

»»» *Beyond Industry 4.0*

CLM»»»

Closed

Loop

Manufacturing



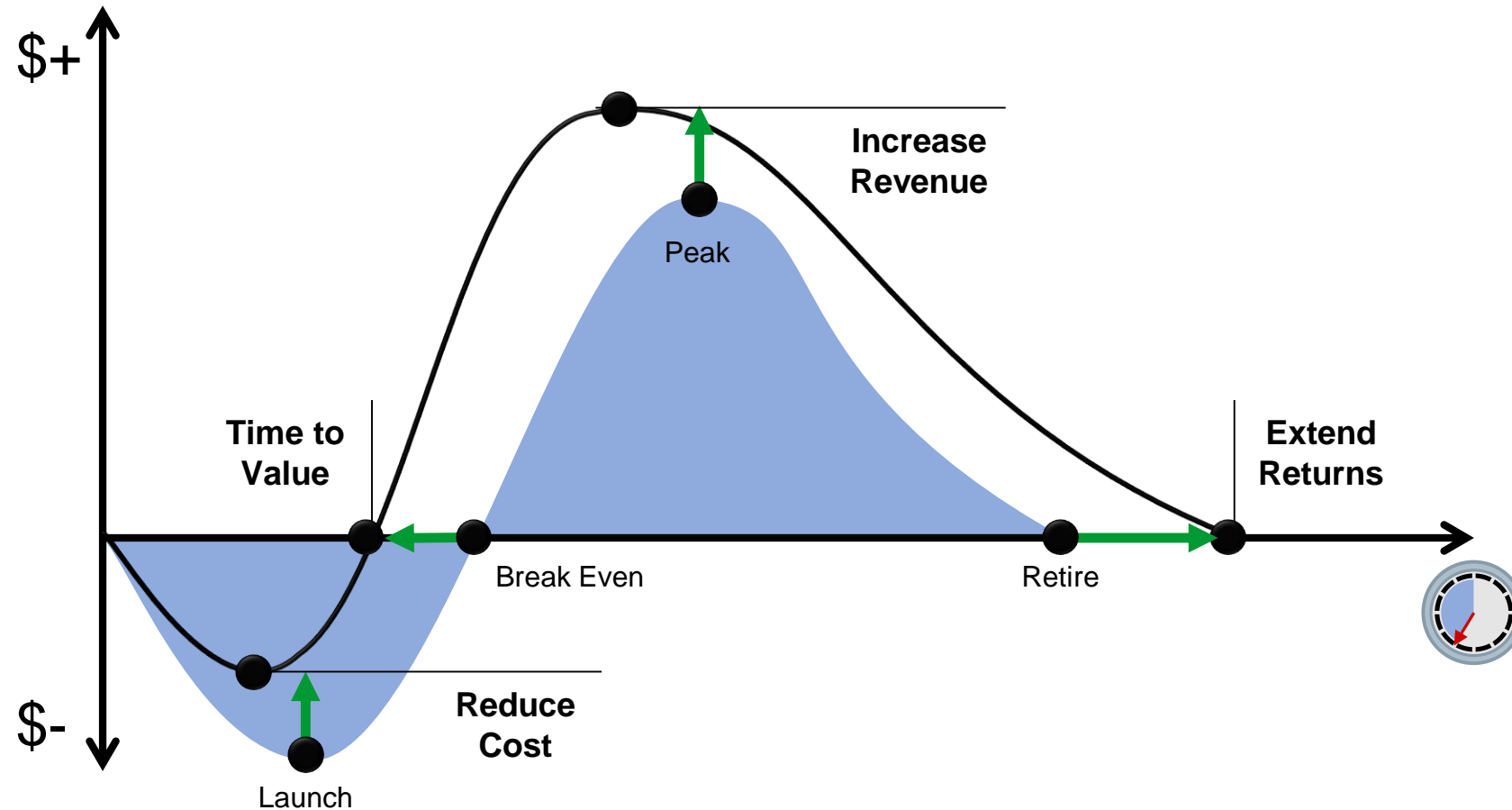
Xcelerator

Peter Norrblom
Nordic Technical Director

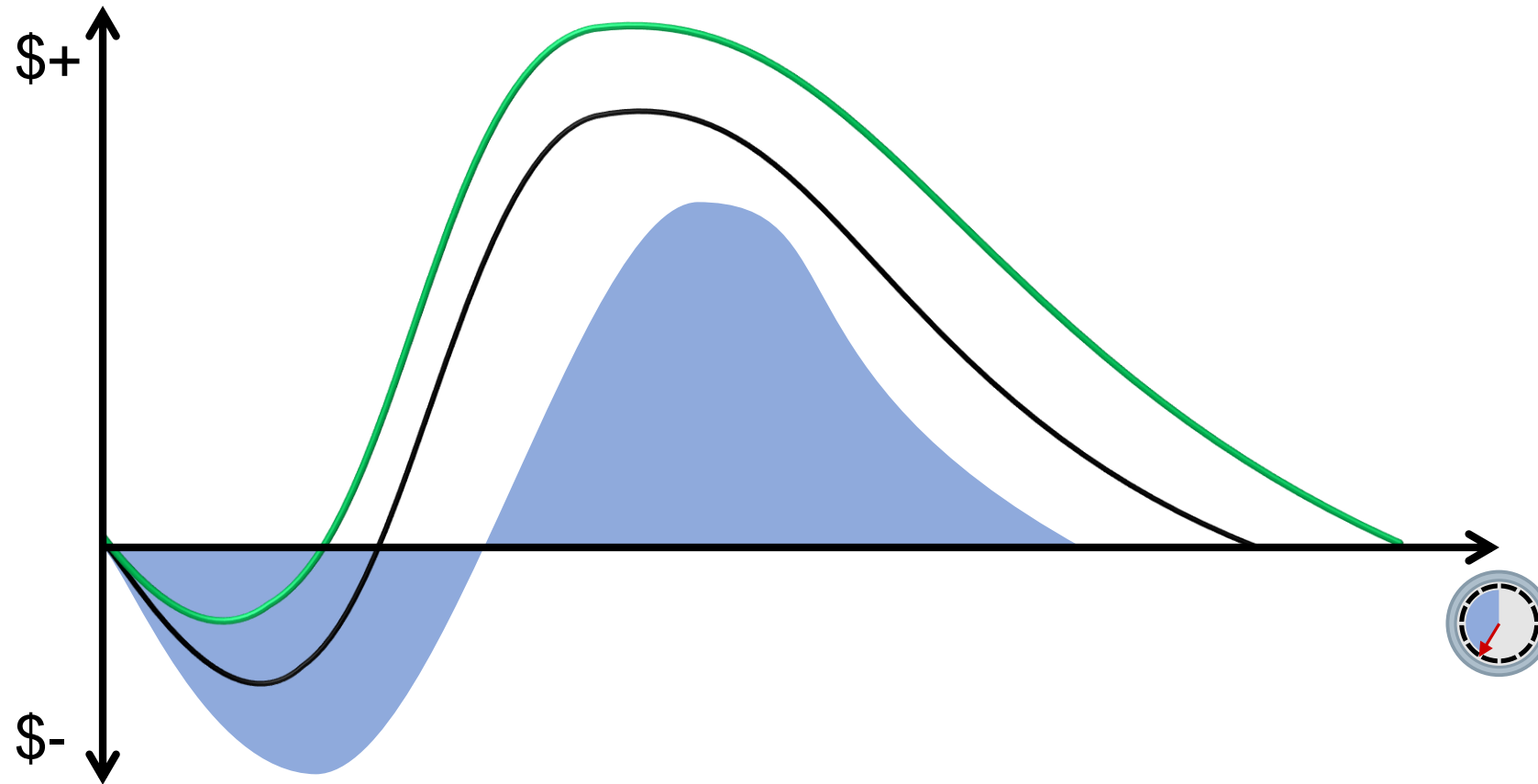
Explosion of
Complexity



The Benefit of Digitalization



The Benefit of Digitalization



Three keys to using complexity as a

Competitive advantage



**Comprehensive
Digital Twin**



**Personalized
Adaptable/ Modern**



**Flexible
Open Ecosystem**

Three keys to using complexity as a

Competitive advantage



**Comprehensive
Digital Twin**

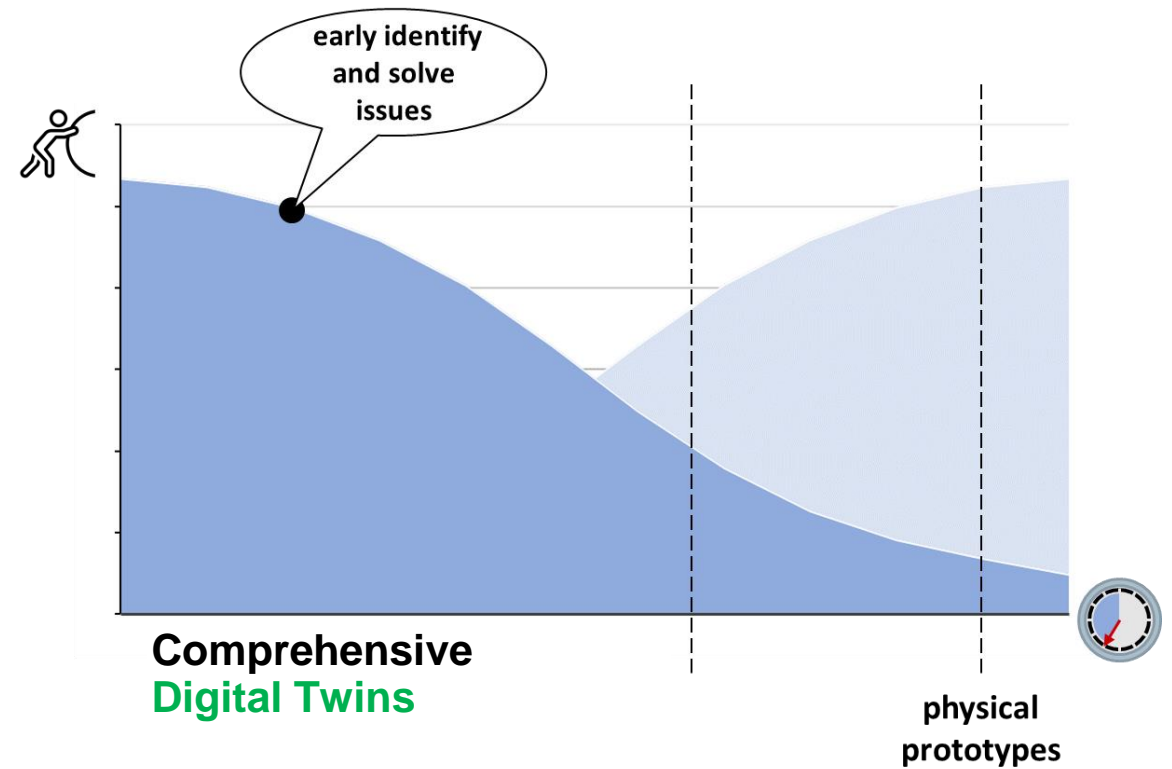
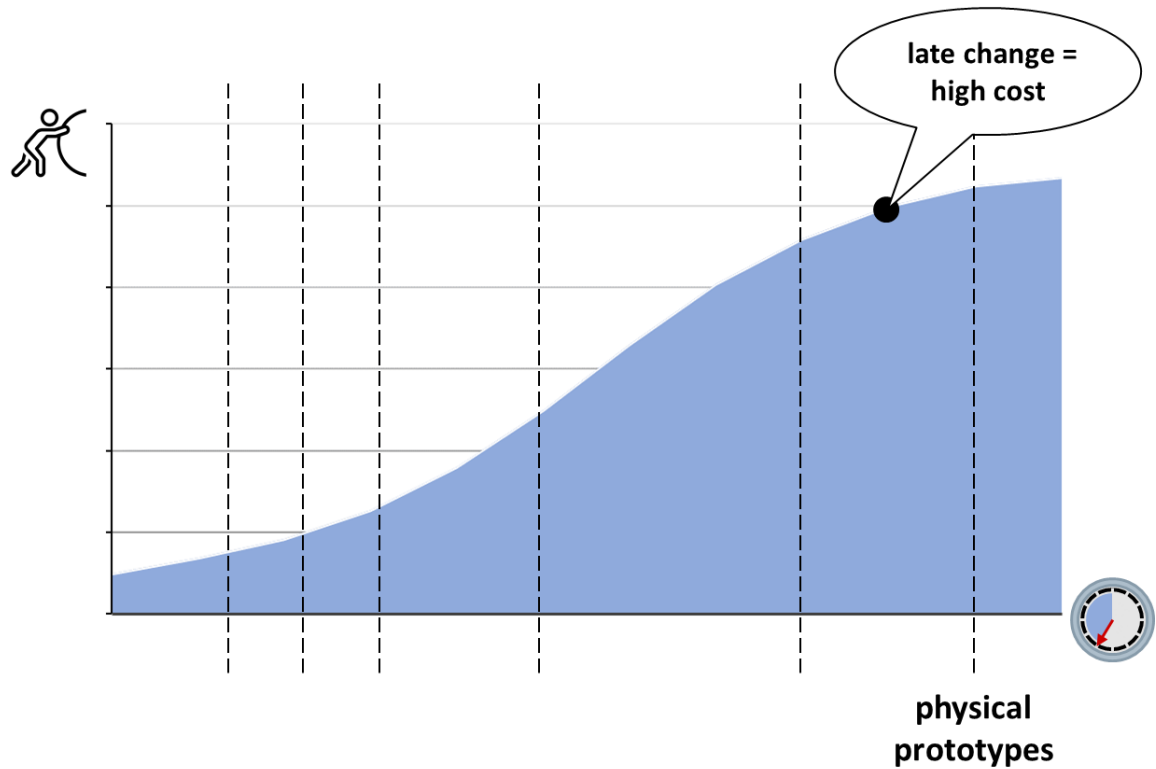


**Personalized
Adaptable/ Modern**

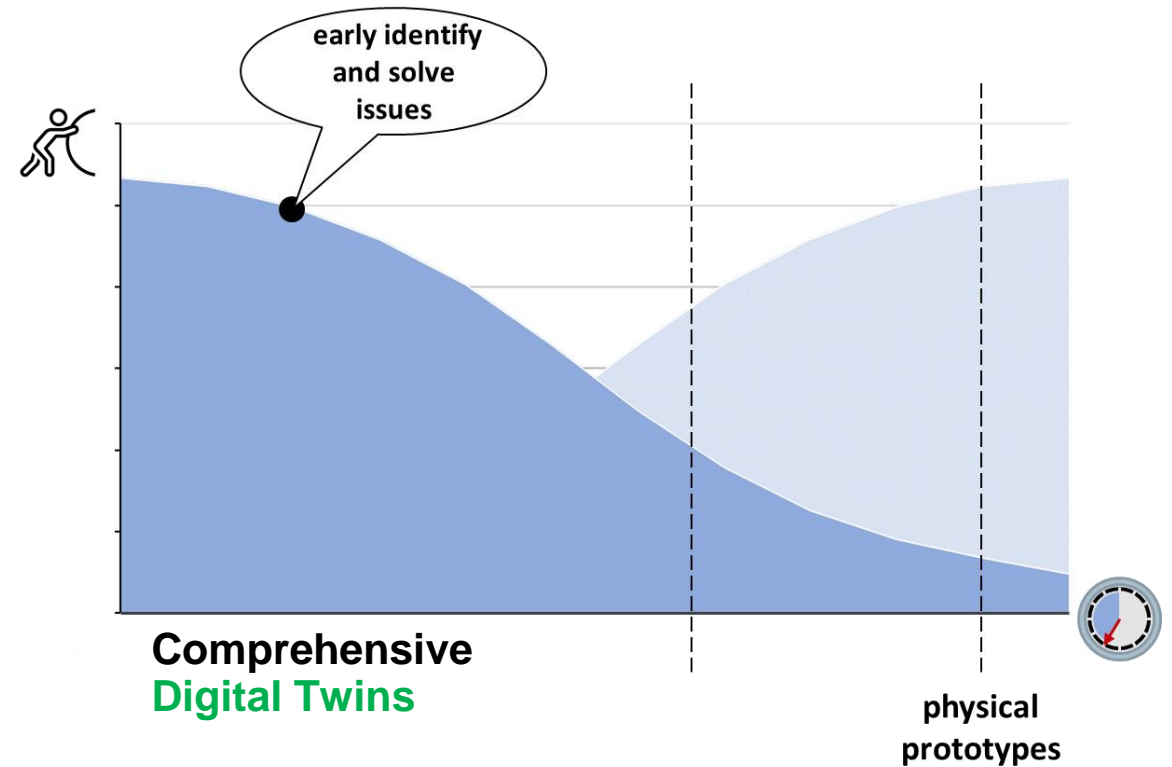
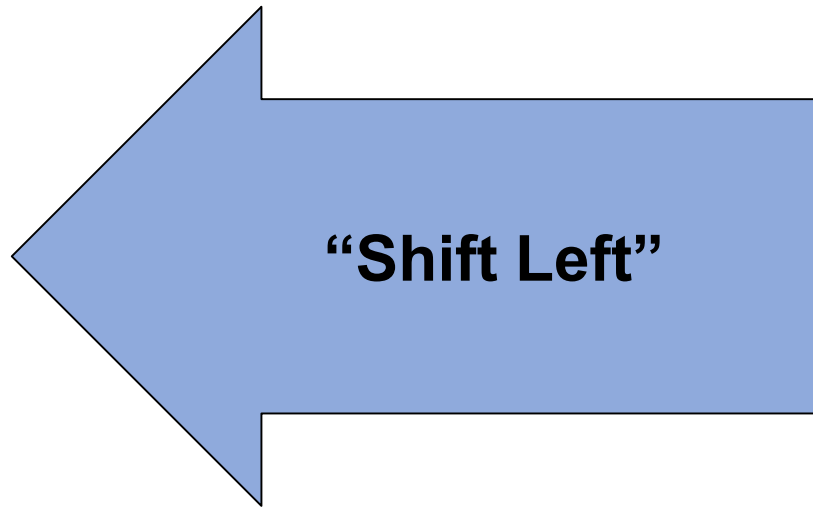


**Flexible
Open Ecosystem**

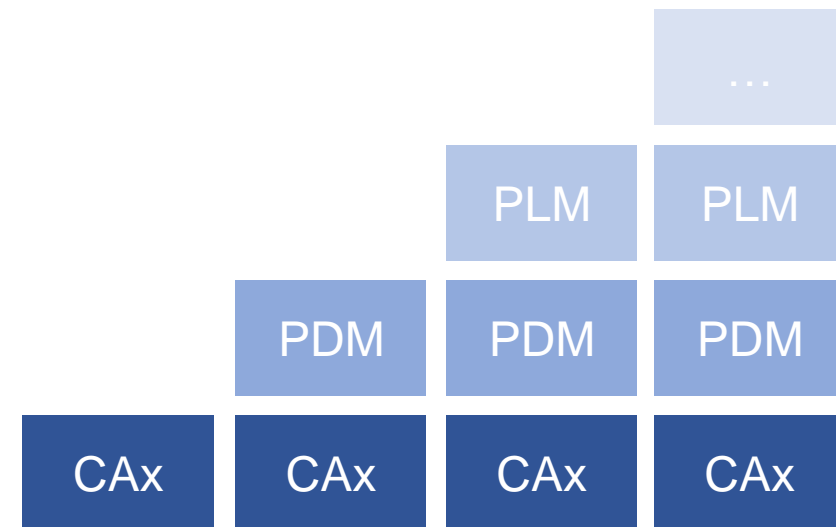
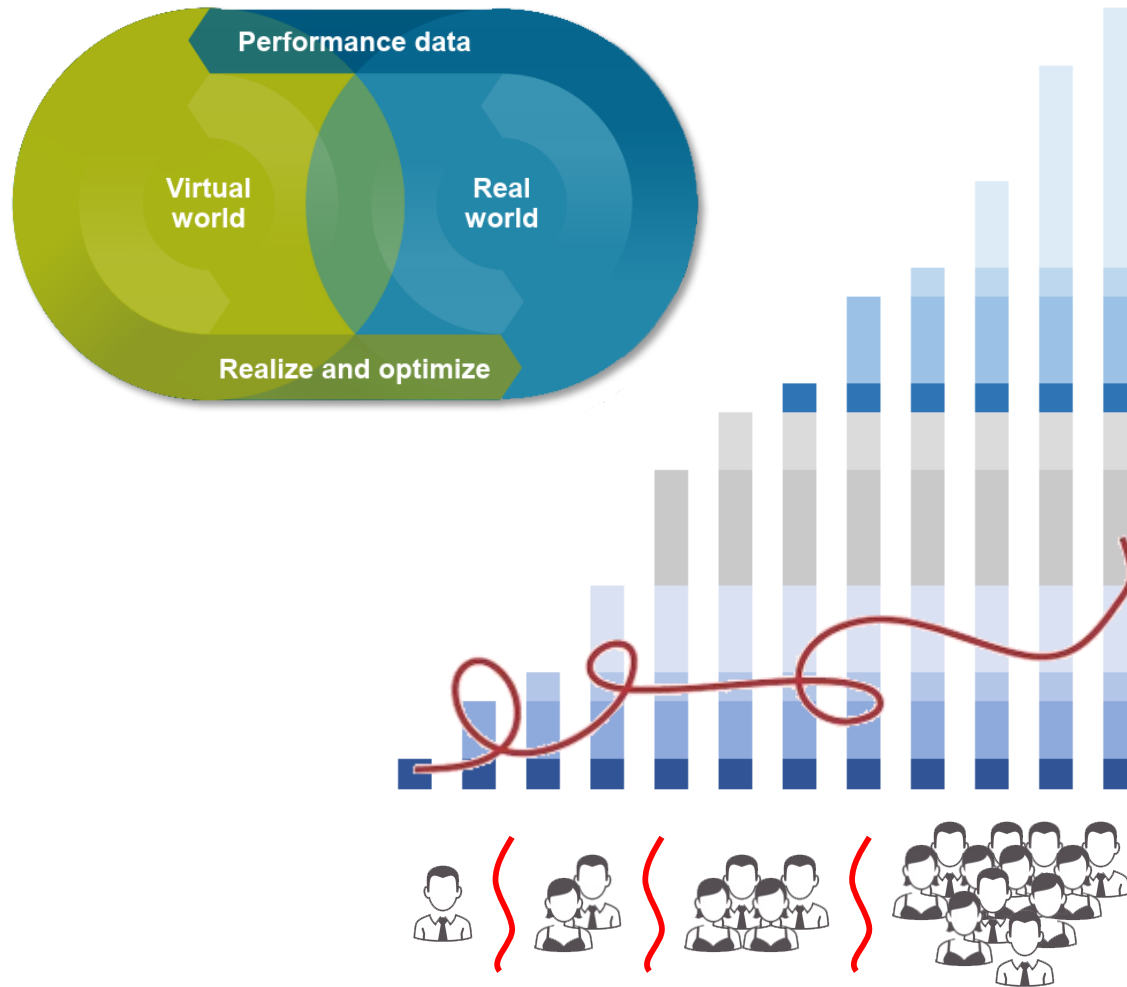
Usage of Digital Twins



Usage of Digital Twins



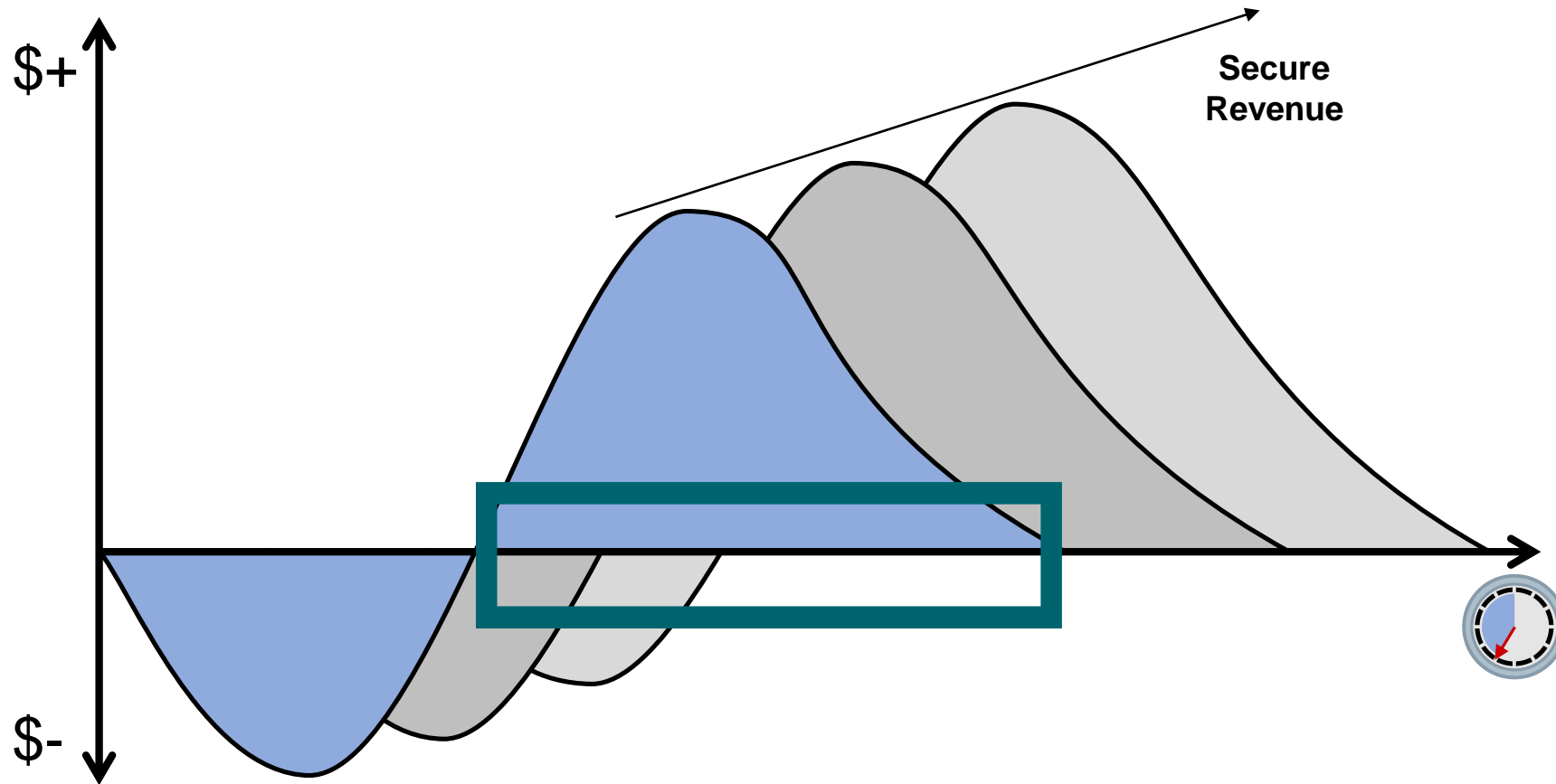
Digital Thread, connecting Digital Twins

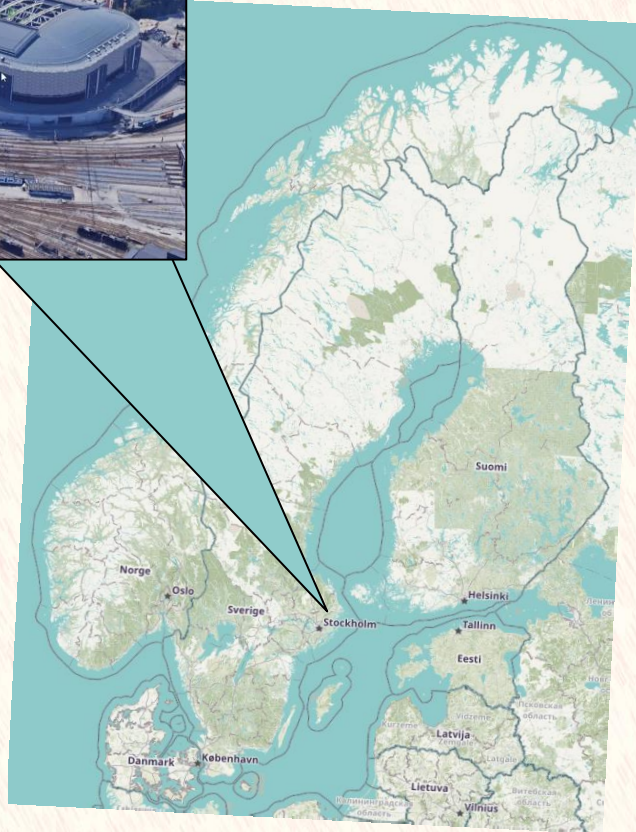


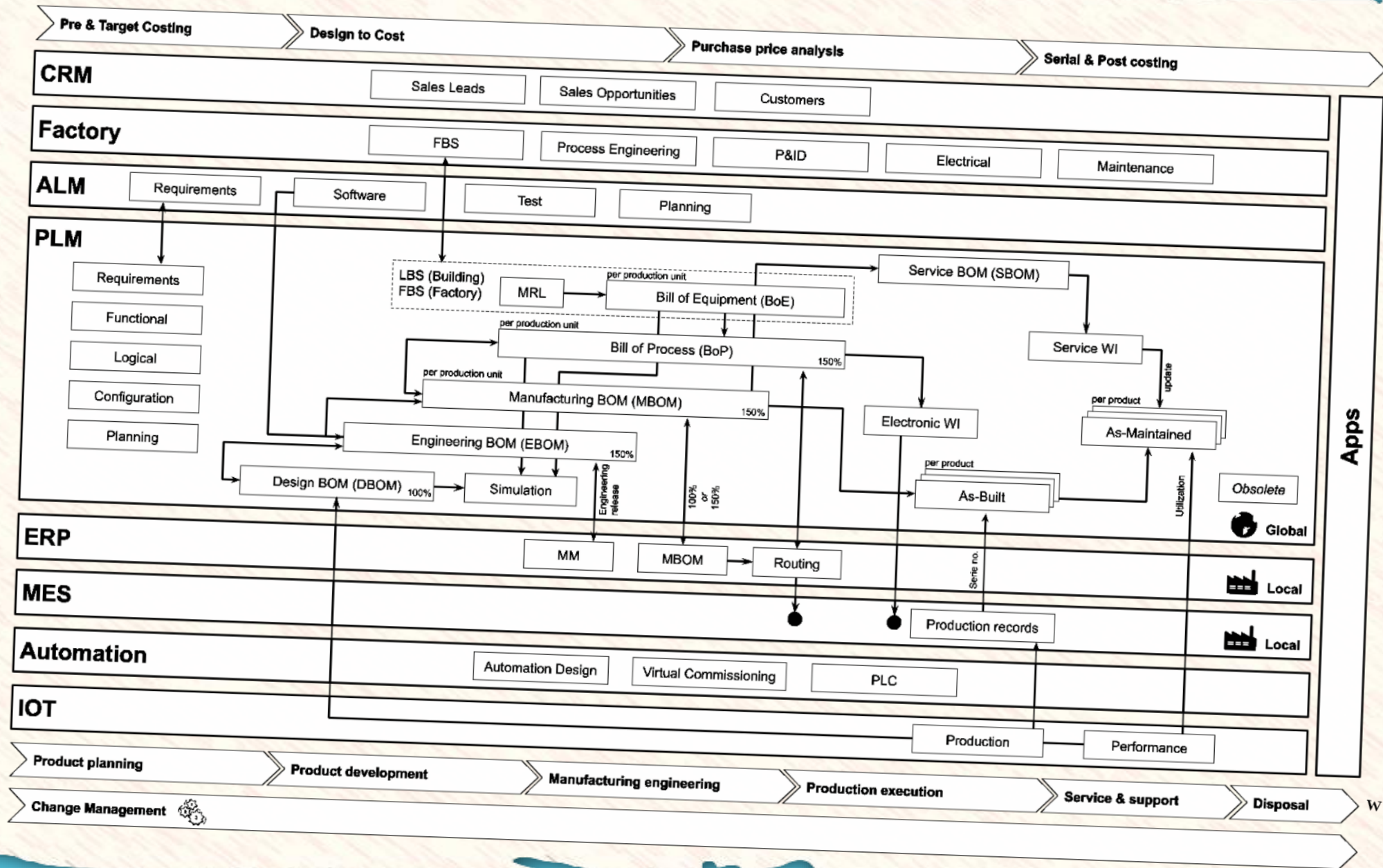
Siemens focus on integration



The Benefit of Digital Thread







Apps



Three keys to using complexity as a

Competitive advantage



**Comprehensive
Digital Twin**

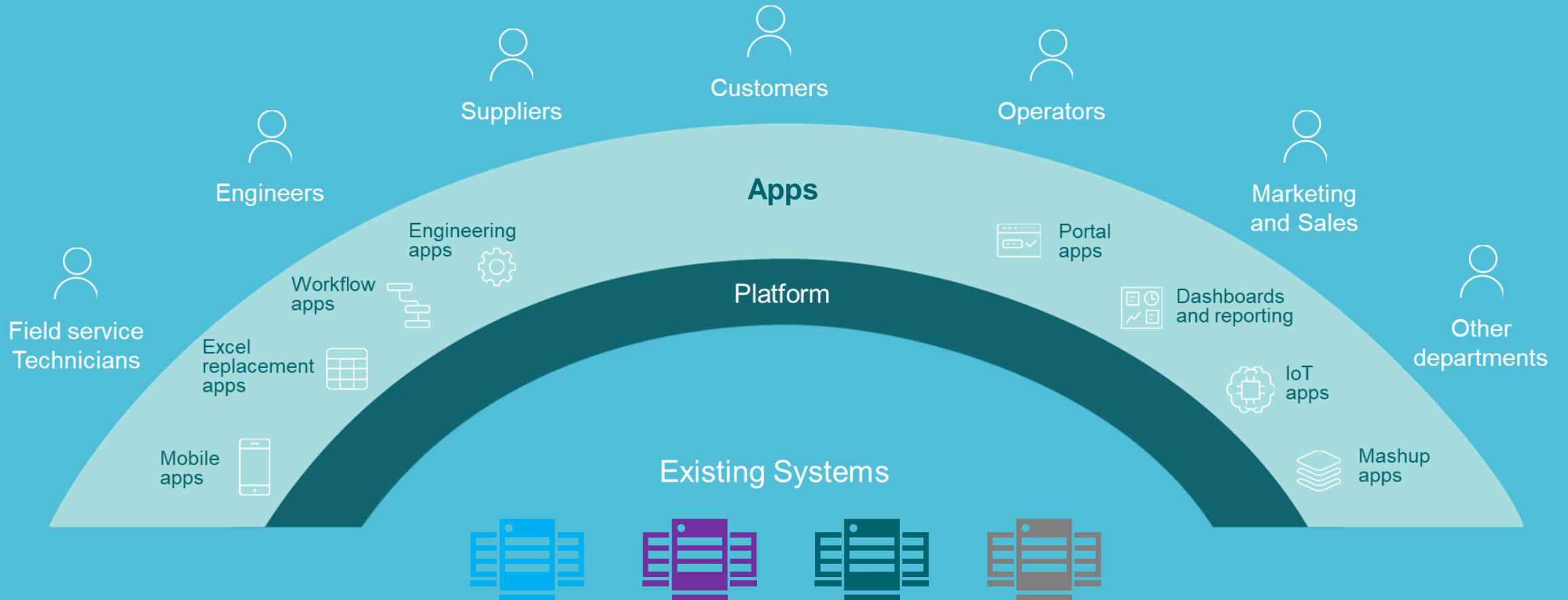


**Personalized
Adaptable/ Modern**



**Flexible
Open Ecosystem**

Unlock and Extend any existing data or system



Unlock and Extend any existing data or system



sdttwin - Siemens Olli Demonit... | https://cassee-mendix-cassee.eu1.mindsphere.io

cassee IoT@Work Digital Twin | powered by SIEMENS MindSphere

Model | Asset Name | Asset Status | Country | Locality | Search

Vehicles

Name	Asset Type	Model	Asset ID	External ID	Virtual ID	Status	Country	Locality
OLLI_XA_BUS_09	Olli_Bus	OLLIXA	2780113880684...	1LBLLXA9DOLL30012	VA-OLLI-XA	Active	United States	Livonia
OLLI_XA_BUS_10	Olli_Bus	OLLIXA	8d3f181a10244a...	1LBLLXA9DOLL30011	VA-OLLI-XA	Inactive	United States	Livonia
OLLI_XA_BUS_109	Olli_Bus	OLLIXA	9e556f2a746a42...	1LBLLXA9DOLL30001	VA-OLLI-XA	Active	United States	Ann Arbor
OLLI_XA_BUS_13	Olli_Bus	OLLIXA	217ebde88c1c45...	1LBLLXA9DOLL30005	VA-OLLI-XA	Active	United States	Ann Arbor
OLLI_XA_BUS_214	Olli_Bus	OLLIXA	127ab9d932254a...	1LBLLXA9DOLL30008	VA-OLLI-XA	Active	United States	Livonia
OLLI_XA_BUS_215	Olli_Bus	OLLIXA	8e81fbc391af4df...	1LBLLXA9DOLL30006	VA-OLLI-XA	Active	United States	Farmington Hills
OLLI_XA_BUS_218	Olli_Bus	OLLIXA	b93e2f4ca3447...	1LBLLXA9DOLL30009	VA-OLLI-XA	Active	United States	Livonia
OLLI_XA_BUS_253	Olli_Bus	OLLIXA	99e506b244441...	1LBLLXA9DOLL30007	VA-OLLI-XA	Active	United States	Farmington Hills
OLLI_XA_BUS_320	Olli_Bus	OLLIXA	3c018957f6094b...	1LBLLXA9DOLL30002	VA-OLLI-XA	Active	United States	Ann Arbor
OLLI_XA_BUS_452	Olli_Bus	OLLIXA	20e991b261e04...	1LBLLXA9DOLL30004	VA-OLLI-XA	Active	United States	Novi

Previous | Details | 1 of 2 | Next

Locations

Map | Satellite

Average Battery Life: 45

Total Assets: 18

Cumulative Miles: 2,480.4

Cumulative Hours: 430.4

Active: 15

Inactive: 3

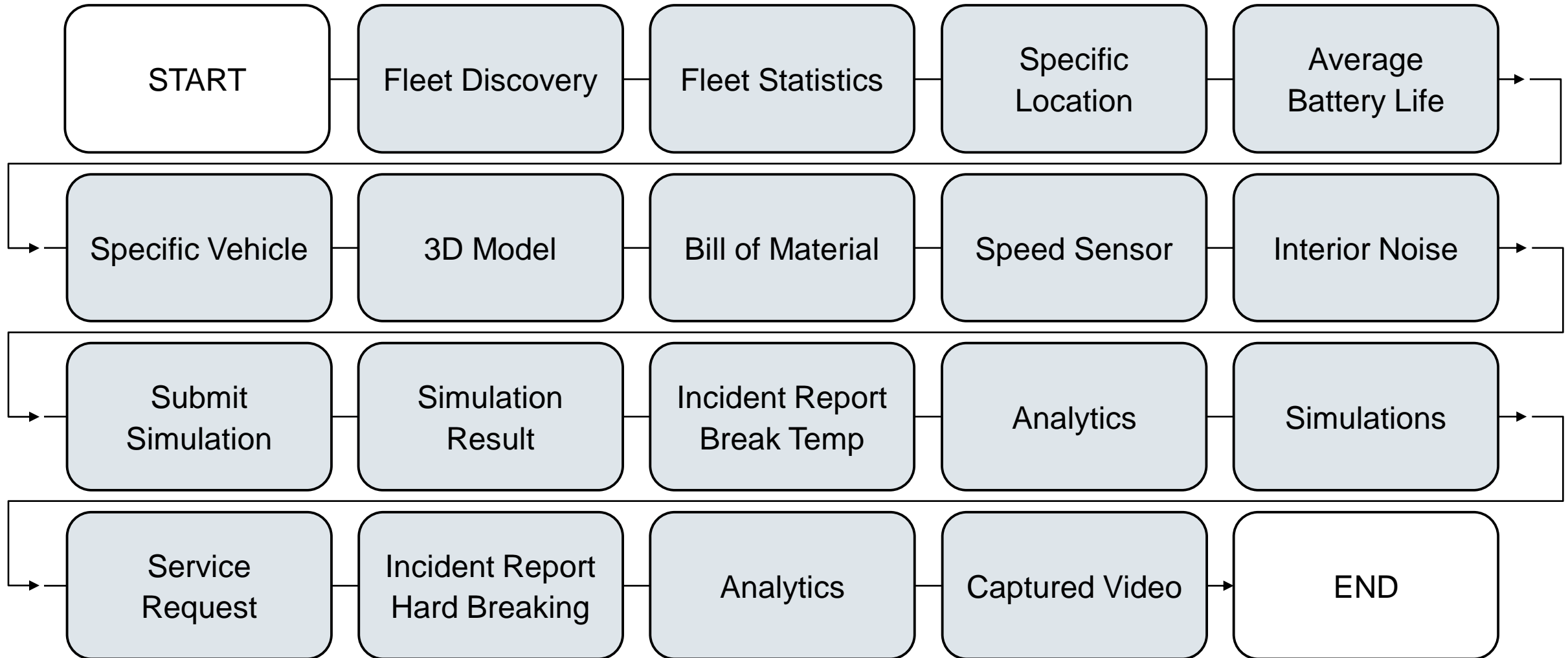
Service Due: 2

Critical Issues: 5

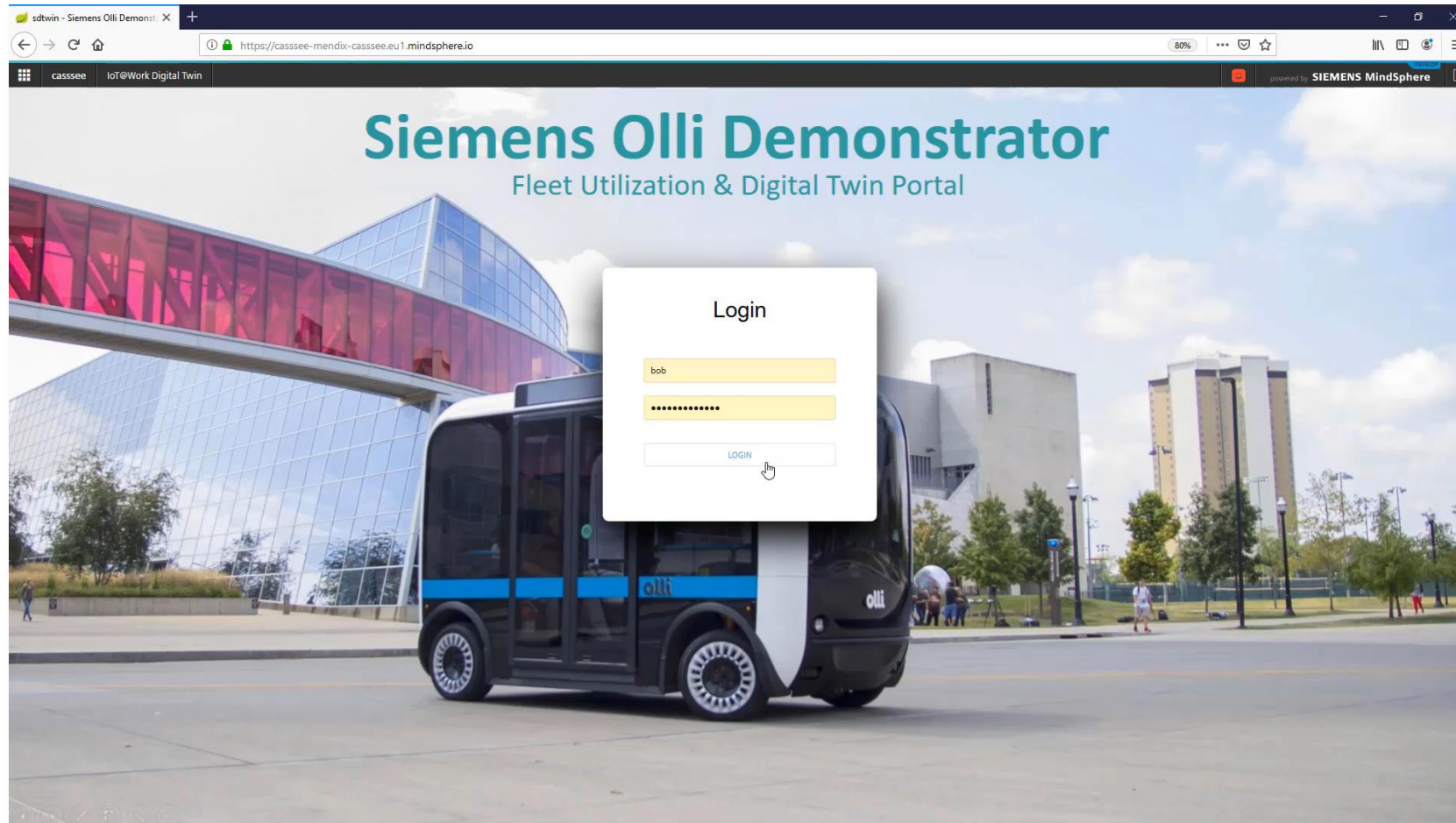
Avg Values

	Day	Week	Month
Daily Hours	8.3	9.2	7.6
Miles Driven		623.6	2,480.4
# of Passengers	86.3	430.4	1,720.7

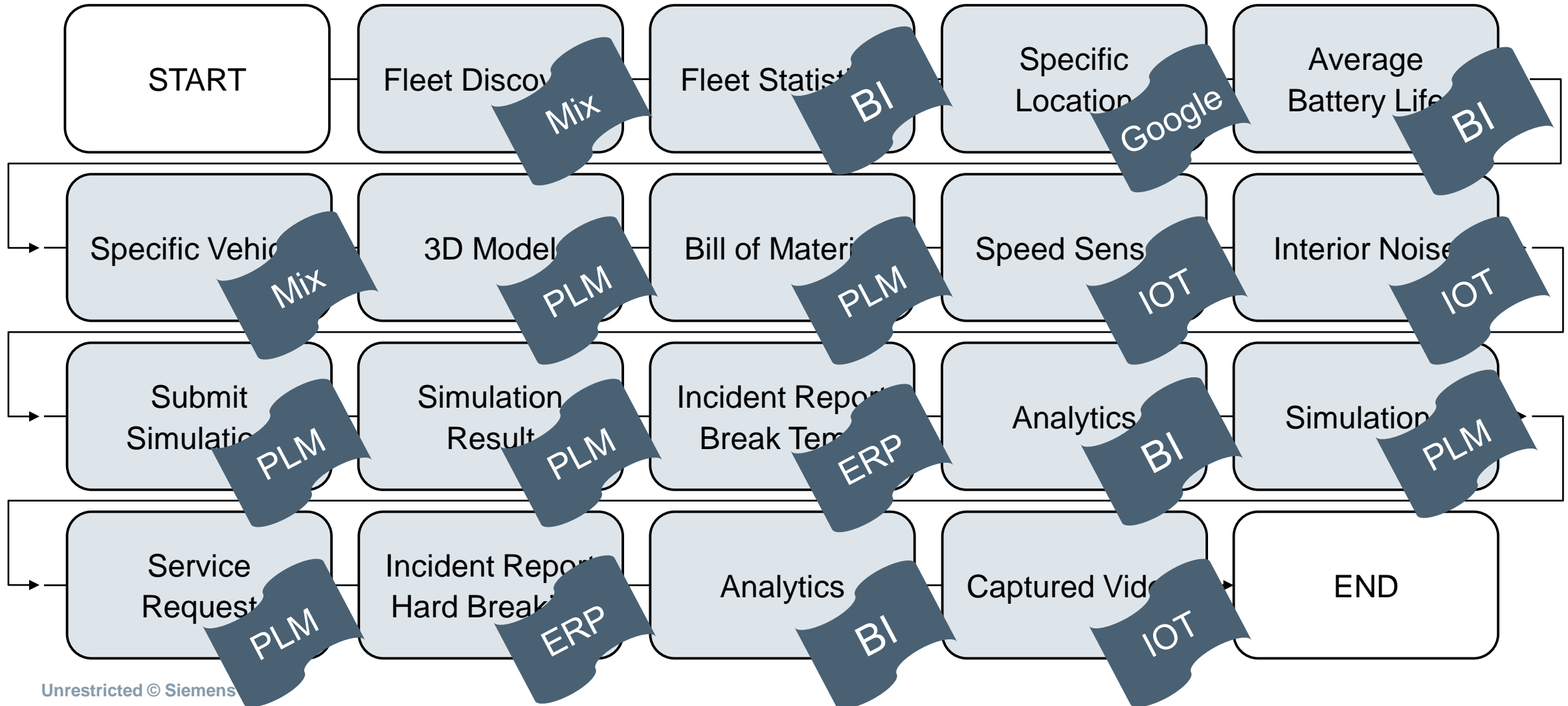
Demo Use Case



Digital Twin Demonstrator



Demo Use Case





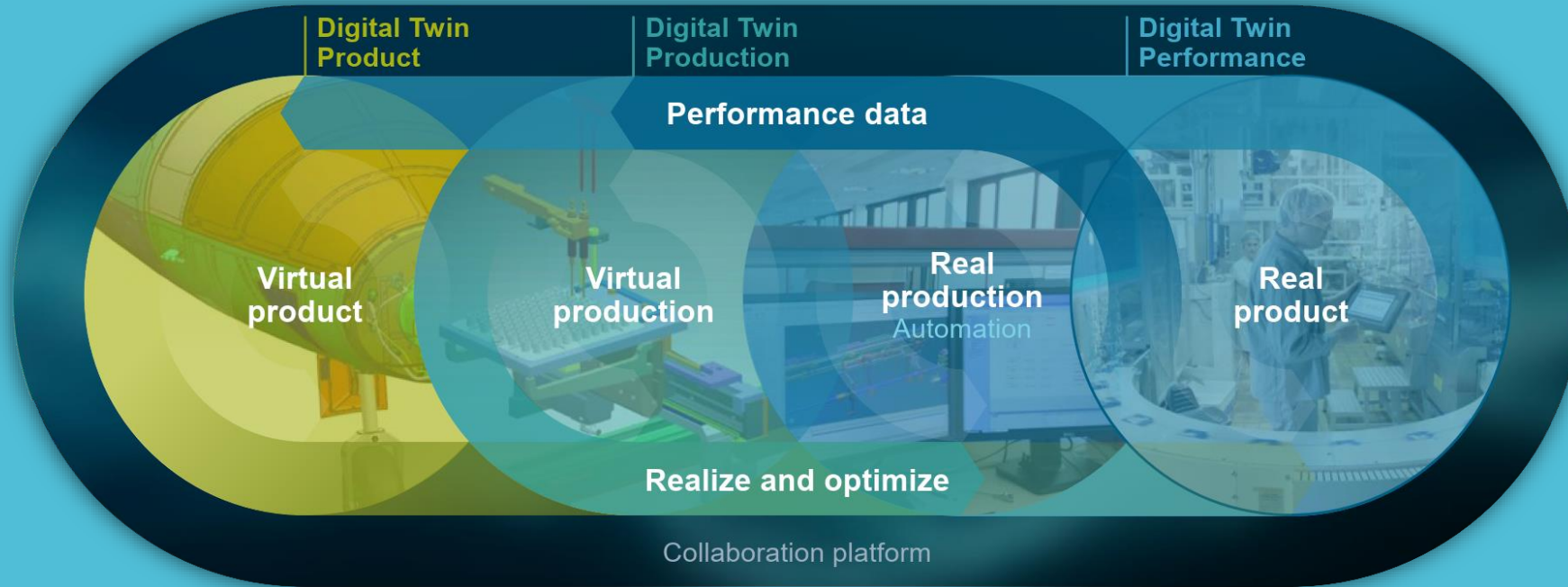
Where today meets tomorrow

Where
today
meets
tomorrow



celerator

Thank You!
And now ...



... How to realize closed-loop manufacturing

Stefan Bihler

Head of Consulting Siemens Digital Industries Software