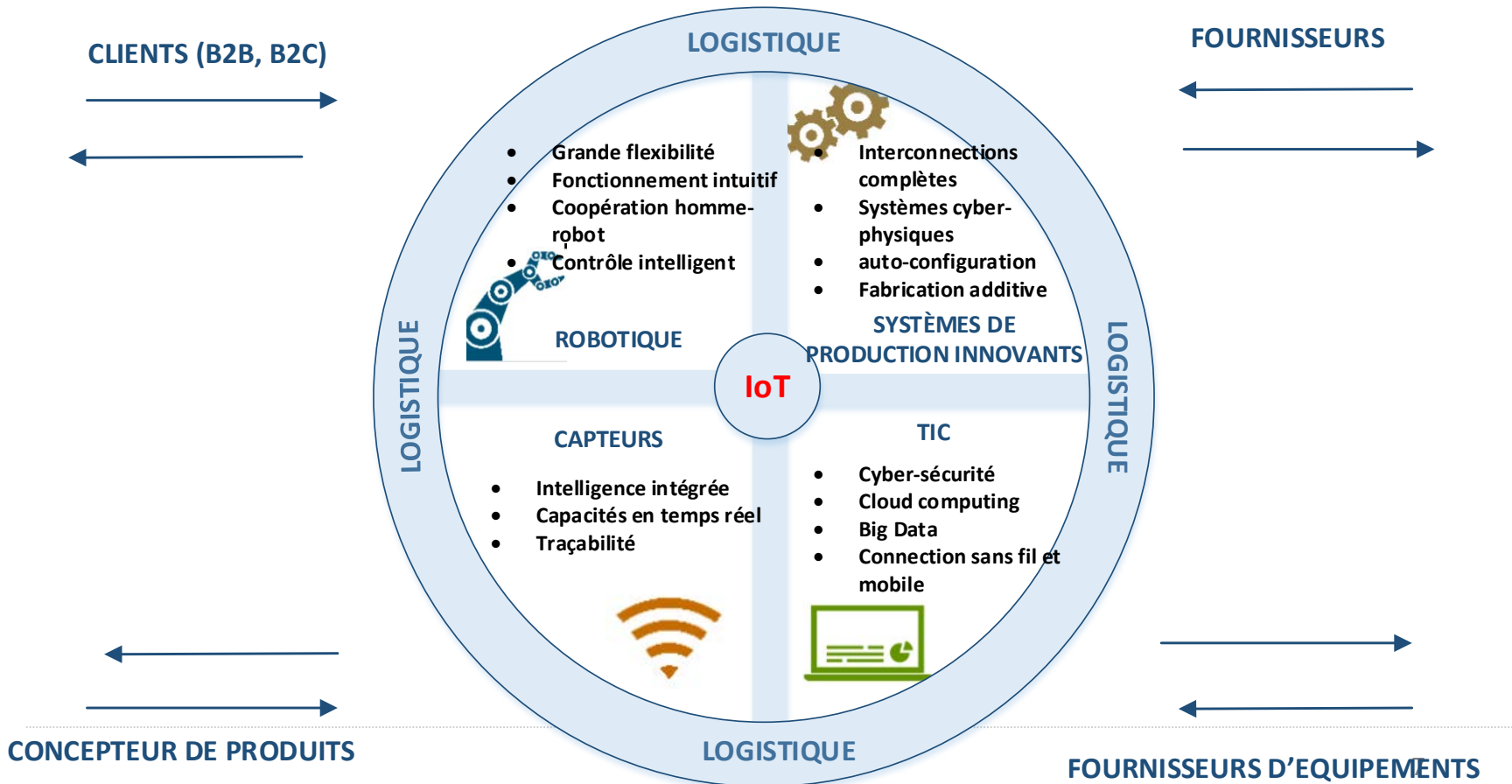
Swiss Confederation

Commission for Technology and Innovation CTI

Industry 4.0: Evolution or Revolution?



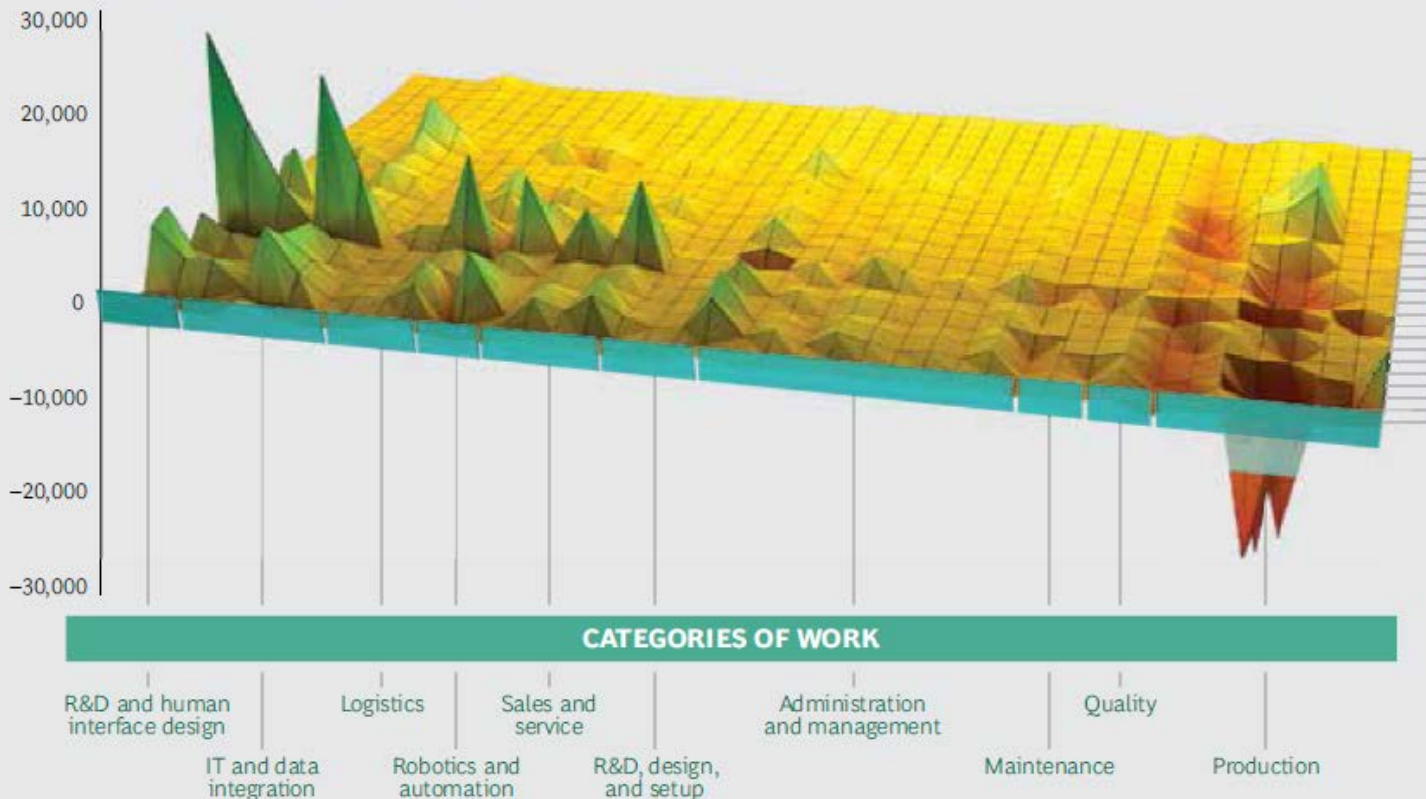
Industry 4.0 in a snapshot



- Decrease in the number of jobs in assembly and production
- Increase in the number of jobs in IT and R&D

EXHIBIT 3 | Job Growth in Germany Will Vary Significantly by Category of Work and Industry

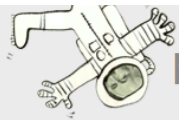
Absolute change in the number of jobs through 2025



MANUFACTURING INDUSTRIES

- 1 Aerospace and defense
- 2 Apparel, footwear, and leather products
- 3 Automotive
- 4 Electronic and electrical
- 5 Semiconductor
- 6 Fabricated-metal products
- 7 Furniture and wood products
- 8 Machinery
- 9 Medical products
- 10 Plastics and rubber products
- 11 Printing and publishing
- 12 Other discrete industries
- 13 Cement and glass
- 14 Chemicals and petrochemicals
- 15 Electric power
- 16 Food and beverages
- 17 Metals
- 18 Mining
- 19 Oil and gas
- 20 Pharmaceuticals and biotechnology
- 21 Pulp and paper
- 22 Textiles
- 23 Water and wastewater

Will you be replaced by a Machine? Test your profile !



planet money THE ECONOMY EXPLAINED

NPR 24 Hour Program Stream

OUR PICKS LIVE RADIO SHOWS

JOB



Will Your Job Be Done By A Machine?

May 21, 2015 · 4:08 PM ET

QUOCTRUNG BUI

Machines can do some [surprising things](#). But what you really want to know is this: Will your job be around in the future?

We have the "definitive" guide.

Researchers took a shot at estimating how technology will affect the job market in 20 years. Find your job below to see what the data say about your future.

Business and Financial Operations Accountants and Auditors

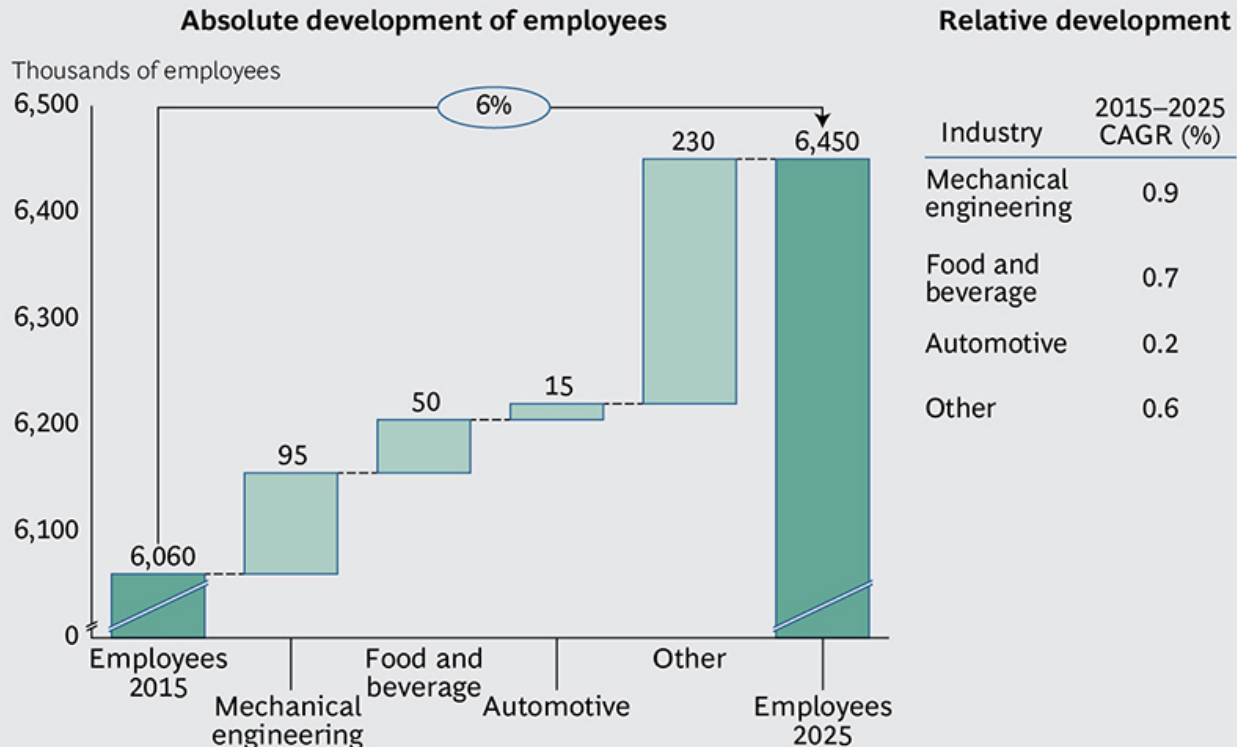


Accountants and Auditors have a

93.5%

Evolution of industrial jobs in Germany (2015-2025)

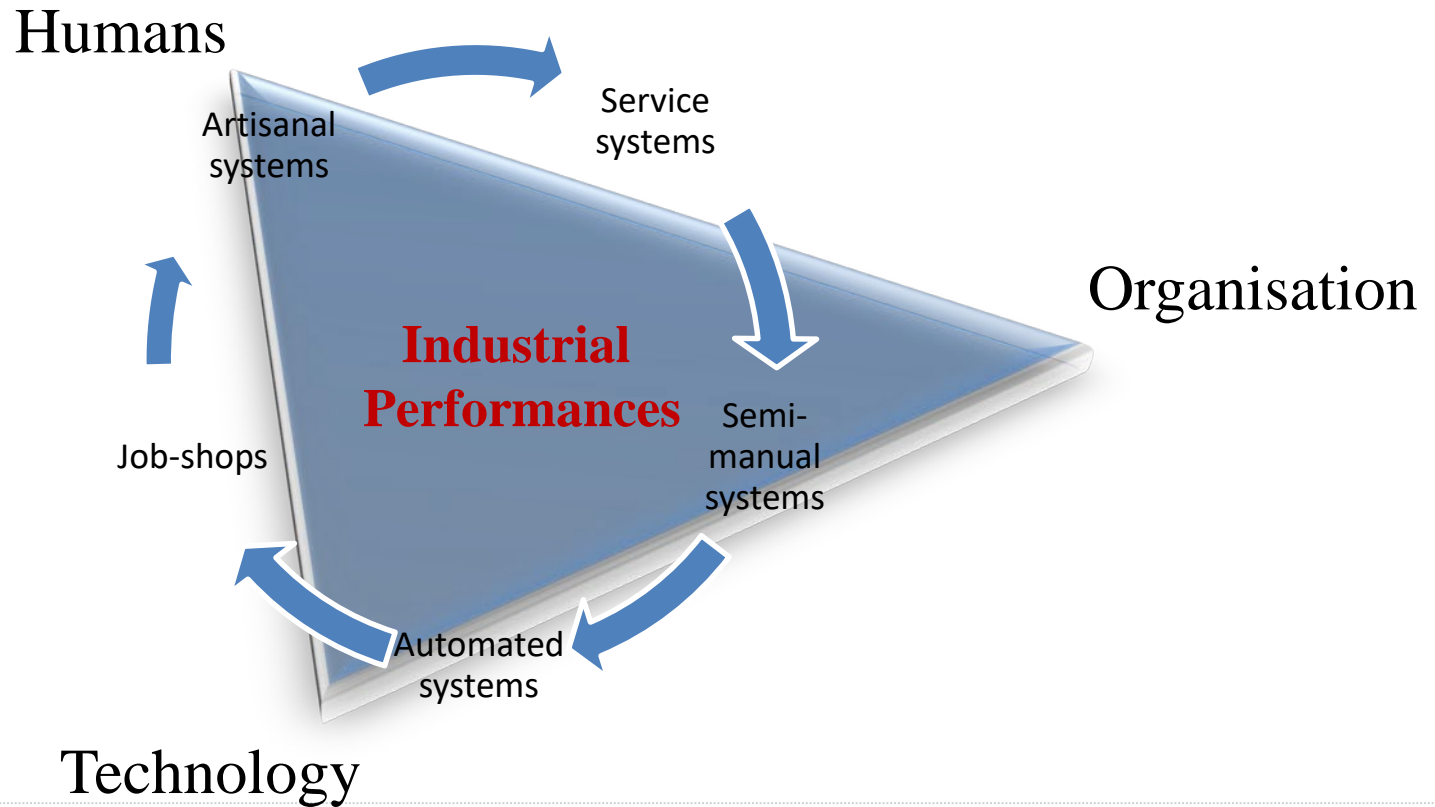
EXHIBIT 4 | In Germany, Industry 4.0 Will Lead to Increased Manufacturing Employment



A significant shift in the skill profile is required to enable growth

Sources: Federal Statistical Office of Germany; BCG analysis.

The HTO concept in manufacturing and SCM



What type of competences to develop?

- Competence construct
 - Knowledge
 - Know-how
 - Behavioral skills
- The future needs a focus on the development of the behavioral aspects (team work, coordination mechanisms, trust building, etc.)

Example of the answer of Geneva School of Business Administration

- *A new Minor (54 ECTS) Enterprise 4.0 with focus on Supply chain 4.0*
- Understand the challenges of Industry 4.0
- Get the knowledge and the know-how to leverage the challenge of the digital transformation
- Be ready for the digital transformation of the enterprise and the supply chain

Contents

- Blockchain technology
- IOT projects
- Logistics and SCM projects with professionals
- Coding and programming

The future of Industry; Mega Trends

- **Big data analysis and use for quality control**
- **Flexible production equipment and interconnections**
- **Joint Cognitive Systems for decision support**
- **Engineering Platform for design/operations continuum**
- **Customer and demand data gathering for analysis**
- **Product and service co-design with customer**
- **Supply chain visibility and decision assistance**
- **Security solutions for collaborative networks**
- **Open data and system integration platform for unstructured data environment**
- **Integrated architecture PLM-MES-ERP**
- **Problem and context-centric display of only crucial information to the users**

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