



# **AIOTI Signature Event: Industry 4.0 and Digital Transformation – where OT meets IT**

29<sup>th</sup> of September 2020

Joline Jammaers – Senior Data Scientist





Data doesn't drive the world. People do. Decisions do.



# IoT Analytics

What Do We Need

**Data without**



**Analytics**

**has No Value!**

# IoT Analytics

What Do We Need

**Analytics without**



**Data**

**is Not Possible!**

“

*The amount of industrial data in the world will **quadruple** in the next five years - and so will the opportunities that come with it.*

...

*But the reality is that 80% of industrial data is still collected and never used. This is pure waste.*

”

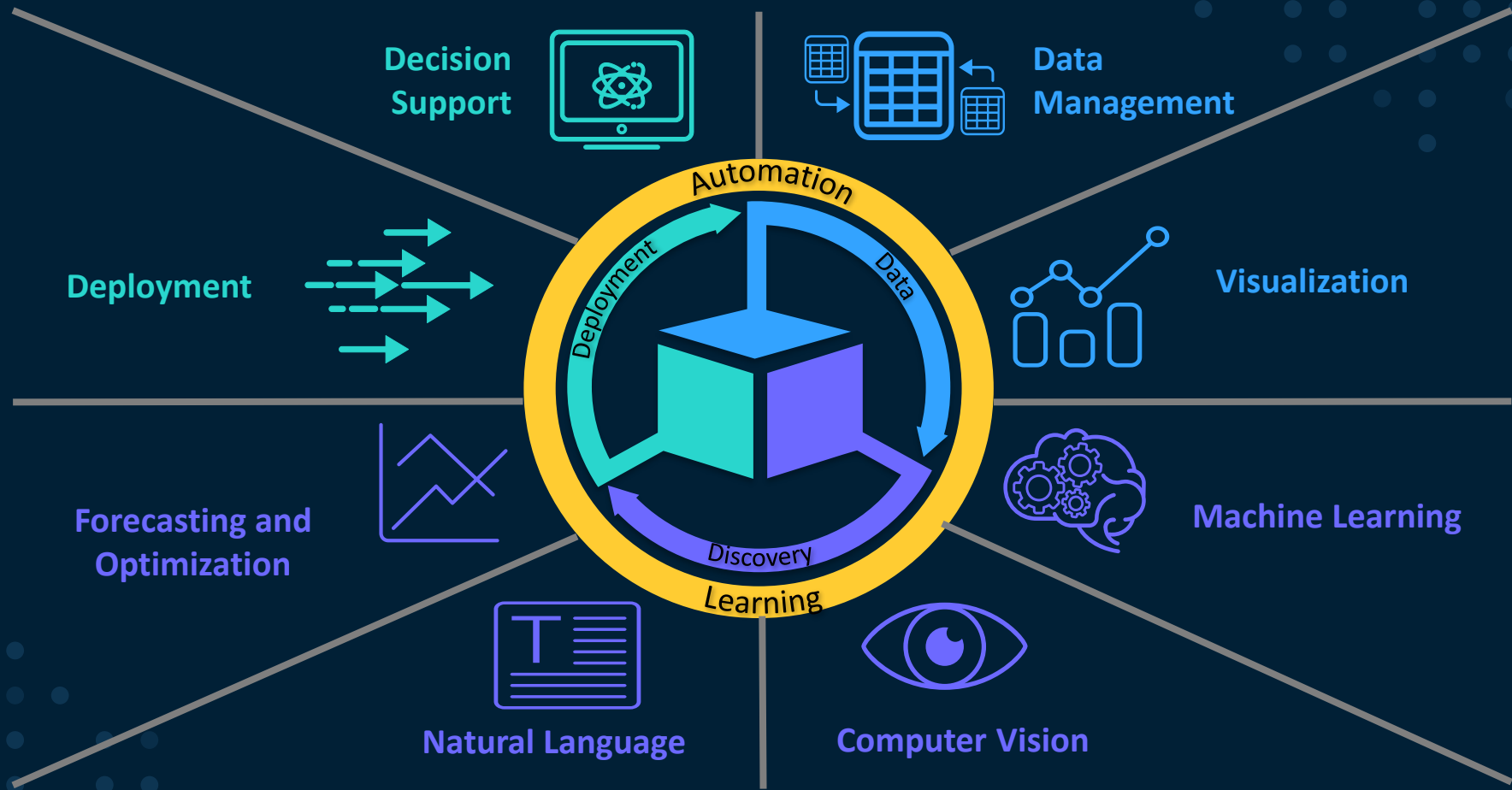
Ursula von der Leyen

16<sup>th</sup> of September 2020



# ACCELERATE

## The Analytics Life Cycle

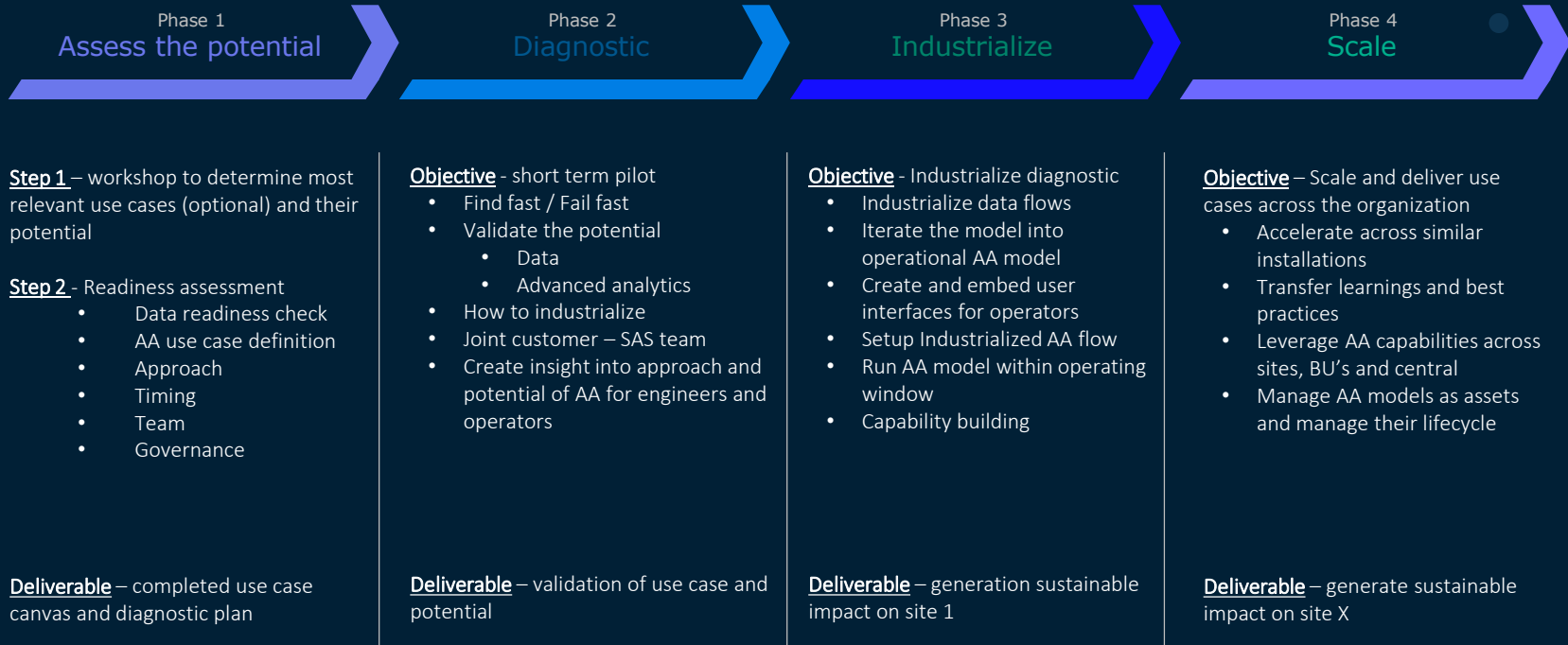


# Use Case – Solvay: manufacturing 4.0

## Digital transformation



# Approach – from idea to scaled solution



★ GO/NO-GO Diagnostic

★ GO/NO-GO Industrialization

# Our mission: Asking more from Chemistry by Leveraging Advanced Analytics

## Context Solvay - SAS joint mission so far...



Spinetta (IT) – Speciality Polymers

1. Spinetta – Case 1

2. Spinetta – Case 2

- ✓ First Collaboration SAS-Solvay (teaming with McKinsey)
- ✓ Case 1 - Applying machine learning models to determine key variability drivers and optimize them to provide optimal setpoints to maximize yield
- ✓ Case 2 - Applying AA models to determine process drivers and optimize production schedule in order to maximize margins (link commercial)

Continuous process

Results Delivered



Tavaux (FR) – Speciality Polymers

3. Tavaux – Case 1

4. Tavaux – Case 2

- ✓ Case 1 and 2 - Determine key process drivers and settings for golden batch production, optimize batch sequencing and predict variability and clashes.
- ✓ Insights available in Control Room Dashboard, largest SAS dashboard in the world.

Batch process

Results Delivered



Torrelavega (ES) – Soda Ash

5. Torrelavega – Case 1

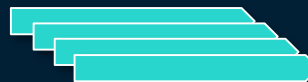
- ✓ First collaboration SAS - Soda Ash
- ✓ Yield optimization to increase OEE
- ✓ Apply Advanced Analytics models to explain process variability and optimize process drivers
- ✓ Insights available in continuously refreshed Control Room Dashboard

Continuous process

Results Delivered



Accelerate and Scale Digital Roll-out



- ✓ Scaled Global Delivery
- ✓ Implementation Partner led roll-out



**Thank You!**  
**Joline.jammaers@sas.com**

sas.com

