

Besuch SAQ, 11.06.2019

## Introduction “Swiss Smart Factory”

**Andreas Fries**

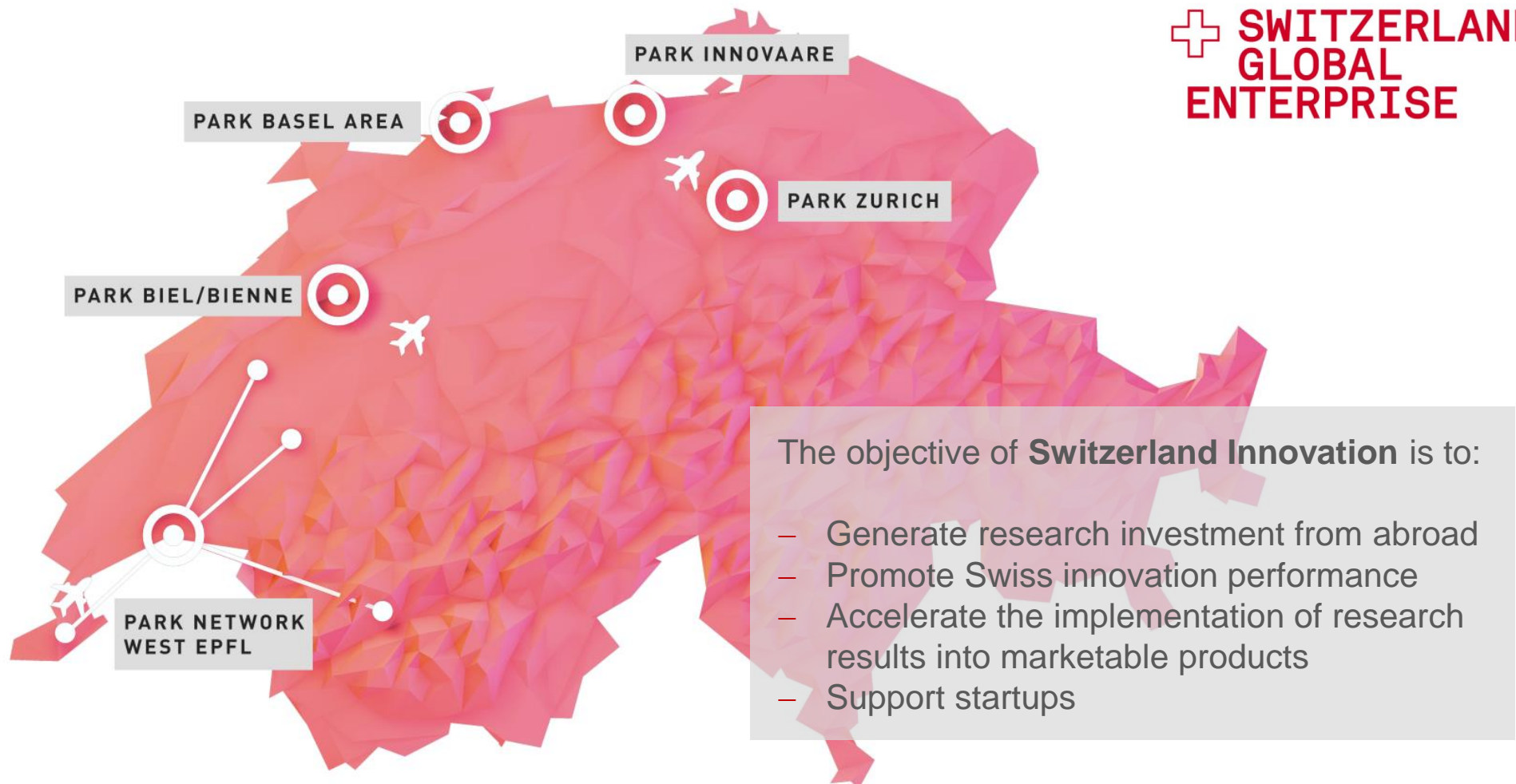
Technology Leader Swiss Smart Factory  
Lead Scientist I4.0/IoT

Switzerland Innovation  
Park Biel/Bienne



# Switzerland Innovation

## One park, five locations



# Switzerland Innovation Park Biel/Bienne

## Our new Headquarter

2020



5-floors building: modern,  
light-flooded, very adaptable

# Switzerland Innovation Park Biel/Bienne

## Our 4 Innovation focus points



Swiss  
Medtech  
Center



Swiss  
Battery  
Technology  
Center

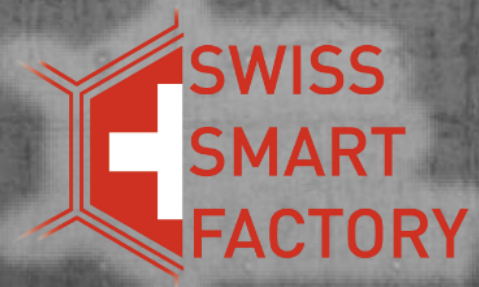


SWISS  
SMART  
FACTORY

Focus



Swiss  
Advanced  
Manufacturing  
Center

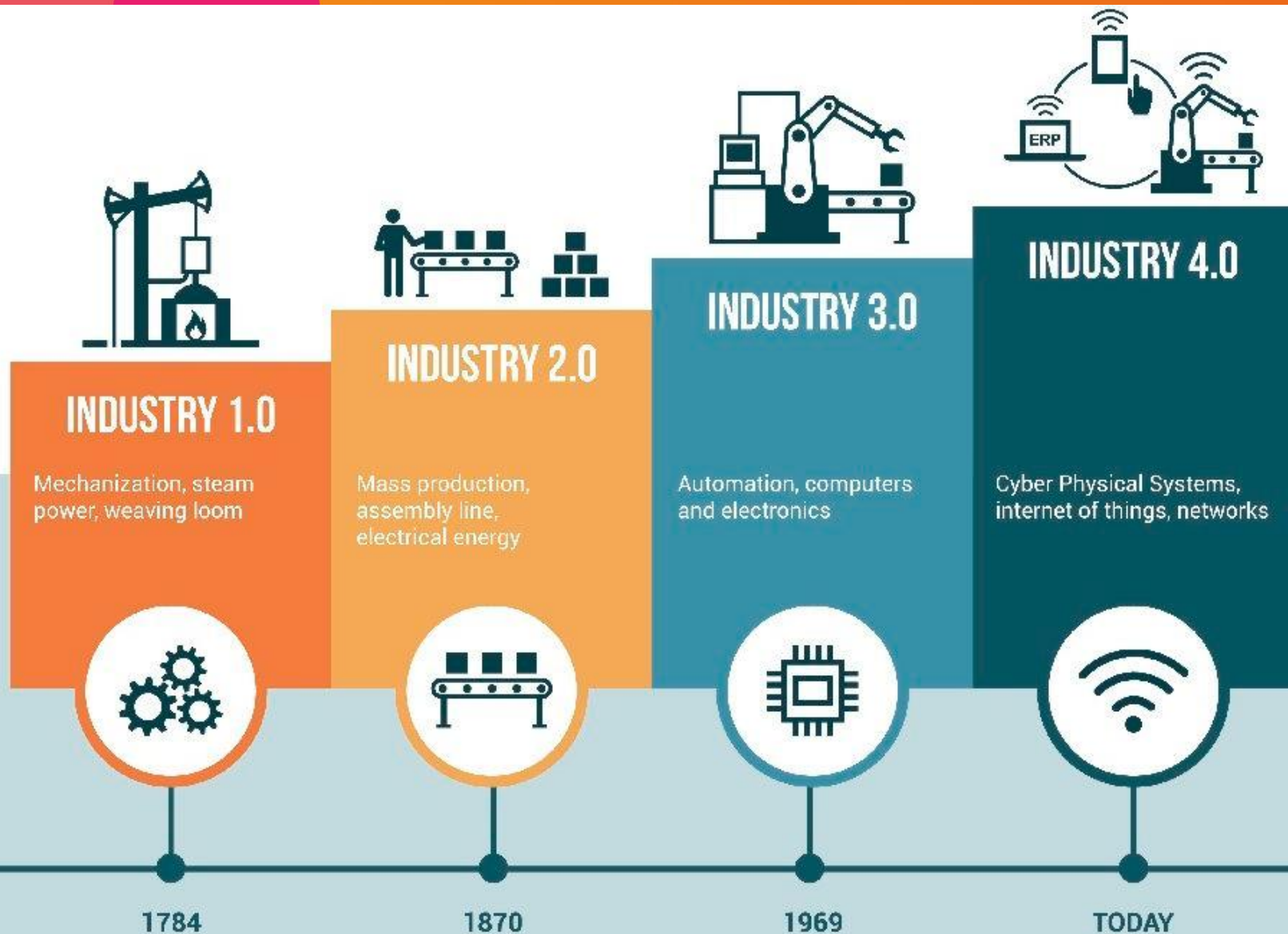


# SWISS SMART FACTORY – FIRST PLATFORM FOR INDUSTRY 4.0 IN SWITZERLAND

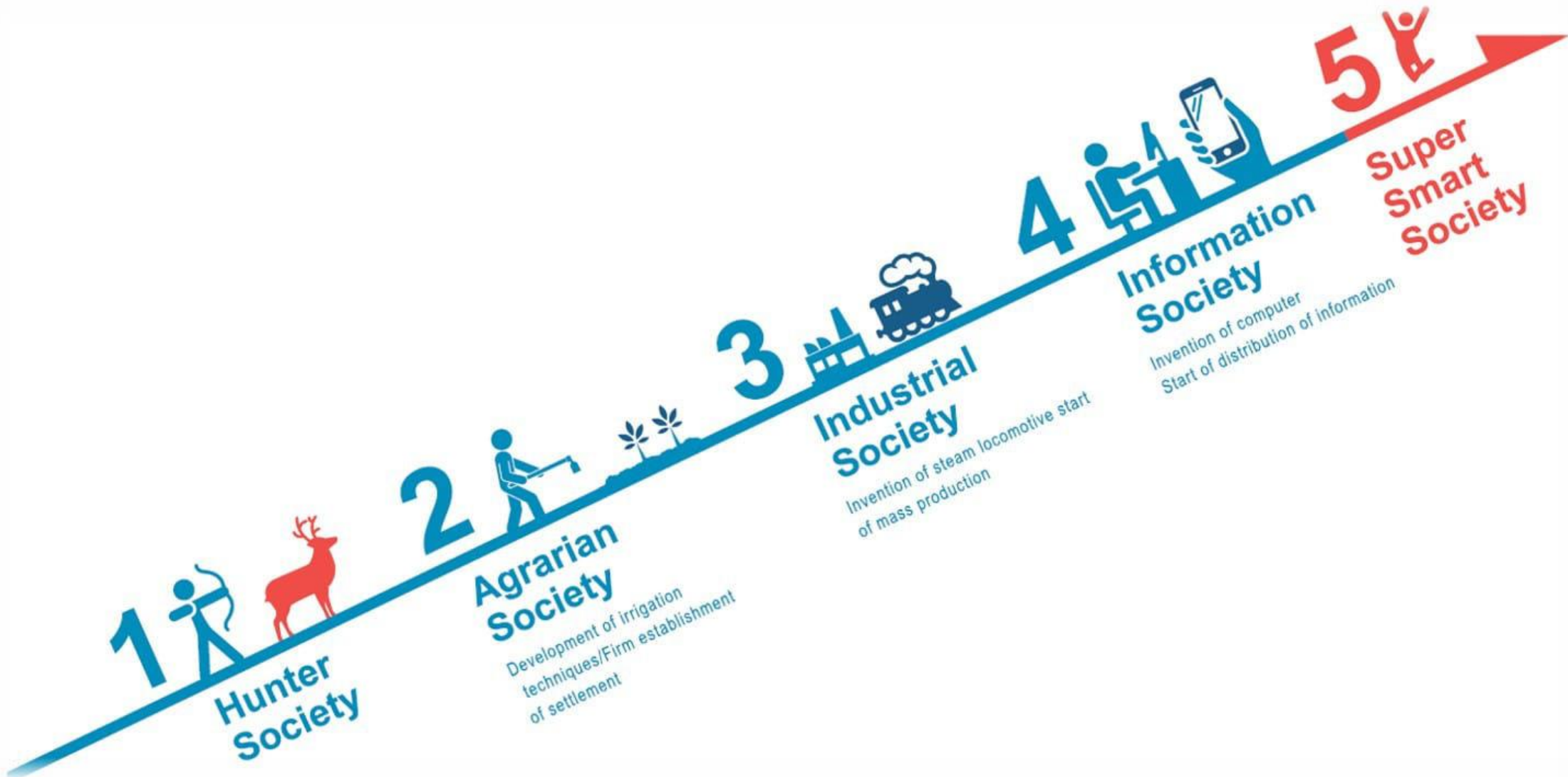


**Development – Test –  
Demonstration – Transfer –  
Education & Training**

# From Industry 4.0...



# ...towards a Super Smart Society



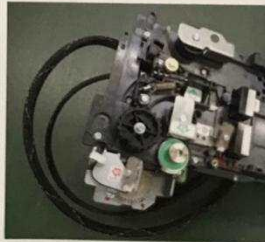




**業務の紹介**

【台板部】  
RT-300

RT-300は、硬貨つり銭機です。  
スーパー、コンビニなどで活躍。  
コスト削減に貢献します。  
台板部は、金種を識別して  
搬送するユニットです。



台板部



この生産ラインは  
ヒト型ロボットN  
働くラインです。  
変更にも、人とロボ  
次世代の生産ラ  
います。

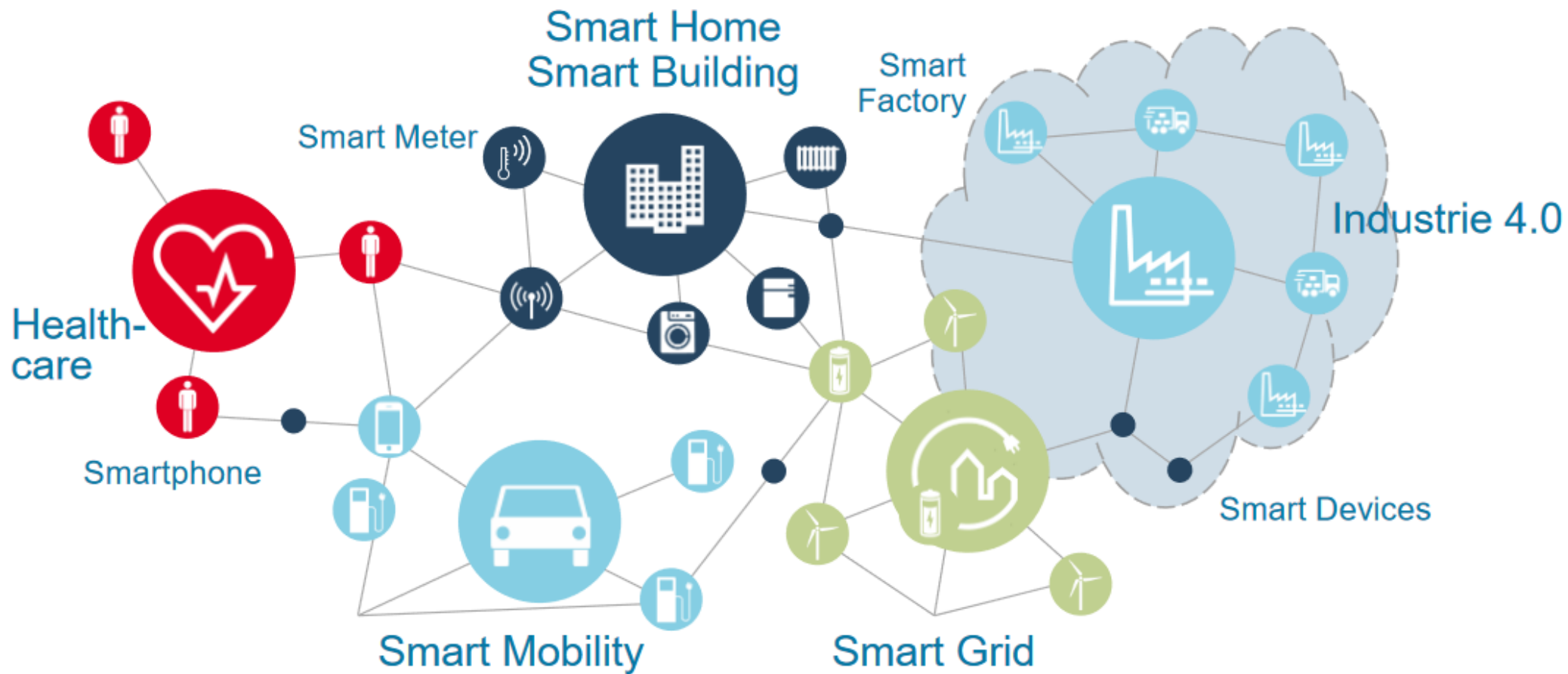
製造2グループ

**RT-300台板ライ**

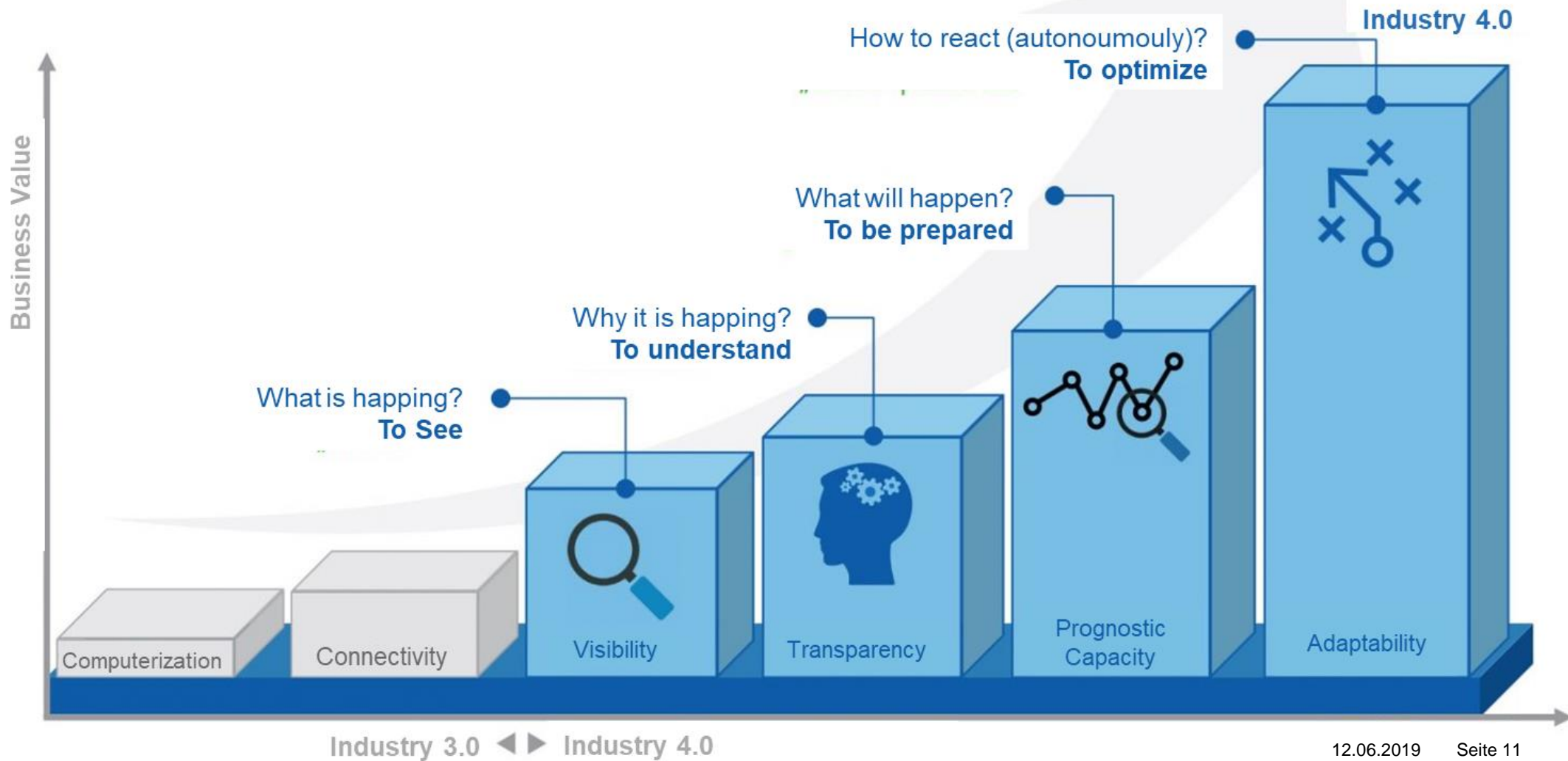


心  
と  
技

# SMART ECOSYSTEMS

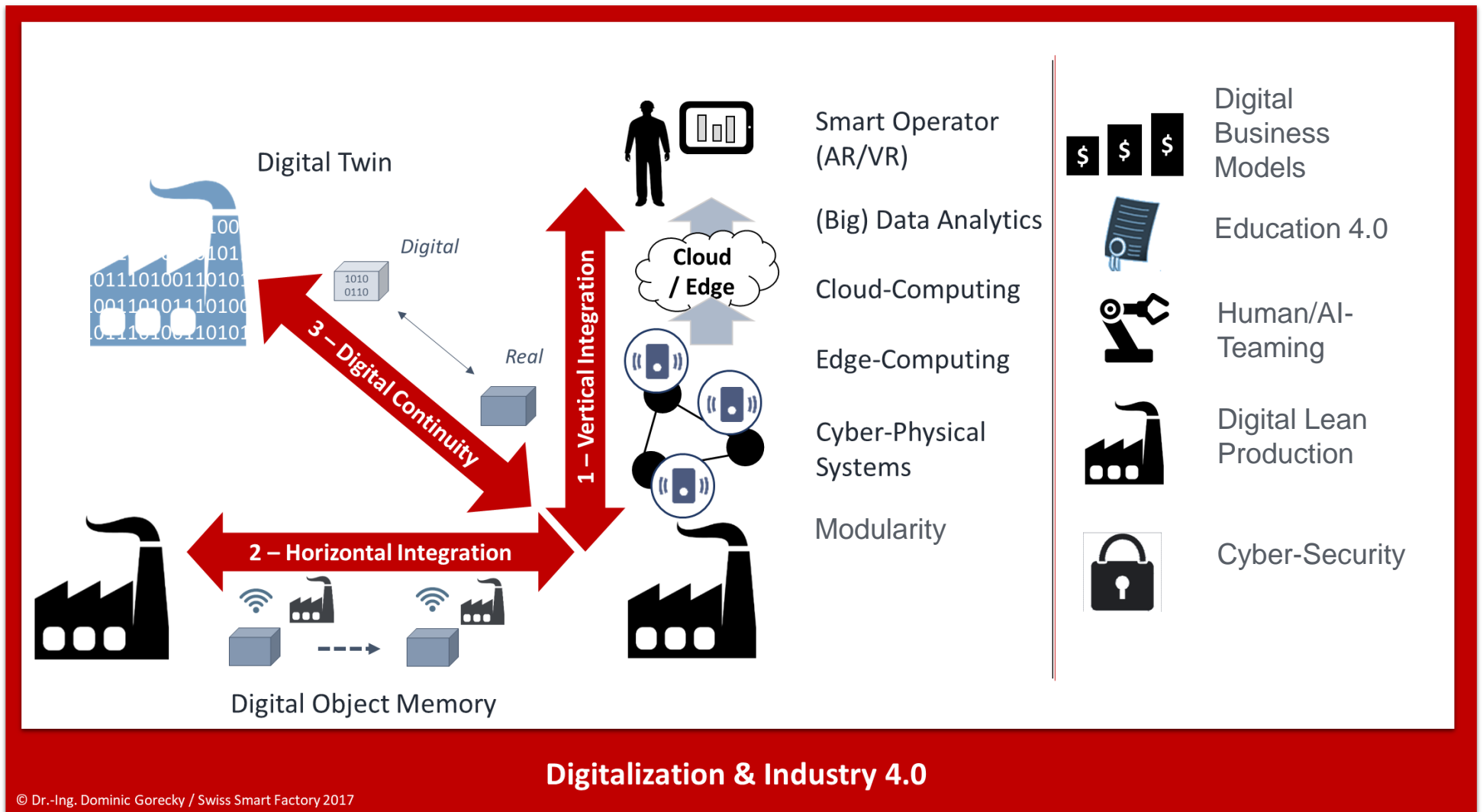


# FROM CONNECTIVITY TO SELF-OPTIMISATION

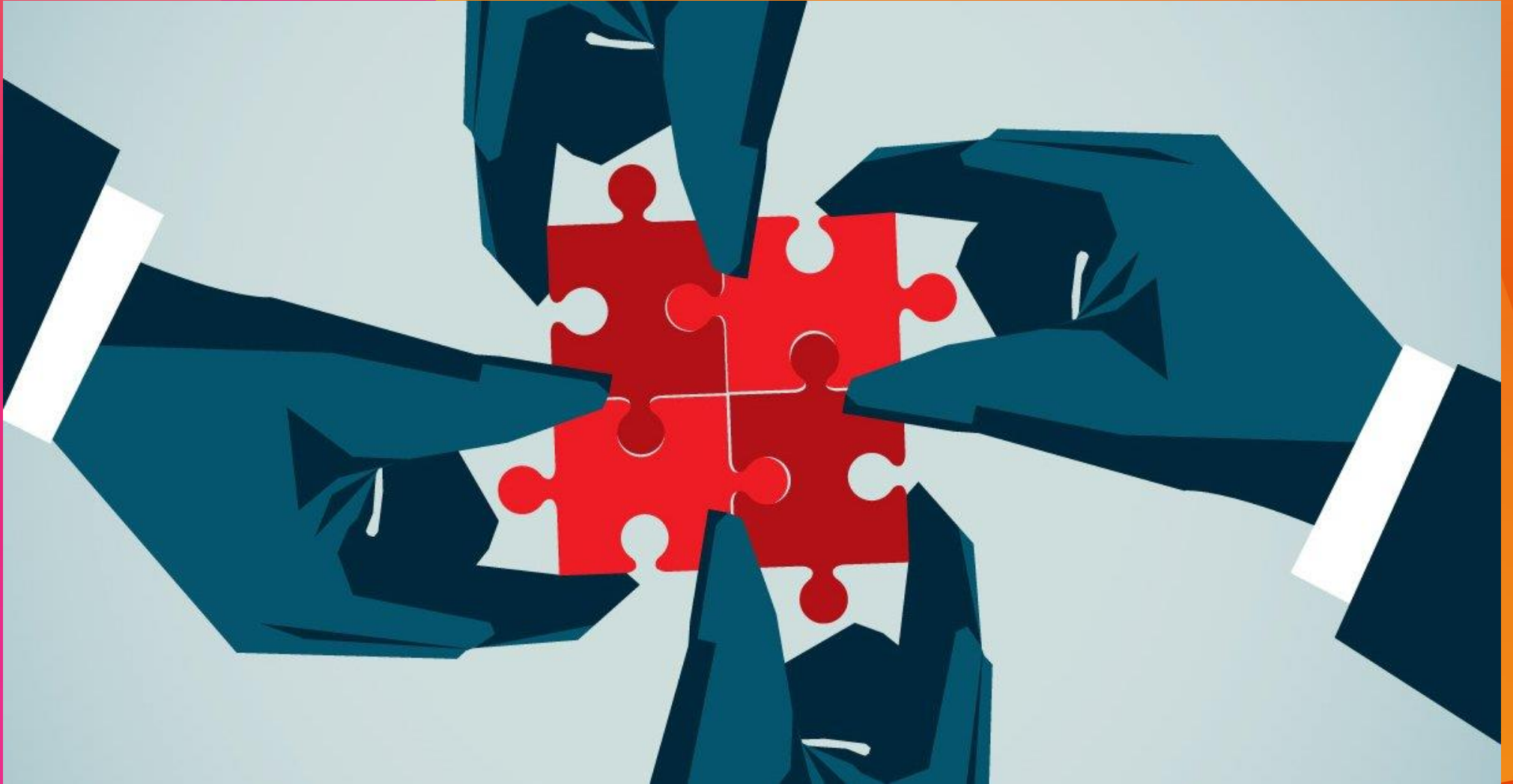


# Industry 4.0

## A multifaceted and interdisciplinary challenge



**COLLABORATION IS KEY!**



# SWISS SMART FACTORY – FIRST PLATFORM FOR INDUSTRY 4.0 IN SWITZERLAND



**Development – Test –  
Demonstration – Transfer –  
Education & Training**

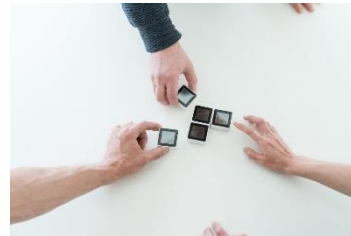
# SWISS SMART FACTORY

## 3 Pillars of Services



### 1. "Inspire & Demonstrate"

Demo-Center  
in Biel



### 2. "Develop, Test & Transfer"

Research. Innovation &  
Transfer Projects



### 3. "Train & Support"

Training-Center  
in Biel

# SWISS SMART FACTORY

## The journey so far...



Politics



Media



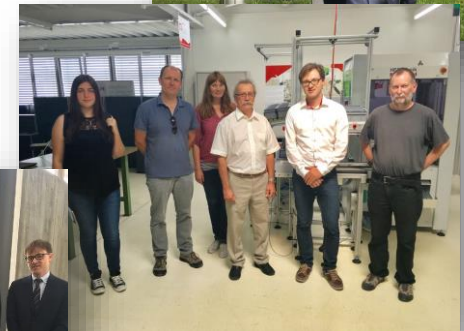
Big Player



Press

Associations

SMEs



Institutes

Universities

International



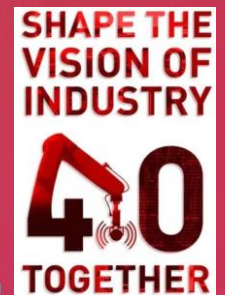


# 1st International Smart Factory Summit

## November 2018, Biel, Switzerland



# 1st INTERNATIONAL SMART FACTORY SUMMIT



22nd – 23rd November 2018

# Hannover Messe 2019

## Impressionen



HANNOVER MESSE 2018



# Mitgliedschaftsübersicht 42 Partner seit März 2018



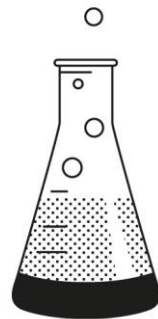
Einzigartiges I4.0  
Ökosystem

# Swiss Smart Factory

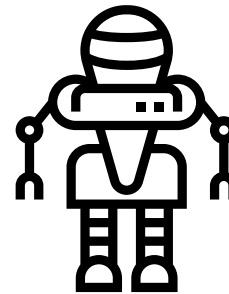
## «From the Idea to Industrialisation»



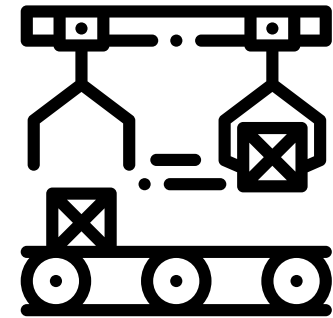
Idea



Experiment



Prototype



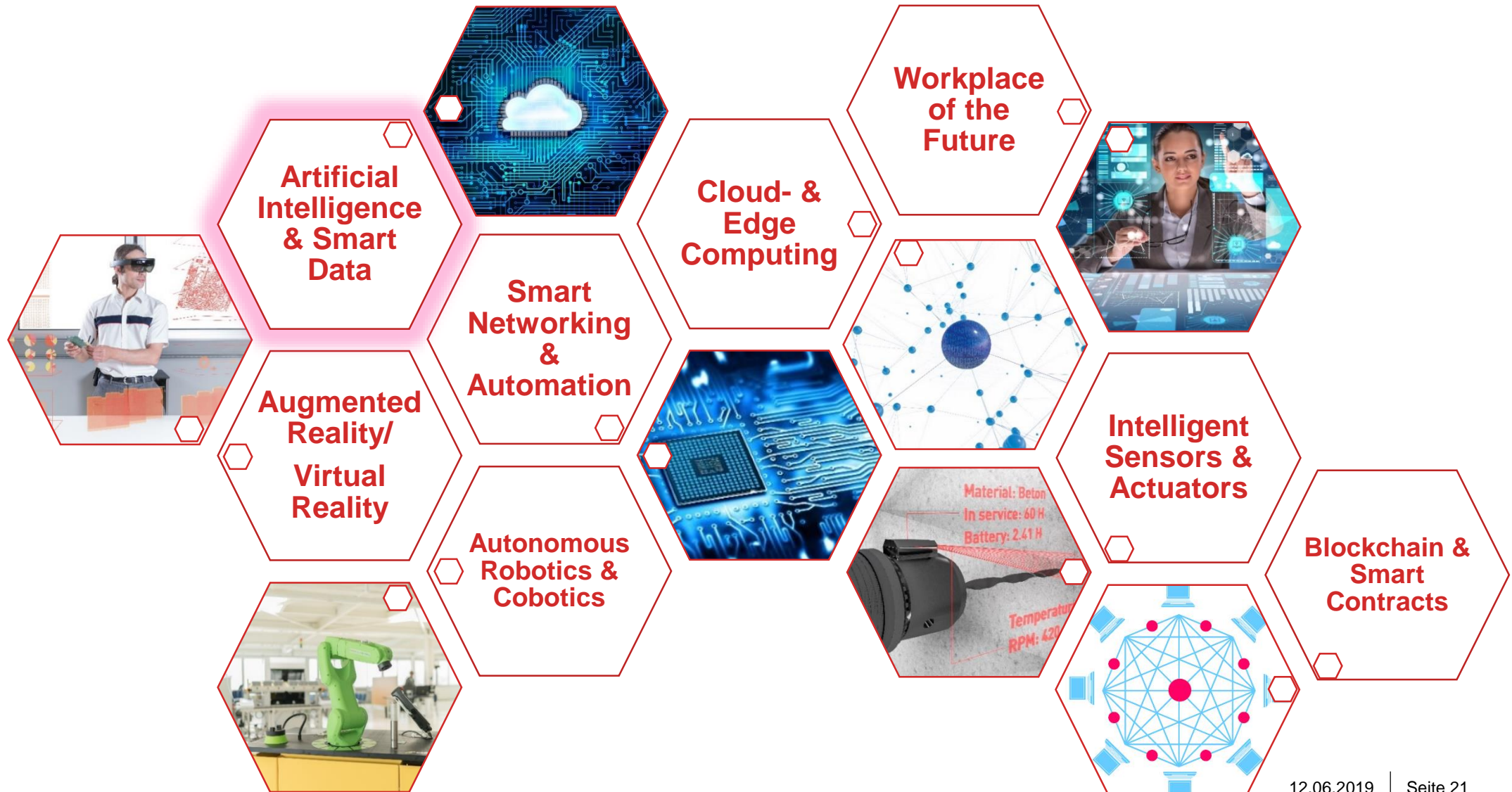
Industrialisation

SIPBB / SSF

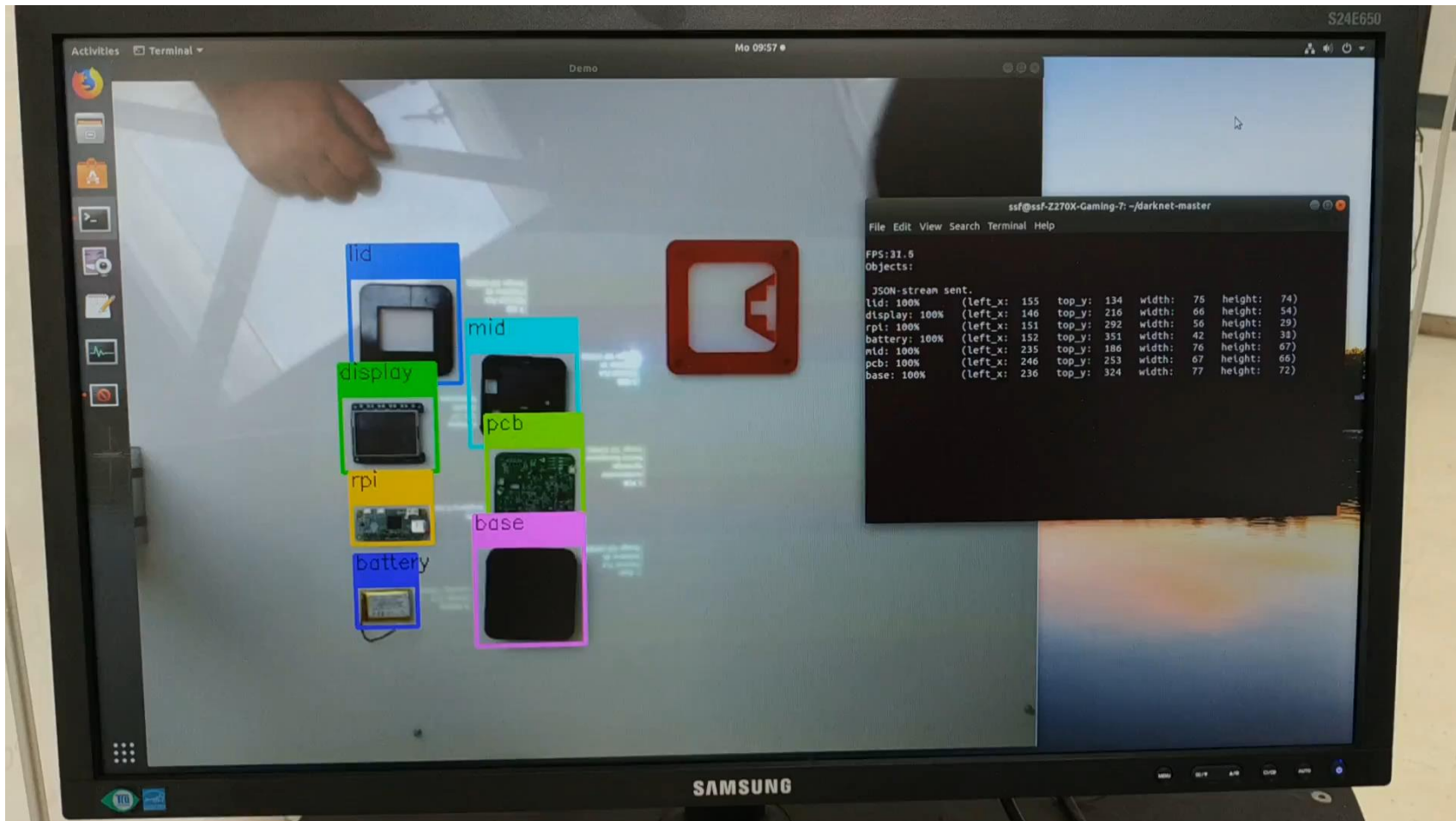
SSF Partner

# SWISS SMART FACTORY

## Focus Topics 2019



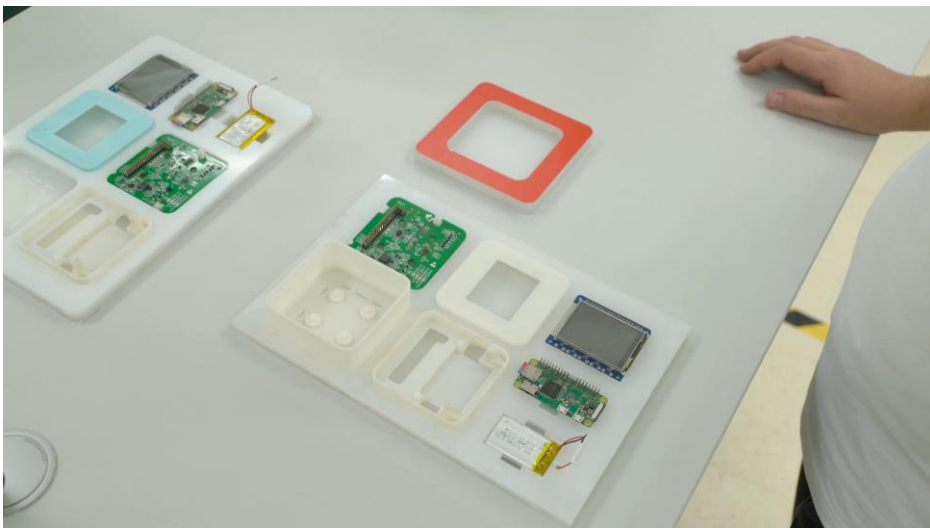
# Aktuelles Beispiel: KI made in SSF Intelligenter Handarbeitsplatz



# Swiss Smart Factory – Cluster Project

## Cobotic Workplace of the Future

Developed in less than 2 months



AR-based  
workflow  
assistance

**MiniTec**  
THE ART OF SIMPLICITY

SWISS  
SMART  
FACTORY

**SCHUNK**

**B  
H**  
Berner  
Fachhochschule

Human-  
centered  
Cobotic

**ACUBE**  
WAYS  
TO  
GET  
IT  
RIGHT



**FANUC**

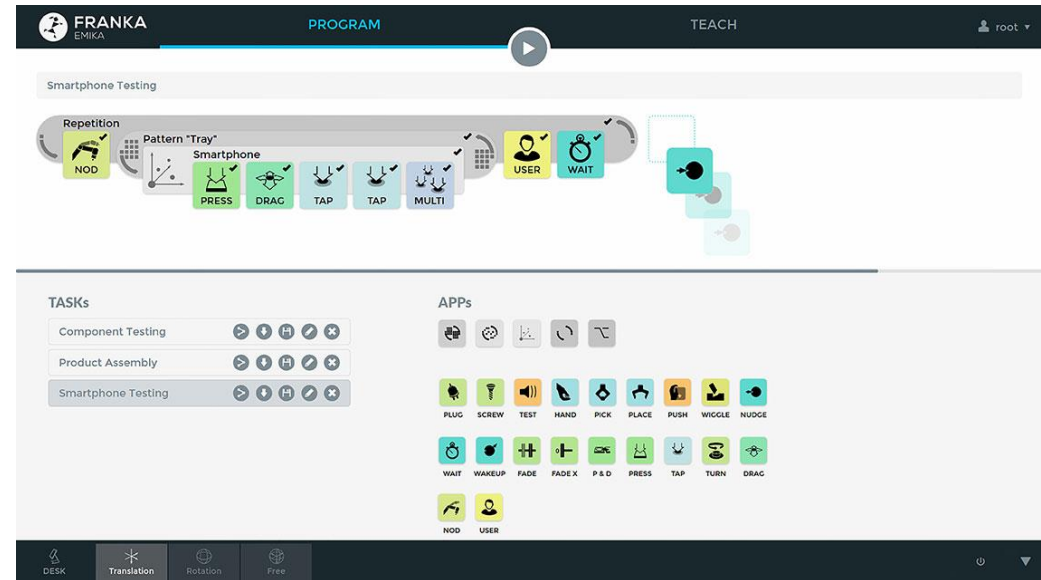
Plug&Play  
automation

In-Door GPS

abas ERP

Integrated ERP  
Speech-Assistance

# Swiss Smart Factory – Easy Cobot Light Weight Panda Cobot for KMU tasks





# Swiss Smart Factory - Industry-Project

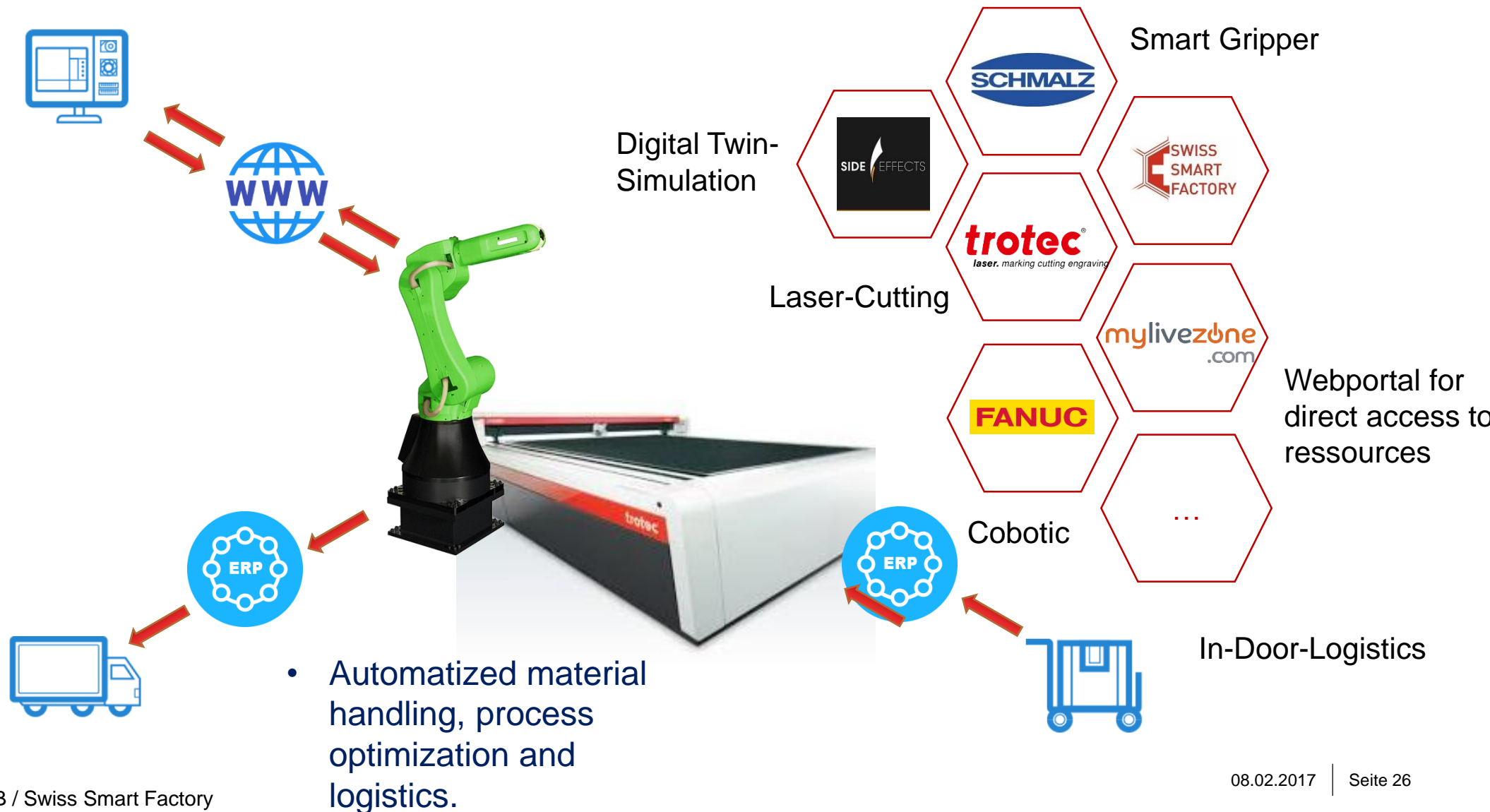
## Tree Nursery-as-a-Service

Prototype developed in less than 6 months



# Swiss Smart Factory – Cluster Project

## Laser-Cutting-as-a-Service



# SSF Leuchtturm Project

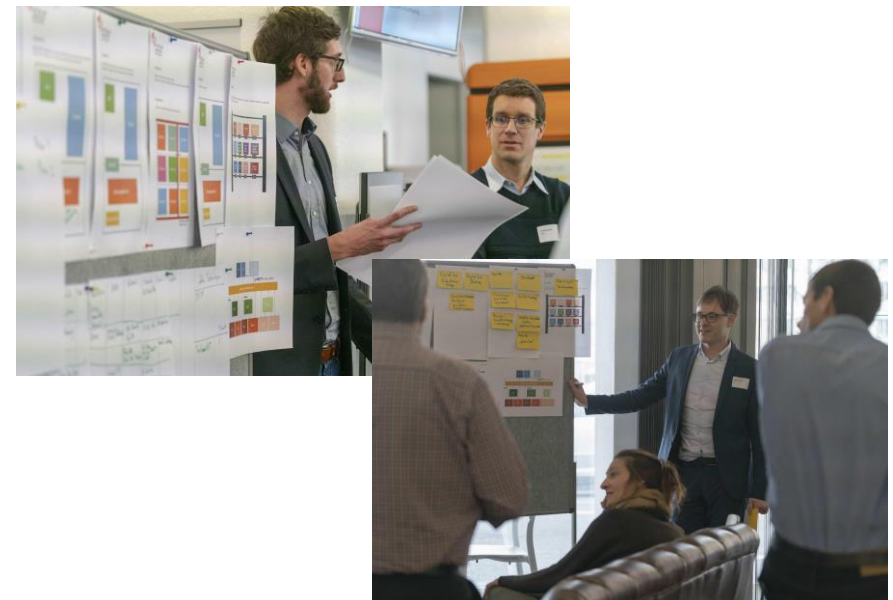
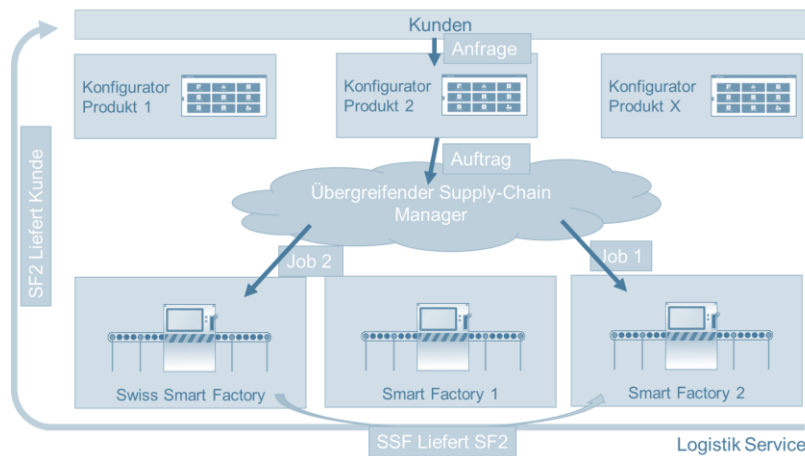
## Construction of Swiss Industry 4.0 pilot plant

### IoT-based, end-to-end production scenario in the MedTech domain

- ✓ design (Smart Hospital)
- ✓ manufacturing (Smart Factory)
- ✓ logistics (Smart Logistics)
- ✓ product life (Smart Product)

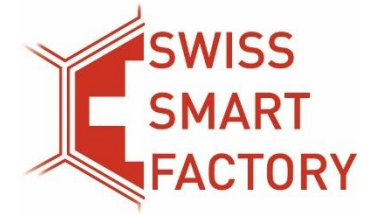
### Products:

- customized implants
- medical wearables
- micro/reconfigurable robots





**SWITZERLAND  
INNOVATION**  
PARK BIEL/BIENNE



**SWISS  
SMART  
FACTORY**

# THANK YOU FOR YOUR ATTENTION

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