An Industrial IoT Trail in the Smart Systems Hub

Dr. Jan Reimann (Fraunhofer IWU), Dr. Martina Vogel (Fraunhofer ENAS), Bernd Schuster (N+P Informationssysteme GmbH)
From the Sensor to the Human – Big Picture

*The Chemnitz Model for the „Fourification“ (Digitalization)*

- **Smart Systems Campus Chemnitz**
  - Organisation, Transfer and Multiplication
  - Potential Analysis
  - Transfer
  - Communication Platform

**Data as core of the intelligent production in the resource adaptive factory**

- Interoperability Connectivity
- Information Transparency
- Software
- Virtual Humans
- Smart Sensor and Production Systems for IIoT
- Decentralized Decisions
- Assistance
- Smart Maintenance
- Industrial IoT
- SMEs

**Smart Sensor and Production Systems for Industrial IoT**
From the Sensor to the Human
Enable and Apply – Process View

Industrial IoT

SENSORS
mobile, energy self-sufficient.

Know their history
PRODUCTS

Continuous creation of data
DATA SOURCES

MATERIAL
know their specific properties

Know their capabilities, autonomous
MACHINES

HUMAN
communicate, interact, decide.

intuitive, real time, context-related
INTERACTION

FACTORY OPERATION
optimal usage of resources

Simulation, prediction-based support
DIGITAL FACTORY

PROCESS CHAINS
ad-hoc, resource adaptive

operate, self-adaptive
PRODUCTION SYSTEMS

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Smart Sensor and Production Systems for Industrial IoT
From the Sensor to the Human
The Partner Toolbox – What We Offer

Industrial IoT
- Smart Sensors
- Smart Objects
- Smart Systems

Smart Production
- LinkedFactory
- Interfaces
- Digital Twin
- Visualization
- Interaction
- Data Science

Dissemination

Smart Sensor and Production Systems for Industrial IoT
From the Sensor to the Human
The Partner Toolbox – Value Chain View

Data Sources
- Raw Data

Data
- Big Data

Information
- Smart Data

Knowledge
- Decision Interpretation

Added Value
- Productivity

Smart Sensors
- Linked Factory

Smart Objects

Smart Systems

Visualization

Data Science

Interaction

Dissemination

Smart Sensor and Production Systems for Industrial IoT
Thanks for your attention 😊