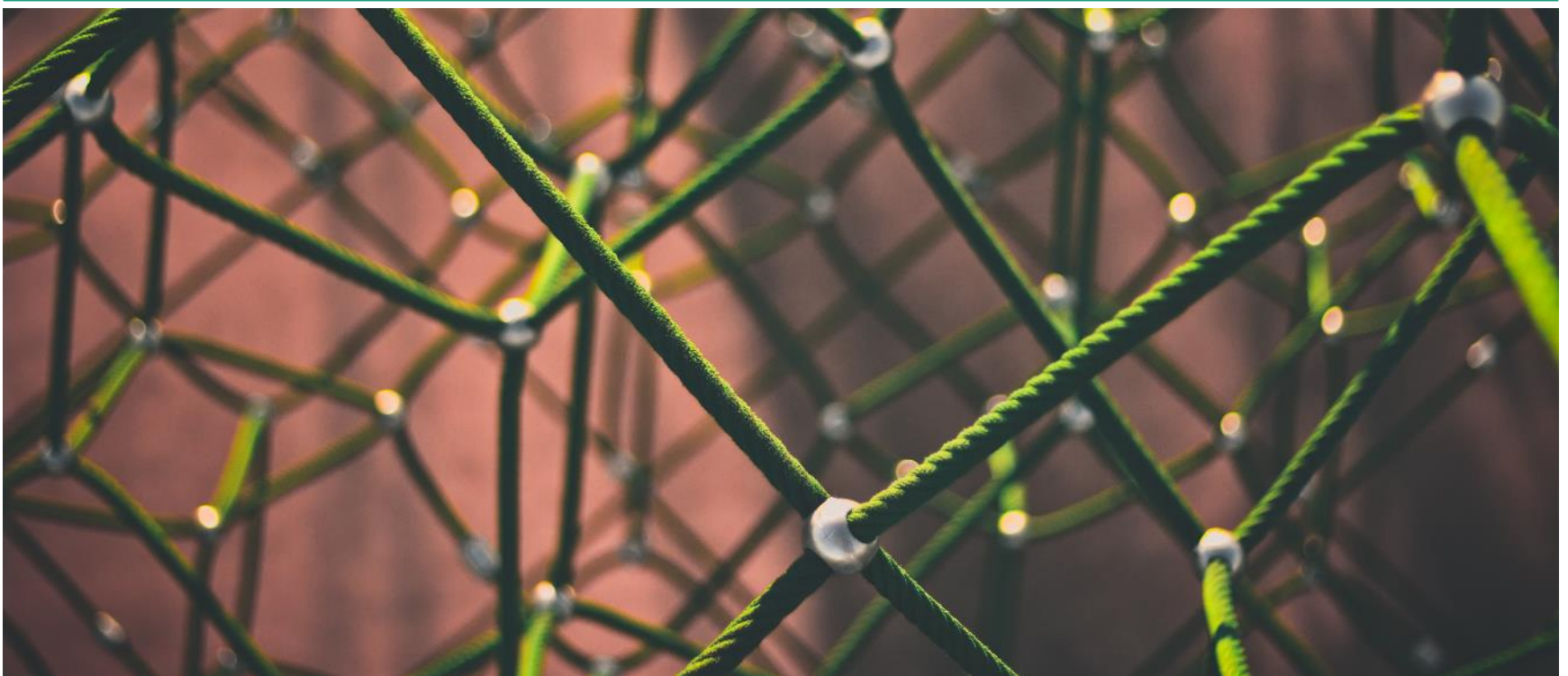


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# VDTC OF THE FRAUNHOFER IFF DIGITAL INNOVATION HUB FOR SAXONY-ANHALT

Christian Blobner, Brussels, January 22, 2018



# The VDC of the Fraunhofer IFF

## Promoting Digitalization since 2001



**PARTNERNETZWERK** | Sachsen-Anhalt  
**WIRTSCHAFT 4.0**



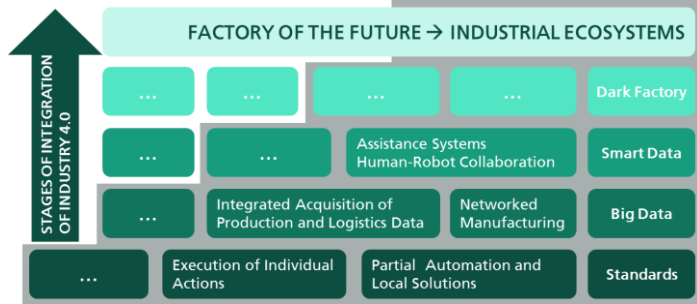
*Wir stehen Unternehmen zur Seite*

# Approaching SME on Digitalization

## Industry 4.0-CheckUp



Source: © Fraunhofer IFF



Source: © Fraunhofer IFF

- Providing companies with a realistic maturity assessment within the Industry4.0 paradigm
  - Process mapping and visualization;
  - Classification of the company regarding the maturity to absorb new technology and/or processes;
  - Estimation of potential efficiencies and ROI;
- Roadmap development for evolutionary transition and exploitation of digitalization benefits
  - Derivation of short-, medium- and long-term measures for implementation;
  - Supporting the necessary technology assessment and selection
  - Implementation support
- Implemented for SME, and large OEM in Germany, Spain, Thailand, China and Kazakhstan

# Supporting SME in Digitalization

## Digital Engineering and Operation – Flagship Project



Use of virtual models to plan, develop and prototype the manufacturing system

Demonstrate a **Digital Twin** and benefits of a fully digital workflows in design and operation of production systems

Planning and development of several (semi) automated manufacturing systems

**Goal: Fully automated production facility (2020)**



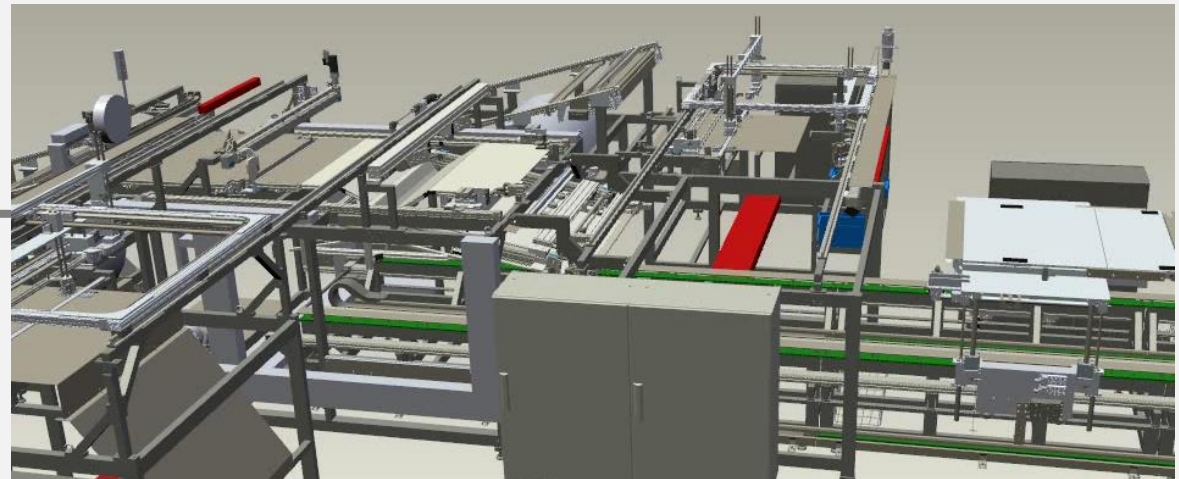
1st generation  
ManualWinder  
(2011)



2nd generation  
AutoWinder I  
(2012)



3rd generation  
AutoWinder II  
(scheduled for  
2017)



# VDC of the Fraunhofer IFF in Magdeburg

## At the cutting Edge of Digitalization



### Testbed for Cognitive, Autonomous Work Systems

- Extension of the VDC of the Fraunhofer IFF to be completed in 2021

### Elbedom<sup>e</sup> 2.0

- Highly immersive VR environment for innovative applications for planning and testing in factory settings or machinery, training of novel work places, etc.

