

# 12201 - Upgrade MES @ Specialty Polymers

## Project details

<b>Phase</b>	<input checked="" type="checkbox"/> Envision <input checked="" type="checkbox"/> Strategize
<b>Status</b>	IN PROGRESS
<b>Start Date</b>	<i>Enter the starting date of your initiative, by clicking on the calendar icon below - when you started to work on different step of the initiative</i> 13 Mar 2023
<b>Initiative name</b>  <i>ID Provided by DT PMO</i>	<b>Upgrade MES @ Specialty Polymers</b> #12201
<b>Description of the initiative</b>	<p>Review, modernize and standardize the manufacturing execution systems (MES) of the GBU to ensure a smooth implementation of the GBU Digital Roadmap (a.o. Star Tek).</p> <p>These upgrades are absolutely needed for all the PI Historians, in order to support the migration from PI Process book (decommissioning is end of 2023) to PI vision. For IP21 in Panoli, it is also needed because as long as cloud connection to Star TEK will be a difficulty for this site, there must be a very good local historian IP21 to allow development of advanced features.</p>
<b>Domain &amp; Product</b>	
<b>Requested Domain Journey / Platform</b>	<input type="checkbox"/> Platf1- Data & Analytics & AI Platform <input type="checkbox"/> Platf2 A- Develop, Test & Deploy Platform <input type="checkbox"/> Platf2 B- Multi experience Platform <input type="checkbox"/> Platf2 C- Ent. Business Systems Platform <input type="checkbox"/> Platf3 A- Ecosystem Platform <input type="checkbox"/> Platf3 B- Hybrid & Cloud Platform <input type="checkbox"/> Platf3 C- Intelligent Asset Platform <input type="checkbox"/> Platf4- Info Security and Compliance Platform <input type="checkbox"/> Platf5- Workplace Platform  <input type="checkbox"/> Journ1- Digital Customer Journey <input checked="" type="checkbox"/> Journ2- Digital Ops & Corporate Enablement Journey <input type="checkbox"/> Journ3- Digital Employee Journey <input type="checkbox"/> Journ4- Prepare the Future & Connected Research Journey  <input type="checkbox"/> DTmng3- DT Enablement & Transformation

<b>Involved Domain Journey/ Platform</b>	<input type="checkbox"/> Platf1- Data & Analytics & AI Platform <input type="checkbox"/> Platf2 A- Develop, Test & Deploy Platform <input type="checkbox"/> Platf2 B- Multi experience Platform <input type="checkbox"/> Platf2 C- Ent. Business Systems Platform <input type="checkbox"/> Platf3 A- Ecosystem Platform <input type="checkbox"/> Platf3 B- Hybrid & Cloud Platform <input checked="" type="checkbox"/> Platf3 C- Intelligent Asset Platform <input type="checkbox"/> Platf4- Info Security and Compliance Platform <input type="checkbox"/> Platf5- Workplace Platform  <input type="checkbox"/> Journ1- Digital Customer Journey <input type="checkbox"/> Journ2- Digital Ops & Corporate Enablement Journey <input type="checkbox"/> Journ3- Digital Employee Journey <input type="checkbox"/> Journ4- Prepare the Future & Connected Research Journey  <input type="checkbox"/> DTmng3- DT Enablement & Transformation
<b>Initiative Ownership</b>	
<b>Digital Technology Partner</b>	Didier Dago
<b>Product Manager / Service Delivery</b>	Gaëtan Frenoy * Jean-Luc Rosse
<b>Roadmap &amp; Key objectives</b>	
<b>Roadmap</b>	Manufacturing Operations
<b>2023 Digital Technology Key objective</b>	Modernize MES infrastructure
<b>Priority</b>	P1 Must Do

## Phase 1: Envision - High level initiatives



Do

- Create Envision brief if the initiative is part of the validated roadmap
- Highlight roadmap value
- Request a budget for Strategize if you need one
- [Security scoring](#)
- [RADAR/SENTRI](#)



Don't

- Request platform resources if the business capability is already identified and clear
- Write portfolio epics, epics and user stories
- Identify squad resources

# First, let's start with the Problem space

## 1.1. Reason

\* Why is this initiative proposed today?

These upgrades are absolutely needed for all the PI Historians, in order to support the migration from PI Process book (decommissioning is end of 2023) to PI vision. For IP21 in Panoli, it is also needed because as long as cloud connection to Star TEK will be a difficulty for this site, there must be a very good local historian IP21 to allow development of advanced features.

## 1.2. Benefits

What are the new capabilities expected?

- Modern MES system
- No obs
- Supported MES system
- Connection to Star Tek infrastructure

What will it replace? Is it a new solution or an existing one?

Legacy MES systems:

- West Deptford (PI 2010)
- Panoli (IP21 8.7)
- Augusta PI 2016R2
- Greenville SC
- Kallo PI 2015 R2
- Orange PI 2016R2
- Oudenaarde PI 2012

## 1.3. Target users

Who are the future users?

What is the number of users impacted?

## What about the Business Needs?

### 1.4. Value proposition

What is the value of the initiative?

### 1.5. Business goals

How does the product / deliverable align with the business goals?

### 1.6. Challenges

Are there any challenges in developing the product?

## 1.7. Business metrics

How will we measure success?

## 1.8. Cybersecurity

Please duplicate [this template](#) in [this folder](#) . Then, for the envision phase , answer to the 7 high-level questions in the "Security Scoring" sheet. These questions will help the SIP team to determine the level of cybersecurity & compliance support you will need. Please contact the team by email: @ [SIP\\_team@solvay.com](mailto:SIP_team@solvay.com)

## 1.9. Up to investment

What is the coherent time to commit on the initiative?\*

Estimated Delivery phase start date*	Estimated Delivered end Quarter*
02 Oct 2022	Q3 2023

What is the coherent money to commit on the initiative?\*

	2023 (in K€)*	2024 (in K€)*	2025 (in K€)
Estimated size of investment (high level)	207	300	

What is the coherent run and build commit on the initiative?

Estimated run costs (estimation high level) - on 10Y (if already known)	Type of savings expected /year for DT (Ex: Contracts, FTE, ...)
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## 1.10. Resources

What skills and talents do we need?

## 1.11. Methodology to apply (refer for Accolade)

Do you think if your initiative is compatible with a waterfall approach or with an agile approach?

- Agile model
- Waterfall model
- I do not know at this stage

If the initiative will be done in Agile methodology, please contact during the strategize phase [Nicolas LOVAGNINI](#)

## Phase 2: Strategize



Do

- Identify portfolio epics and epics within each portfolio epics
- Create a document / slide / spreadsheet to build your epics and put a link in the brief
- Estimate experts and budget by portfolio epics or by increment
- Show SMART KPI (Specific, Measureable, Achievable, Relevant, and Time-Bound)
- Evaluate the impact on Solvay One Planet objectives



Don't

- Identify squad resources (naming)
- Write user stories

## Now, we can move on to the Solution space

### 2.0 Scope / Deliverables

What is the scope (technical, functional & organizational) / deliverables foreseen?

MES upgrade is a prerequisite to implement Star Tek according with SpP roadmap - After an initial survey, we found the existing infrastructure not to be ready for the migration - In agreement with SpP, we identified infra investment to be performed in 2023 and postponed to 2024 budget most of the upgrade activities

### 2.1. Actions to complete

Mandatory actions * (please contact them together if possible)		
Description of the action / task	Contact	Document & examples (please make your own copy and insert new link here)
Contact each relevant pool lead to book resources in the capacity planning tool <input type="checkbox"/> check once done to inform the contact <a href="#">ARPIN, Florine</a> <b>06 Jan 2023</b>	ARPIN, Florine	Complete <a href="#">Capacity planning tool</a>
Complete Accolade <input type="checkbox"/> check once done to inform the contact <a href="#">Claire Bazin</a> <b>06 Jan 2023</b>	Claire Bazin	Complete <a href="#">Accolade</a>
Review with Enterprise Architect the actual solution answering the objective <input type="checkbox"/> check once done to inform the contact <a href="#">Françoise BERGAME</a> <b>06 Jan 2023</b>	Françoise BERGAME (Structure)	Complete Architecture Impact Analysis (AIA) <a href="#">ARB &amp; AIA</a>
Check you have confirmed the involvement of each platform		Revert to SDM of each Platform
Identify security needs (Confidentiality, Integrity, Availability) and define security measures to be implemented by the initiative team <input type="checkbox"/> check once done to inform the contact <a href="#">Benjamin POISSONNET</a> <b>06 Jan 2023</b>	Benjamin POISSONNET	Complete " <a href="#">SIP Support tool</a> "
Support for budget estimation (via the Workload & Cost), Financial evaluation (Total Cost of Ownership over 10Y), saving validation <input type="checkbox"/> check once done to inform the contact <a href="#">Jill Wilson</a> <b>06 Jan 2023</b>	Jill Wilson	W&C: to be filled in to Accolade in preparation phase TCO over 10Y: <a href="#">xxxx - Business Case/Financial evaluation 10Y</a>

Optional		
If any relation needed with a supplier <input type="checkbox"/> check once done to inform the contact <b>BLANCHER, Alexis</b> 06 Jan 2023	BLANCHER, Alexis	
If it concerns a key supplier, a sourcing strategy has to be defined <input type="checkbox"/> check once done to inform the contact <b>Isabelle Auboeuf</b> 06 Jan 2023	Isabelle Auboeuf	
If conformity by design is required <input type="checkbox"/> check once done to inform the contact <b>Emmanuelle Bureau</b> 06 Jan 2023	Emmanuelle Bureau	GMP (pharma), ISO
If Data Governance is required: identify the business objects <input type="checkbox"/> check once done to inform the contact <b>Philippa de Glanville</b> 06 Jan 2023	Philippa de Glanville	Data Governance Strategise for Initiative Briefs

## 2.2. Users needs

### What do users dislike about the current solution?

Applicable when a new solution is developed

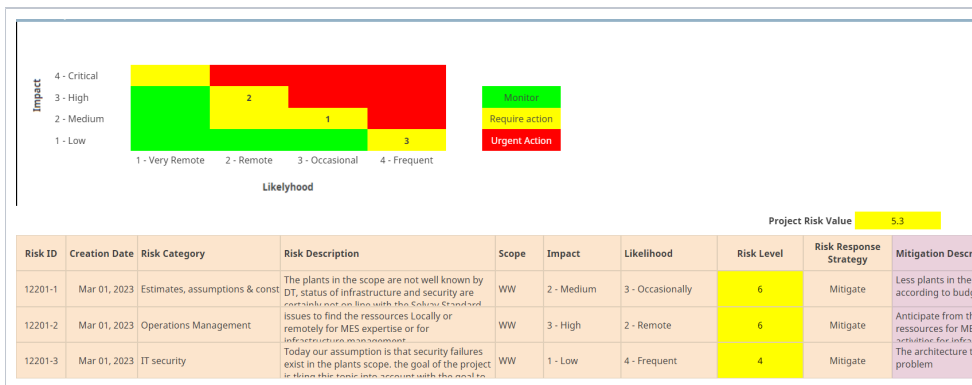
### What tools or features do your users wish to have?

### What value will it add to the user's lives?

### What alternative do we have?

## 2.3. Risk Analysis

### What are the risks (refer to Risk analysis matrix in Accolade)?



## 2.3. Solvay One Planet Objectives

**What is the qualitative assessment of Hardware/ Data processing/ Project's contribution to Solvay One Planet?**

- Is the business ambition you will support improving or not sustainability?N/A
- Will you increase or decrease the number of hardware we need to operate? How much ?N/A
- Will you generate or transfer an important amount of data, especially videos? How much?N/A