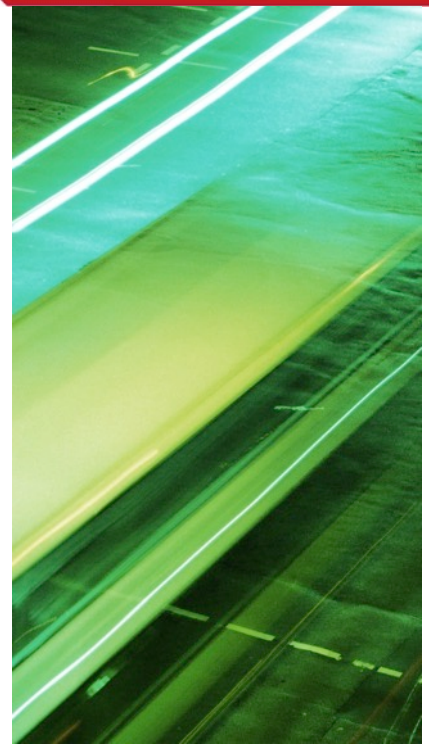
LogDynamics Lab



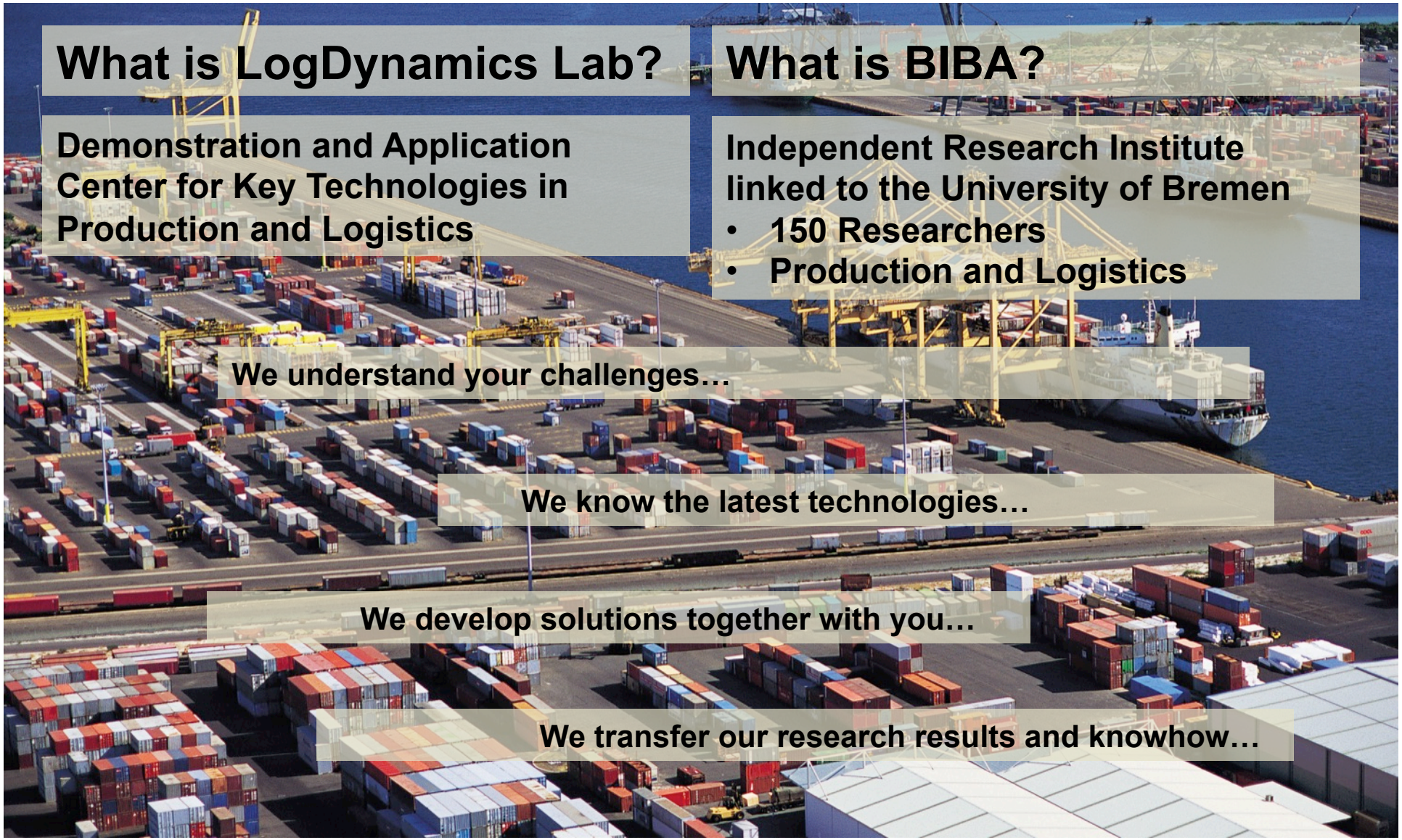
BIBA

Industrial Internet of Things

Enabling Technology for Smart Products and Factories

Marco Lewandowski

LogDynamics Lab



What is LogDynamics Lab?

Demonstration and Application Center for Key Technologies in Production and Logistics

What is BIBA?

Independent Research Institute linked to the University of Bremen

- 150 Researchers
- Production and Logistics

We understand your challenges…

We know the latest technologies…

We develop solutions together with you…

We transfer our research results and knowhow…

Universität Bremen*

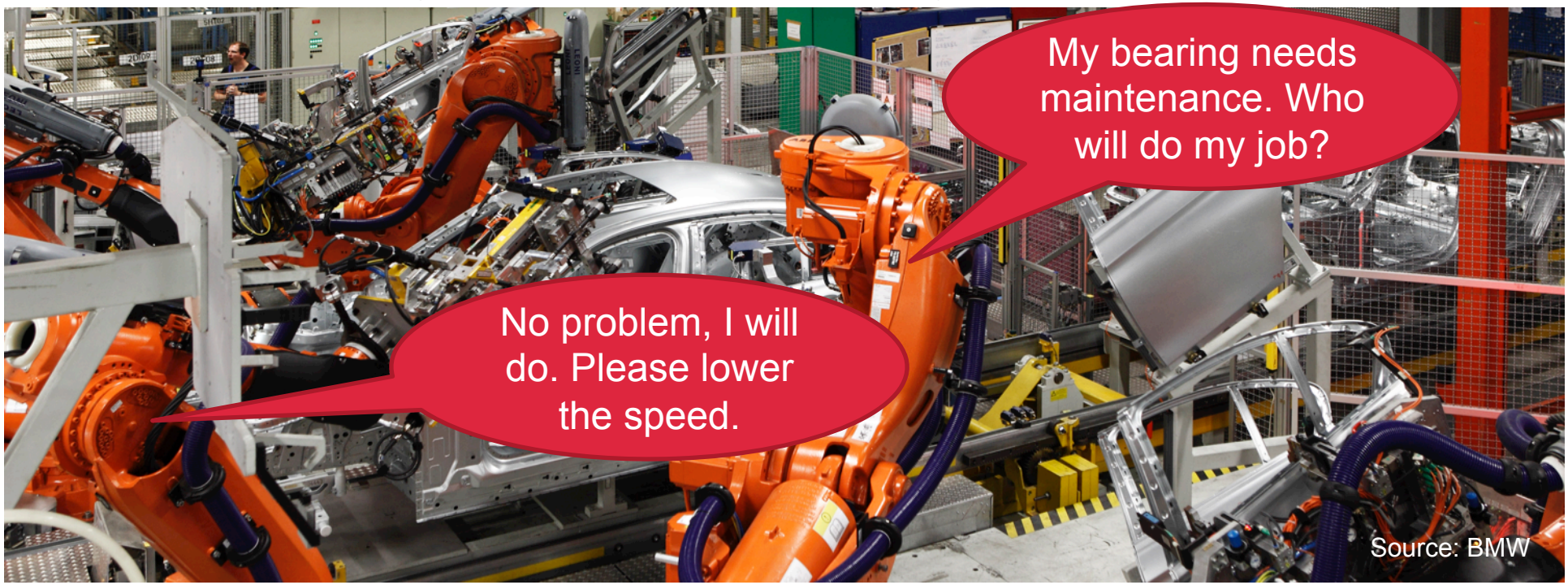
*EXCELLENT.

Internet of Things

- Developing everyday things to **Smart Connected Products**
- **Industrial Internet of Things** effects diverse sectors
  - Manufacturing, Automotive, Aviation, Energy, Health, …

Industry 4.0

- German perspective to disruptive changes in the industry
  - Automotive, Aviation, Automation & ERP
  - Driven by the wish of further effiency



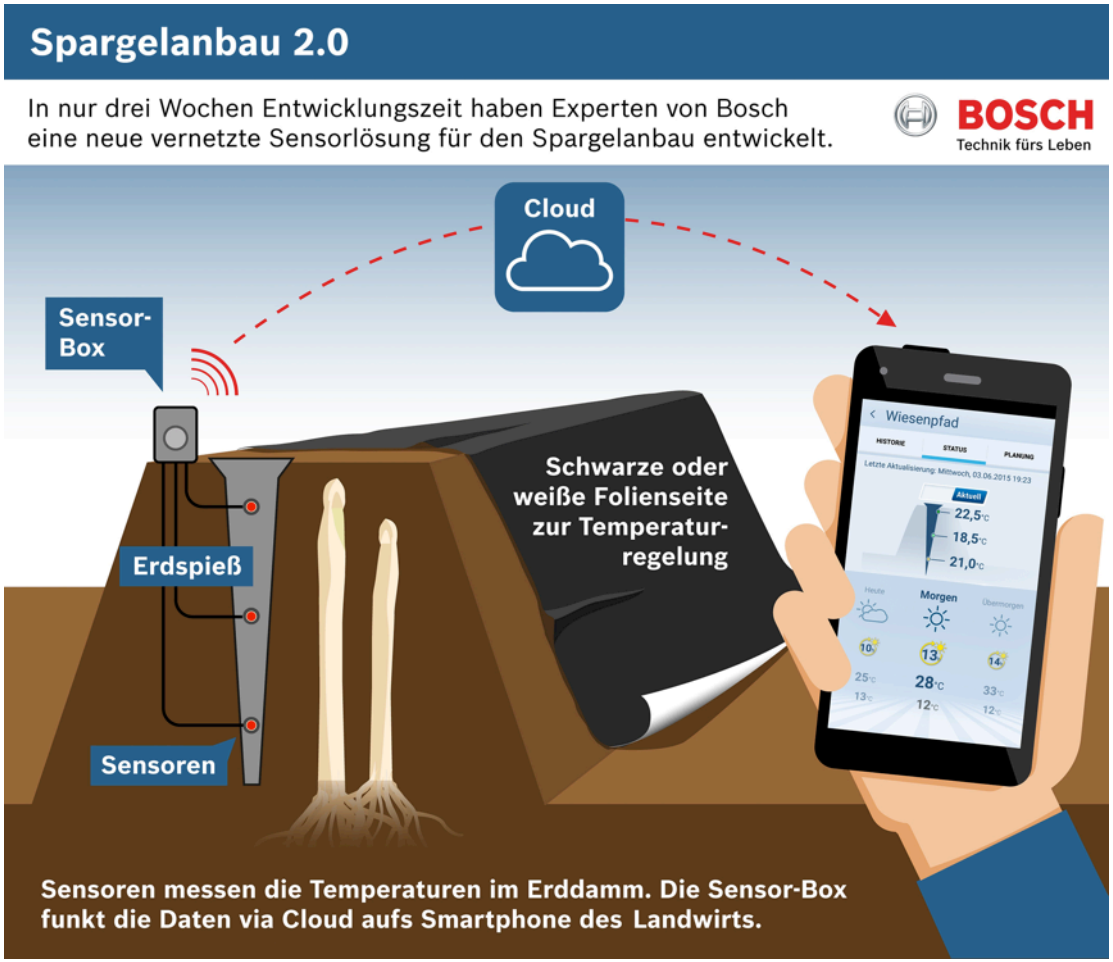
Beyond technology

- New Competitors
- Forces of the suppliers
- Forces of the customer
- Threads due to substitute products and services

- New **Business Models**
- **Need for strategies**
- **Organizational change**
- **...**

Further Reading: M.E. Porter, J.E. Heppelmann: How Smart, Connected Products Are Transforming Companies

Smart connected things – one example

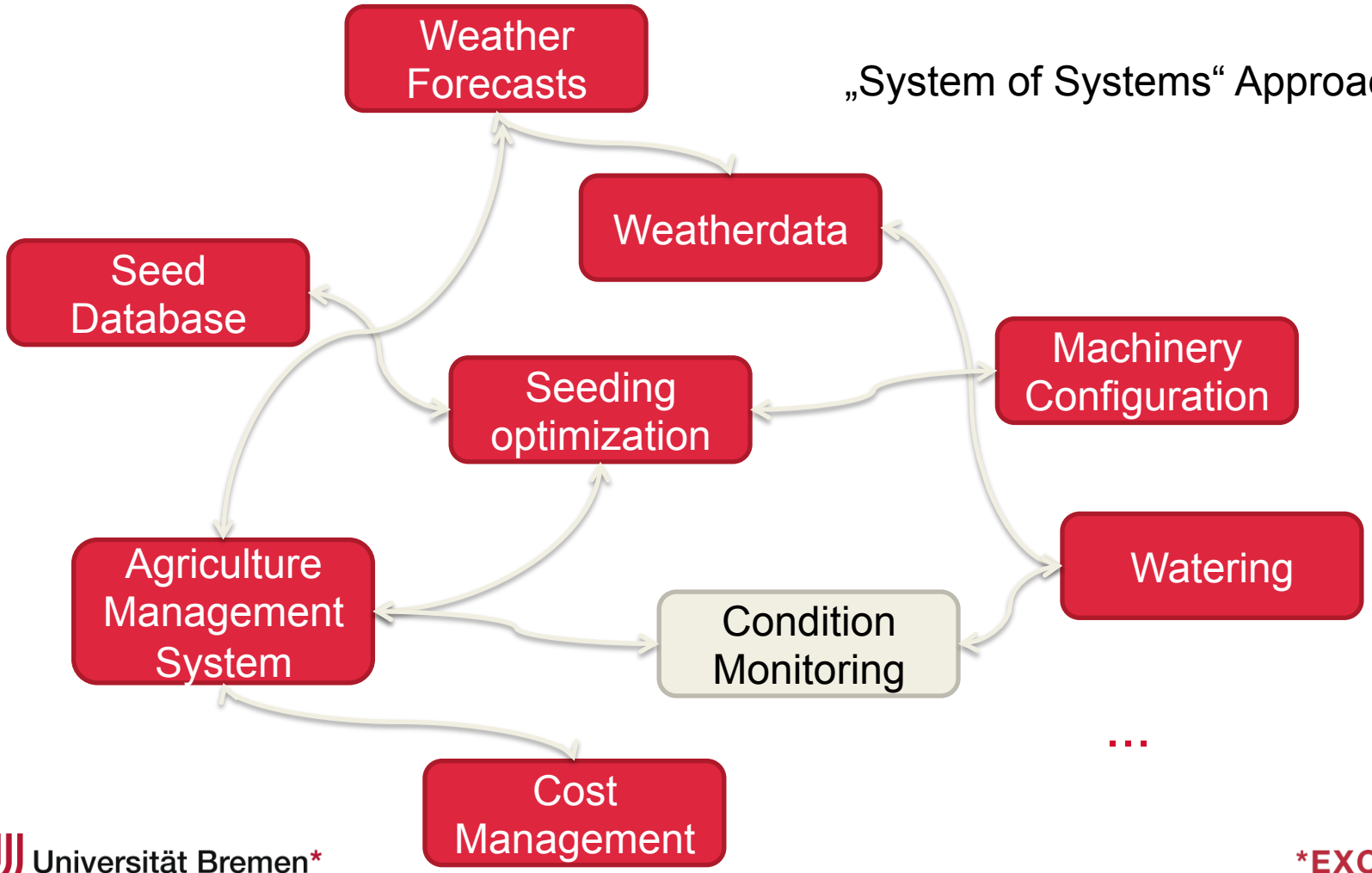


Source: Bosch

Future opportunities and technology trends

Source: IBM, http://www.ibmbigdatahub.com/blog/what-blockchain-and-what-does-it-have-do-internet-things

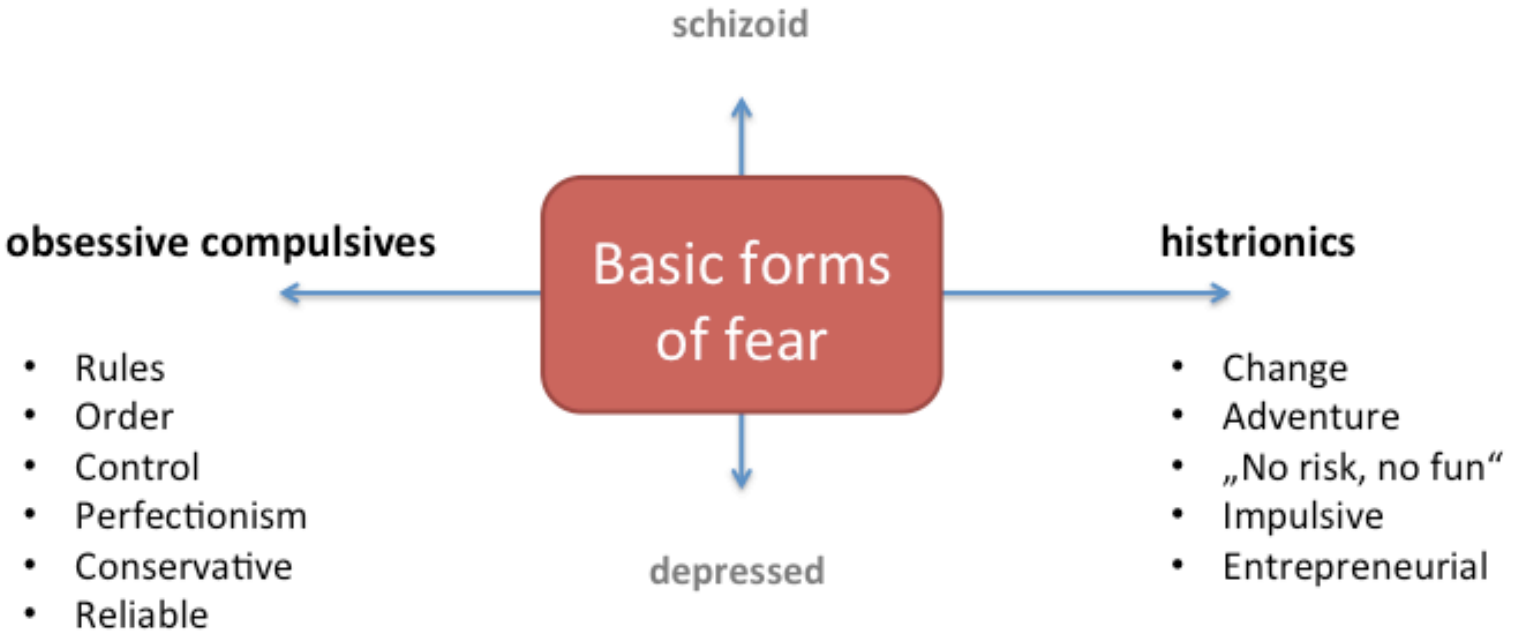
Future opportunities in agriculture – a brief brainstorming



„System of Systems“ Approach

...

Conclusion:
Germany compared to the rest of the world?!



Compare http://www.omnisophie.com/wp-content/uploads/2014/02/DD208-Hysterisch-Zwanghaft.pdf

THANK YOU FOR YOUR ATTENTION!

LogDynamics Lab
c/o BIBA
Hochschulring 20
D-28359 Bremen

LogDynamics Lab
Dipl.-Wi.-Ing. Marco Lewandowski
Tel.: +49 421-218-50122
lew@biba.uni-bremen.de