



PROSTEP
integrate the future

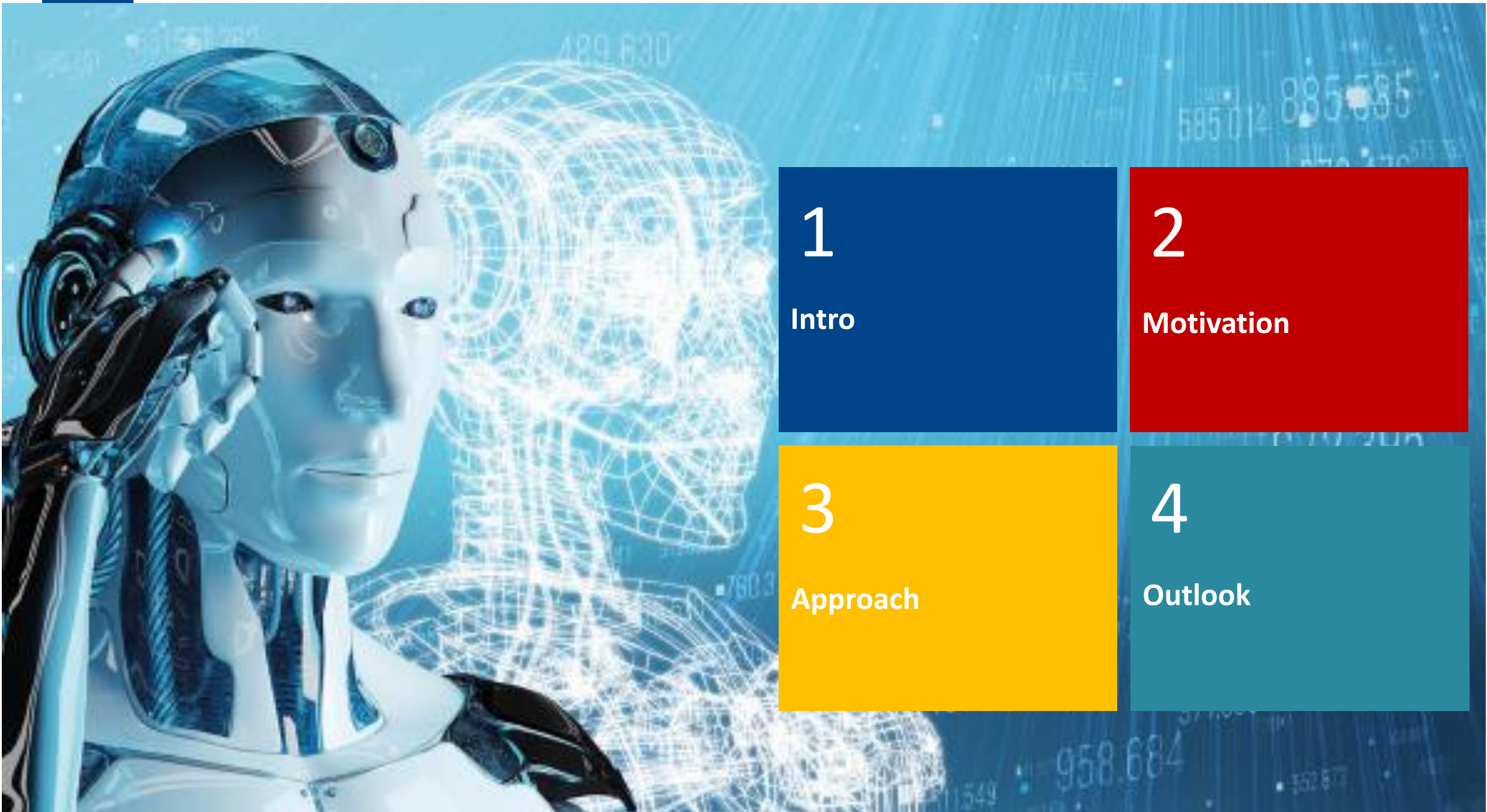
PROSTEP
integrate the future

Evolution in cross domain collaboration across company boundaries

Munich, 27.06.2024

Dr. Fabrice Mogo Nem, Stefan Just | PROSTEP AG





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Intro

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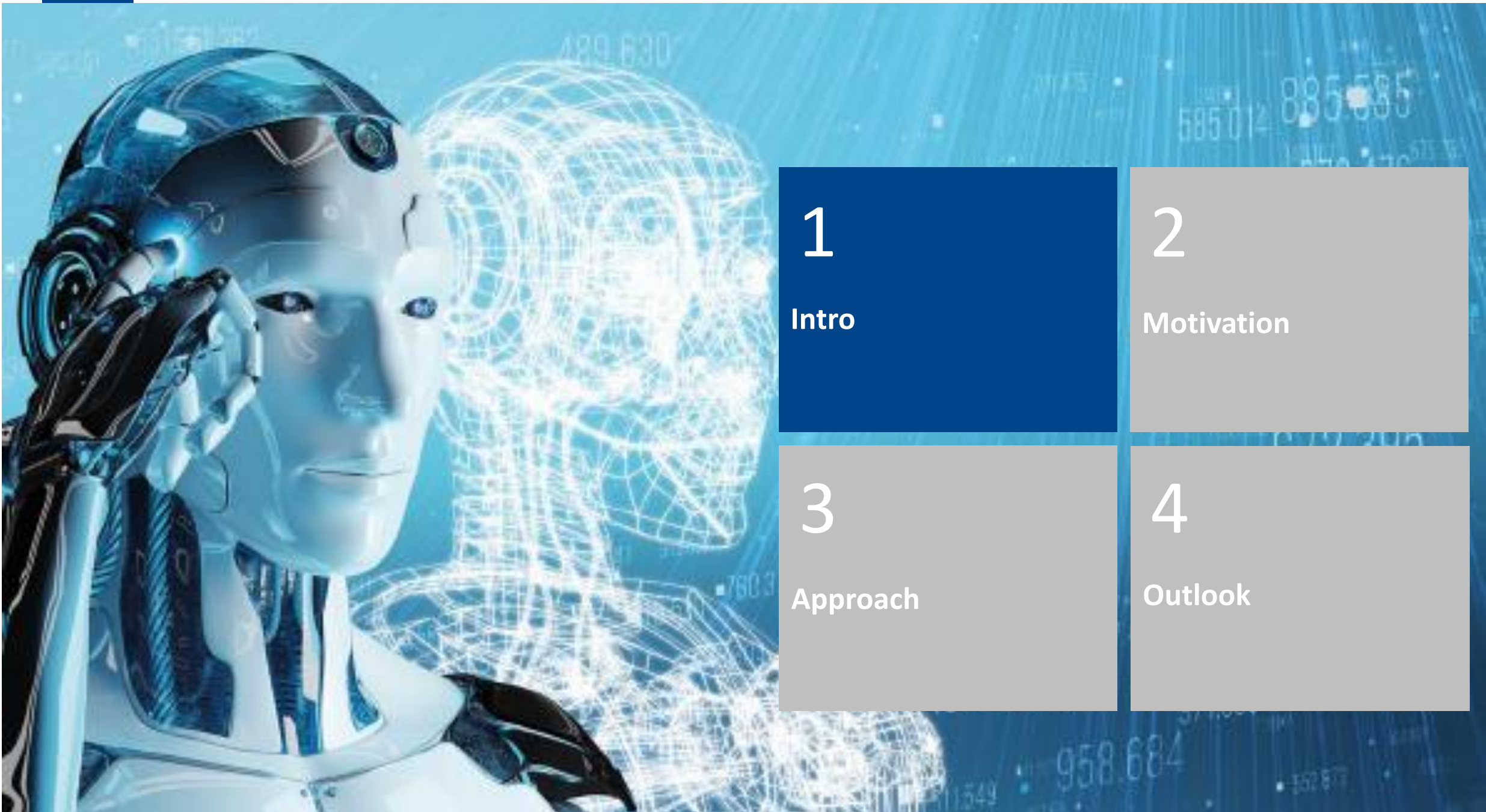
Motivation

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Approach

4

Outlook



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Die PROSTEP Gruppe



Consulting

Excellence in PLM-Processes,
-Methodologies and -Tools
are becoming the Core Competence

SW-Products

Increasing demand for
Integration Support makes
Integration a strategic Area

Customer SW-Development

Capability to quickly realize individual
SW- solutions according
to enterprise specific requirements

Die PROSTEP Gruppe



30 Jahre Branchenerfahrung – 240 PLM Experten – 200 Kunden – 10 Standorte

- Gründung 1993
- Standorte
 - Darmstadt (Zentrale)
 - Berlin, Böblingen, Hamburg, Hannover, Köln, München, Wolfsburg.
 - USA: PROSTEP, Inc. Troy (MI)
 - Polen: PROSTEP sp.zoo Wroclaw
- BHC GmbH, Böblingen
- Umsatz Gruppe: ca. 47,3 Mio. €
- 325 Mitarbeiter



Mercedes-Benz Group



PROSTEP Gruppe und prostep ivip Verein

Eine starke Partnerschaft

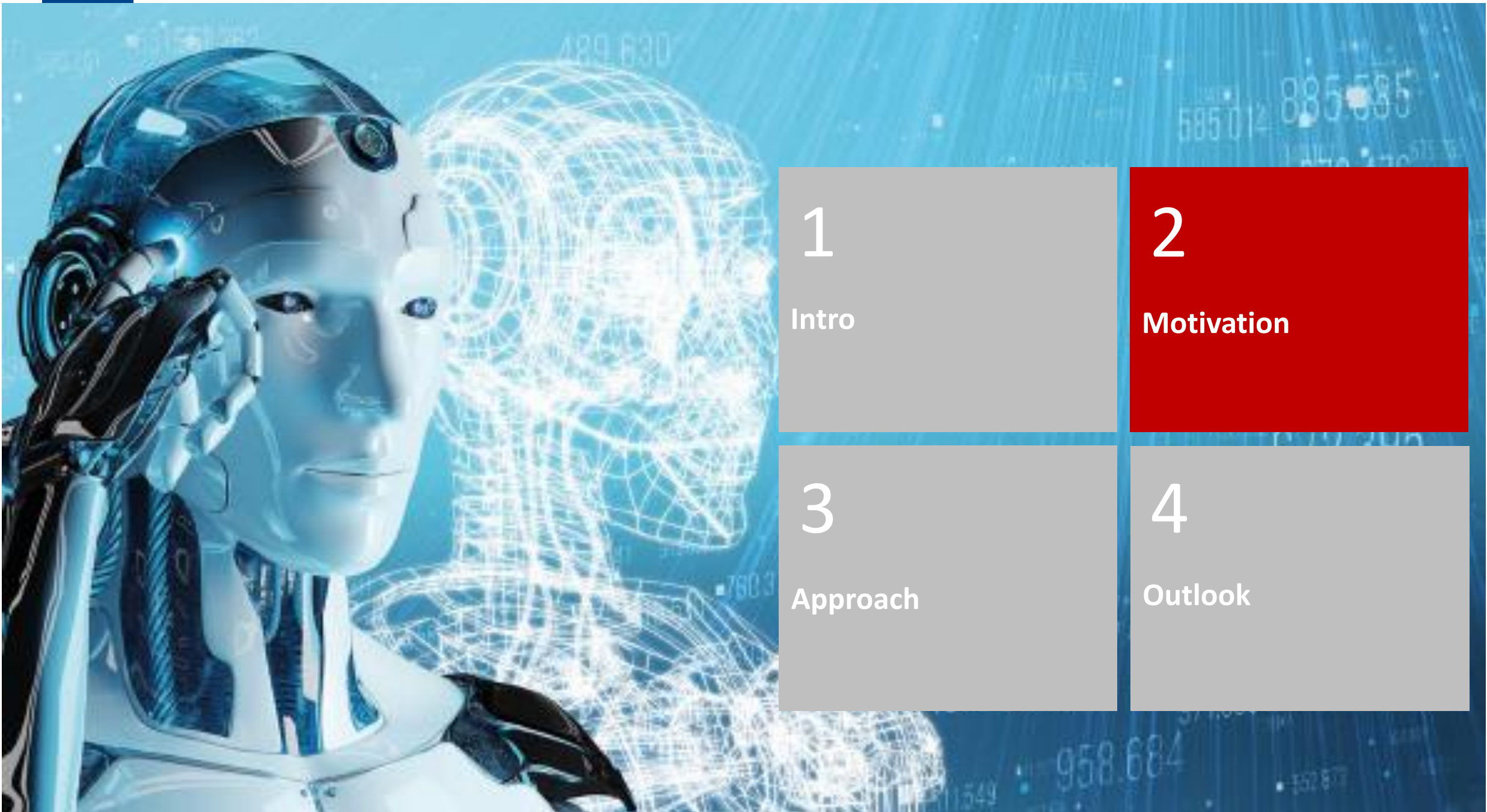


DER prostep ivip VEREIN

- Industrie- und Forschungsplattform
- Standardisierungsstrategie
- Weltweite Zusammenarbeit

DIE PROSTEP GRUPPE

- Der PLM-Spezialist
- Starke Integrationslösungen
- Langjähriges PLM Know-How aus der Praxis



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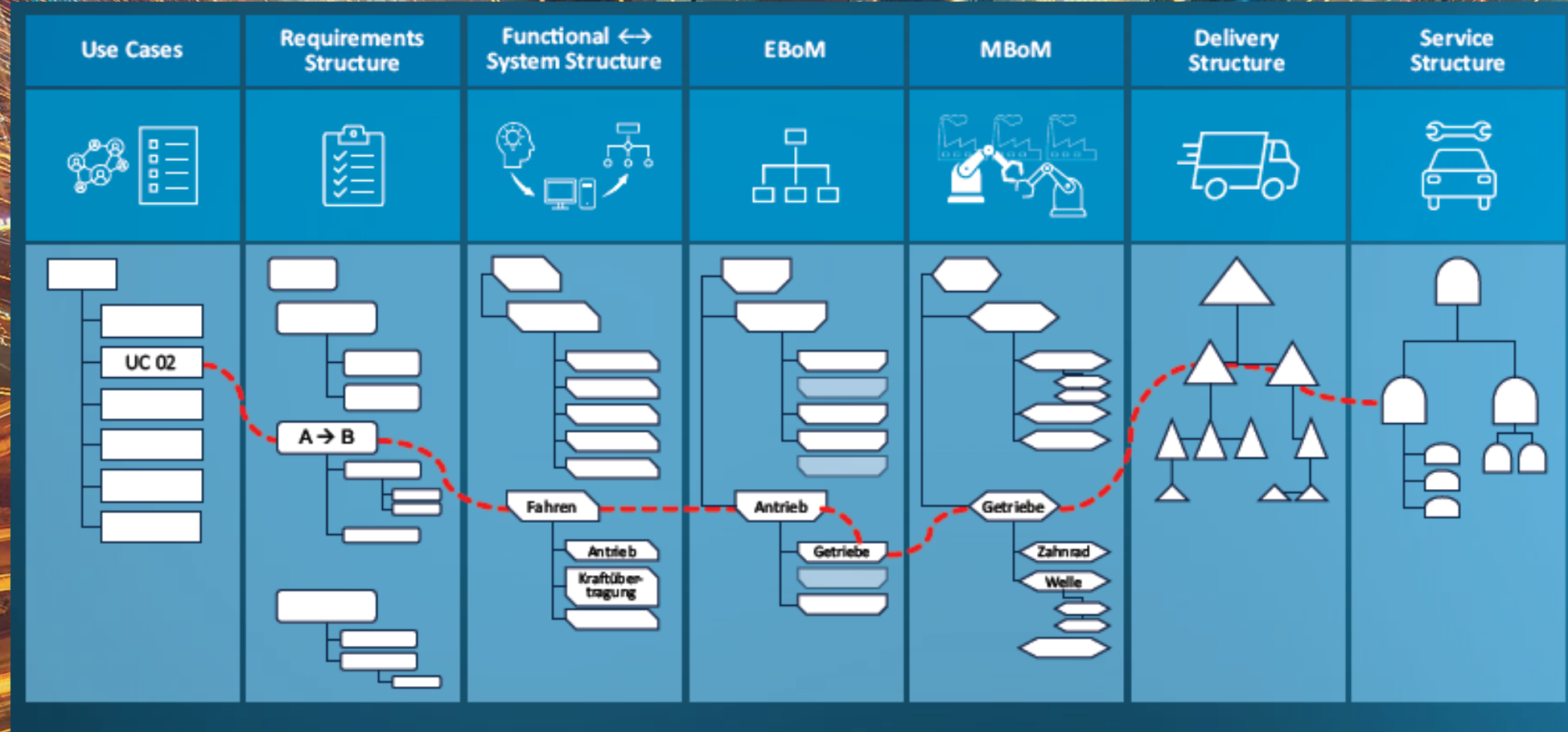
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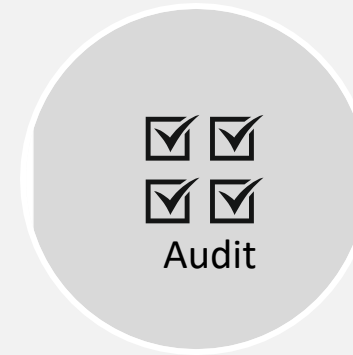
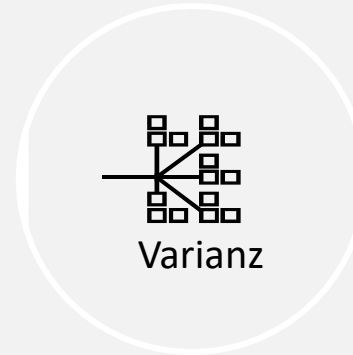
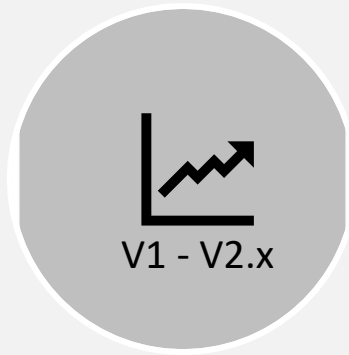
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Outlook



Treiber

Herausforderungen in der internen und externen Zusammenarbeit



Kürzere
Entwicklungs-
zyklen

Steigender
Softwareanteil

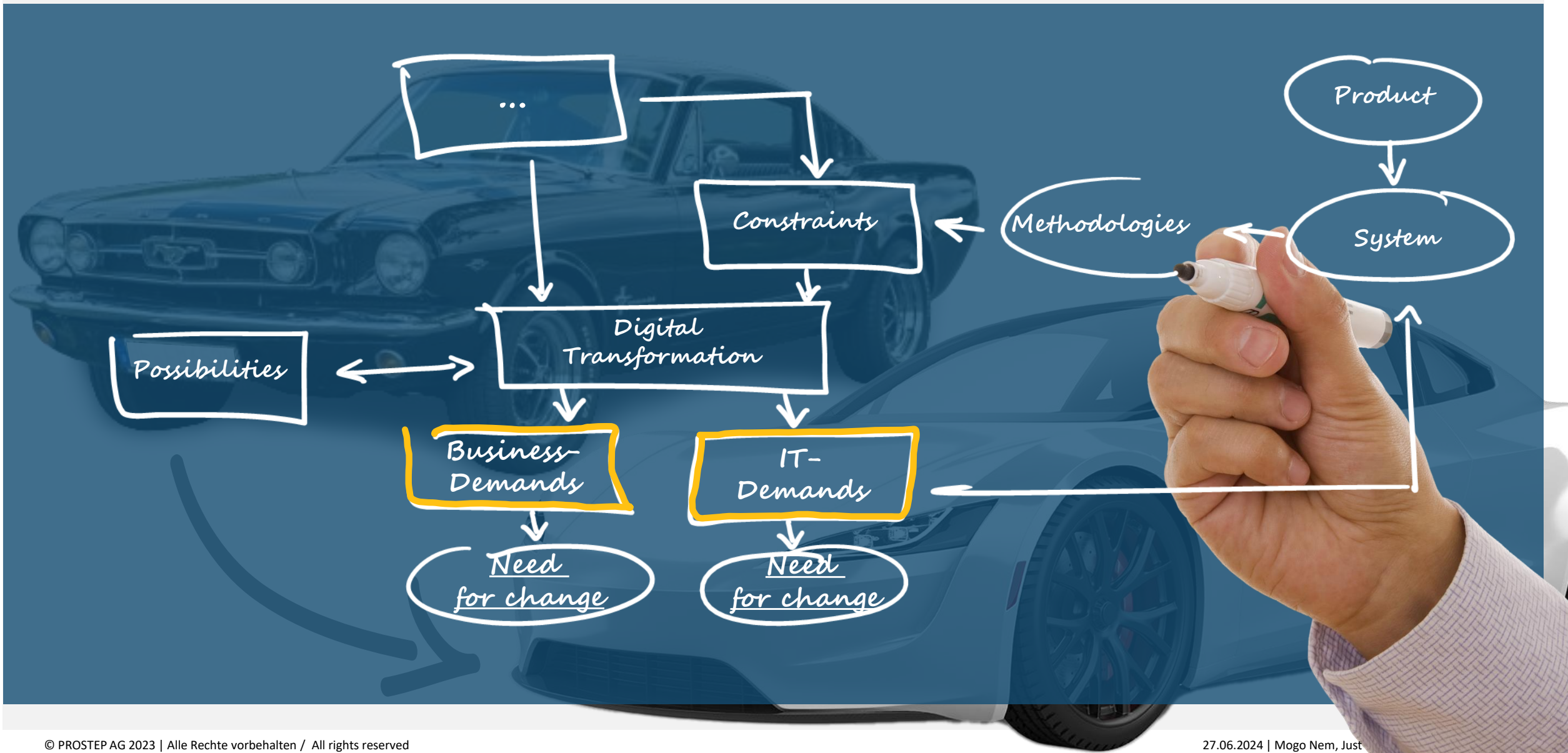
Steigende
Anzahl
Datenstände

Produkt-
komplexität

Auditier-
fähigkeit

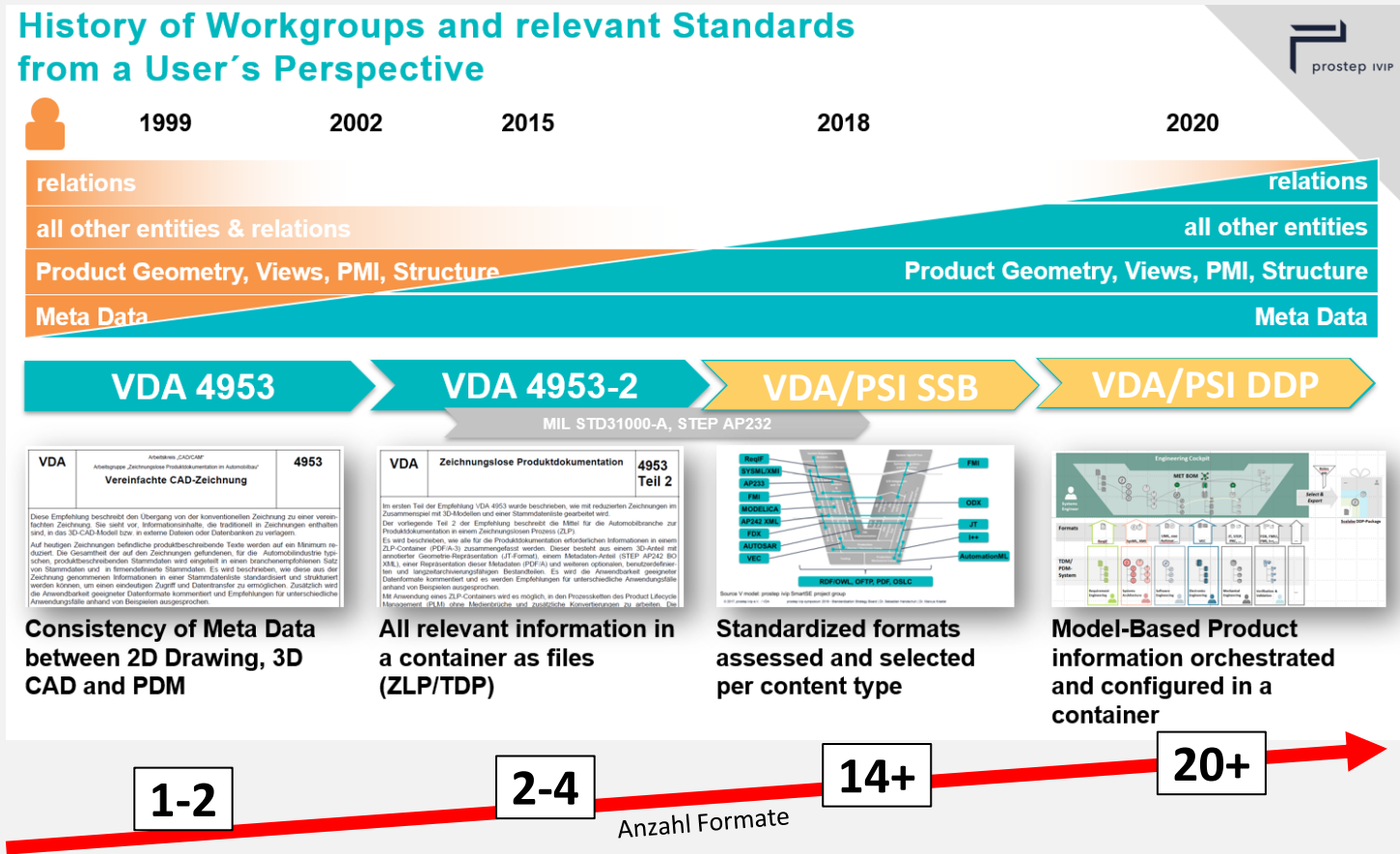
Erwartung
Prozess-
fähigkeit

Challenges & Change within Collaboration

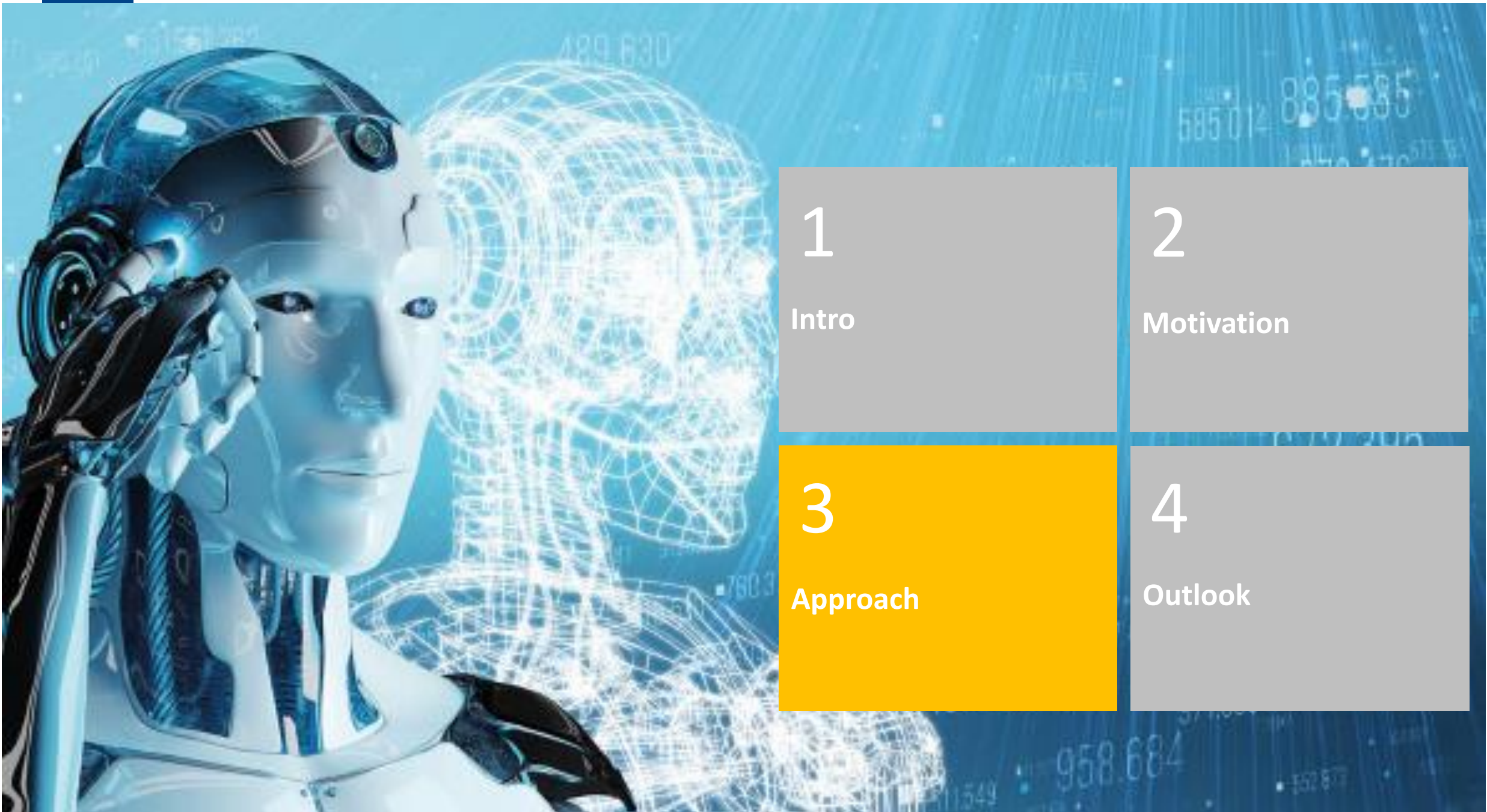


Automotive Standards

Weiterentwicklung der Definition von Anforderungen an den Datenaustausch



Steigende Komplexität im Datenaustausch



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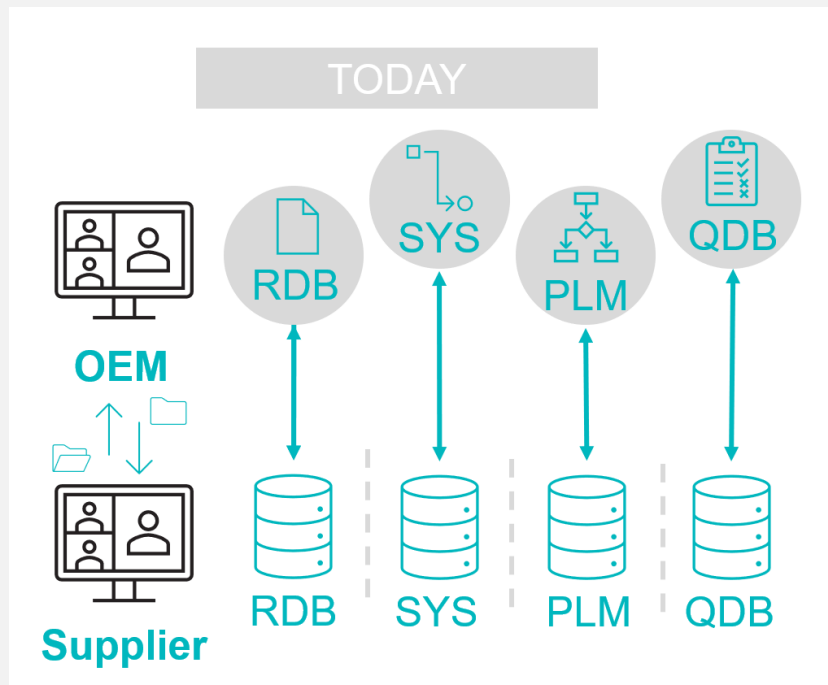
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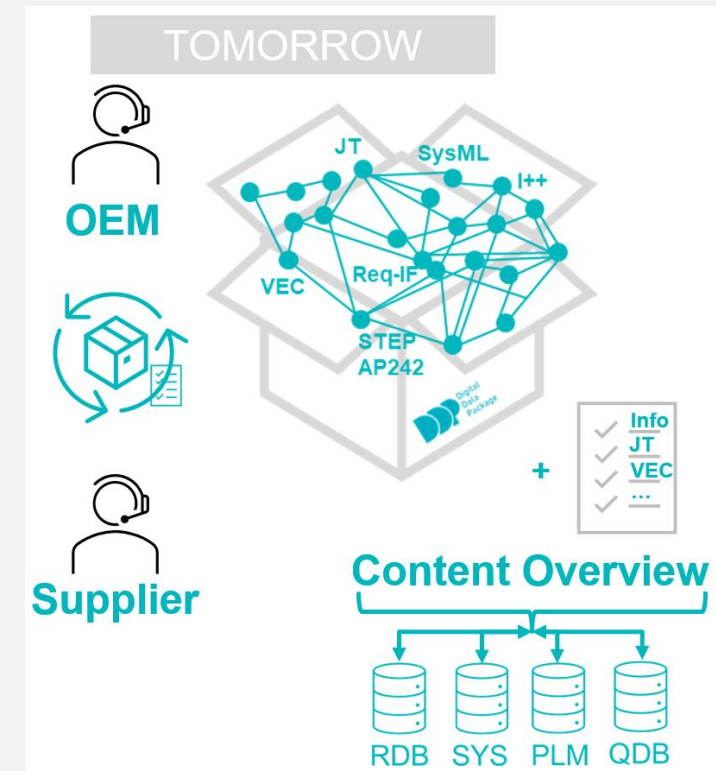
Digital Data Package (DDP)

enables cross-domain collaboration in MBSE

Today various standards for exchanging domain-specific data in systems engineering exist. However, the items contained therein can't be linked and thus a cross-domain collaboration and data exchange is poorly supported

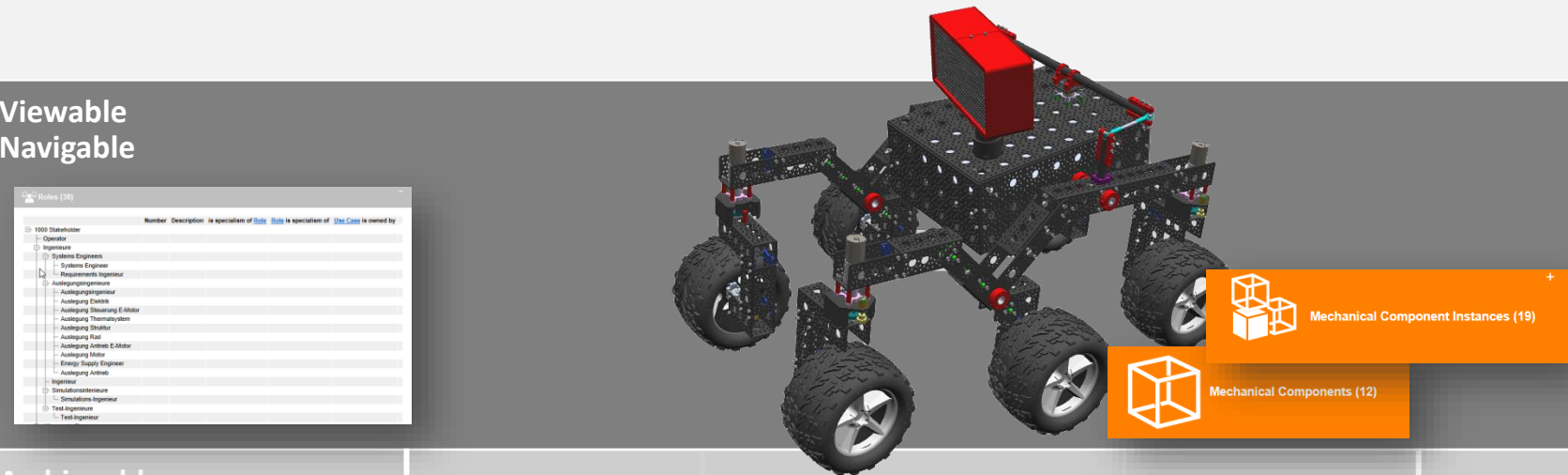


This project addresses the lack of a data exchange standard which allows for a cross-company and cross-domain exchange of linked systems engineering data under consideration of an end-to-end configuration management.



Technical Data Package (MIL-STD 31000, VDA ZLP 4953)

Viewable
Navigable



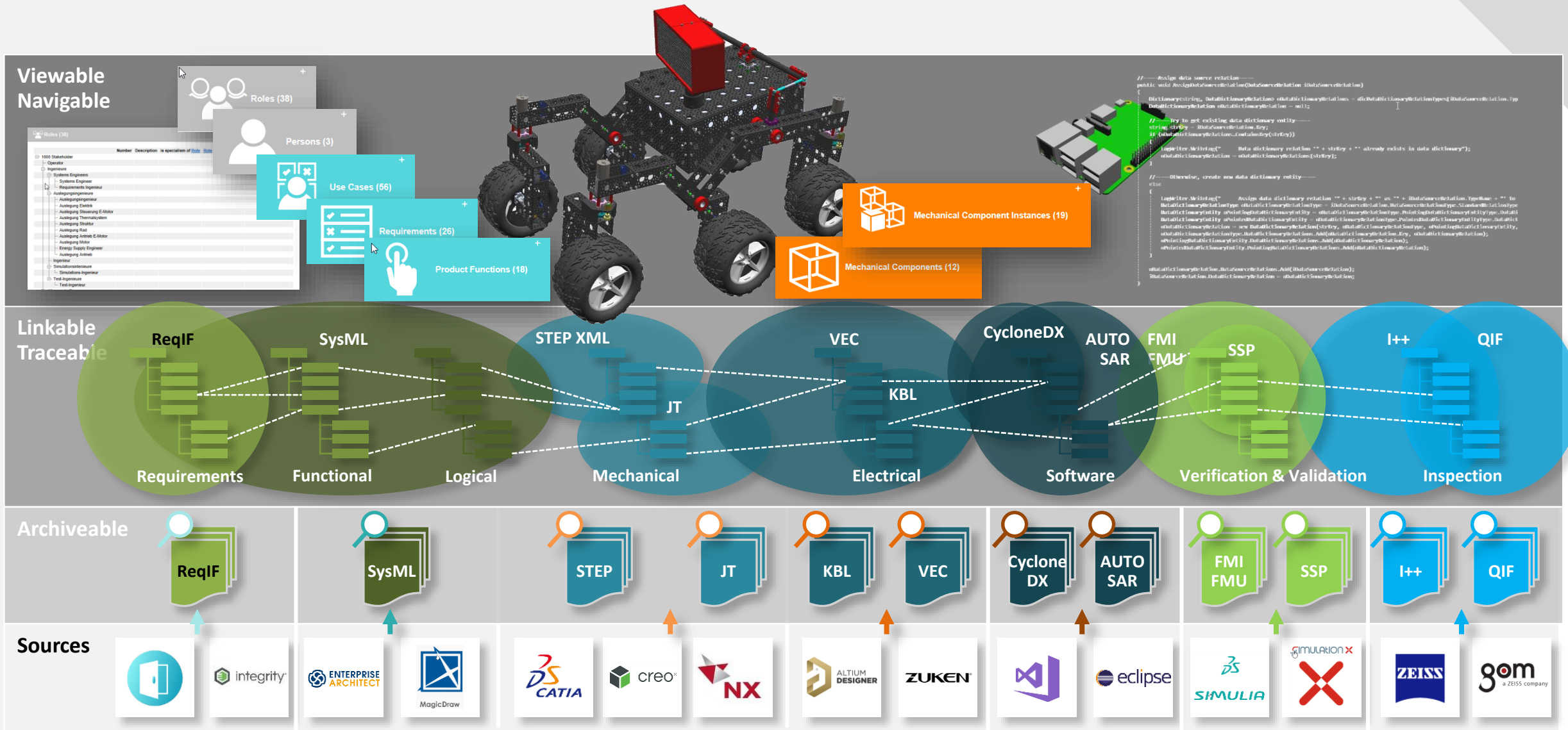
Archiveable



Sources

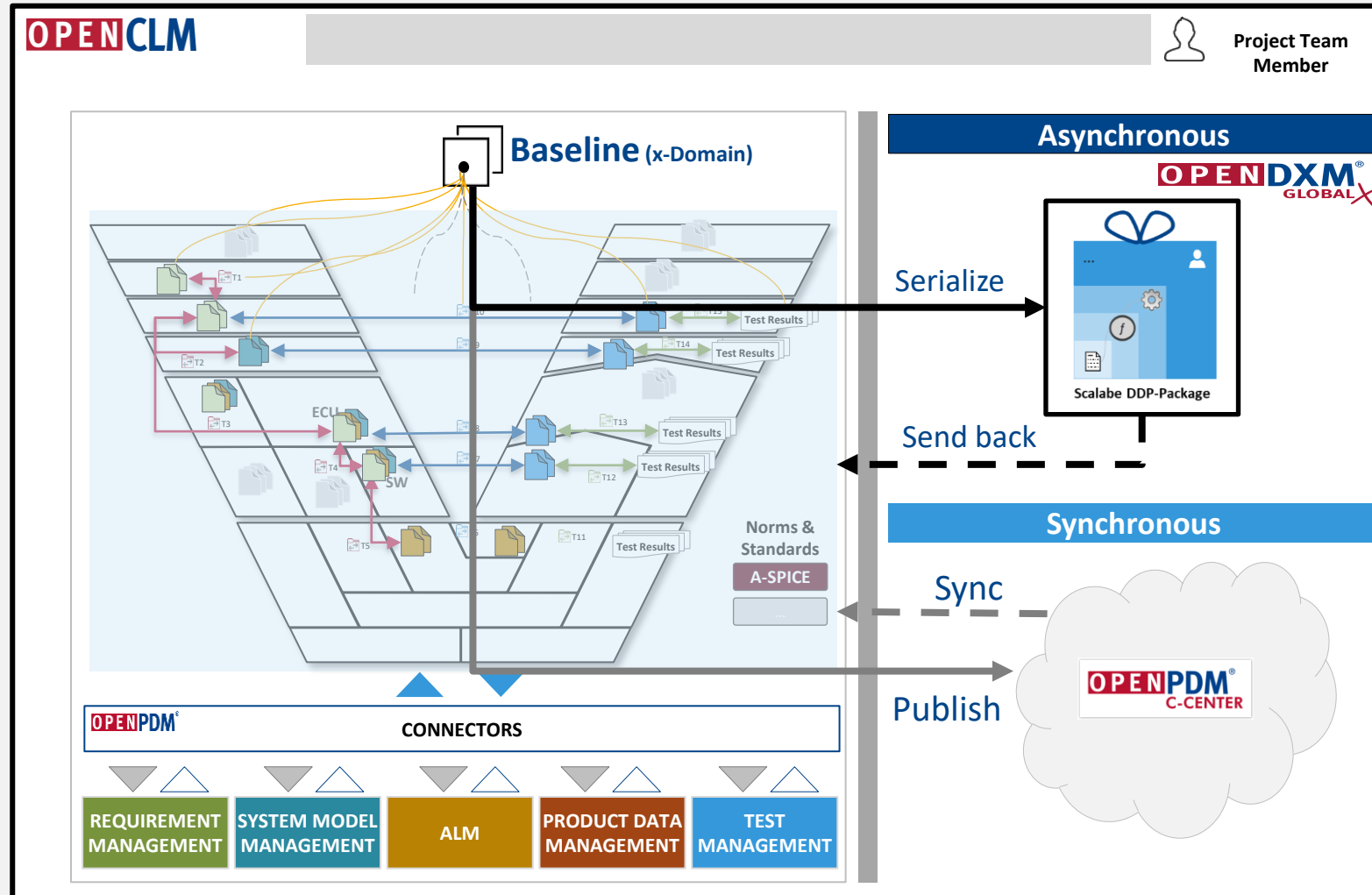


Digital Data Package



Asynchronous and synchronous collaboration

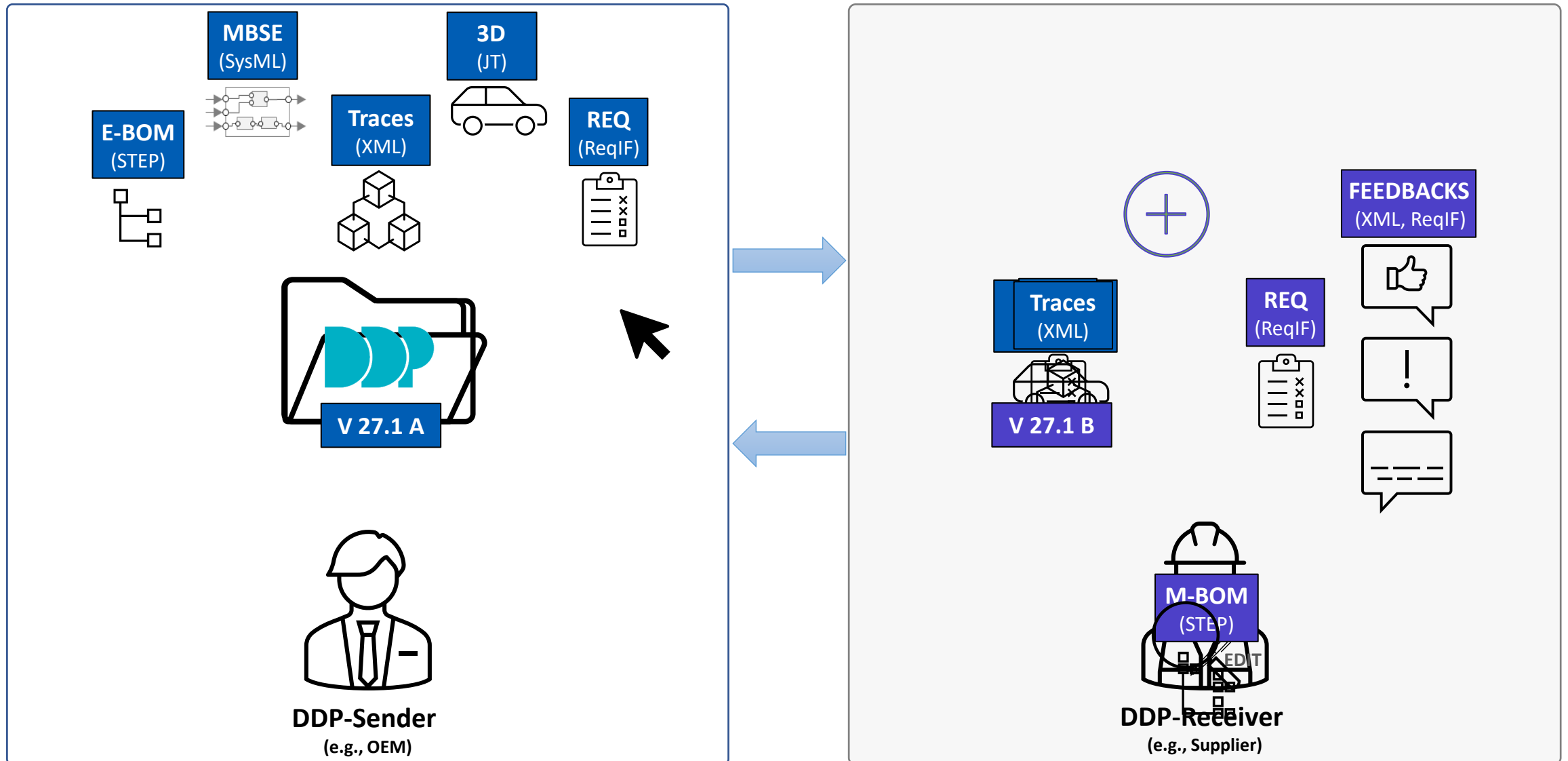
Export baselines for collaboration, data exchange or archiving



Cross-domain **Baselines** can be used as starting point for various actions, such as:

- Impact analysis
- Data publishing
- Archiving
- DDP creation

DIGITAL DATA PACKAGE (DDP): Enables cross-domain data exchange with tracability links



DIGITAL DATA PACKAGE (DDP): PROSTEP SHOWCASE (DEMO)

Unique Id

UseCase4

Title

Use-Case 4: DDP-capabilities Showcase

Description

All possible data that this format can transport, and even more could be added

Creation Time

2023-04-24T13:39:11.877Z

Last Change

2023-04-24T13:39:11.877Z

Creator

Max Mustermann

Sender

Max Mustermann (max.mustermann@prostep.com)

Recipient

Supplier/Manufacturer

Project

Secret project

Product

All features of DDP

Edit Metadata

Open DDP

Save DDP

Package Information

CONTENT OVERVIEW

TRACE NAVIGATION

TASKS

COMMENTS

LINKS

HISTORY

Collapse all

Expand all

Filter Columns

Search:

Content

Search

Search

Search

Search

Id		Name		Relations	Quantity
c_Catalogue	> 	CATALOGUE			1
c_Requirements	> 	REQUIREMENTS			1
c_Functions	> 	FUNCTIONS			1
c_Ebom	> 	E-BOM			1
c_threed-design	> 	3D-DESIGN			1
c_Documents	> 	DOCUMENTS			1
c_Mbom	> 	M-BOM			1

Showing 1 to 1,260 of 1,260 entries

Package Content

CATALOGUE

REQUIREMENTS

FUNCTIONS

E-BOM

3D-DESIGN

DOCUMENTS

M-BOM

Collapse all

Expand all

Filter Columns

Search:

Requirements of file1.reqif

Search

Search

Search

Search

Search

Search

Search

Search

Search

Number	Type	Title	Description	Customer Status	Customer Comment	Supplier Status	Supplier Comment	Relations	Actions
1-1	Requirement	> 	Fortbewegung	Mars Rover muss sich fortbewegen können					
1-7	Requirement	> 	Betriebssicherheit	Betriebssicherheit muss gewährleistet sein					
1-11	Requirement		Beleuchtung	Der Mars Rover muss über Front- und Rückleuchten verfügen					

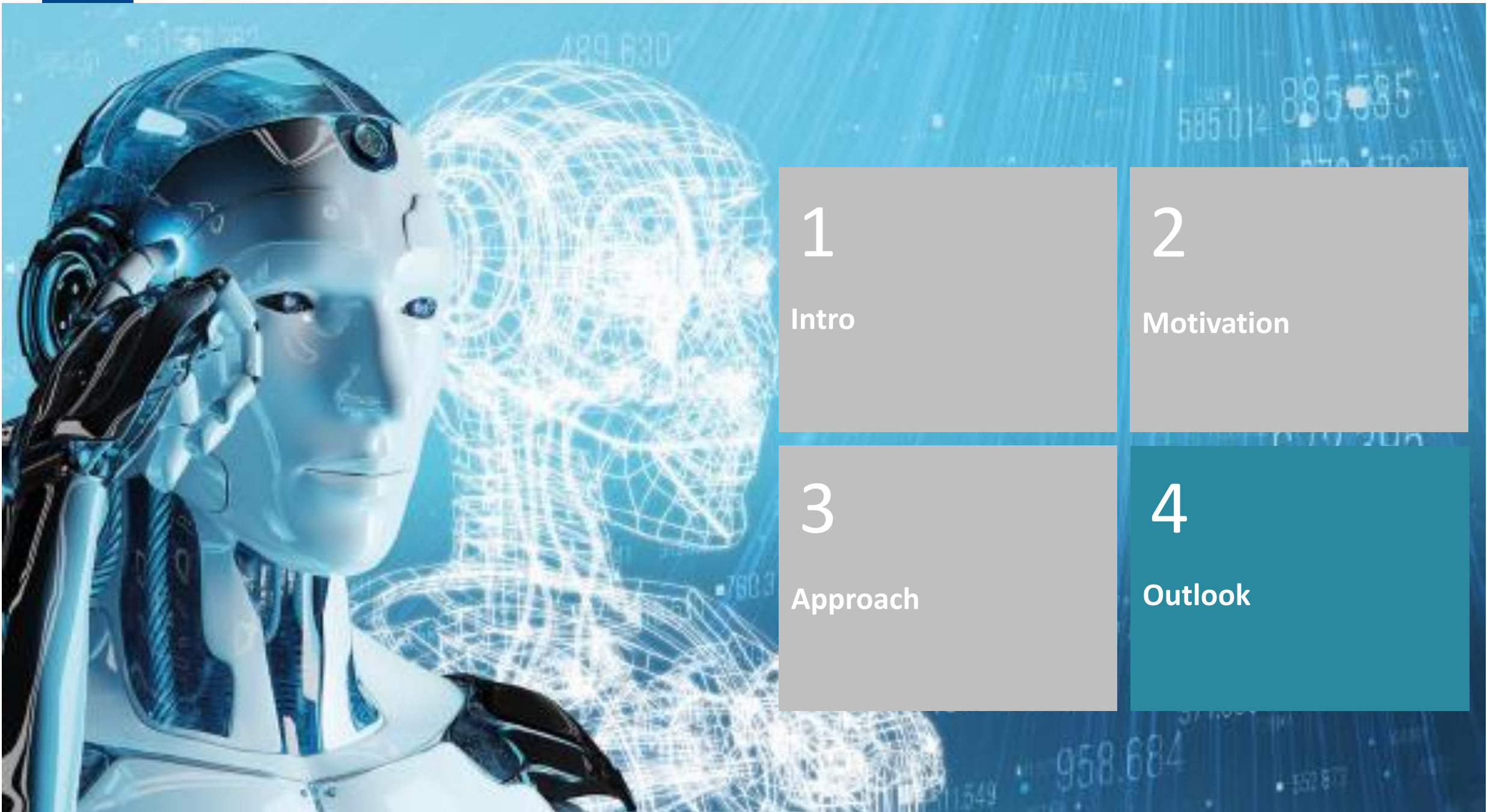
DDP CONTENT

REQUIREMENTS

RELATED ITEMS

3D-VISUALISATION

TRACE NAVIGATION



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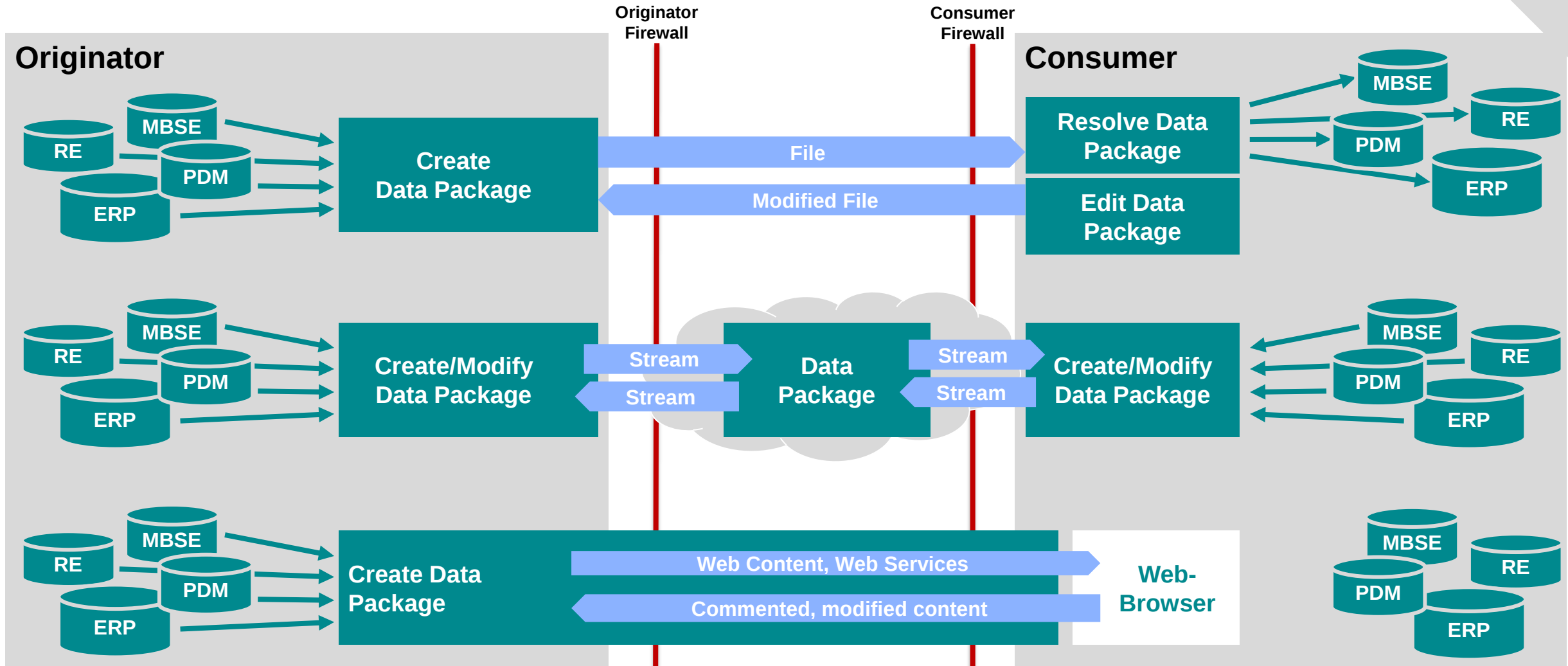
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Approach

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Outlook

Digital Data Packages can be persistent files or transient streams



Next Goal 2024

OMG Standardization



Digital Data Package DDP SPECIFICATION VERSION X

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The OMG technology adoption process is well-documented, mature, open and fair. OMG has deep archives and documentation of the process as well as each step that was taken within the process. Anyone who wants to participate can join. Our process has been used more than 1,000 times to develop standards; many accepted through the ISO fast-track process. The OMG technology adoption process enforces equality to ensure that timelines and requirements can not favor or handicap any specific companies.

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