

Industrie 4.0

Innovating the Future of Global Industry

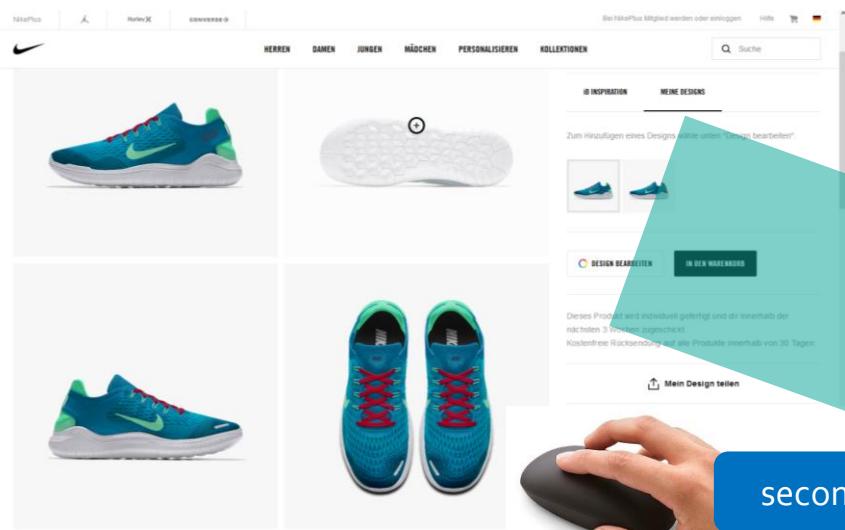


Prof. Dr. Dr. h.c. Detlef ZUEHLKE
Executive Chairman smartfactoryKL e.V.

Visit our booth
Hall 8 / D18

History and challenges

Personalized products are coming



*Choose and
personalize*

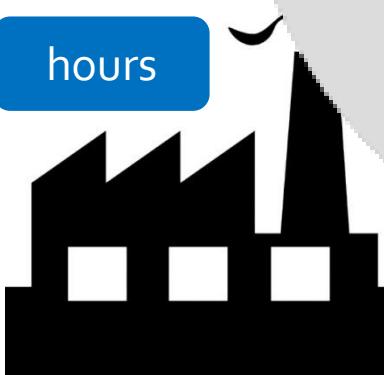
„CLICK“

seconds

hours

Produce

High flexibility...



weeks

But we need...

1 Day...



>6 Weeks



days

Deliver

Ship

Short delivery...

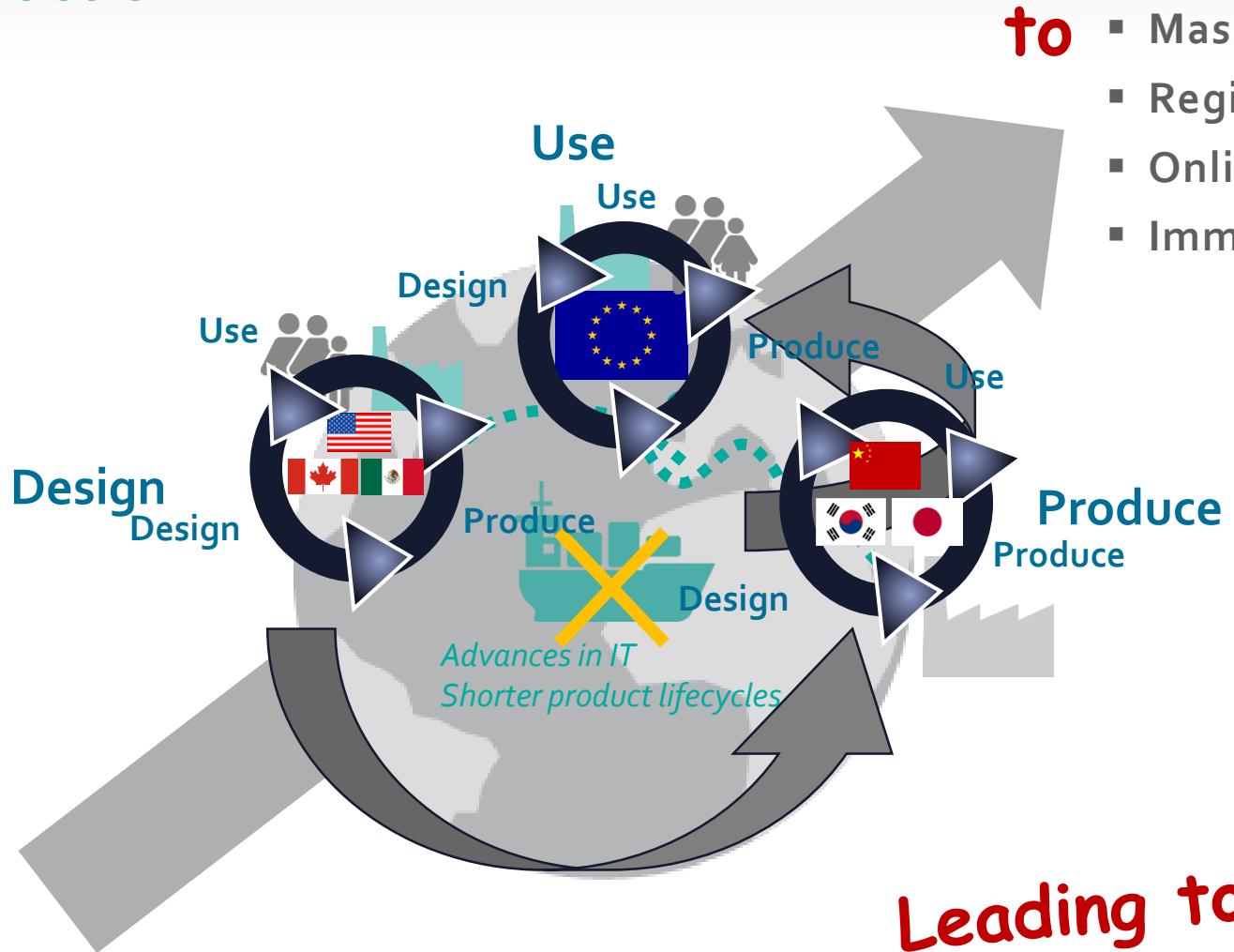
*Demanding
customers...*



Reshoring production

from

- Mass production
- Cost driven
- Long delivery times

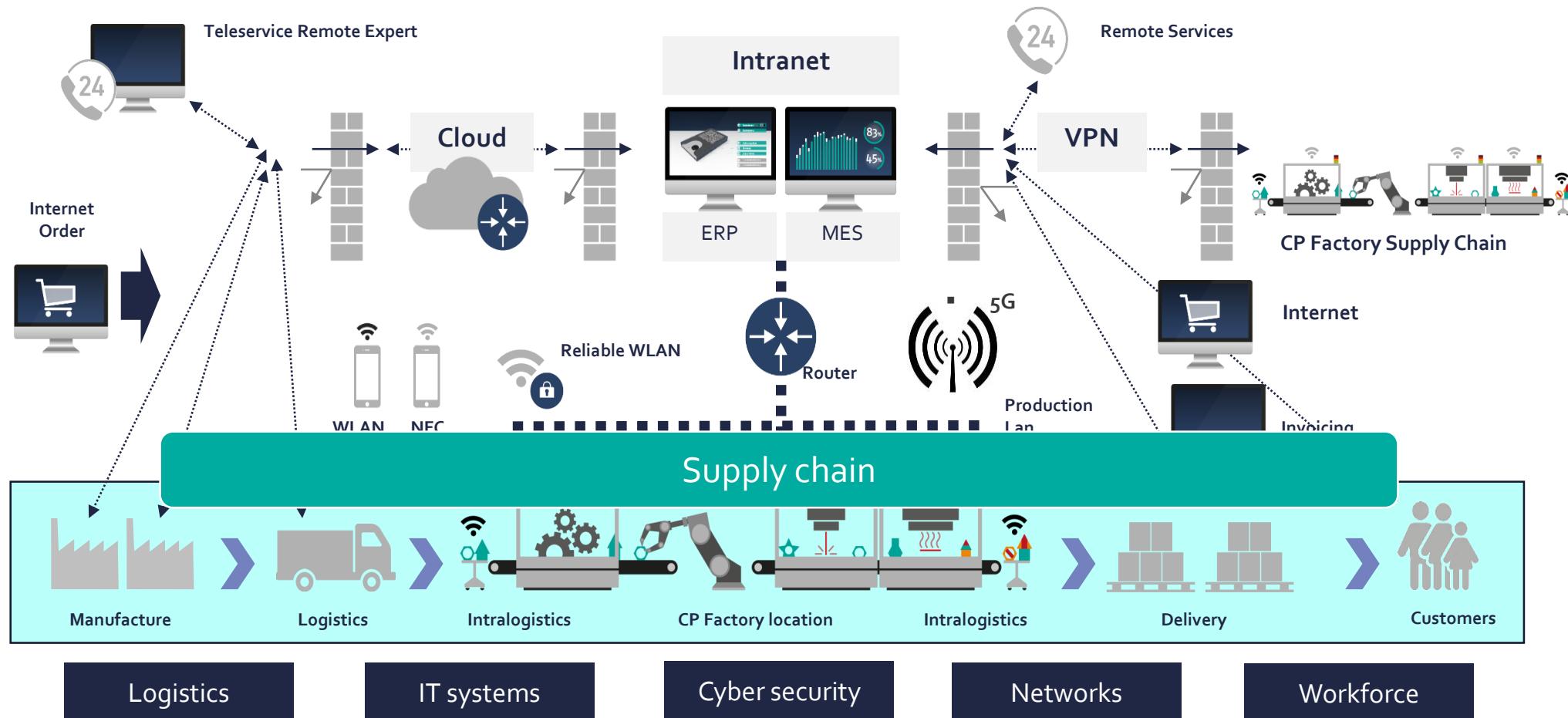


to

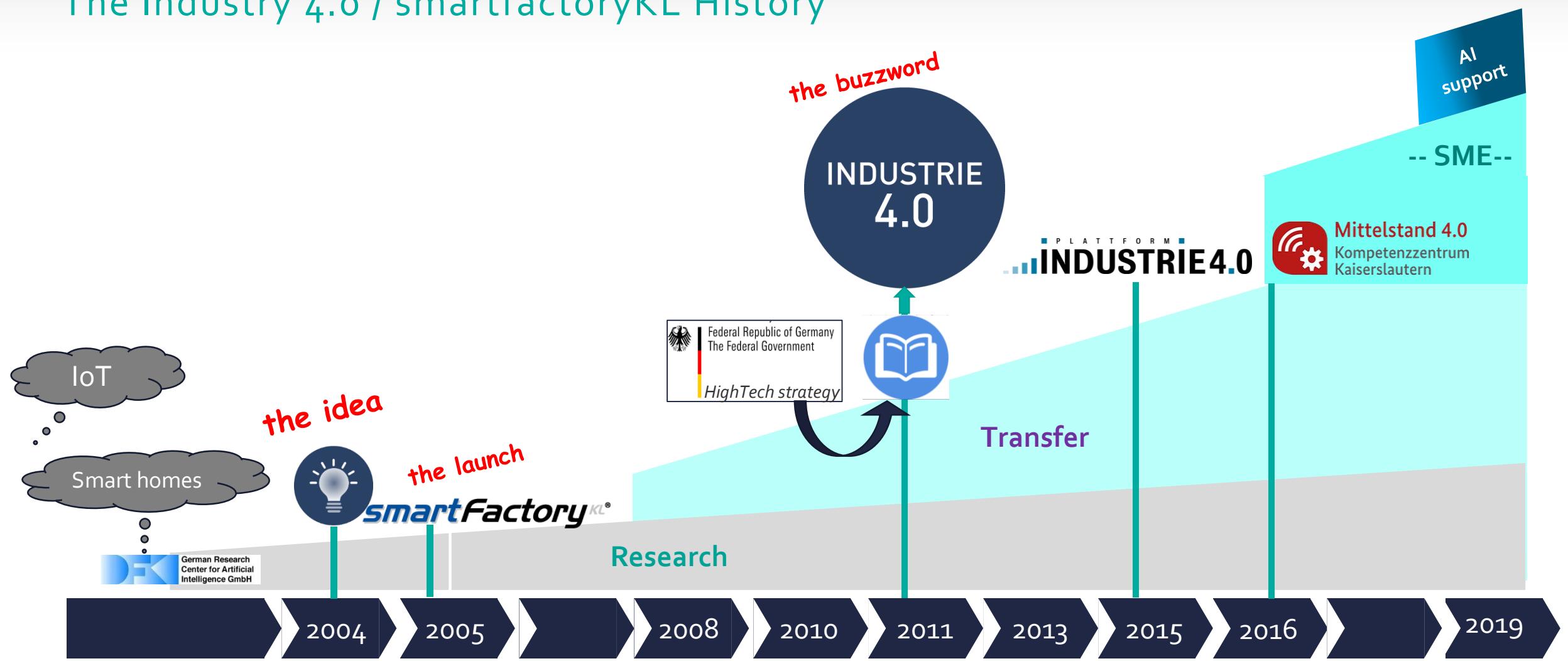
- Mass customization
- Regional production
- Online driven
- Immediate delivery

**Leading to a new
world economic structure?**

Digital Transformation of the Industry

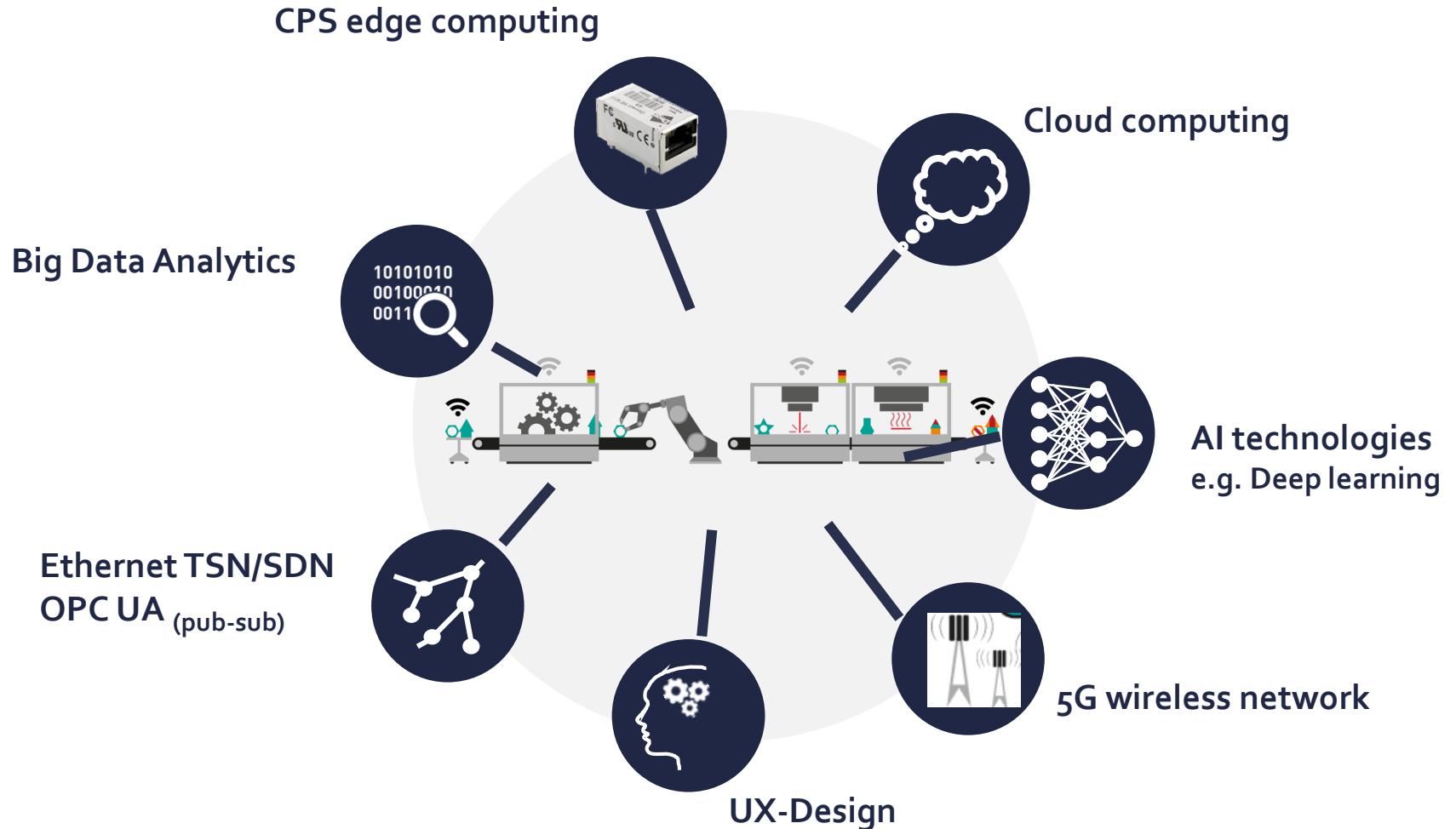


The Industry 4.0 / smartfactoryKL History

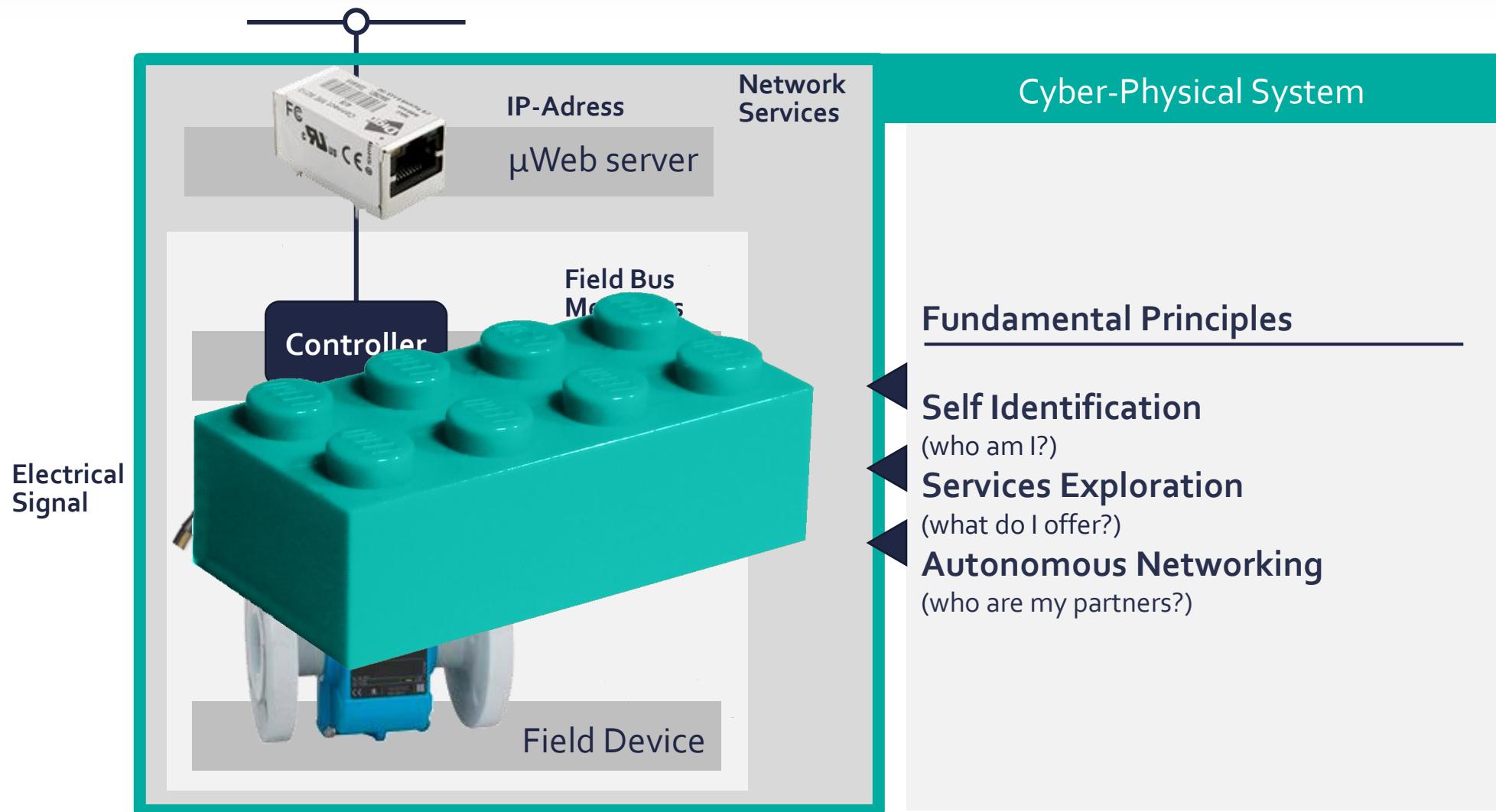


Technologies

Game changing technologies

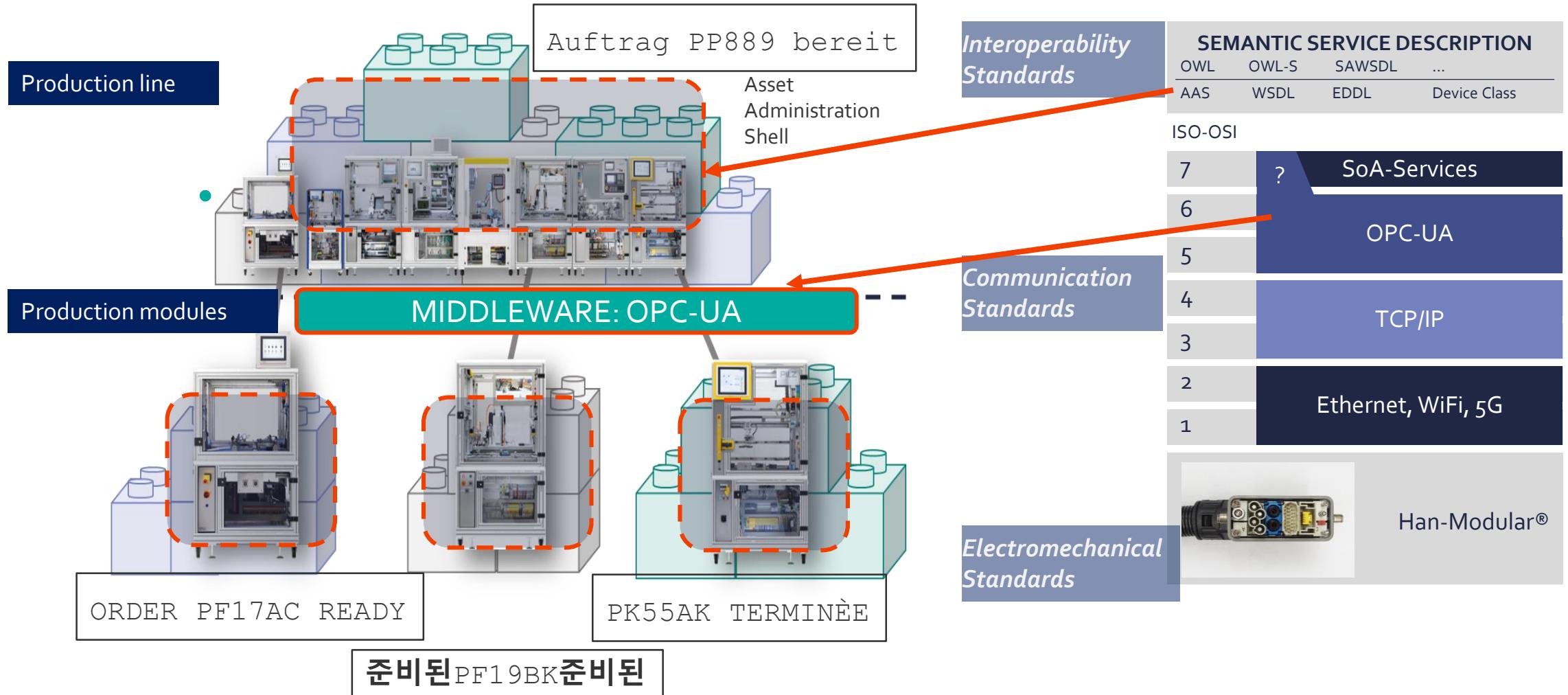


Towards smart modules



The modular agile factory...

...needs a stack of standards



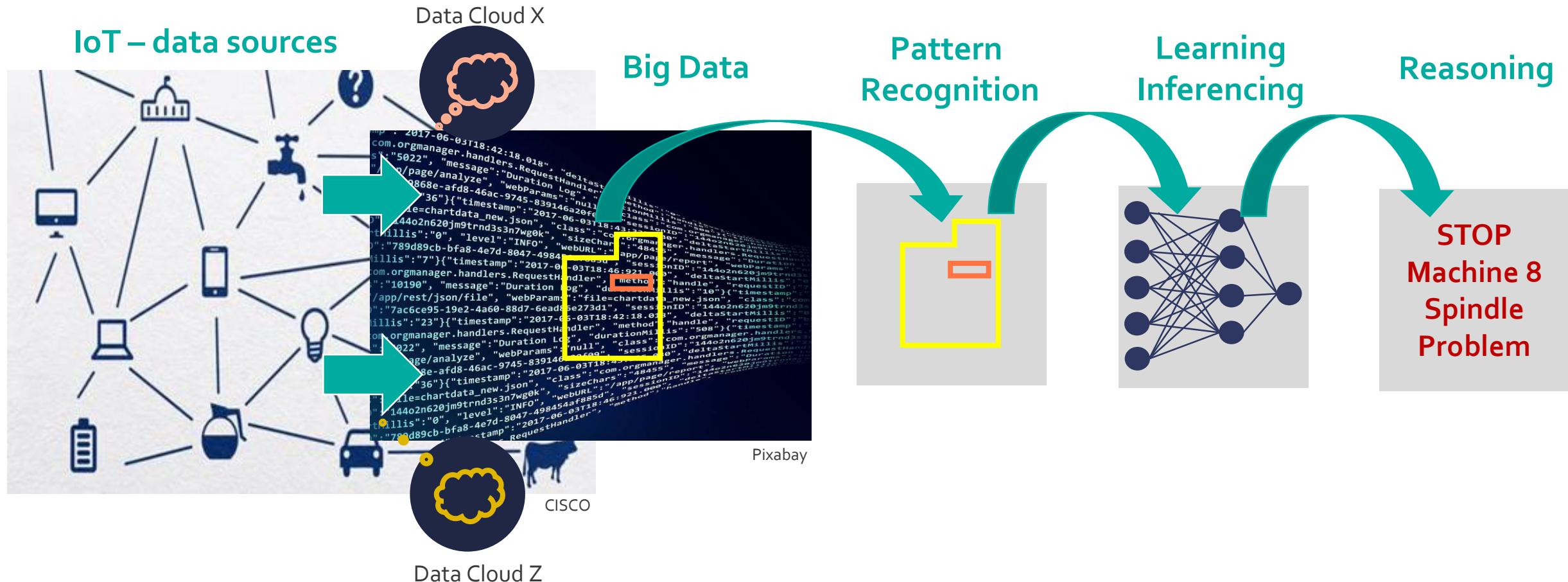
5G wireless network

Mobility with high transfer rate – low latency – low power – reserved bands – secured transmission



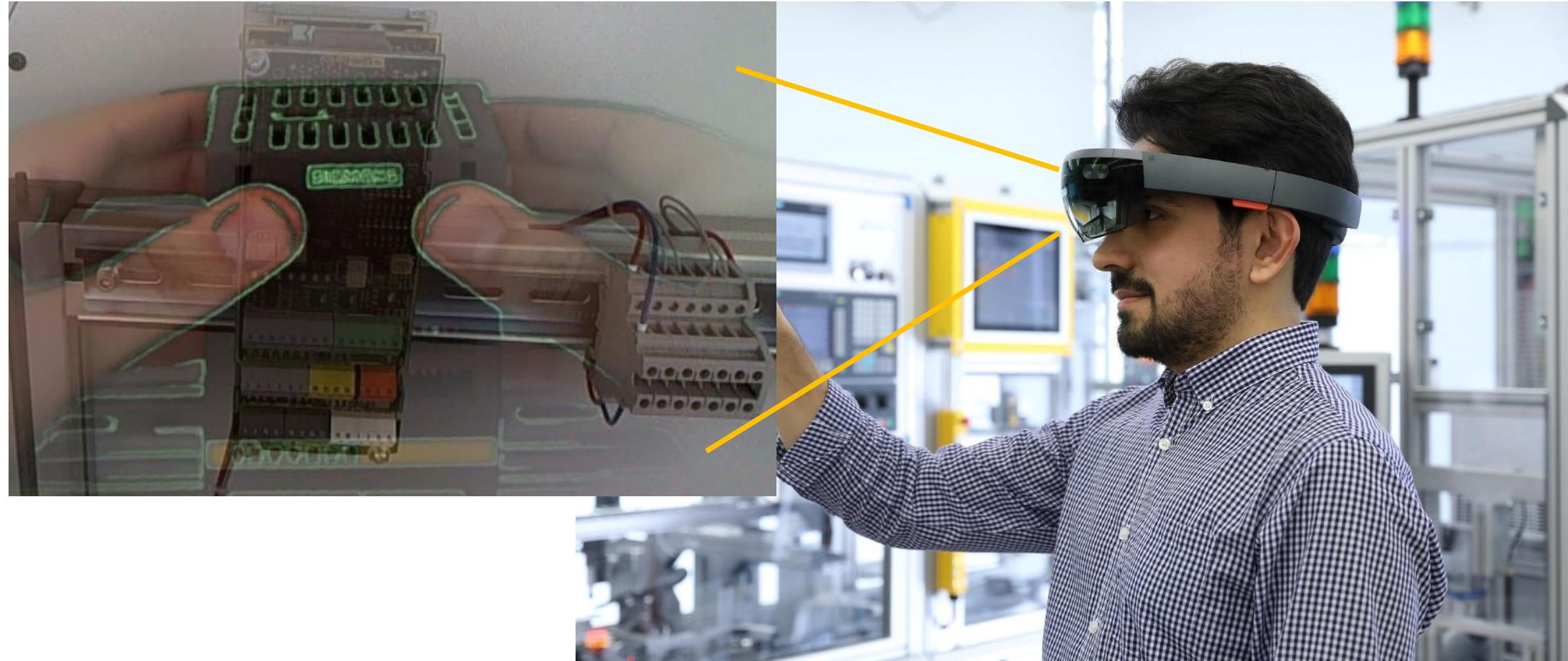
www.smartfactory.de

AI solution for data analytics



Augmented Vision in industrial environment

source IOXP



The *smartfactory*^{KL}

where Industrie 4.0 was born

The Association

Our vision:

Competence and transfer center for the demonstration of innovative ICT in manufacturing

Key data:

- Foundation: 2005
- Legal form: Non-profit registered association
- Executive board: **Prof. Dr. Detlef Zühlke (Chairman),** Andreas Huhmann (Harting), Dr. Thomas Bürger (Bosch Rexroth), Klaus Stark (Pilz)
- Members: **52 Companies** and research organizations from **10 countries**
- Employees: 50 employees
- Financing: Membership fees, research projects, industry projects, donations



SmartFactory^{KL} is located in the DFKI Kaiserslautern building

Members of SmartFactory^{KL}



as of March 22nd, 2019

SmartFactory^{KL} - a success story

Work together - learn together - present together

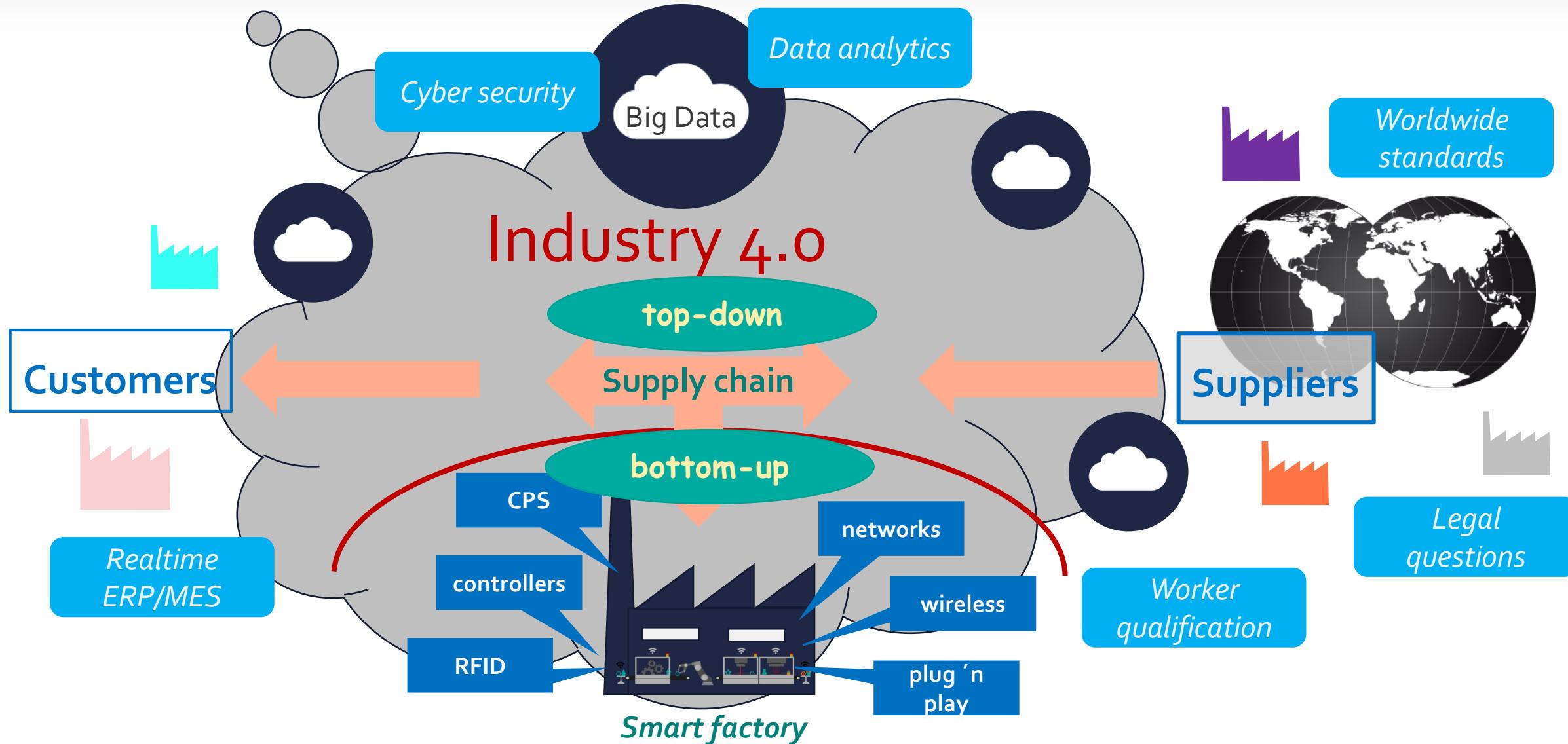


First Products on the market

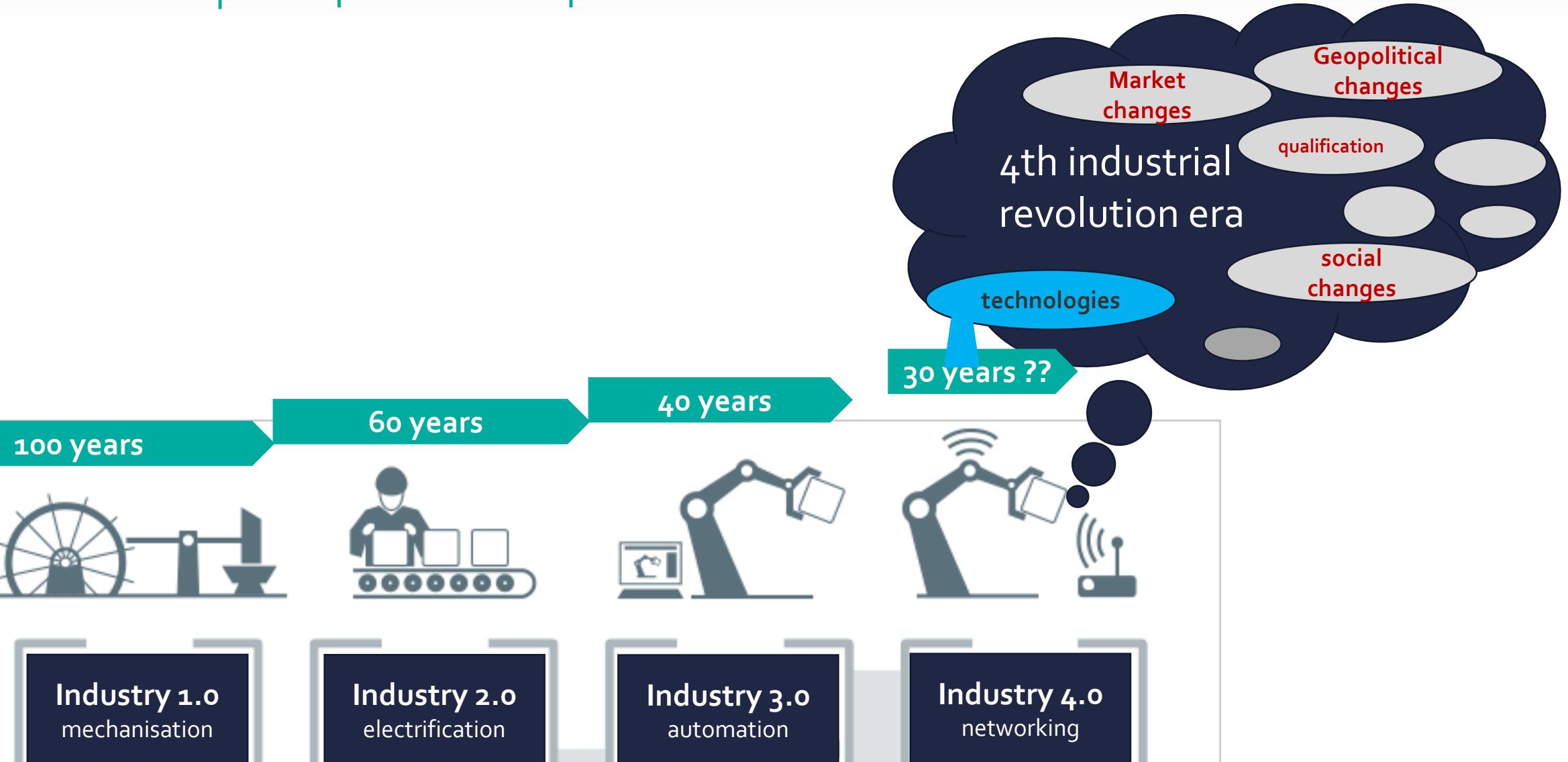


Conclusion

From Industry 4.0 to Digital Transformation



The small step IND4.0 into the 4th industrial revolution era



Thanks for listening!

Visit our booth
Hall 8 / D18
and see the smartfactory live!



Detlef Zuehlke

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