
AVEVAWORLD
PARIS

SYENSQO
ADVANCING HUMANITY

Syensqo structures its manufacturing data to support its 2030 Vision

OCTOBER 15TH 2024

Presented by :
ANTOINE ROY and ELOI KEWES

Presenters

Antoine Roy
Industrial Digital Manager, GBU Specialty Polymers

antoine.roy@syensqo.com

Eloi Kewes
Data Model Engineer, GBU Specialty Polymers

eloi.kewes@syensqo.com

SYENSQO

A pioneering legacy and a passion for science and bonding

Solvay innovates in social welfare (paid vacations, social security, 8-hour day)

1878

Ernest Solvay established the first Councils of Physics and Chemistry, which continue to bring together the brightest scientific minds today

1911 & 1922

Launch of PEEK, a very strong thermoplastic to replace metal for lighter, more fuel-efficient planes

1978

First Chemistry for the Future Solvay Prize

2013

Solvay partners with the Ellen MacArthur Foundation: a bold step toward circular economy

2018

13 products labelled Efficient Solutions by the Solar Impulse Foundation

Prof. Katalin Karikó wins Solvay Prize on 100-year anniversary of the Solvay Conferences

2022

SYENSQO

2023

Launch of Syensqo

1863

Ernest Solvay invents a new process for producing soda ash

1880

Solvay is the first industrial multinational operating simultaneously in the US and Europe

1965

Development of PSU, a revolutionary healthcare polymer used for hemodialysis membranes

1990

Rhodia, a future Solvay unit, invents precipitated silica for green tires

2015

Solvay flies around the world with Solar Impulse

2020

Solvay creates the Solvay Solidarity Fund, to help colleagues and communities facing hardship

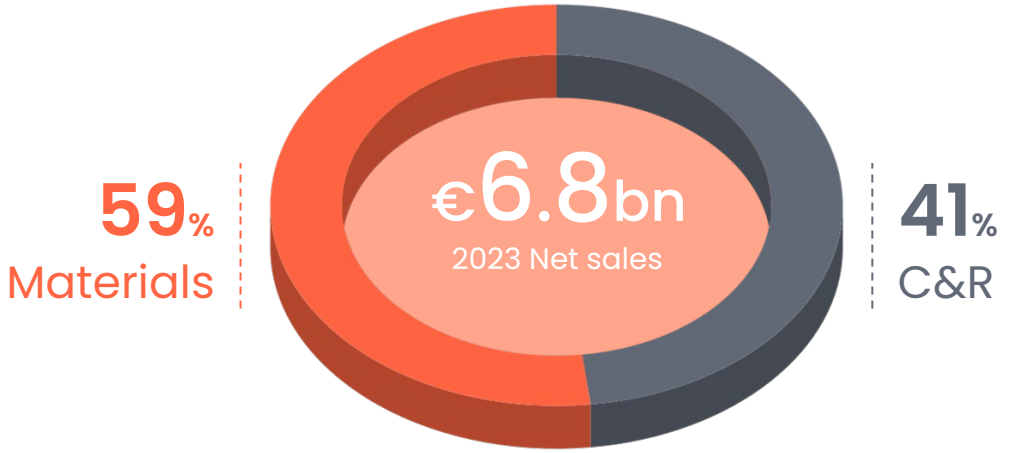
Launch of our 4th Growth Platform on Renewable Materials and Biotechnology

View more

SYENSQO

Syensqo is a market leader in Materials & Consumers

	MARKET POSITION	
MATERIALS	#1	High-performance polymers; leading position in thermoplastic composites Battery Materials, Thermoplastic composites, Green Hydrogen, Renewable materials & Biotechnology
	#2	Materials for civil aerospace
	#1	Materials for defense
CONSUMER & RESOURCES	#2	Specialty surfactants and polymers
	#1	Flavors & Fragrances; Natural Vanillin
	#1	Mining reagents
	#1	Biocides for recycled water



SYENSQO

Top-tier specialty player

STAR FACTORY | SYENSQO ADVANCING HUMANITY

~13,200
Employees

62
Industrial sites

12
Major R&I centers

€6.8bn
Net sales

€1.6bn
Underlying EBITDA

23.7%
Underlying EBITDA margin

2023 Syensqo audited combined financial statements
FTE figures as of March 31st 2023

SYENSQO

CHEMICALS | BELGIUM

Syensqo structures its manufacturing data to support its 2030 Vision

Challenge

- Enable the rapid replication of digital solutions across its plants whilst ensuring strong adherence to local site specificities
- Maximize the value of centralized activities whilst still developing local initiatives and retaining autonomy
- Develop an evolutionary digital ecosystem that delivers immediate value but also supports incremental use cases developed through Agile mindset/methods

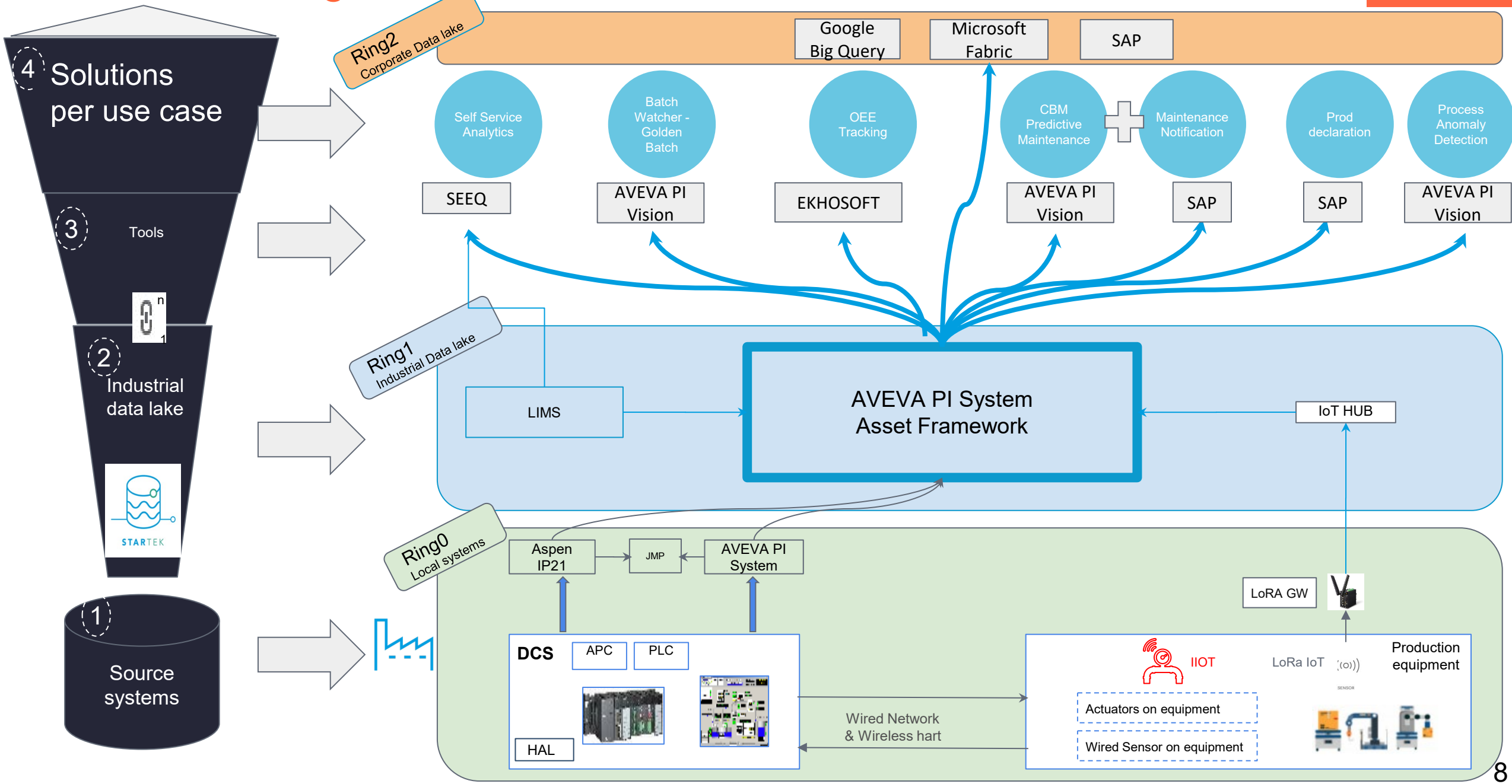
Solution

- Deployed AVEVA™ PI System™ asset framework and PI Vision at the core as its digital ecosystem
- Developed a detailed and robust attribution of central and local roles and followed an Agile approach with monthly sprints to deliver use cases

Results

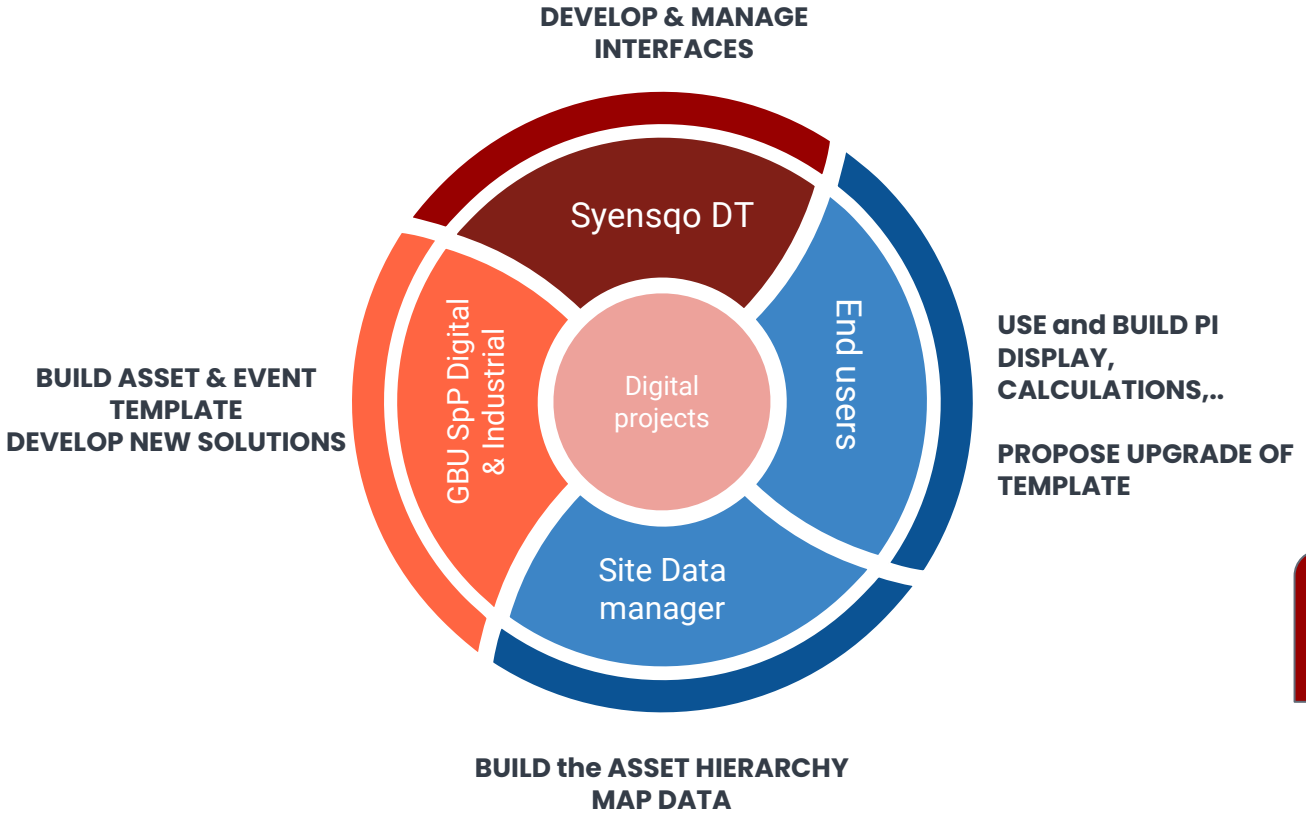
- **Reduced maintenance cost by 25% and operational equipment effectiveness (OEE) breakdown losses by 50%**
- **Reduced batch duration variability by 60% in just 3 months**
- **Time to replicate much faster after 1st implementation, e.g. OEE solution from 26 weeks to 5 weeks, and internal “Batch Watcher” solution from 11 weeks to 4 weeks**

Technical design

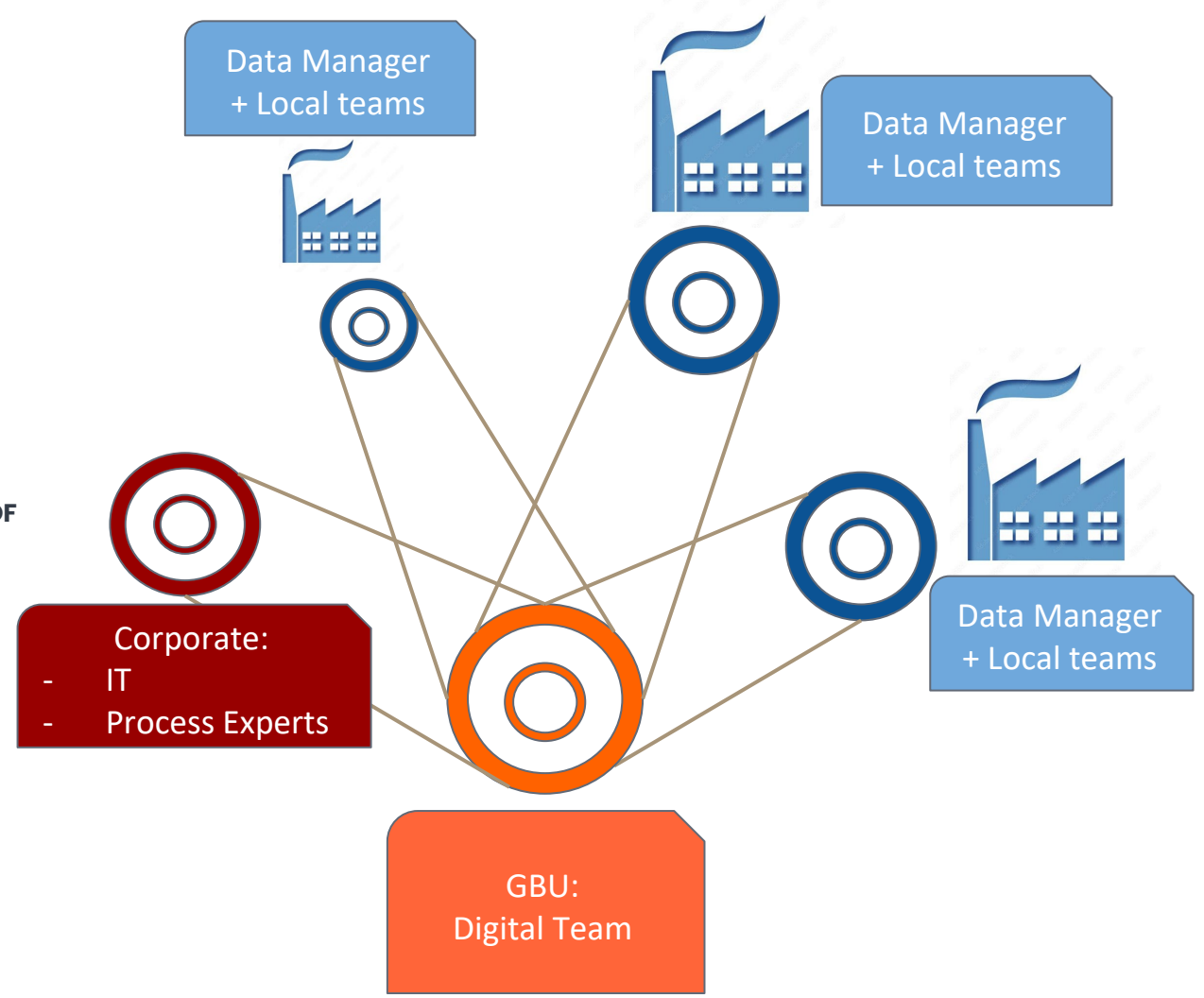


Organization

Central - local organization
Collaboration of all actors in Digital projects



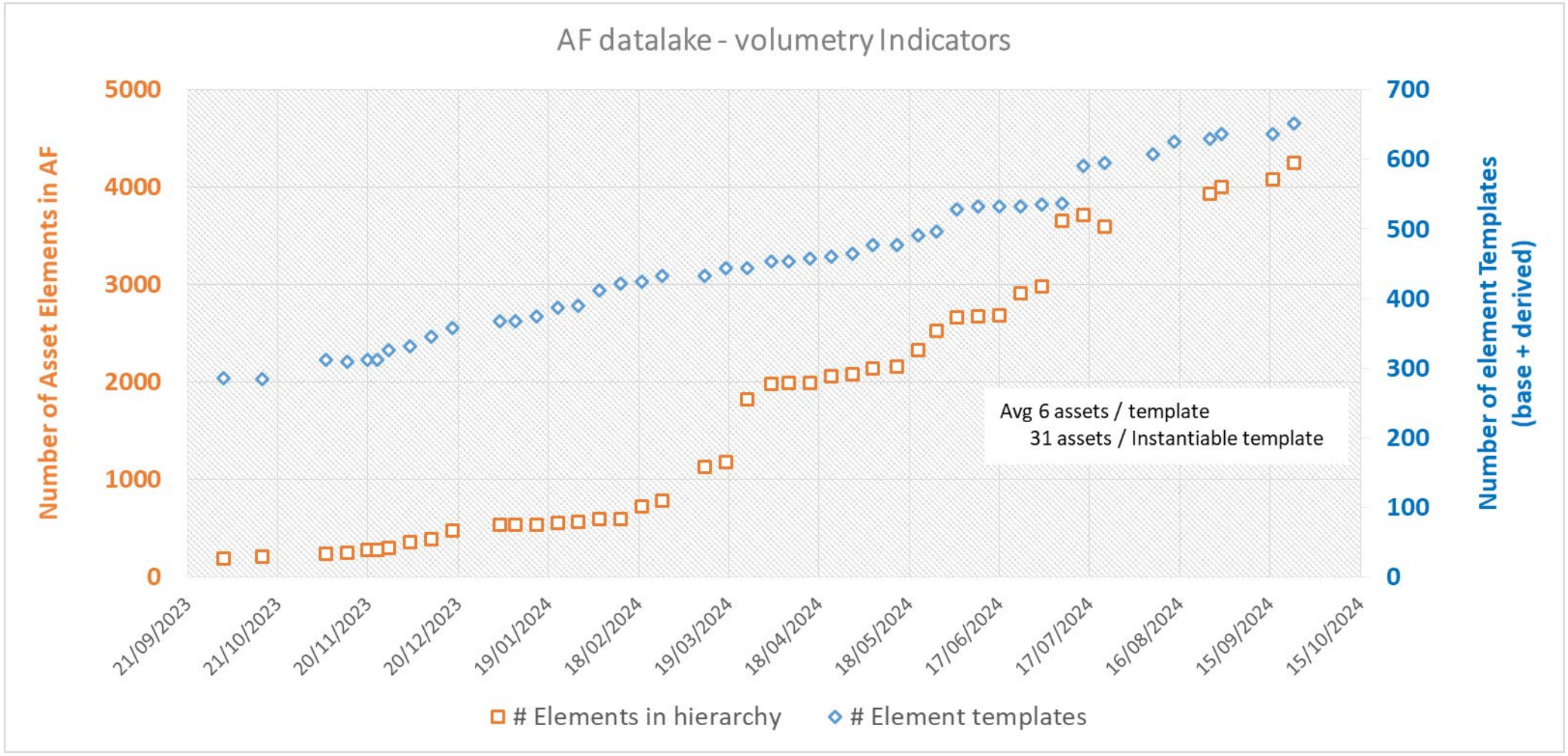
"One pilot site simplifies replication across all sites"
PI templatization multiplying the yield



Indicators of asset framework volumetry

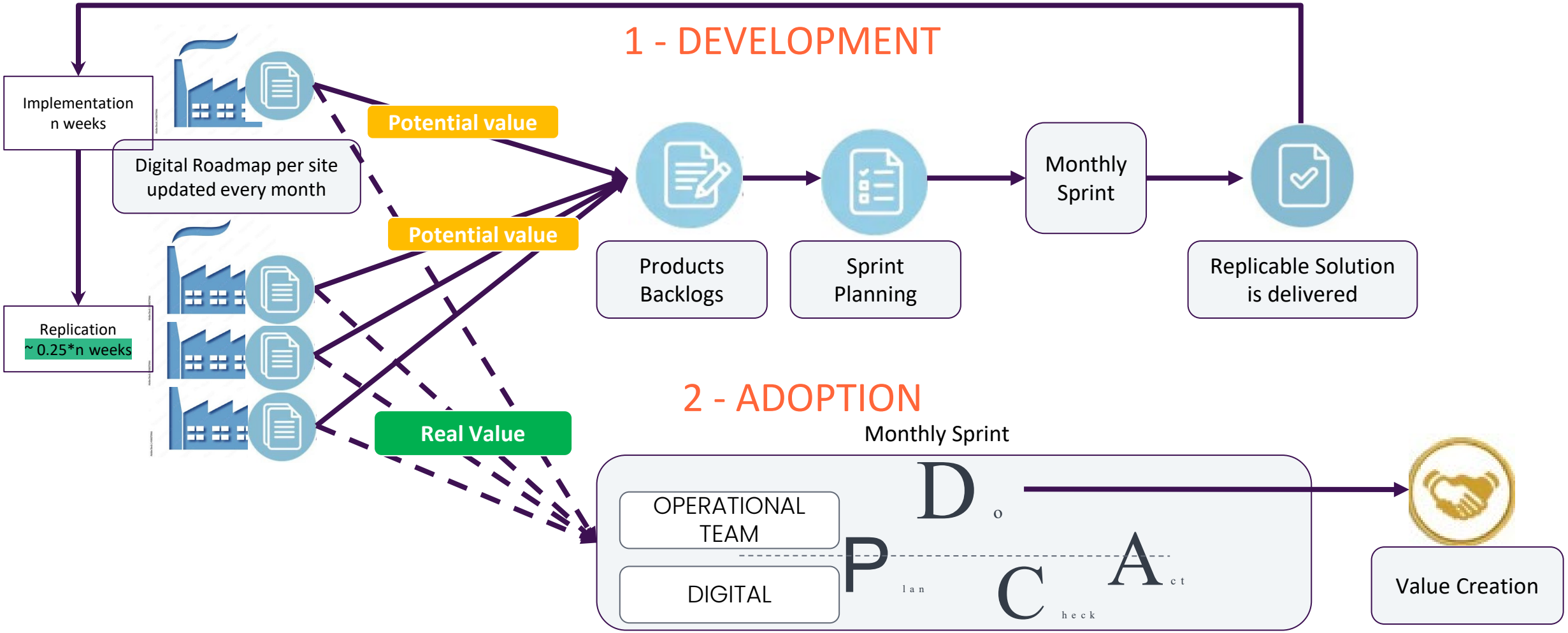
To date, in our PI System datalake:

- 4000+ elements in AF hierarchy
- 600+ element templates (base + derived)
- 60000+ PI points in Data Archive



Way of working

We are delivering our Digital roadmap with monthly sprints prioritized according to potential impact.



While the value creation comes with the Action of operational teams who are empowered with KNOWLEDGE enabled by Digital

CHEMICALS | BELGIUM

Syensqo structures its manufacturing data to support its 2030 Vision

Challenge

- Enable the rapid replication of digital solutions across its plants whilst ensuring strong adherence to local site specificities
- Maximize the value of centralized activities whilst still developing local initiatives and retaining autonomy
- Develop an evolutionary digital ecosystem that delivers immediate value but also supports incremental use cases developed through Agile mindset/methods

Solution

- Deployed the AVEVA™ PI System asset framework and PI Vision at the core its our digital ecosystem
- Developed a detailed and robust attribution of central and local roles and followed an Agile approach with monthly sprints to deliver use cases

Results

- **Reduced maintenance cost by 25% and operational equipment effectiveness (OEE) breakdown losses by 50%**
- **Reduced batch duration variability by 60% in just 3 months**
- **Time to replicate much faster after 1st implementation, e.g. OEE solution from 26 weeks to 5 weeks, and internal “Batch Watcher” solution from 11 weeks to 4 weeks**

Questions?

Please wait for the microphone.

State your name and company.

Please remember to…

Navigate to this session in the mobile app to complete the survey.

Thank you!

Batch Watcher Example