



Brainport Industries
Campus

Technology Update XL
26 november 2020

**Break-out sessie
Digitalisering**

**HIGH TECH
SOFTWARE
CLUSTER**




Brainport
Industries



**HIGH TECH
SOFTWARE
CLUSTER**



**BIC
Digitale Fabriek**



**HIGH TECH
SOFTWARE
CLUSTER**

HIGH TECH SOFTWARE CLUSTER

HIGH TECH SOFTWARE CLUSTER



- 
- Spreek een expert
 - Quick-scan laten maken
 - Praktisch aan de slag

HIGH TECH SOFTWARE CLUSTER

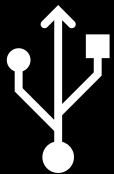
www.hightechsoftwarecluster.nl



BIC Digitale Fabriek



Ja, ik wil door middel van digitalisering mijn productie en processen verbeteren



Welke Industrie 4.0 standaarden en technologieën moet ik inzetten?



Hoe zorg ik er voor dat mijn investering toekomstvast is?

PROJECT PARTNERS DIGITALE FABRIEK VAN DE TOEKOMST

Maakbedrijven – Technologiepartners – Kennisinstellingen



WERKPROGRAMMA DIGITALE FABRIEK VAN DE TOEKOMST 2020 - 2022

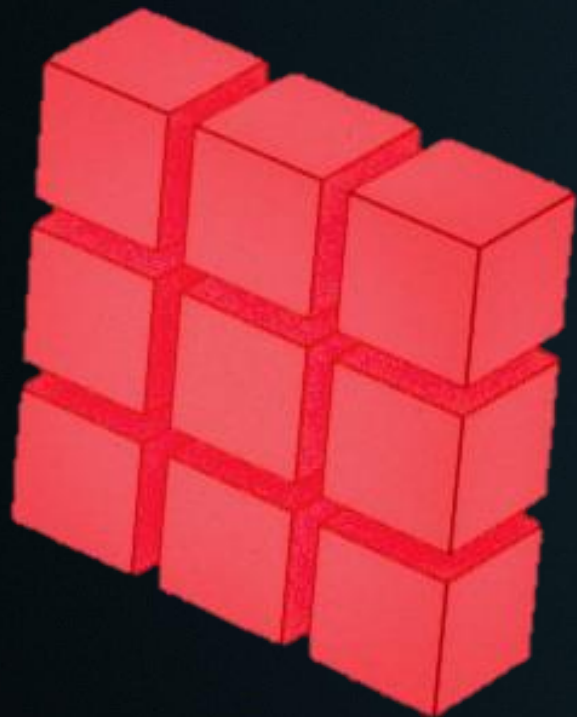
Blauwdruk voor een
Smart & Connected
Factory

Use cases
Traceerbaarheid
& Certificering

Use cases
Planning &
Sharing

Use cases
Benutten
Machinedata

Test-, ontwikkel-
en
validatieomgeving



Collaboration

between customers & suppliers

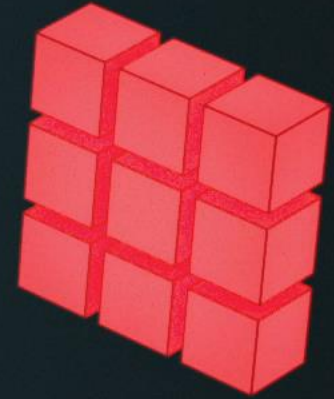
Modular manufacturing

*re-configuration, operator support,
smart production planning*

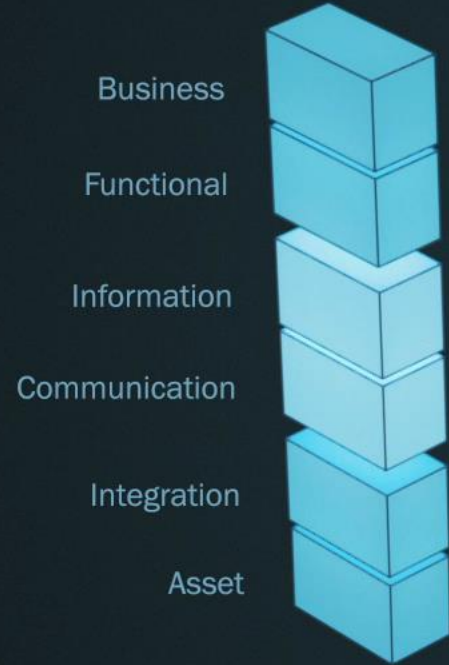
Quality & maintenance

*zero-defect, predictive maintenance,
certification*

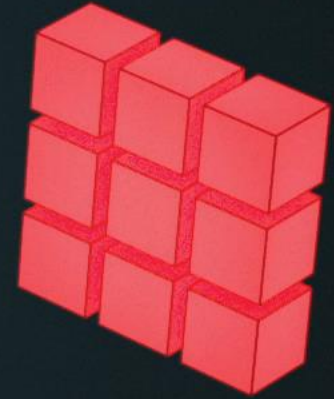
Collaboration
Modular Manufacturing
Improving Quality



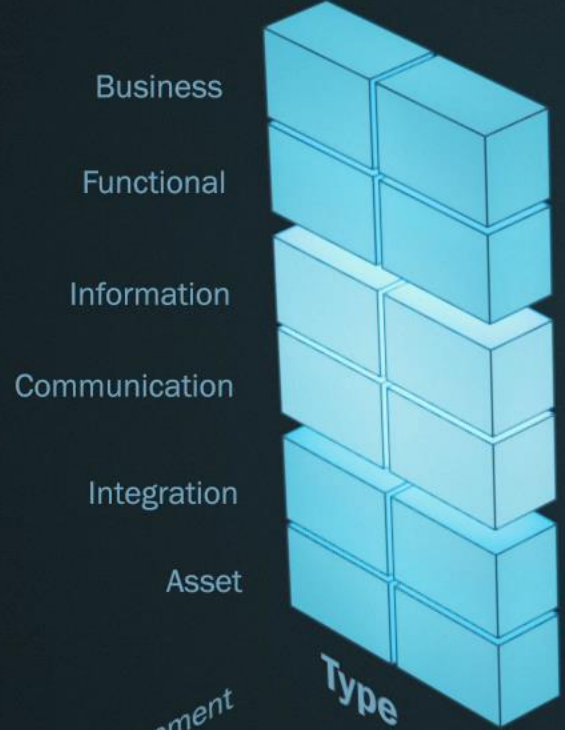
Layers



Collaboration Modular Manufacturing Improving Quality

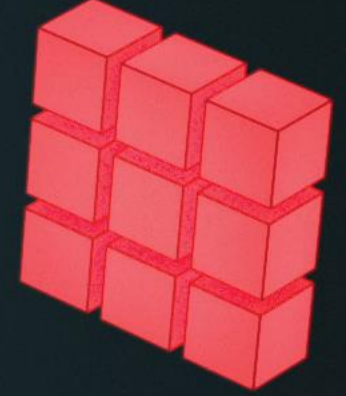


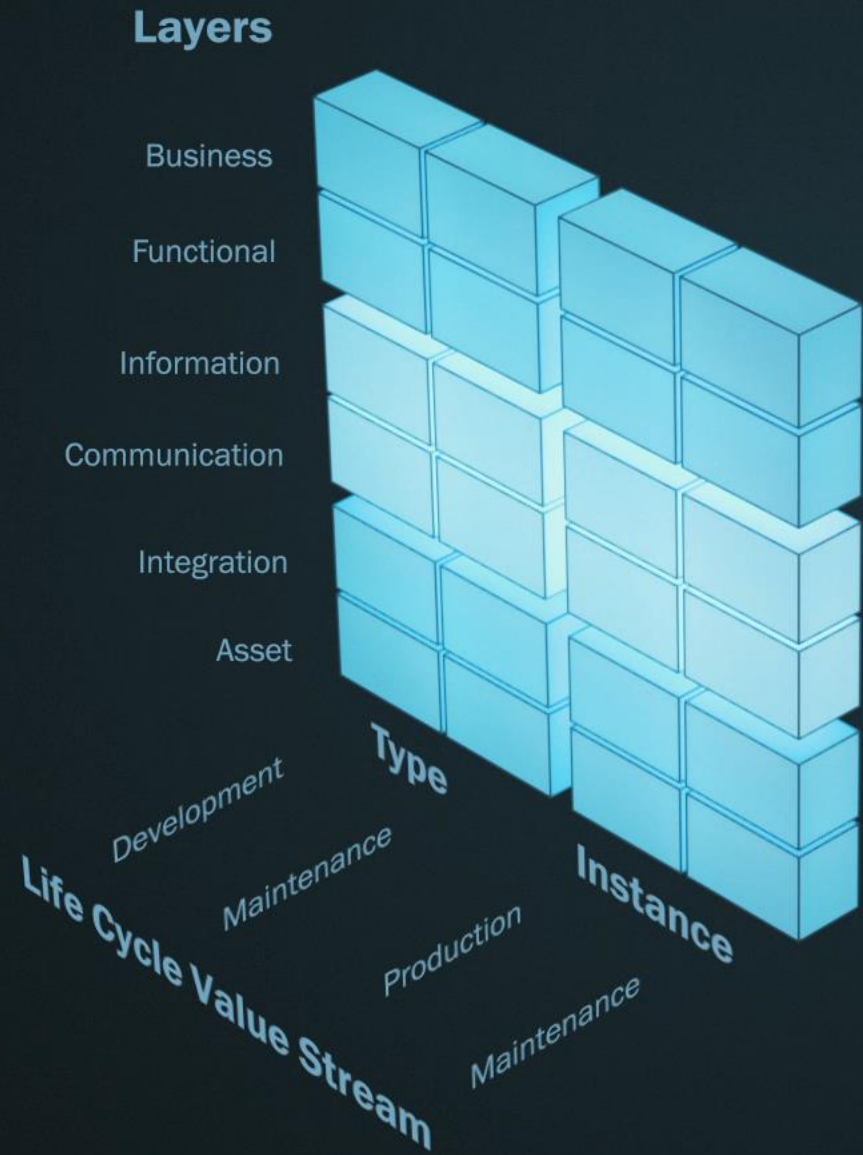
Layers



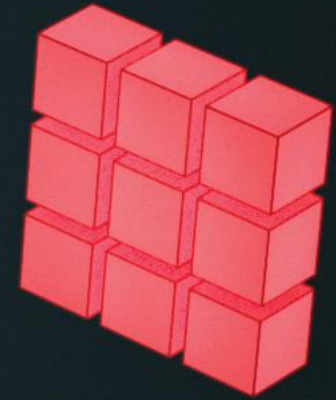
Life Cycle Value Stream

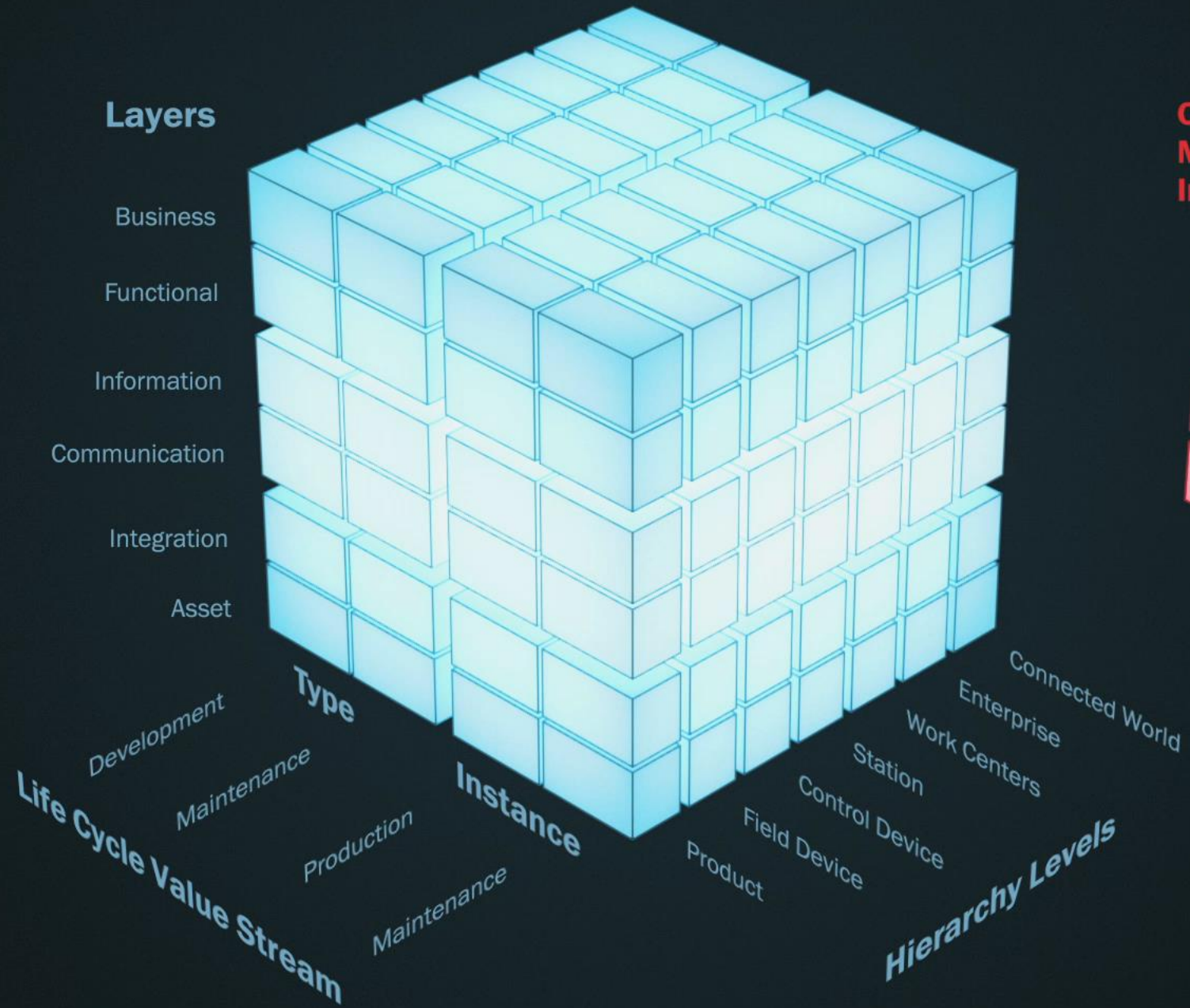
Collaboration Modular Manufacturing Improving Quality



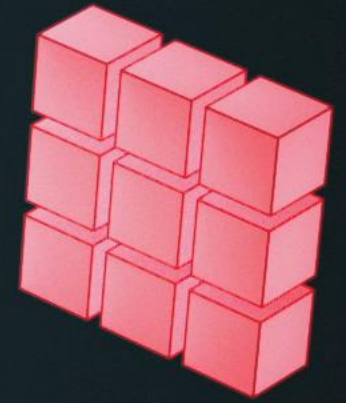


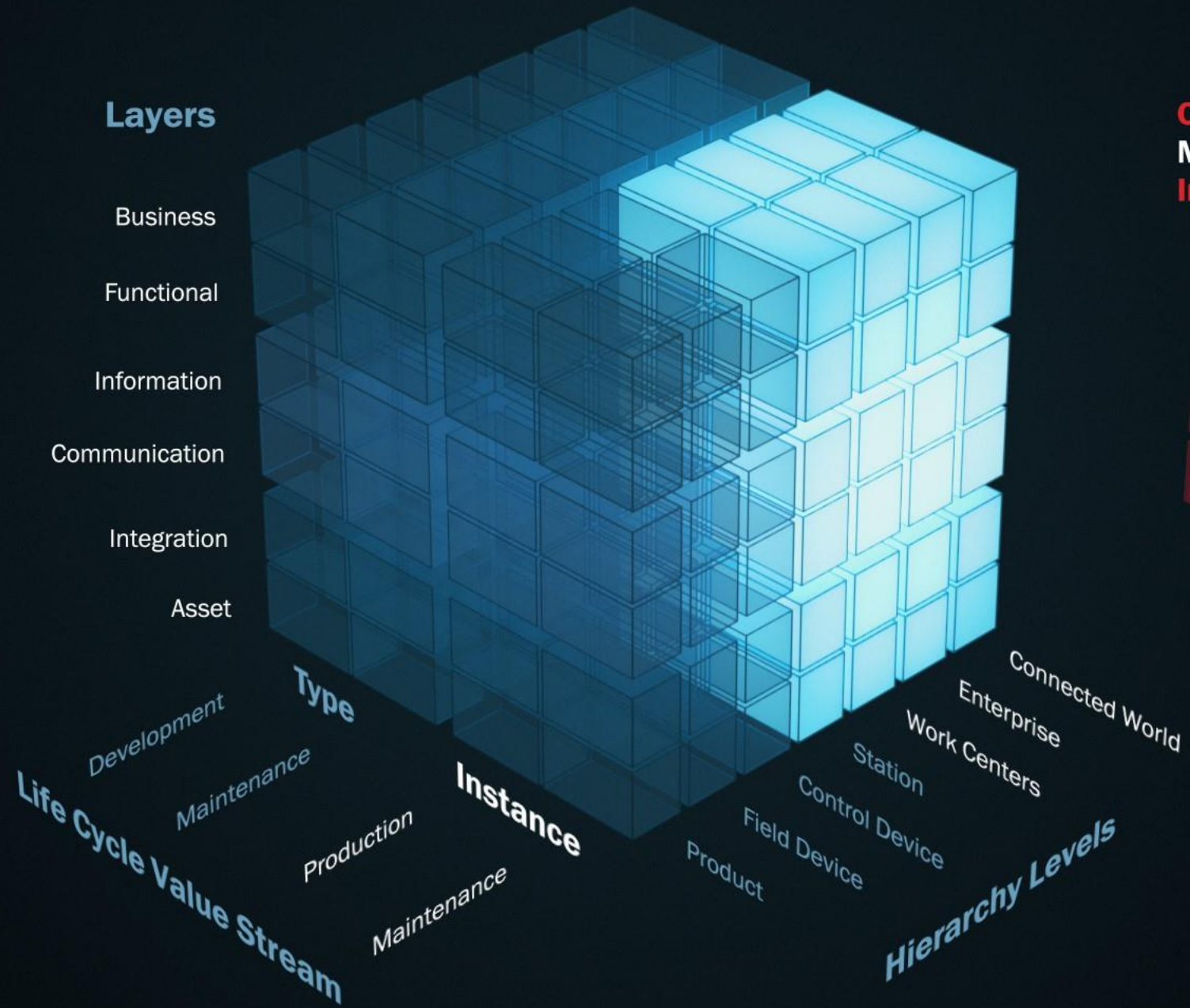
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Modular Manufacturing
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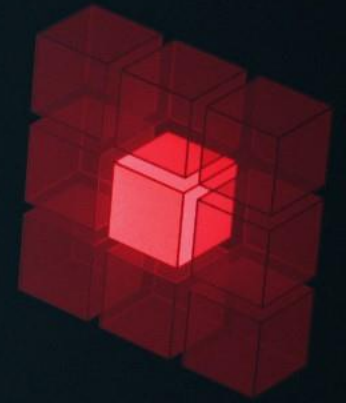


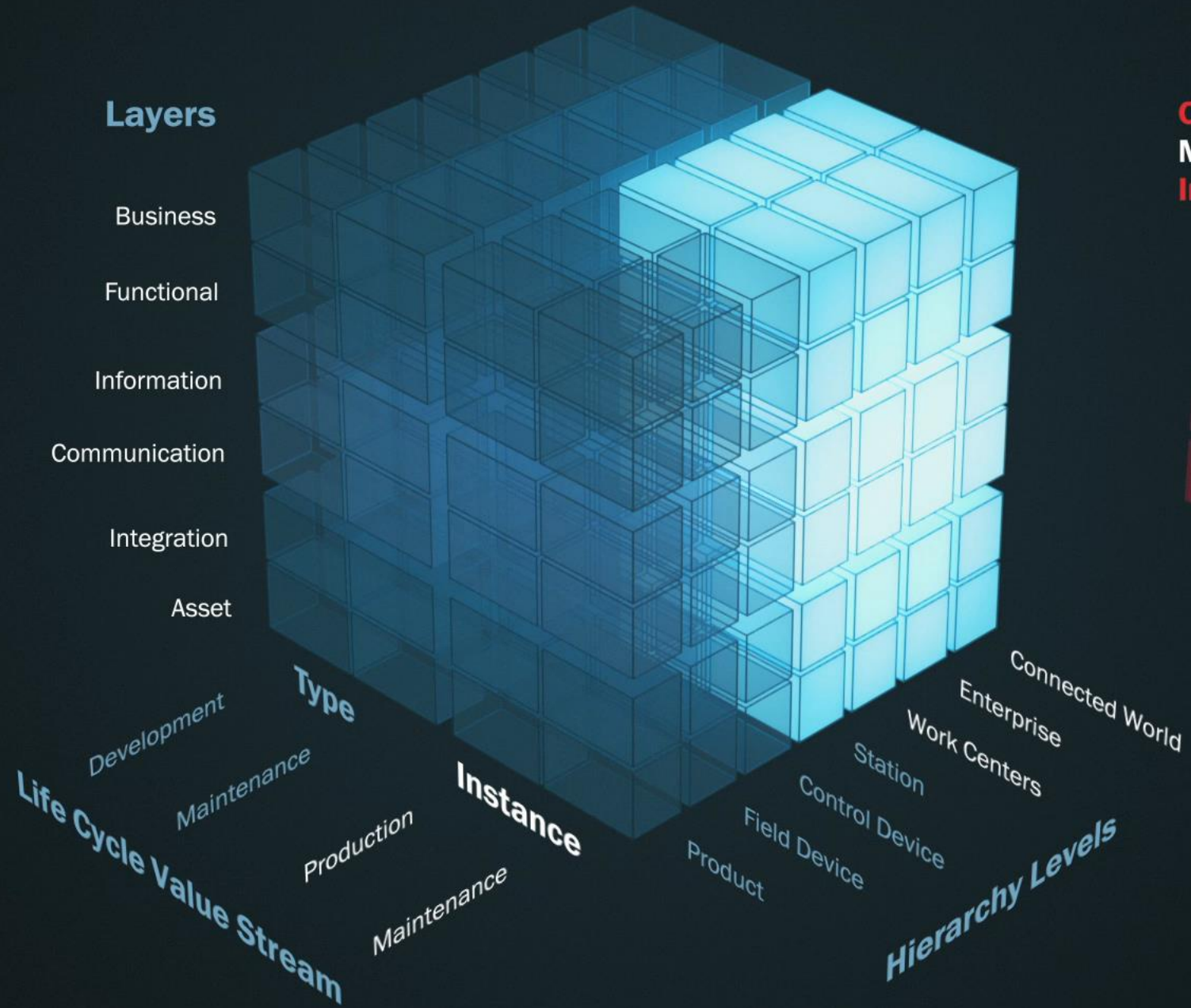
**Collaboration
Modular Manufacturing
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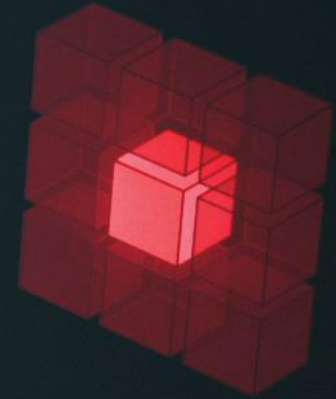


Collaboration
Modular Manufacturing
Improving Quality





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Modular Manufacturing
Improving Quality





BIC
Digitale Fabriek

“Hoe kunnen we onze factory planning verbeteren door meer gebruik te maken van data?”

TNO innovation
for life

TU/e

FUJITSU

FUJITSU GLOVIA

DMG MORI

→ Intuitive scheduling of production orders & simple creation of master- and transaction data.

1 Solve scheduling conflicts with assisting algorithms

Use case Test & ontwikkel

Dashboard voor factory planning

2 Interactive schedule with progress visualization

3 Delayed production orders can easily be identified

4 Quick master data & order creation with simple designed wizards

Blauwdruk Test & ontwikkel

14.0 standaarden om machinedata te ontsluiten

Blauwdruk Test & ontwikkel

Gecontroleerd delen van data binnen en buiten de fabriek

Use case Blauwdruk

Nieuwe planningsalgoritmen

Layers

- Business
- Functional
- Information
- Communication
- Integration
- Asset

Life Cycle Value Stream

Development

Maintenance

Production

Maintenance

Type

Instance

Product

Field Device

Control Device

Station

Work Centers

Enterprise

Connected World

Hierarchy Levels

**Collaboration
Modular Manufacturing
Improving Quality**



Layers

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- Functional
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- Integration
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Life Cycle Value Stream

Development
Maintenance
Production
Maintenance

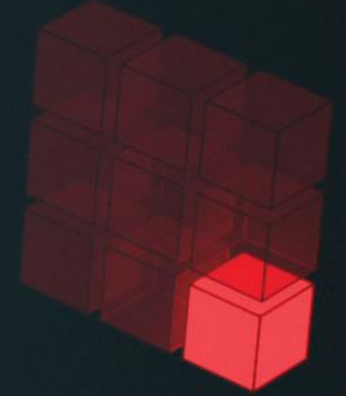
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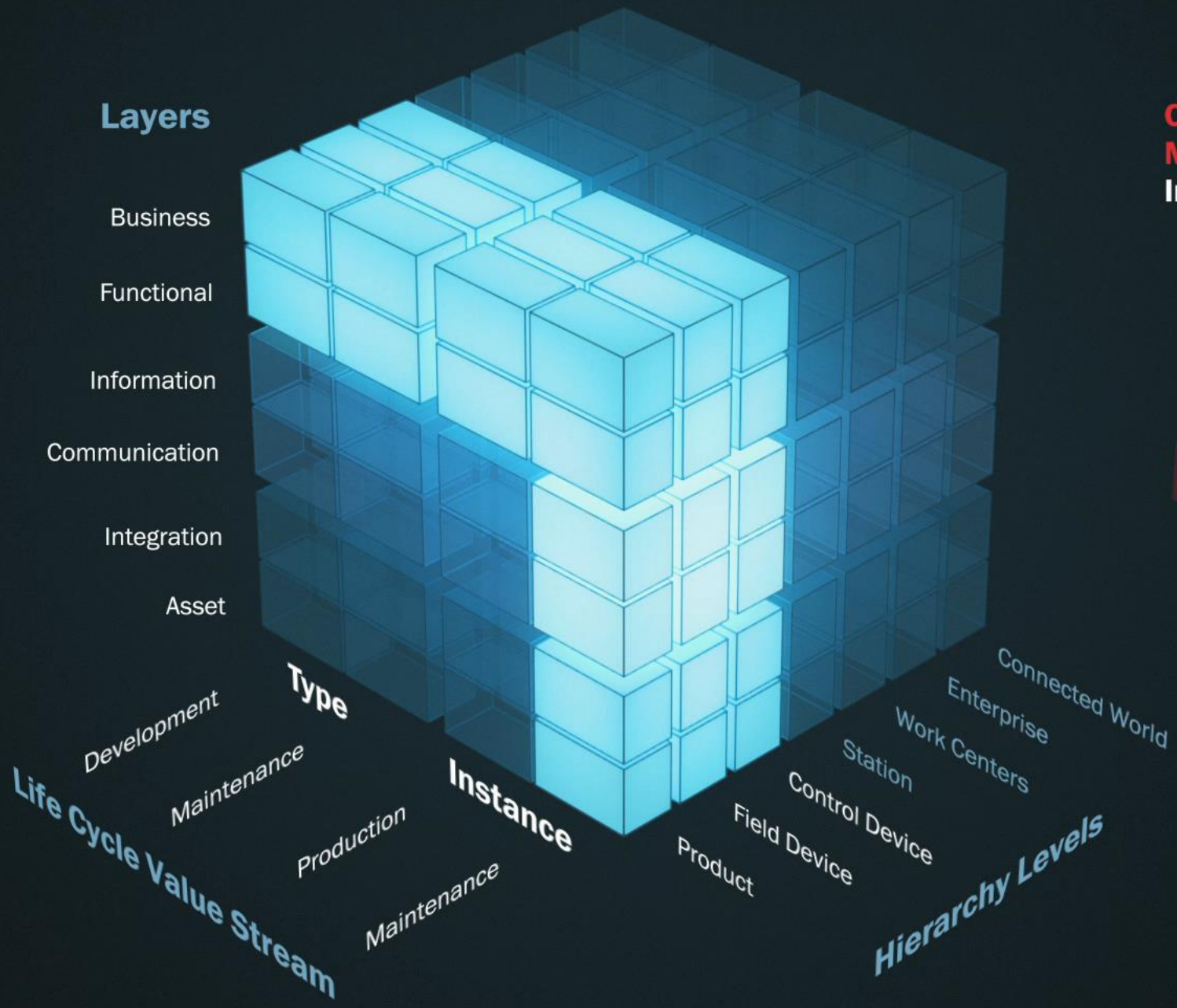
Instance

Hierarchy Levels

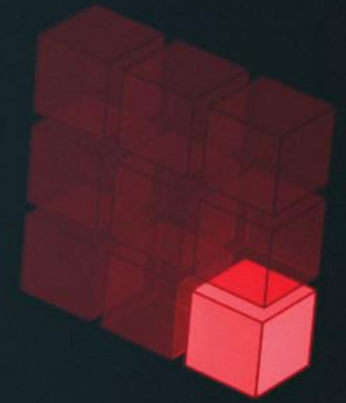
Product
Field Device
Control Device
Station
Work Centers
Enterprise
Connected World

Collaboration
Modular Manufacturing
Improving Quality





Collaboration
Modular Manufacturing
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Products Boxes Complete

Softwareport

- Home
- Projects
- Customers
- My Projects
- My V's
- Associations
- Partners
- Help
- Workroom

D. Demo

Softwareport 1.0

- Group 100 at Workshop
- Work 100 at Workshop
- Workshop
- Workshop

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D. Demo

Softwareport 1.0

- Group 100 at Workshop
- Workshop
- Work 100 at Part 100
- Work

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D. Demo

Softwareport 1.0

- Group 100 at Workshop
- Workshop
- Work 100 at Workshop
- Workshop

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Learn



Update

Het 'Tesla-model', maar
dan voor machines

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Learn

Information Dashboarding



Artificial Intelligence

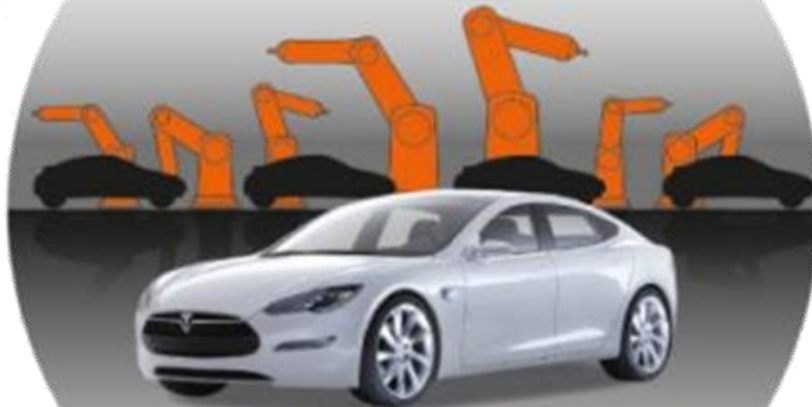


Big Data

- Sensor data
- Control data
- Low-code model data



Cyber security



Low-Code platform



Formal verification



Virtual Twin commissioning

SIEMENS NX-MCD

Product Lifecycle Management



Cyber security



Update



BIC Digitale Fabriek

- Standaardoplossingen voor slim produceren
- Blauwdruk: naar welke standaarden & technologieën moet ik vragen?
- Test- & ontwikkel- en demonstratie omgeving

HIGH TECH SOFTWARE CLUSTER

- Spreek een expert
- Quick-scan laten maken
- Praktisch aan de slag