



Der digitale Zwilling im offenen Ökosystem

Ludwigsburg, den 20. Mai 2022

Dr. Marius Grathwohl  
VP Digital Products & Transformation

# MULTIVAC 2022. Headquarter.

88.770 m<sup>2</sup> Usable area.



We are close to our customers – Worldwide.



## Packaging

- Thermoforming packaging
- Packaging in film pouches
- Packaging in trays



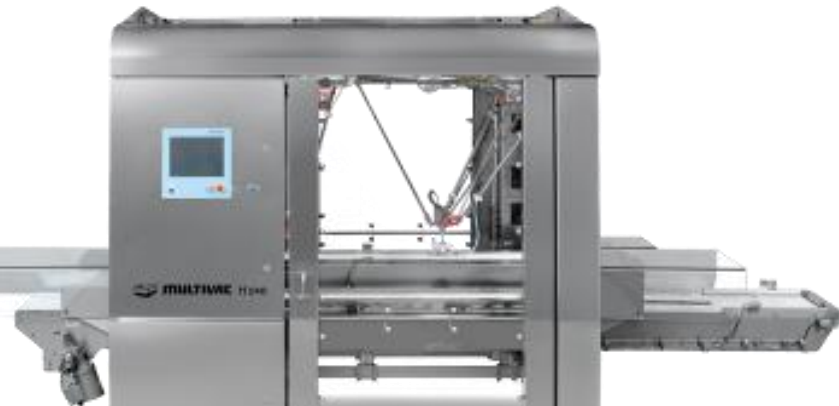
## Marking & Inspection

- Labelling
- Printing
- Quality Inspection



## Automation

- Handling
- Transport



## Processing

- Portioning
- Slicing
- Processing of dough



# Markets



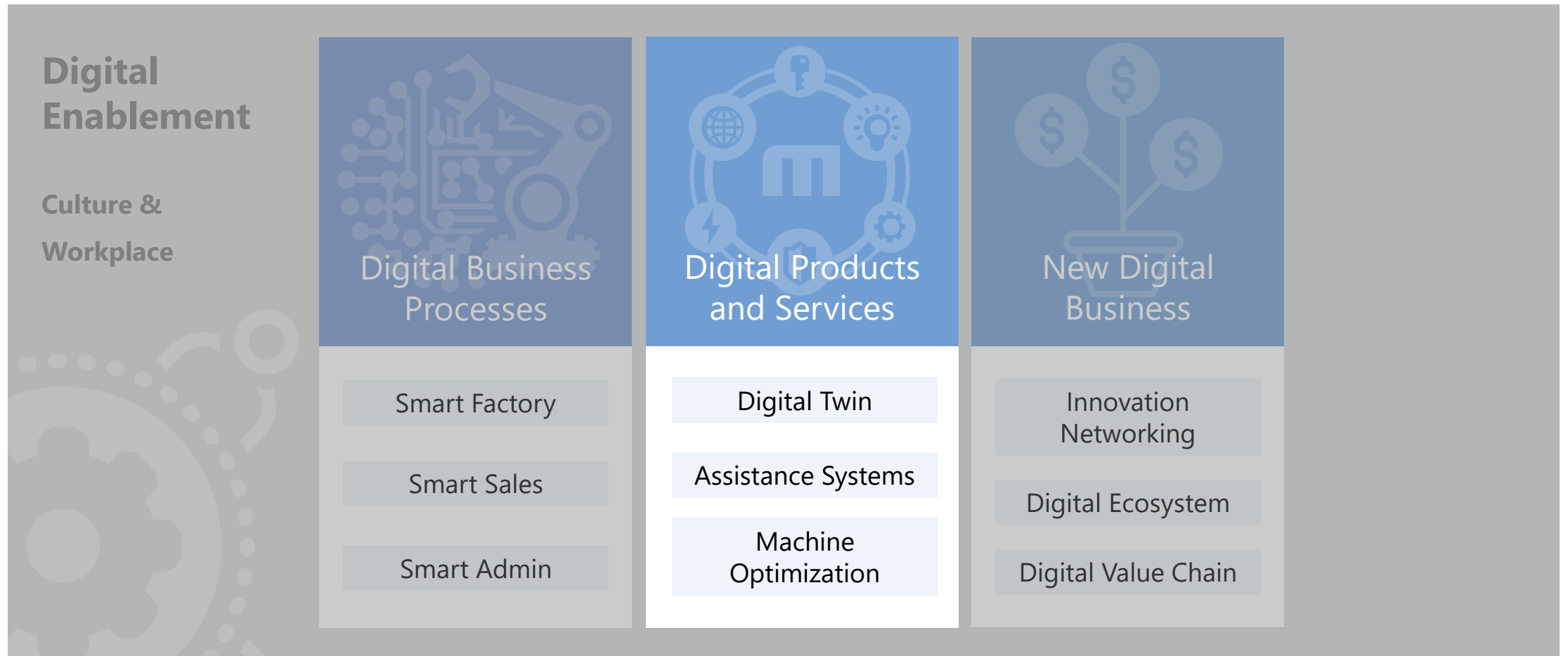
# Digital Strategy & Digital Products

## From a Machine Manufacturer, to a Solution Supplier, to the Digital Enterprise



Source: CTO Guido Spix, February 5, 2018

# MULTIVAC Digital Agenda





# myMULTIVAC is the central host for our digital twins



- One single, personalized login for all MULTIVAC applications
- Free of charge
- 24/7 access
- Available in multiple languages
- Optimized for all your devices



# myMULTIVAC – My Machines

**MULTIVAC** Find anything John Doe 1862397 Mister Tasty Quick Add

My Machines Spare Parts Consumables Service Training Smart Services Newsfeed 18

[Back to: My Machines](#)

## R 535 (527356) [+ Assign Custom Name](#)

Pack-Machine from Multivac

**Year of manufacturing** 2018  
**MULTIVAC X-Cloud** Yes  
**Label** Data  
**Software version** 1.2846

**Setup Data**

**Plant** Mittel-Loxten 37  
37755 Versmold, DE  
**Installation date** 17.11.2017  
**Delivery date** 10.11.2017

**Tags**  
Tortor **X** Venenatis **X**

**Warranty and Maintenance**

<b>Warranty</b>	<b>Maintenance Contract</b>	<b>Remote Service Contract</b>	<b>Remote Service Contract</b>
Begin 15.10.2019	Number 123456	Number 124567890	Nicht vorhanden.
End 01.01.2015	Begin 15.10.2019	Begin 15.10.2019	<a href="#">Wartungsvertrag anfragen</a>
	End 01.01.2015	End 01.01.2015	

**MULTIVAC** Search John Doe 1862397 Mister Tasty Quick Add

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## Services overview

Period from: 14/01/2021 Period until: 14/01/2021 Machine:

**Upcoming services**

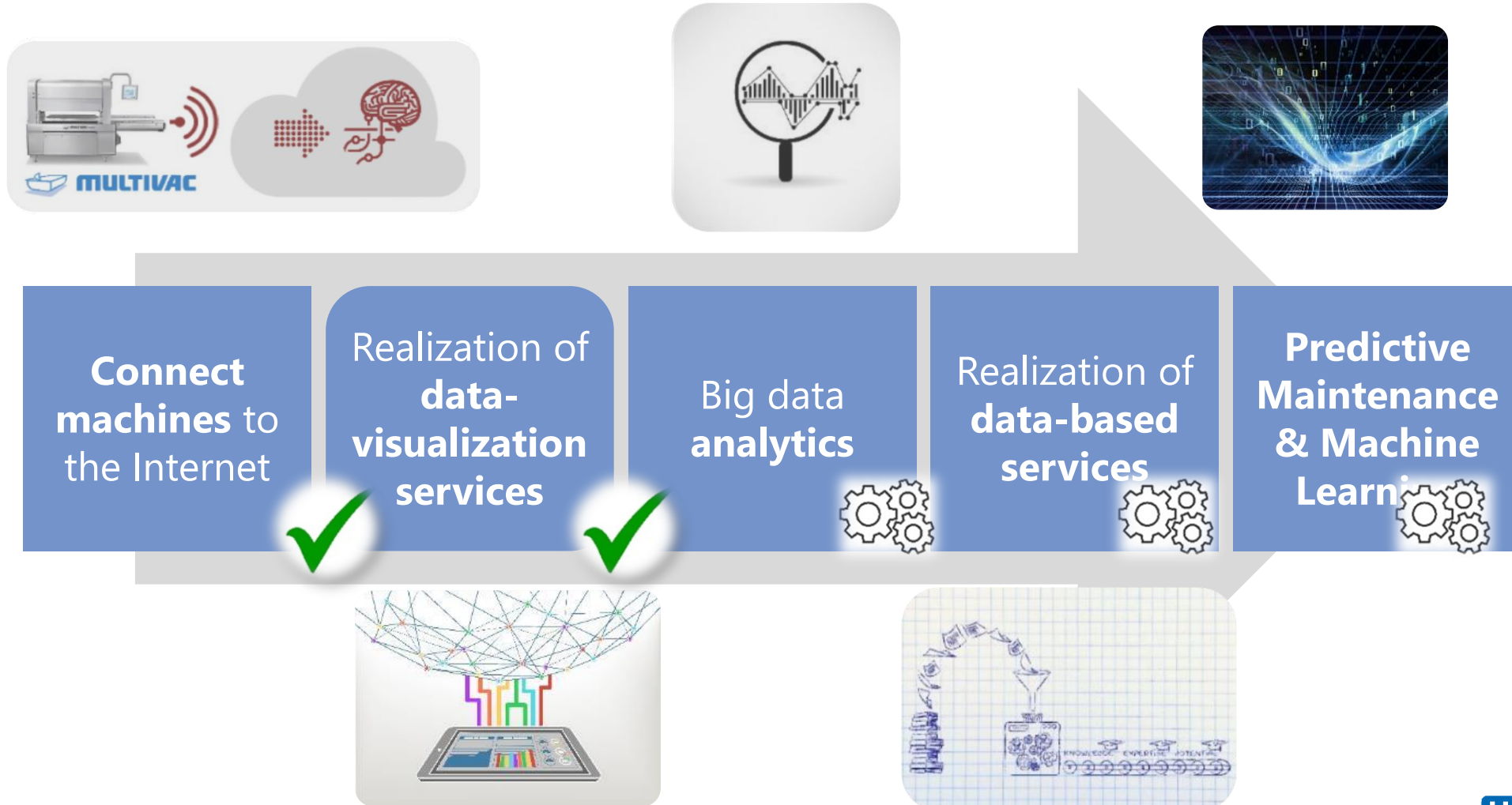
There are no upcoming services yet.

**Past services**

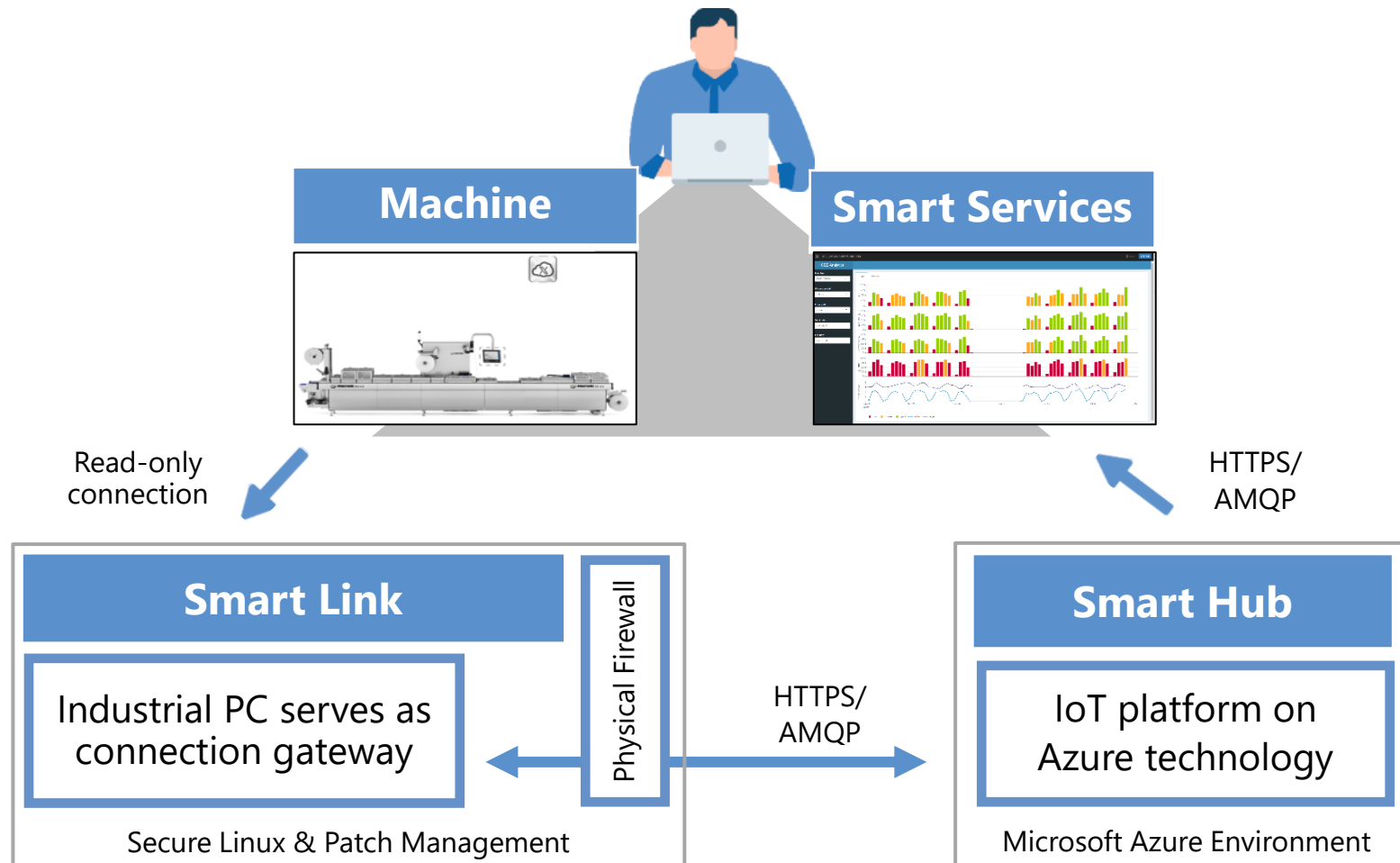
Service	Date	Machine	Type	Description	Ordered by
9100448452	Apr 13, 2017	R 535 (17313)	Service	Wartung und Überholung R535_17313	Christian Schenck
9100448540	Apr 3, 2017	R 535 (17313)	Service	Wartung/Überholung R535_17313	Christian Schenck
9100448730	Apr 29, 2016	R 535 (17313)	Service	Wartung_R535_17313	Christian Schenck
9100448731	Mar 28, 2016	R 535 (14722)	Service	Reinigung R535_14722	Christian Schenck
9100448834	Feb 4, 2016	R 535 (14722)	Service	Reinigung R535_14722	Christian Schenck
9100448835	Sep 11, 2014	R 535 (14722)	Service	Entfernen Staub-Sammelbehälter	Christian Schenck
9100448928	Aug 5, 2014	R 535 (14722)	Service	Reinigung von Formteilen - Linie 736	Christian Schenck
9100448938	Mar 19, 2014	R 535 (14722)	Service	Wartung/Reinigung R535_14722	Christian Schenck
9100449045	Sep 12, 2013	R 535 (17313)	Service	Reinigung/Überholung R535_17313	Christian Schenck
9100449050	Aug 27, 2013	R 535 (14722)	Service	Reinigung R535_14722	Christian Schenck
9100449052	Aug 19, 2013	R 535 (17313)	Service	Reinigung/Überholung R535_17313	Christian Schenck
9100449208	May 30, 2013	R 535 (14722)	Implementation	Einbau Nachführung 1. MSB Band/PC/3075	Christian Schenck
9100449240	Jul 25, 2013	R 535 (14722)	Service	Reinigung R535_14722	Christian Schenck
9100449247	Jul 25, 2013	R 535 (14722)	Service	Reinigung R535_14722	Christian Schenck
9100449419	Sep 11, 2012	R 535 (14722)	Service	Reinigung von Formteilen - Linie 736	Christian Schenck
9100449726	Aug 05, 2012	R 535 (14722)	Implementation	Einbau von Linien 736 - PN 8220	Christian Schenck
9100449848	Jun 28, 2012	R 535 (14722)	Service	Reinigung R535_14722	Christian Schenck
9100449937	May 30, 2012	R 535 (14722)	Service	Reinigung R535_14722	Christian Schenck
9100449940	Apr 23, 2012	R 535 (14722)	Service	Reinigung R535_14722	Christian Schenck
9100449951	Apr 16, 2012	R 535 (14722)	Service	Reinigung R535_14722	Christian Schenck

[Show more](#)

# How do we realize Digital Twins with live production data?



# How do we feed our Digital Twins with data?



# The Digital Twin in Action: Our Smart Services



## MONITOR



Smart Production Dashboard

## ANALYZE



Smart Log Analyzer



Smart Machine Reports



Smart OEE Analyzer

## ASSISTANCE



Pack Pilot



Smart Data Backup



Maintenance Manager

## PREDICTION

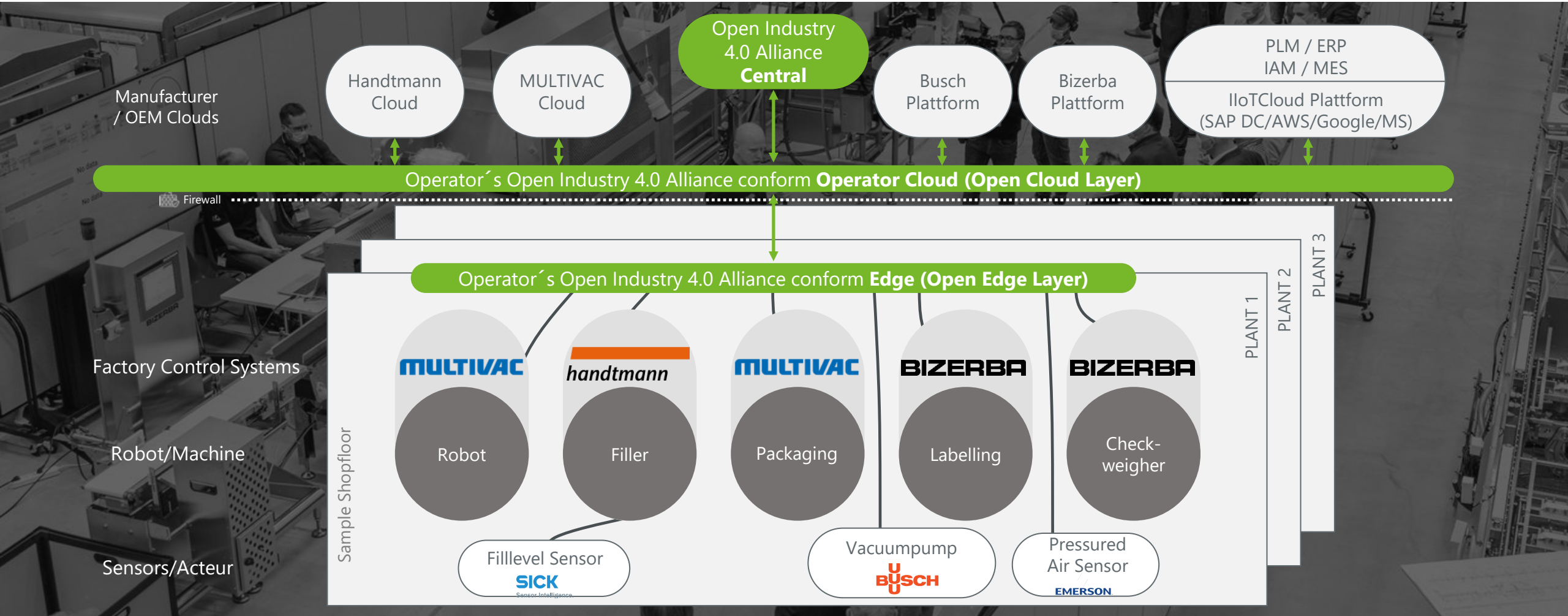


MULTIVAC Watchdog

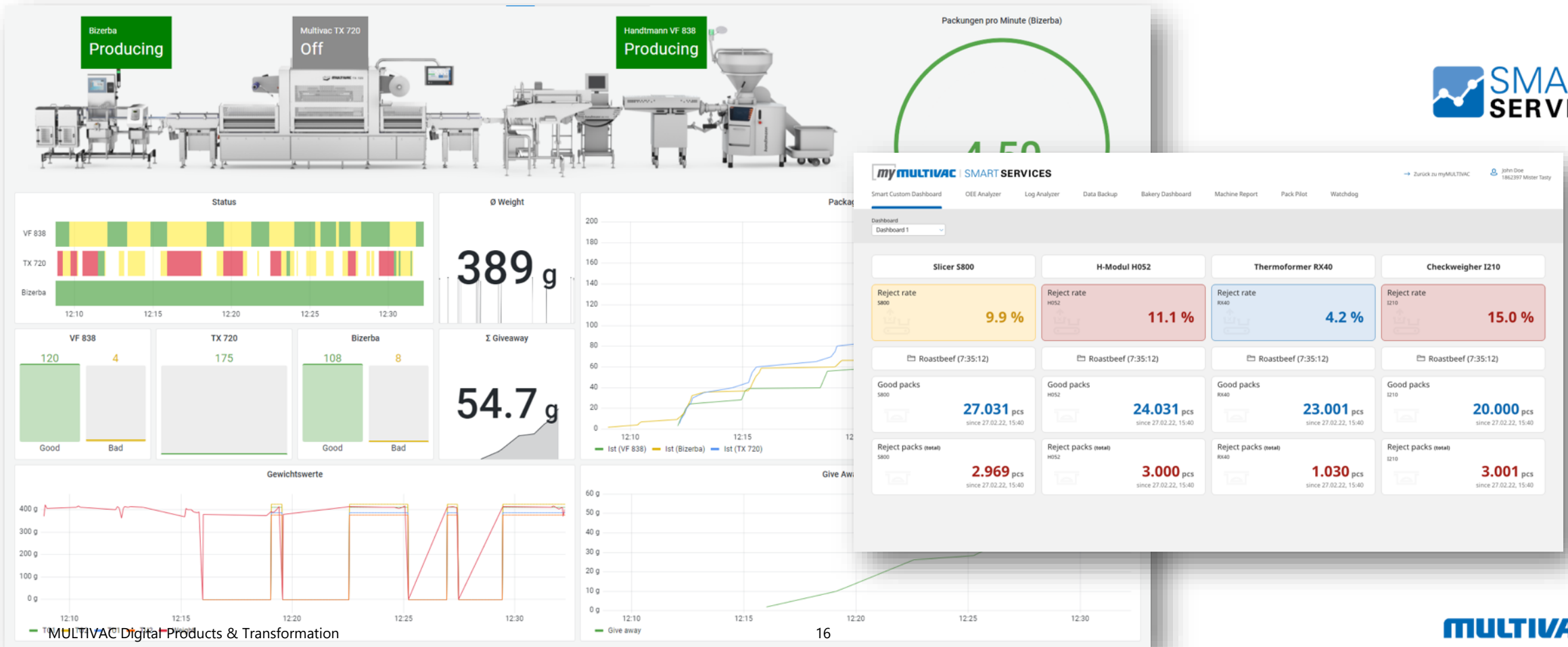
## Open Industry 4.0 Alliance as driver for Interoperability

# Digital Ecosystem together with our partners

MULTIVAC is founder of the Open Industry 4.0 Alliance

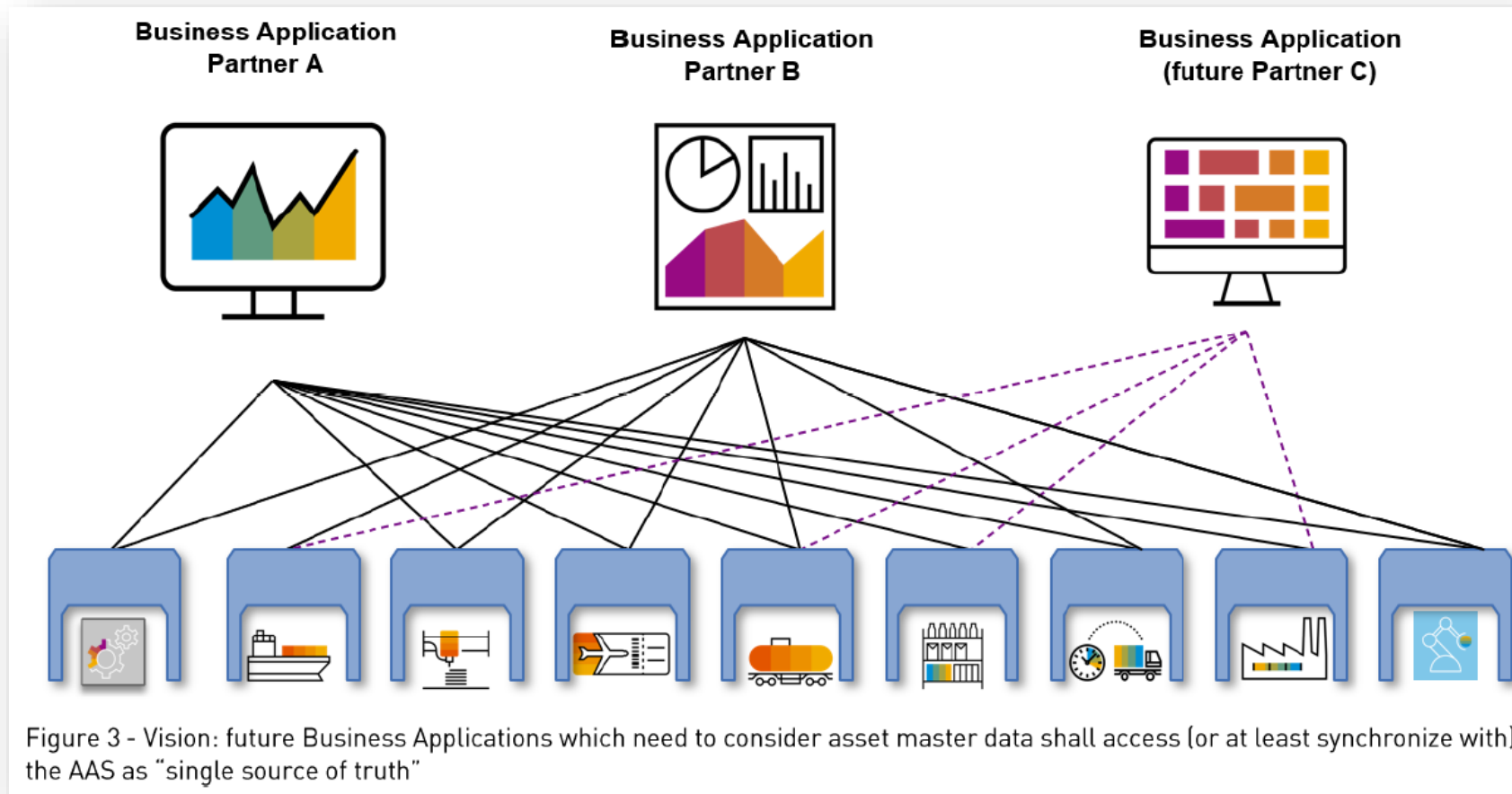


# Access the data of the full MULTIVAC line





# Asset Administration Shell as leading concept for Digital Twins



Quelle: Open Industry 4.0 Alliance 2021: Whitepaper „The Asset Administration Shell in the OI4 solution framework“

Thank you for your time!

Now: Time for questions and discussion 😊

Let's get in touch: [marius.grathwohl@multivac.de](mailto:marius.grathwohl@multivac.de)

