DEMOCRATIC INDUSTRY 4.0
IDEAS, MAKER AND IOT
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Key Facts

- 250 scientists
- 250 student assistants

Turnover of 25 million €
(50% from industry, trade and services)
Industry 4.0, 3D printing and IoT are changing the way we develop and produce things!
Fast Prototyping and Production

Traditional way of producing things

IDEA ➔ DESIGN ➔ SOURCING ➔ PRODUCTION ➔ DISTRIBUTION

SUPPLIERS ➔ TRANSPORT ➔ ASSEMBLY
Fast Prototyping and Production

Today ideas can be realized like this
Access to production resources is the real industrial revolution
Fast Prototyping – Internet of Things – Industry 4.0

The combination offers new chances

**Fast Prototyping**

Physical Integration

**Internet of Things**

Virtual Integration

**Industry 4.0**

Process Integration
New Ideas just realized

RackRacer: New crawler vehicles for miniload systems
New Ideas just realized
Bin:Go · Drone transport in 3D

Bin:Go rolls if it is possible and saves therefore up to 90% Energy • Bin:Go is safe, because of its soft surface and geometry • Flying in a pipe, Bin:Go operates as a tube mail
Initiatives supporting the development and realisation
Industry 4.0 Initiatives supporting this process

Center of Competence for SME

Key questions for services

4.0

Information → Demonstration → Qualification → Concept → Implementation

Digitalisation – does it really exist? How to proof it?
Is my company ready for it? What are the next steps?

What is Industrie 4.0? How would my company profit thereof?
What competences would we need? How to gain them?

How to implement it within my company? How to find the right partner?

Partners

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Industry 4.0 Initiatives supporting this process

Industrial Data Space aims at a »Network of Trusted Data«

- Decentralization
  - Federated Architecture

- Sovereignty
  - Data and Services

- Trustworthiness
  - Certified Members

- Security
  - Data Exchange

- Governance
  - Common Rules of the Game

- Openness
  - Neutral and User-Driven

- Ecosystem
  - Platform and Services

- Scalability
  - Network Effects

- Neutral and User-Driven Governance
  - Common Rules of the Game

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  - Data Exchange

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Thank you