

TELEKOM DATA INTELLIGENCE HUB

Create value from data

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Data Intelligence Hub



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CURRENT CHALLENGES IN THE ECONOMY

Data is the new oil!

However, companies can only fully exploit the potential of their data if they link it intelligently across companies and industries.

PwC, 2018

Hewlett Packard Enterprise and Continental launch blockchain-based data monetization platform

FEBRUARY 25, 2019 • PRESS RELEASE

Microsoft and the BMW Group launch the Open Manufacturing Platform

April 2, 2019 | Microsoft News Center

Challenges

No standards for data exchange

Huge amount of unstructured data

Incompatible data models

Organizational silos

Fear of loss of control

Inconsistent terminology



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DATA INTELLIGENCE HUB BY DEUTSCHE TELEKOM

VISION OF A DATA DRIVEN ECOSYSTEM

Build “THE 1ST ECOSYSTEM” for ALL ANALYTICS MATTERS,
including SECURE DATA EXCHANGE between companies and enabling
DATA-DRIVEN PRODUCT & SERVICE INNOVATIONS,
in which the DATA OWNER KEEPS CONTROL OVER DATA USAGE



**CLOSE DATA
GAPS**

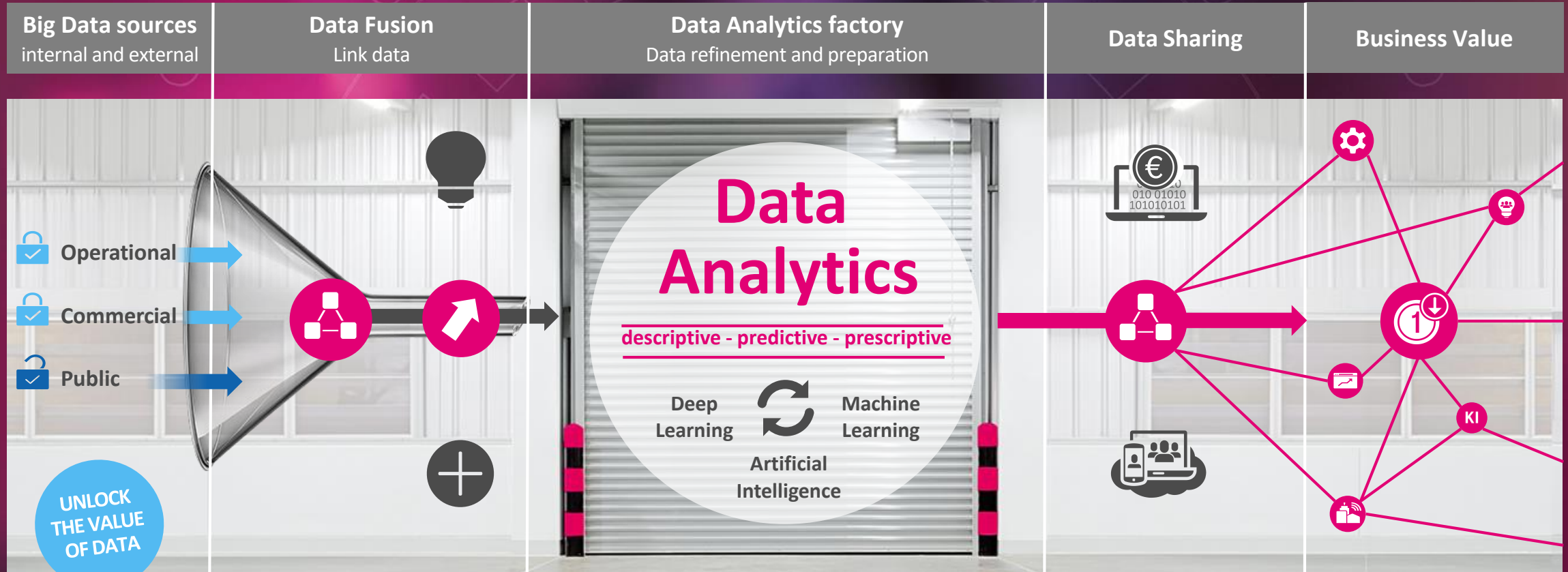


**OPTIMIZE PROCESS
CHAINS**



**INCREASE ADDED
VALUE**

DATA - VALUE CREATION & REFINEMENT



Increasing complexity requires new analysis options

1) Gartner



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Provider

DATA INTELLIGENCE HUB

Purchaser

Ecosystem for Data Exchange & Analytics Opportunities

Analytics

Individual customer solutions from T-Systems or selected analytics partners (Analytics Insights)

Workspaces

Self-service applications with 50+ tools for developing data-driven business models

Data catalogue

Prefilled with > 200,000 open data sets of various categories and formats

Open Data



Closed Data



Data-driven business models

100 %
RELIABILITY
Data will never be used
or stored for own
interests

Data monetization and
market access in self-serving!

Price autonomy

Self-service access to valuable, easy-
to-use data!

Autonomous supplier selection

simple and secure



Trust

Secure, smooth data exchange
based on standards



Open

Neutrality for all participants,
overcoming organizational silos



Data sovereignty

Data owner retains control
over data flow and use



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ADVANTAGES OF DATA ECONOMY AND ANALYTICS



POSSIBLE USE CASES IN MANY MICRO MARKETS

Logistics



Shipping
ETA precision

USE
CASE

Transport
Route
optimization

Port logistics
Process
optimization

Machine Data
Smart Routing

USE
CASE

Material order
Optimization

USE
CASE

Manufacturing



Real Estate



**Operational
analysis**
Optimize use
of buildings

USE
CASE

Smart City



**Environmental
protection**
Determination of
air quality

USE
CASE

Retail & Food Production



Needs analysis
Order
optimization

Drinks
Production
Optimization

USE
CASE

Maintenance
Analyze train data
Analyze aircraft data

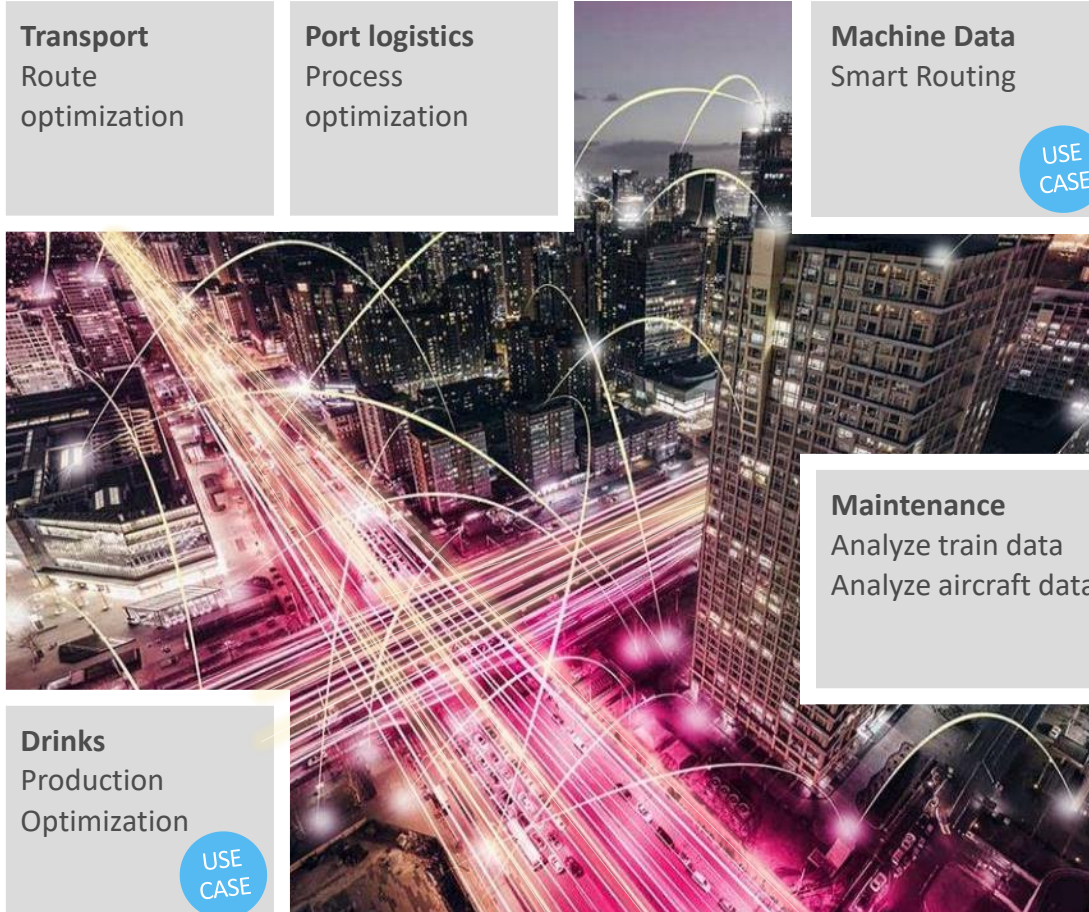
Public transport
Intermodal travel

Public Transport



Risk profiles
Individual offers

Insurance



◀ SECURE AND STANDARDIZED DATA EXCHANGE DATA INTELLIGENCE HUB FOR SMART DATA ROUTING



Problem

- No machine data exchange across companies
- Lack of interfaces and inadequate security standards with concern for loss of data sovereignty
- Uniform standard (OPC UA) and intelligent routing (DIH) is required to ensure data sovereignty

Solution

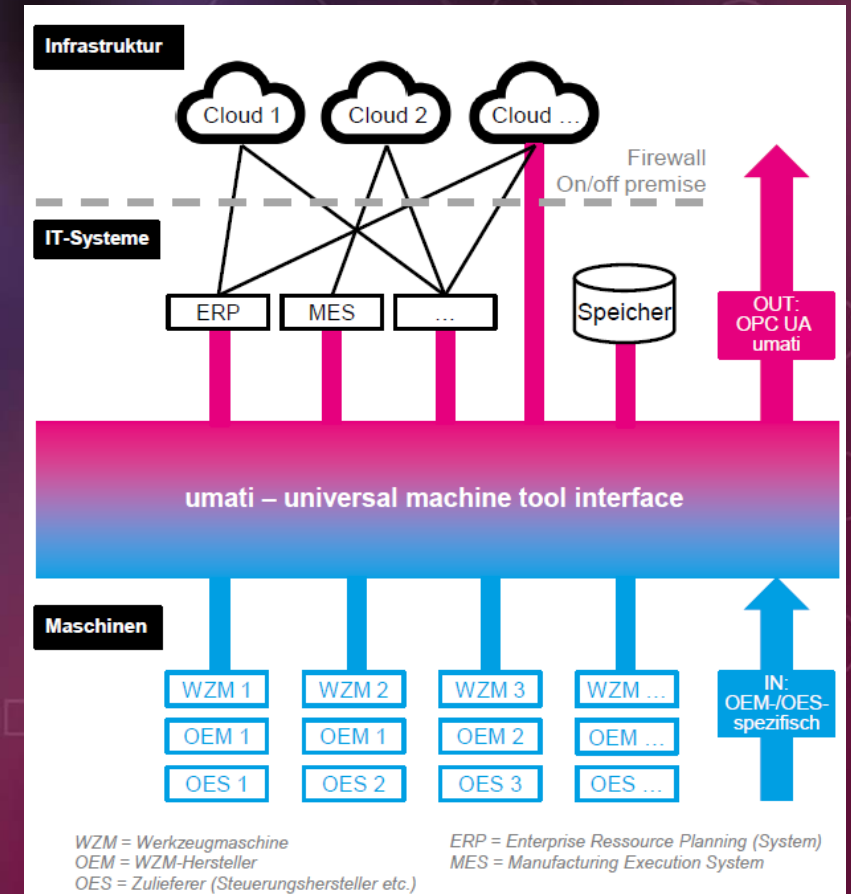
- Umati acts as a universal interface that securely, seamlessly and effortlessly integrates machine tools and equipment into customer and user-specific IT ecosystems.
- With its functionalities the DIH provides the possibility to route the data intelligently and individually to specific ecosystems

Win / Win

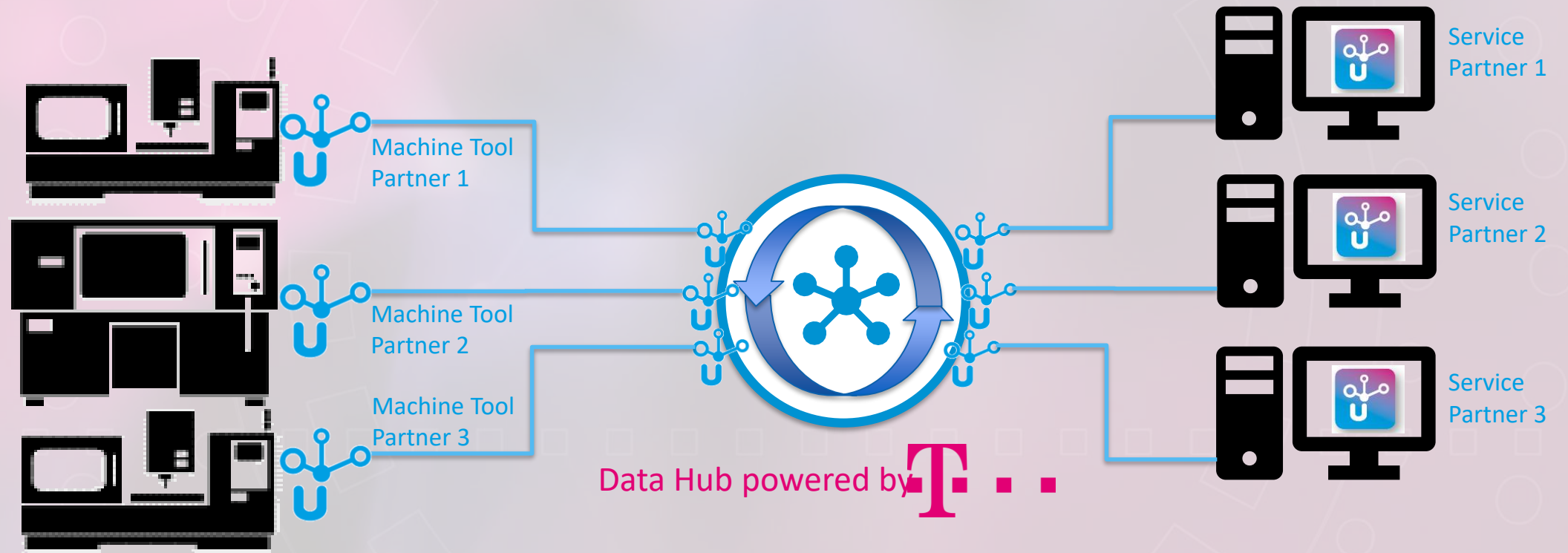
- Data sovereignty, avoidance of data loss
- Easy and secure data exchange and Deployment with a unified platform

WHAT IS UMATI?

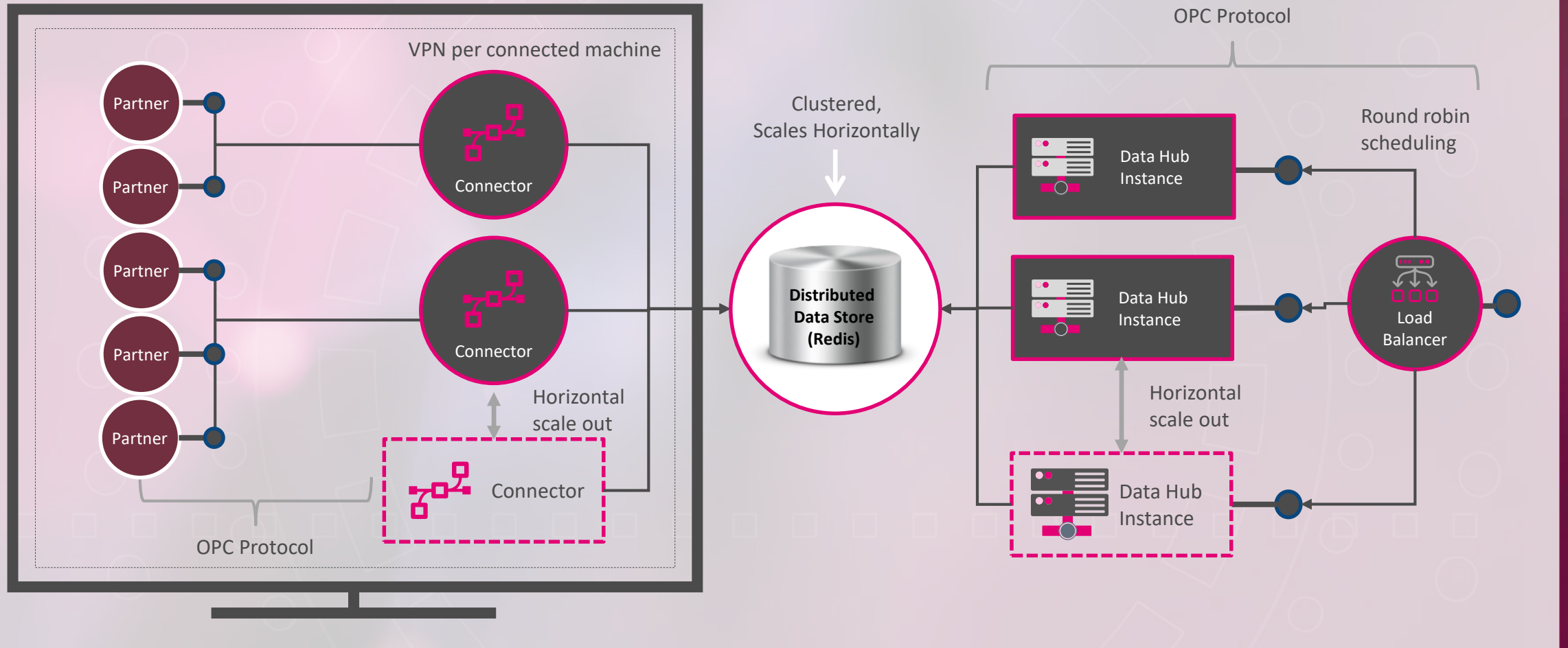
- umati stands for a universal machine tool interface that can safely and seamlessly integrate machine tools (WZM) and systems into customer and user-specific IT ecosystems.
- umati serves to connect machine tools to IT systems inside and outside the production environment (MES, ERP, Cloud, ...)
- At its core, umati provides standardized semantics through an information model based on the communication standard OPC UA
- umati can be extended with specific extensions by manufacturers and users of machine tools
- umati offers a standard not only in Germany, but for users all over the world



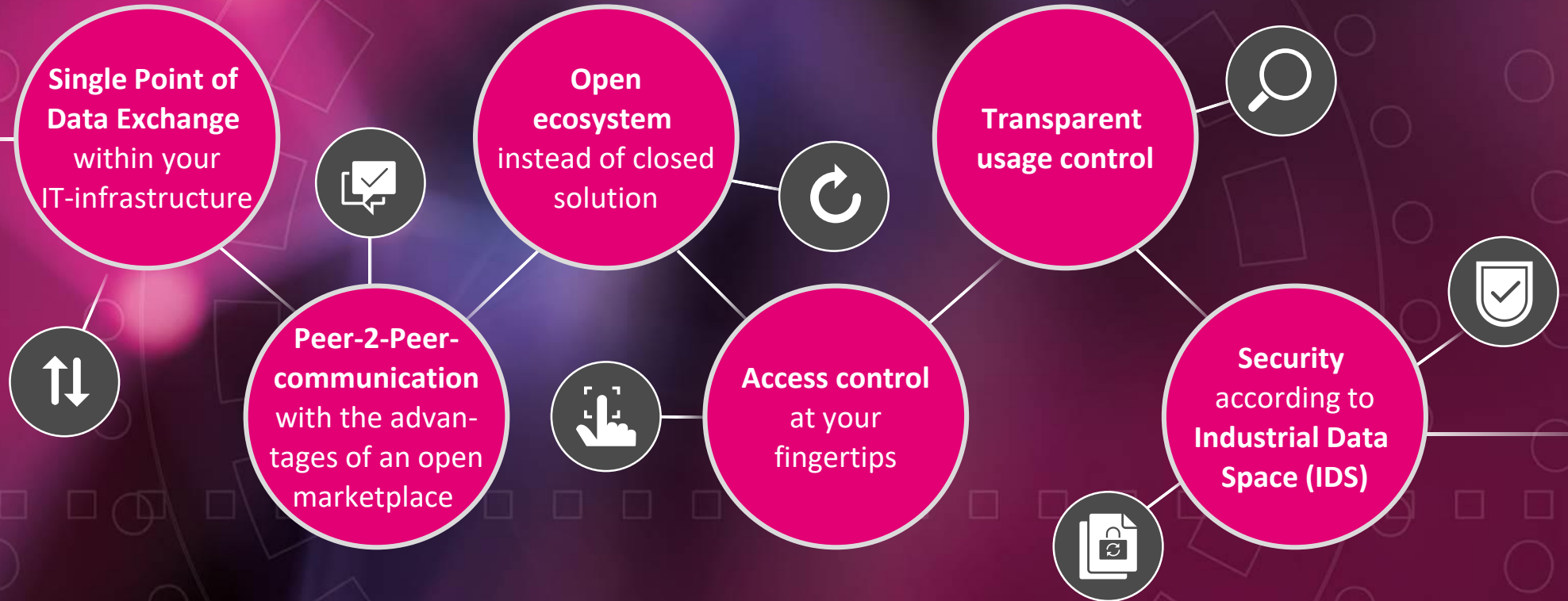
SHOWCASE FOR EMO



DETAILED ARCHITECTURE



DATA INTELLIGENCE HUB CONNECTOR ADVANTAGES



THE SECURE PUBLIC CLOUD FOR THE DATA INTELLIGENCE HUB

Data Intelligence Hub –
Platform based on Cloud (German OTC, Azure etc.)

Secure Public Cloud
for **single and multi-tenant** Big-Data-scenarios

Selection, configuration and optimization of the Big-Data-Cloud-infrastructure for the right performance



Best class big data software ecosystem such as Cloudera and MapR or cloud-native big data applications such as HDInsight



Fast and fully automated
delivery



Flexible Big-Data environments adapted to customer needs in size and design



Enterprise-grade Security
Big-data-environments secured by Kerberos, LDAP & Sentry



Hybrid models
integrate private und public cloud or on-premise-big-data-environments

DATA INTELLIGENCE HUB THE TRUSTED ENVIRONMENT



T

Technological, industrial and manufacturer-specific independence

R

Regulations of all European data protection laws are observed → legally compliant

U

Ultimate data sovereignty and control for data owners

S

Secure data exchange and data storage

T

Telekom data trust architecture, federal data storage and participant certification



THAT'S WHY DEUTSCHE TELEKOM!



CURRENT DATES AND LINKS

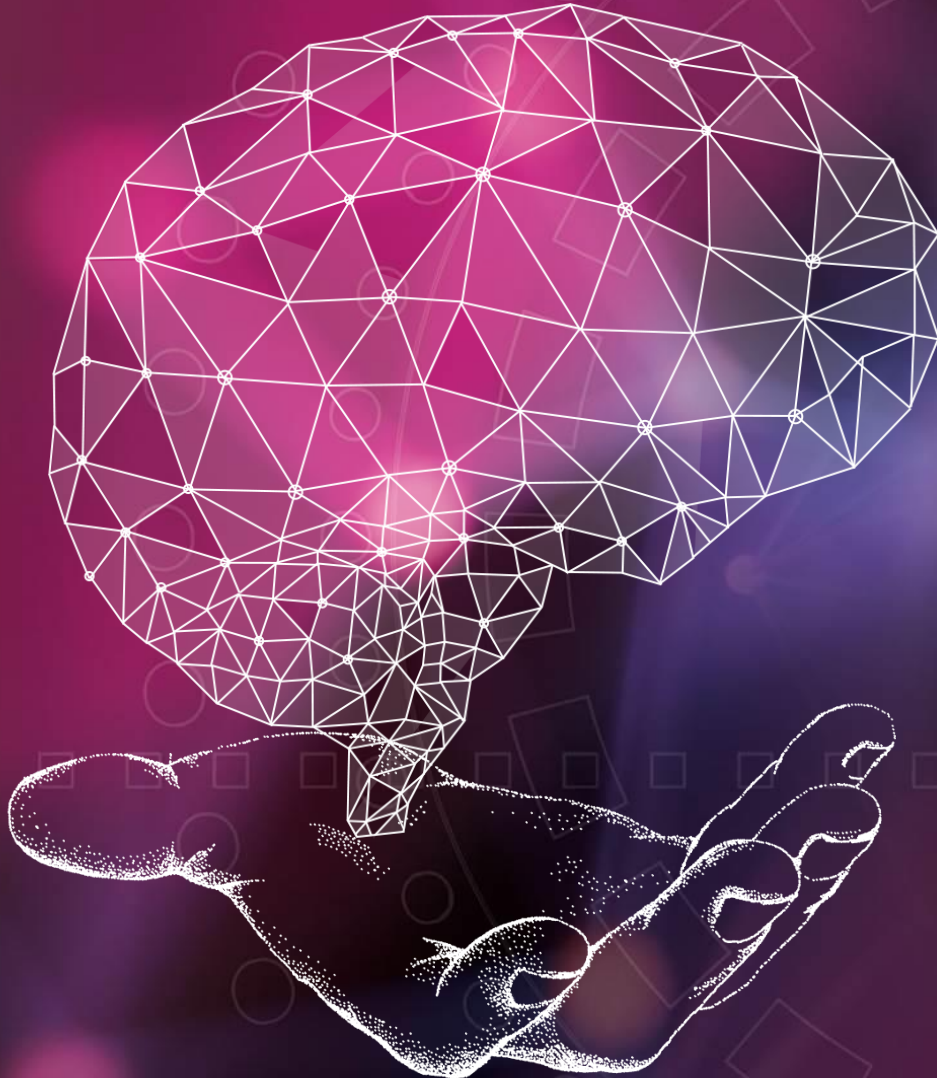
Easy to learn

09.10.2019

Completing, using and exchanging production relevant data - Live Demo

<https://attendee.gotowebinar.com/register/4689760540180929035>

THANK YOU!



I look forward to continuing our dialog



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