



HYPPPOS

**Advanced Material Tracking and Analytics
Next Generation Solutions for Process Industries**

Value Proposition

Boost revenue
through reduction of
production losses
by up to **40%**

* According to experience of our customers



Value Proposition

By leveraging HYPPOS, manufacturers can significantly enhance operational efficiency, ensuring substantial cost savings and increased revenue streams

Direct Benefits Range	Tonnes	€
Reduction of off-grade and increases of prime	880	€96,800
Reduction of Transition Loss	200	€46,000
Off-grade due to problems with MFR	220	€24,200
Reduction of loss due to shut-down and start-up	50	€5,500
Total	1,350	€172,500

* Benefits for average PP plant in EU (220kta)



Value Proposition

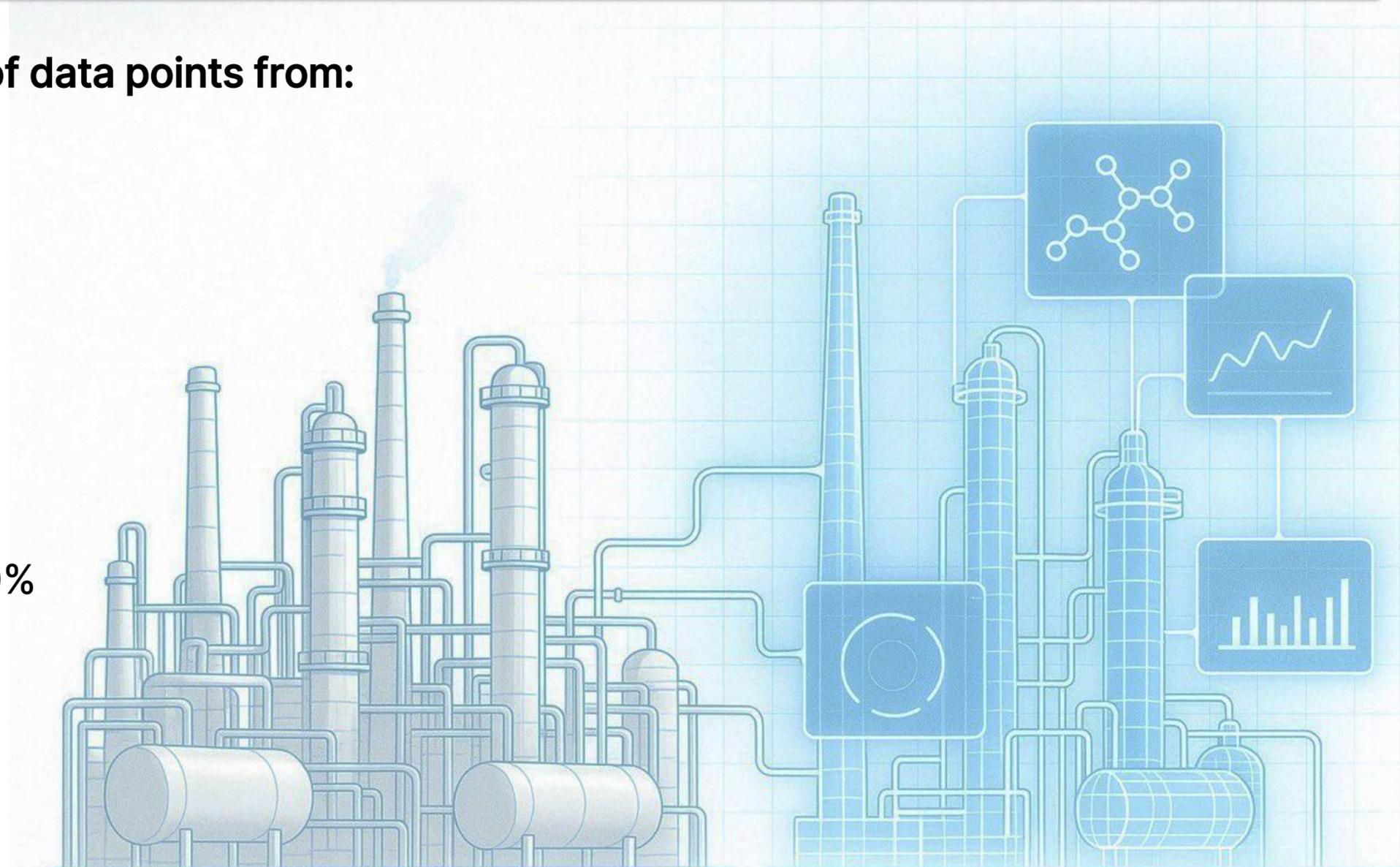
 **HYPPPOS** powers a Digital Twin of your chemical process, driving the core of your Smart Factory transformation

It processes, combines and models thousands of data points from:

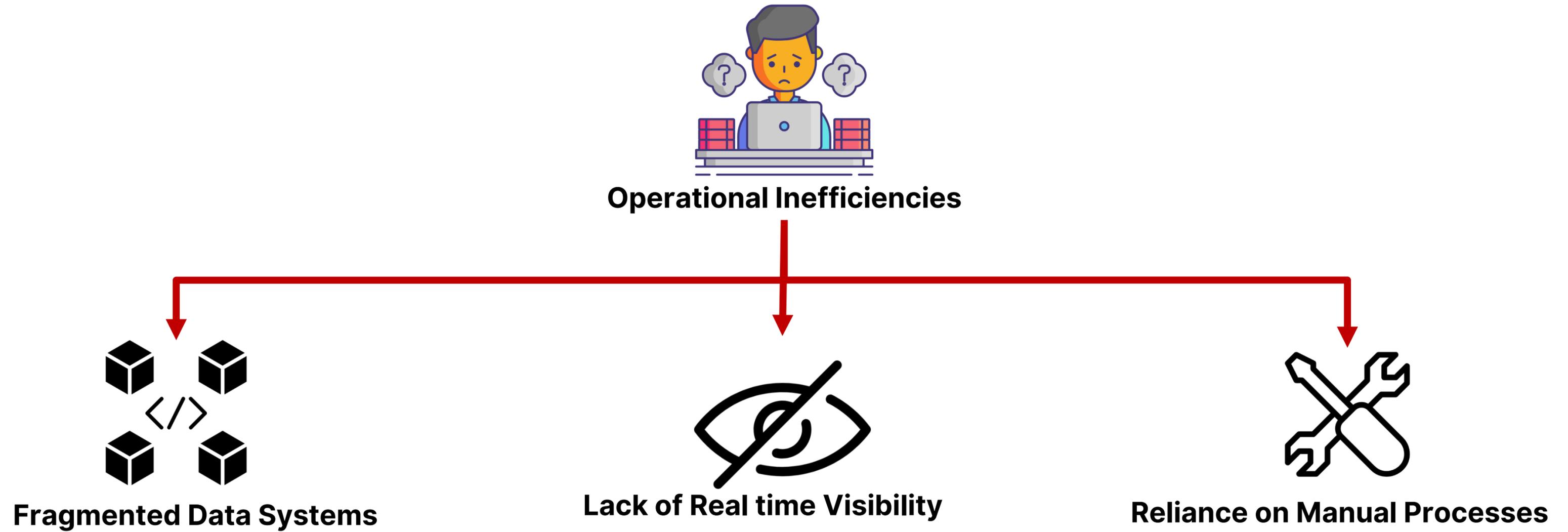
- DCS and LIMS systems
- Material Tracking powered by  **HYPPPOS**
- Online Analyzers
- Soft Sensors powered by  **HYPPPOS**
- 3rd party data models
- Users

In return it:

- Helps to lower production losses by up to 40%
- Predicts and tracks quality
- Traces material movements
- Digitalizes batch record
- Supports informed decisions



The Problem: The Digital Divide in the Process Industries



Result: 1 Reduced Profits 2 Increased Waste

The Solution: Bridging the Gap with Intelligent Integration

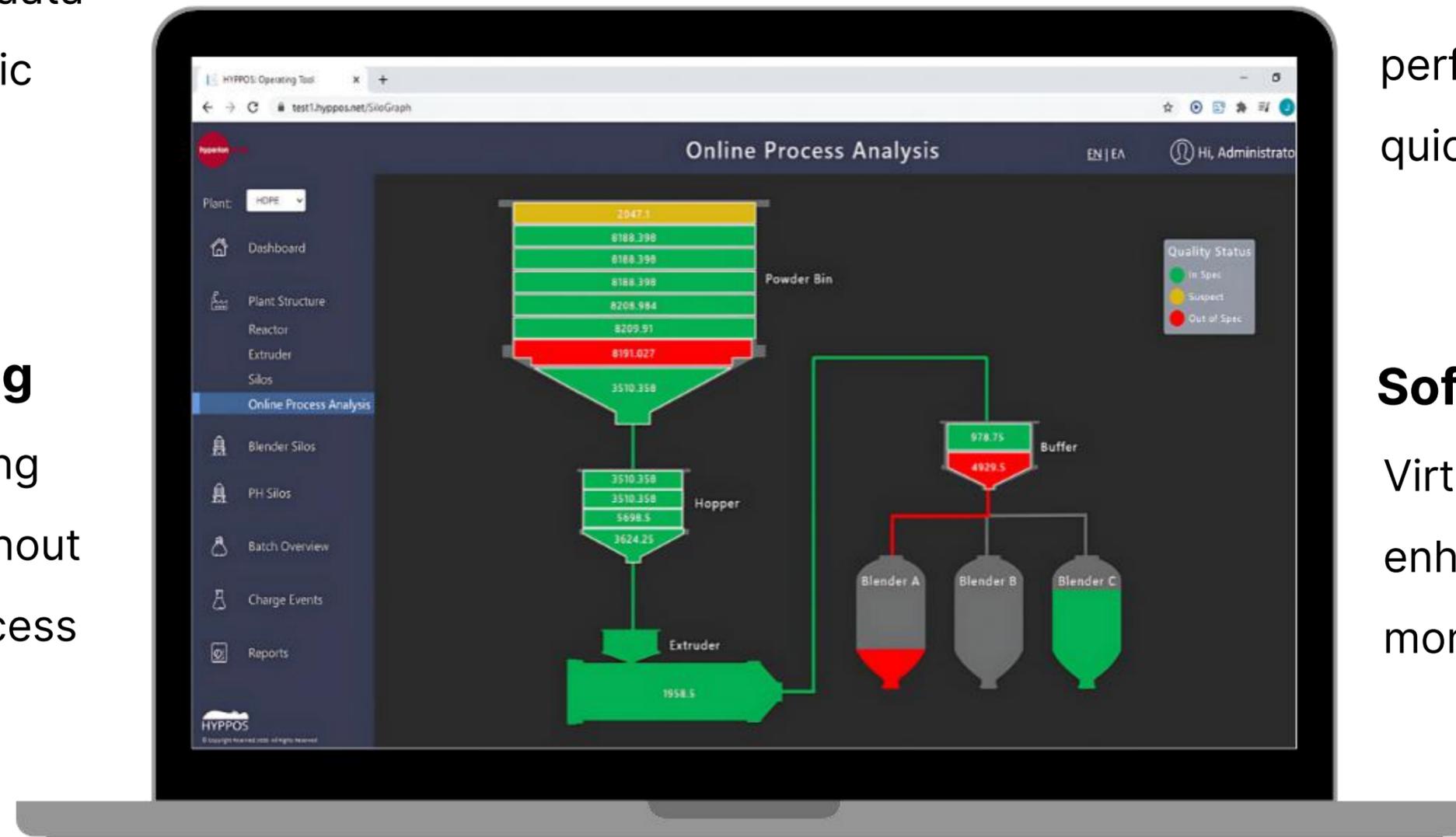
Data Consolidation

Unifying disparate data sources for a holistic view of operations

Material Tracking

Real-Time monitoring of materials throughout the production process

On-line Decision Support Tool



KPI Monitoring

Continuous tracking of key performance indicators for quick decision-making

Software Sensors

Virtual sensors for enhanced process monitoring and control

Unifying data, predicting outcomes, and optimizing operations for a sustainable future

HYPPOS: How it Works

HYPPOS helps to achieve high-quality batches from the very first attempt — saving costs on rework, minimizing waste, and lowering CO2 footprint as result.



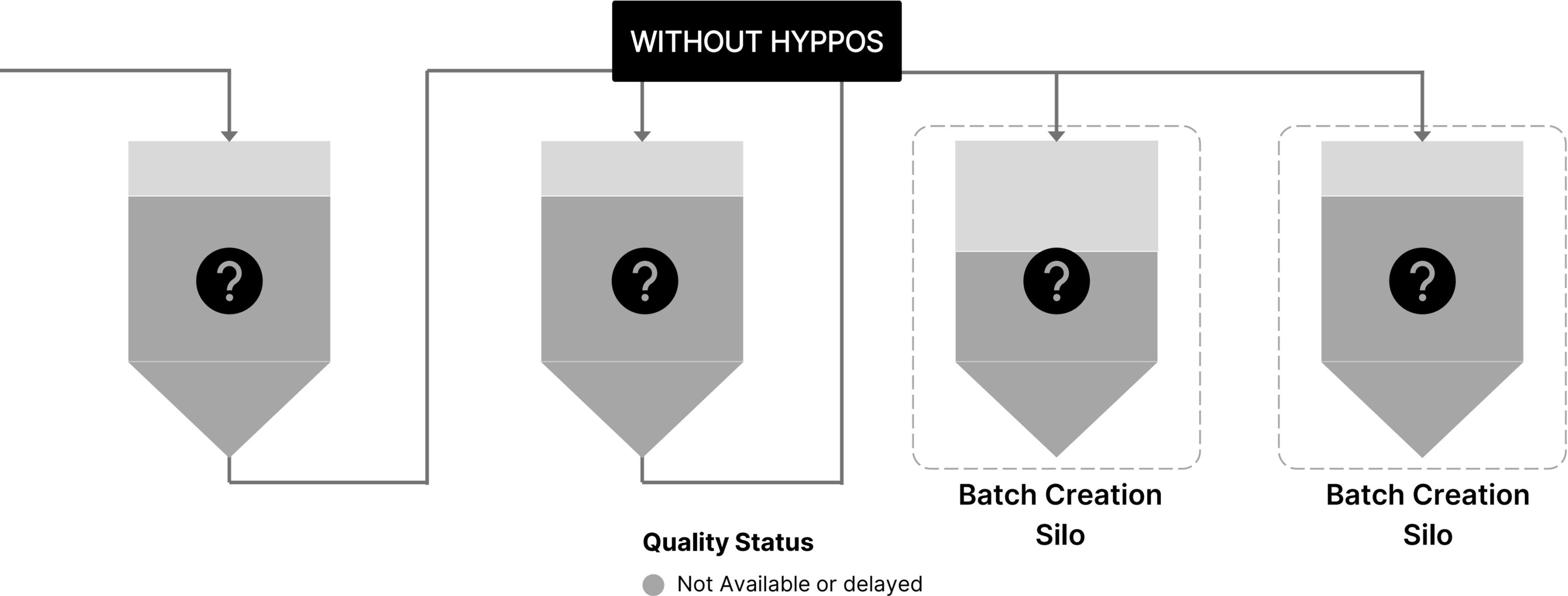
First-Attempt quality over:

- ① Full transparency of the process through our unique Digital Twin
- ② Predictive analytics through our unique AI/ML models
- ③ Streamlined traceability through data aggregation
- ④ Data driven and supported decisions

First-Attempt Quality: Maximizing Profit, Minimizing Waste

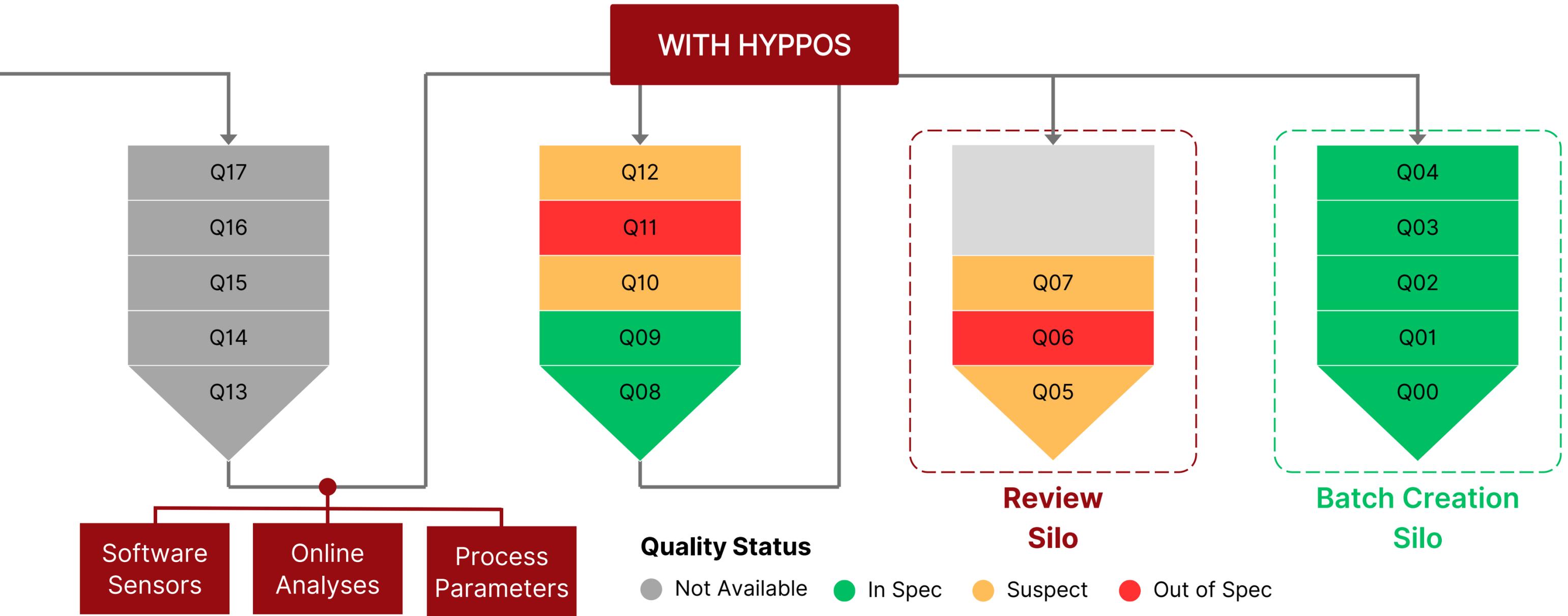
HYPPOS: How it Works

HYPPOS utilizes advanced algorithms of continuous flow discretization and AI/ML technologies to provide precise, real-time material tracking and quality monitoring throughout the entire continuous and semi-batch manufacturing processes



HYPPOS: How it Works

HYPPOS utilizes advanced algorithms of continuous flow discretization and AI/ML technologies to provide precise, real-time material tracking and quality monitoring throughout the entire continuous and semi-batch manufacturing processes



HYPPOS: Software Sensors

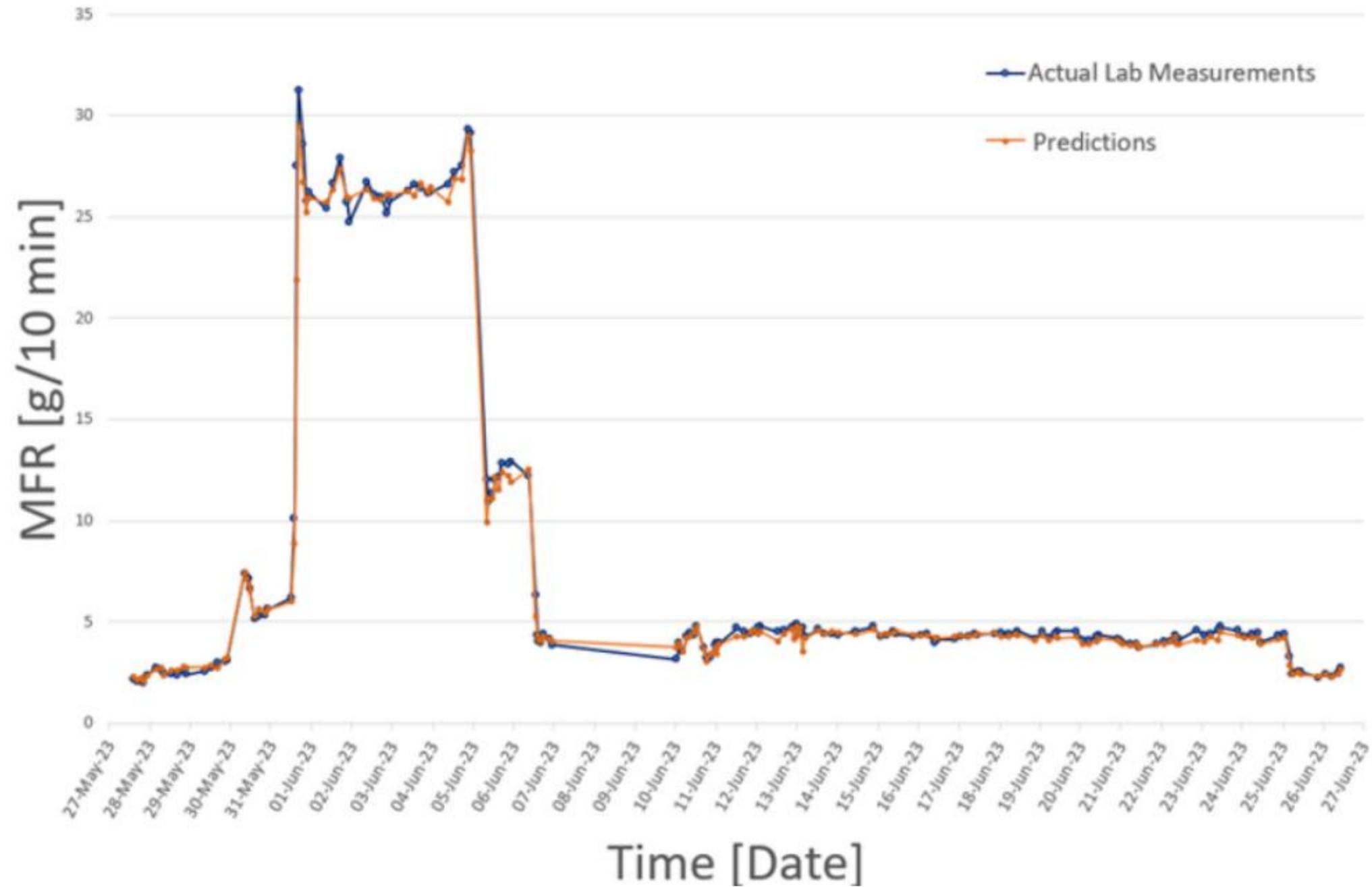
Software Sensors leverage AI/ML technologies to deliver real-time predictive insights, enhancing process optimization and reducing reliance on expensive physical sensors

	Software Sensors	Physical Sensors
Methodology	Uses machine learning algorithms to infer measurements from existing data	Utilizes hardware devices to directly measure physical properties
Cost	Low initial setup cost	High purchase cost
Maintenance	Minimal maintenance with no downtime , focused on software updates and algorithm improvements	Requires regular calibration and maintenance of hardware components
Flexibility	Highly flexible , can adapt to infer different types of measurements without additional hardware	Limited to specific measurements based on the installed hardware
Real-Time Analysis	Offers advanced real-time analytics using predictive models and machine learning	Provides real-time data, but is limited to the sensor's physical location and capabilities
Implementation	Faster implementation time as it leverages existing infrastructure and focuses on software deployment	Longer implementation time due to physical installation and setup requirements

We support MFR (Melt Flow Rate) and XS (Xylene Solubles) predictions in polypropylene (PP) production however the models can be adapted to different types of measurements

HYPPOS: Software Sensors

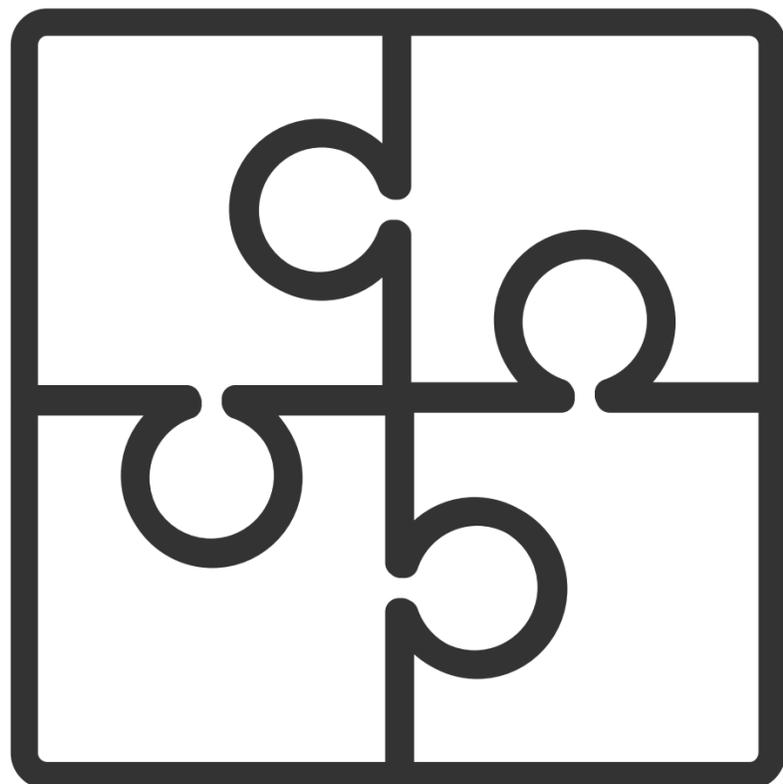
Comparison of Lab measurements and predictions given by Software Sensor:



We support MFR (Melt Flow Rate) and XS (Xylene Solubles) predictions in polypropylene (PP) production however the models can be adapted to different types of measurements

HYPPOS: Quick Adoption

HYPPOS is delivered fully configured to your site and ready to use typically in 3 months after project start



We ask you a few questions

We collect required data from you

We configure Digital Twin and train models for you

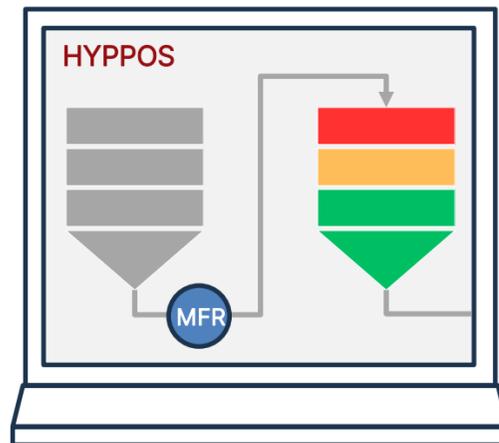
We rollout the solution you can start using immediately

We provide support and deliver new features

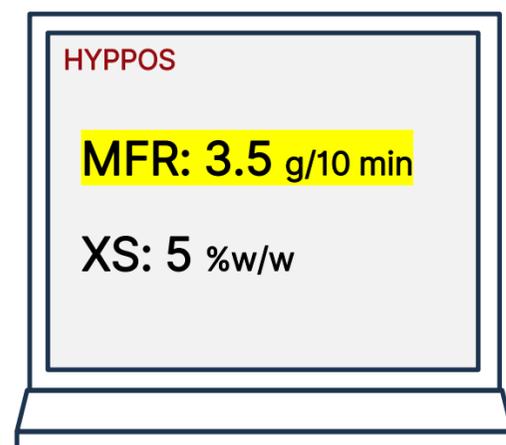
There is no need to hire dedicated specialists to develop, deploy, adjust and manage it from your side.

We cover all of these for you

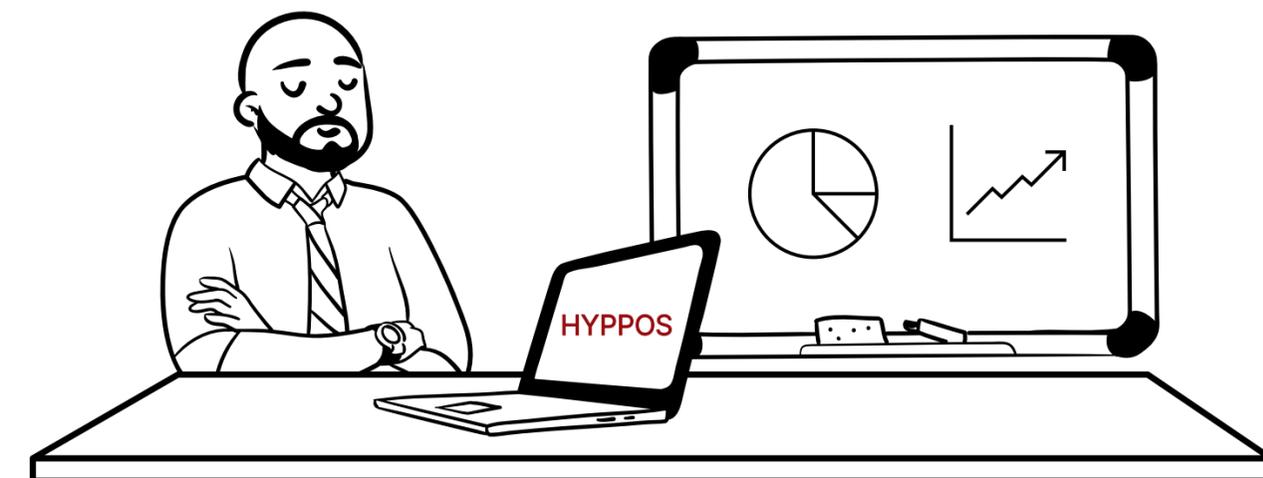
HYPPOS: Users



Fast reaction and decision making in shopfloor due to material tracking visualization and continuously predicted values of MFR and XS

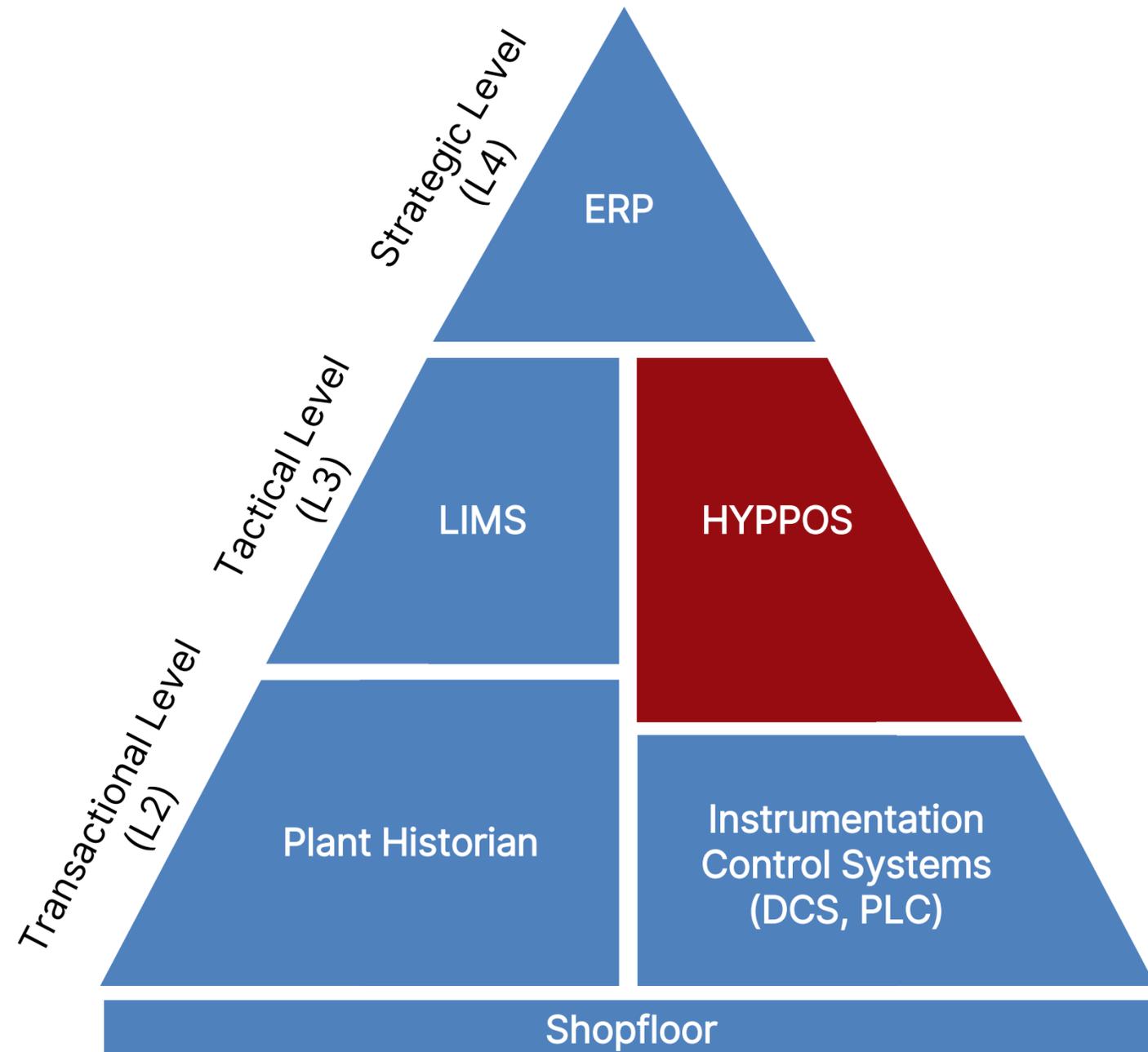


Efficient troubleshooting and performance overview through comprehensive traceability and reporting system (one data in one place)



In polypropylene (PP) production, MFR (Melt Flow Rate) and XS (Xylene Solubles) are two important parameters that help define the properties and quality of the produced polymer

HYPPOS: Place in Production Plant



Production Plant Systems:

Strategic Level (L4)

ERP (Enterprise Resource Planning):

- **Role:** Integrates core business processes.
- **Function:** Manages finance, HR, procurement, production, supply chain.
- **Purpose:** Facilitates strategic planning and decision-making.

Tactical Level (L3)

LIMS (Laboratory Information Management System):

- **Role:** Manages laboratory operations and data.
- **Function:** Sample management, test scheduling, data reporting.
- **Purpose:** Ensures product quality and regulatory compliance.

Transaction Level (L2)

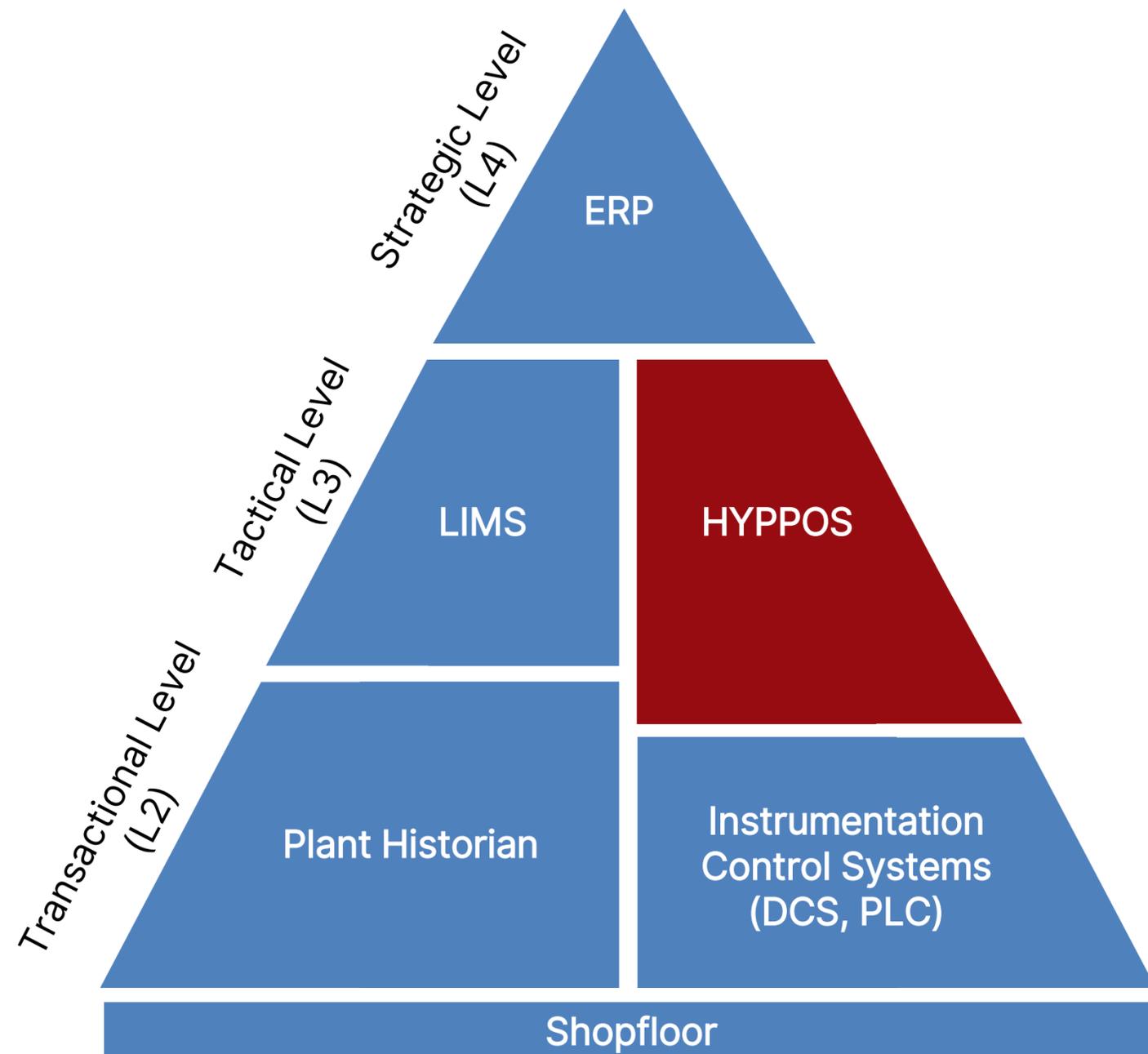
Plant Historian:

- **Role:** Collects and stores real-time process data.
- **Function:** Records temperature, pressure, flow rates, etc.
- **Purpose:** Used for analysis, troubleshooting, and process optimization.

Instrumentation Control Systems:

- **Role:** Manages and regulates manufacturing processes.
- **Function:** Real-time control and monitoring via PLCs, DCS, SCADA.
- **Purpose:** Ensures process stability, safety, and efficiency.

HYPPOS: Place in Production Plant



To accomplish its goals, HYPPOS integrates Production and Business Management Level IT Components of Production Plants:

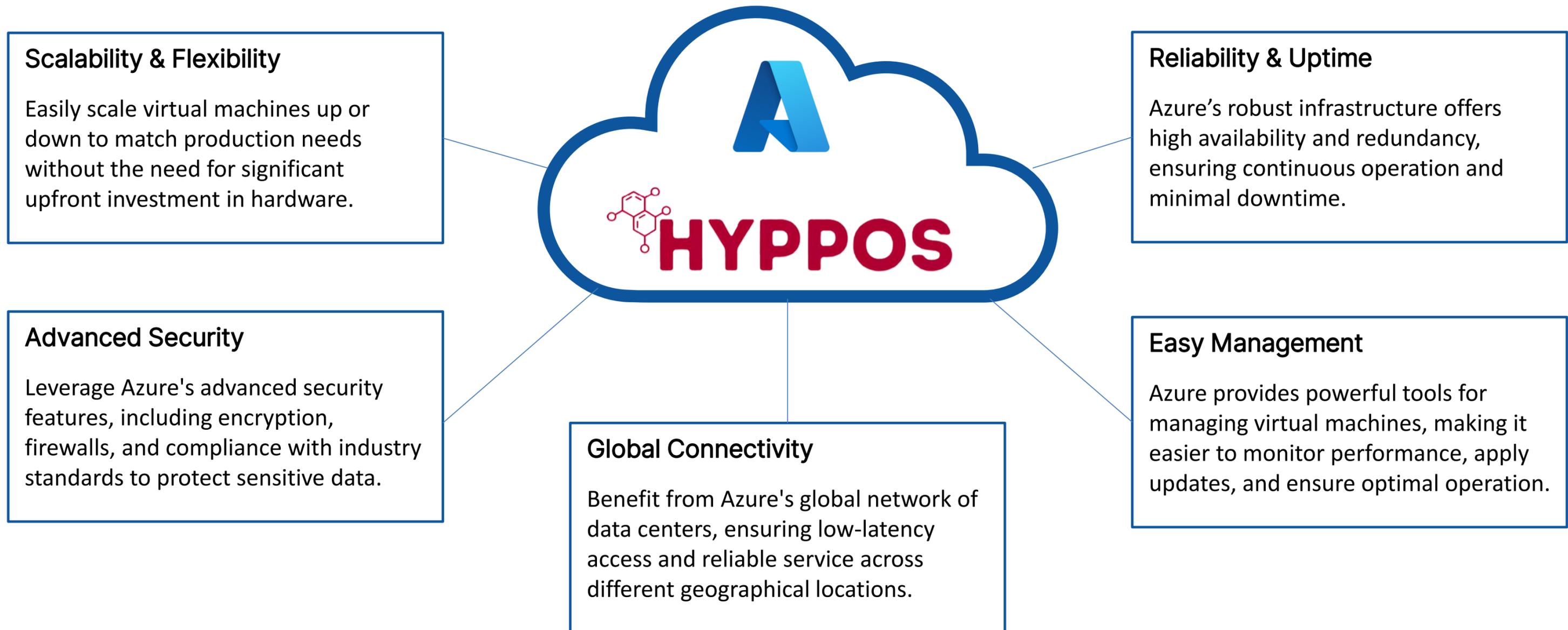
- HYPPOS is positioned at the Tactical and Transactional Management Levels. The core of HYPPOS (Digital Twin of the process) is at Tactical Level and Software Sensors are at Transactional.
- HYPPOS collects data from systems at Transactional Level
- HYPPOS feeds and receives data from Strategic Level systems (e.g. SAP)
- HYPPOS co-exists and interacts with other systems at the Tactical Level (e.g. LIMS)

Currently supported communication protocols:

- OPC-DA
- Custom Web API
- Database-Driven Communication

HYPPOS and Microsoft Azure Cloud

HYPPOS is fully compatible with Microsoft Azure which brings a number of significant benefits for our users and production plants, ensures reliable performance, reducing operational disruptions and enhancing productivity



FINANCIAL BENEFITS POWERED BY HYPPOS



HYPPOS: Benefits use case (220kta PP plant in EU)

By leveraging HYPPOS, manufacturers can significantly enhance operational efficiency, ensuring substantial cost savings and increased revenue streams

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Total	1,350	€172,500

HYPPOS: Benefits use case (220kta PP plant in EU)

Scenario A. Reduction of off-grade and increase of prime

- Capacity of a plant is **220ktpa**
- A total production of off-grade product at **4%** of annual production ($220\text{ktpa} \times 4\% = 8,800\text{t}$)
- HYPPOS helps to achieve **10%** reduction of off-grade and remaining in prime, i.e. **880t**
- The difference in gross margin is calculated as **110€/t**, that is 230€/t prime margin minus 120€/t off-grade product margin
- 880t at a gross margin difference of 110€/t amounts to a benefit of **€96,800** per annum

* We assume here the off-grade product still can be sold at a lower price

HYPPOS: Benefits use case (220kta PP plant in EU)

Scenario B. Reduction of Transition Loss

- Capacity of a plant is 220ktpa
- HYPPOS helps to achieve **20%** reduction of prime loss in transition
- The average annual loss is 1,000t.
- 20% of 1,000t = 200t that at a gross margin of 230€/t amounts to a benefit of **€46,000**

HYPPOS: Benefits use case (220kta PP plant in EU)

Scenario C. Off-grade due to problems with MFR during normal operating conditions

- Capacity of a plant is **220ktpa**
- At least one batch per annum (220t) can be saved due to prediction of MFR by HYPPOS
- The difference in gross margin is calculated as **110€/t**, that is 230€/t prime margin minus 120€/t off-grade product margin
- 220t that at a gross margin difference of 110€/t amounts to a benefit of **€24,200** per annum

* We assume here the off-grade product still can be sold at a lower price

HYPPOS: Benefits use case (220kta PP plant in EU)

Scenario D. Reduction of loss due to shut-down and start-up

- Capacity of a plant is **220ktpa**
- 50t can be saved on shut-down and start-up due to prediction of MFR by HYPPOS
- The difference in gross margin is calculated as **110€/t**, that is 230€/t prime margin minus 120€/t transition product margin.
- 50t that at a gross margin difference of 110€/t amounts to a benefit of **€5,500**.

* We assume here the off-grade product still can be sold at a lower price



ADDITIONAL BENEFITS POWERED BY HYPPOS

Additional Benefits Powered by HYPPOS

Benefit	Description
Improved Inventory Management	Integration with ERP can help to optimize raw materials management. The precise quantities of consumed materials will be reported to ERP after each batch finalization. It will keep stock always up-to-date.
Traceability	Real-time material tracking and data collection enable efficient traceability of production process. At any time, production quality must be investigated, HYPPOS saves significant time and human resources on troubleshooting and investigation of a root-cause.
Digital Workflows	Configurable guidance and supervision for plant personal helps to avoid human mistakes and ensures all operations are done in a right moment, with correct parameters, and in expected sequence.
Reporting	Comprehensive scalable and configurable reporting system provides access to full production overview including Batch Summary Report, Detailed Batch Report, Additives Report, Detailed Production Report, KPI Report, and Scrap Batch Report.
Scalability	Flexible architecture of the platform allows extensions and add-ons. For example, there can be additional soft sensor implemented at the exit of the extruder to enhance significantly prediction of the quality.
Connectivity	Flexible architecture of the platform allows integration with different systems in a plant. We currently support communication over OPC and data bases, however this list can be extended to fulfill specific needs of specific customer.
Microsoft Azure Cloud Compatibility	This compatibility ensures enhanced scalability, robust security, and seamless interoperability. Additionally, leveraging Azure's global infrastructure supports reliable, low-latency communication across various locations, fostering greater collaboration and responsiveness in industrial operations.
Carbon Footprint	There are several factors where HYPPOS supports reduction of CO2 emissions and contribute into sustainable benefits – from potential taxation reduction to enhancement of market competitiveness and brand value.



CARBON FOOTPRINT BENEFITS POWERED BY HYPPOS

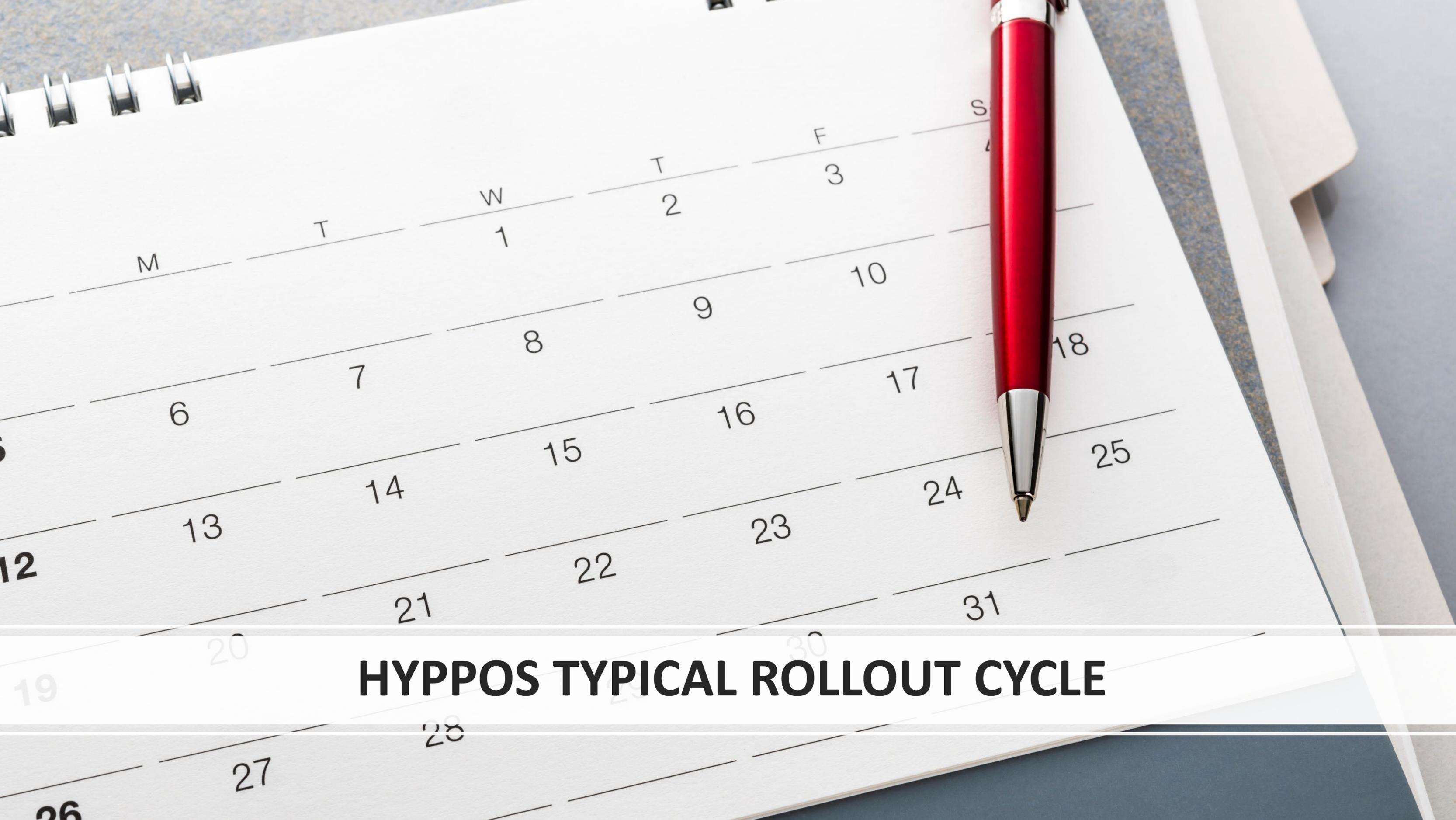


Carbon Footprint Benefits Powered by HYPPOS

Benefit	Description
Tax savings	<p>Exceeding Allowances: If the plant exceeds free allowances for CO2 and reduces emissions by recovering of 1,000 tonnes of material, it could save on avoiding extra taxation.</p> <p>Allowance Price: As of 2024, the price of EU ETS CO2 allowances is approximately €67 per tonne (<i>this price fluctuates, so need to check the latest rates</i>).</p> <p>Tax Savings (ETS): $1,000t * 2.725t * €67/t = €182,575$ in potential savings annually from avoiding extra taxation (<i>2.725 tons of CO2 [average] generated out of 1 ton of PP annually</i>).</p>
Revenue from Selling Surplus Allowances over EU Emissions Trading System (EU ETS)	<p>Here is the additional potential revenue from selling surplus emission allowances.</p> <p>Free Allowances: If the plant operates within free allowances for CO2 and reduces emissions by 2,725 tonnes, it could have 2,725 tonnes of surplus allowances annually.</p> <p>Allowance Price: As of 2024, the price of EU ETS allowances is approximately €67 per tonne (<i>this price fluctuates, so need to check the latest rates</i>).</p> <p>Selling Surplus: $2,725t * €67/t = €182,575$ in potential revenue annually from selling surplus allowances.</p>

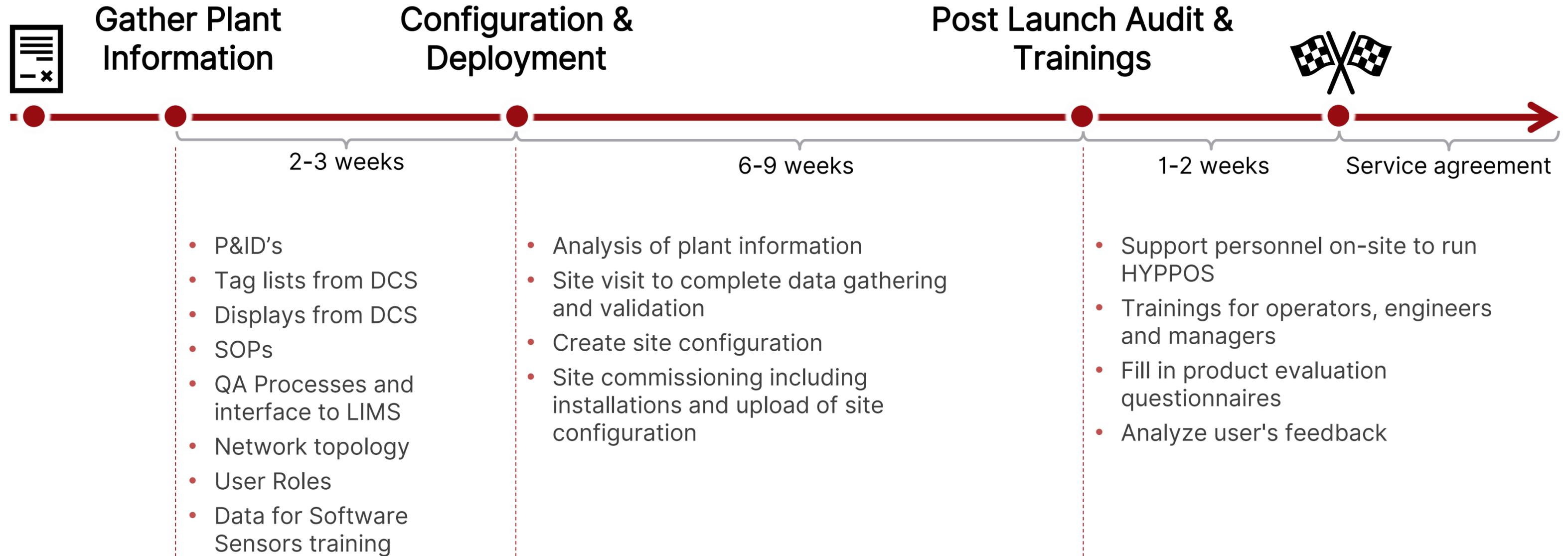
Carbon Footprint Benefits Powered by HYPPOS

Benefit	Description
Avoidance of Future Cost Increases	<p>Early adoption can mitigate future cost increases due to stricter regulations.</p> <p>Increasing LRF: The Linear Reduction Factor (LRF) is set to increase, tightening the cap and likely increasing the price of allowances.</p> <p>Future Price Projections: If the allowance price rises to €100/t by 2026, the same 2,725-tonne reduction would save or generate €272,500 annually.</p>
Access to Funding and Incentives	<p>There are potential benefits from EU funding programs.</p> <p>Innovation Fund and Modernization Fund: Grants can cover 60% of additional costs for acquisition of innovative low-carbon technologies.</p>
Enhanced Market Competitiveness and Brand Value	<p>According to marketing studies</p> <p>Market Data: 66% of consumers are willing to pay more for sustainable products.</p> <p>Brand Value: Companies with strong sustainability practices often see a brand value increase of up to 20%.</p>

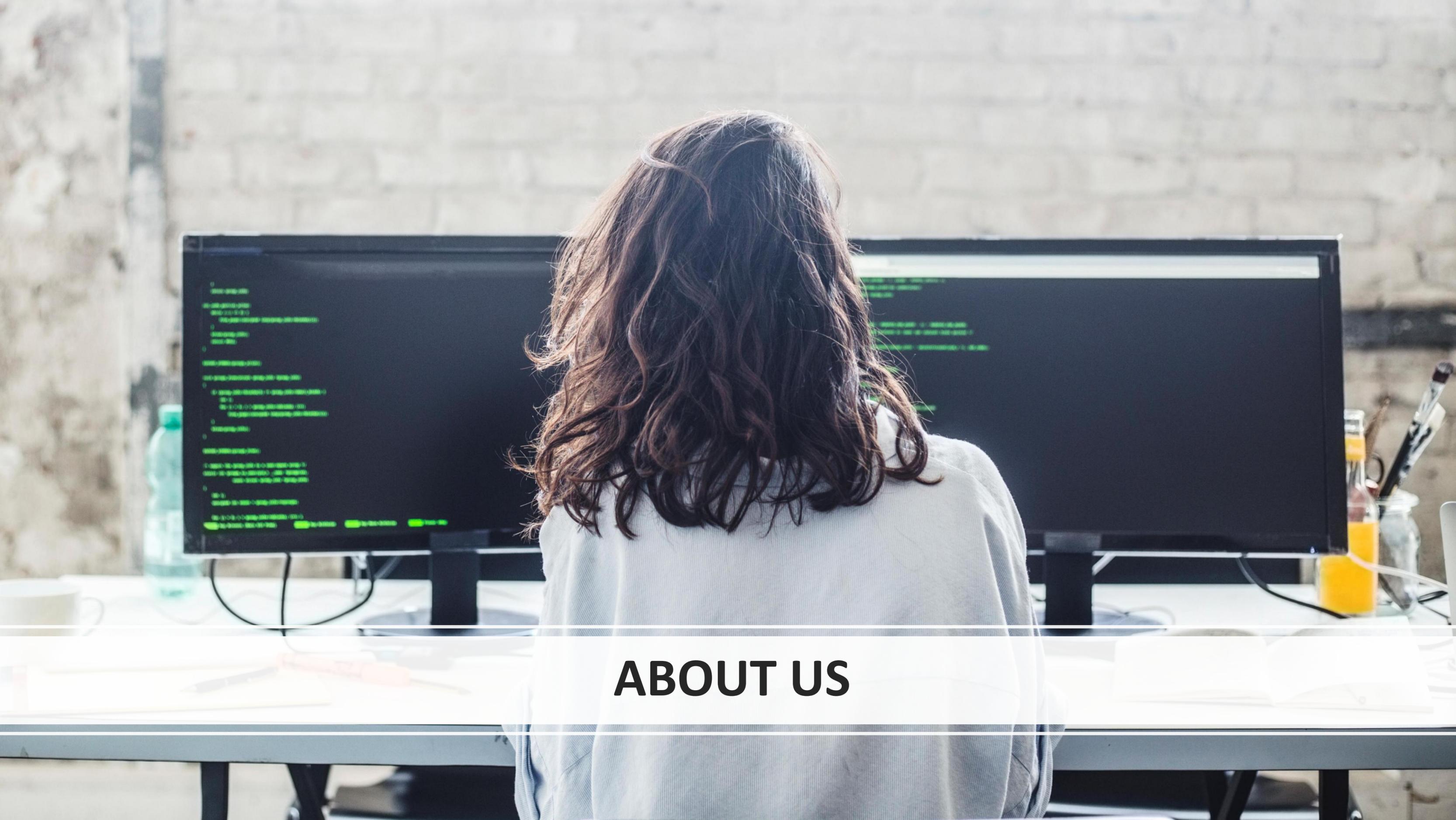


HYPPOS TYPICAL ROLLOUT CYCLE

HYPPOS Typical Rollout Cycle



* Timeline can be different in case of specific requests and complex plant configuration



ABOUT US

Who We Are

Our core team brings together over 135 years of collective industry experience, supported by Hyperion's expertise in global operations in process manufacturing, software development, and business management



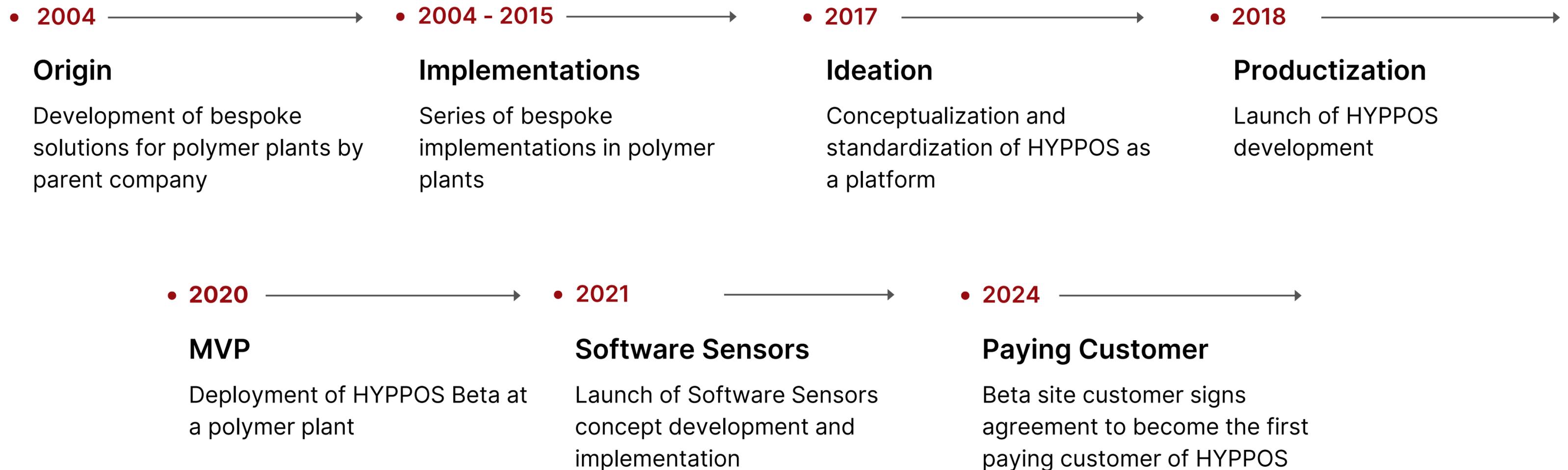
Hyperion Systems Engineering Group

Founder and Shareholder

Hyperion, a global technology and engineering group with over **30 years of industry experience**, has successfully delivered **more than 500 projects across 50+ countries**. Leveraging extensive expertise and established connections in the polymer sector, Hyperion has executed **18 bespoke implementations** similar to HYPPOS. The connection provides **preferential resources and personnel**, ensuring key roles are filled with seasoned professionals. Hyperion's strategic backing underscores HYPPOS's potential and value proposition.

HYPPOS: Journey

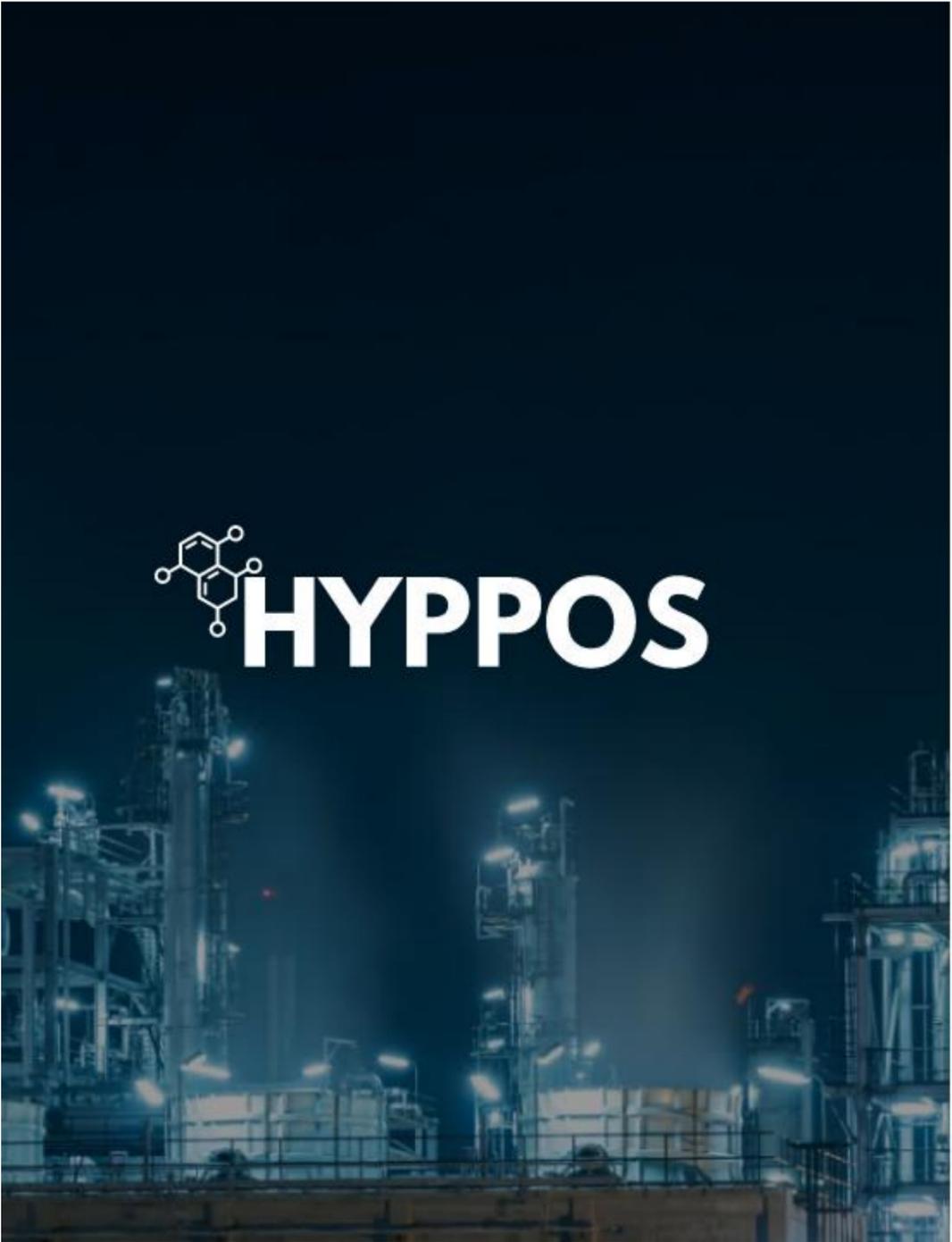
From bespoke solutions to a standardised, award-winning platform, HYPPOS has evolved to drive efficiency and sustainability in manufacturing





UI WALKTHROUGH

HYPPPOS: UI walkthrough



Language: [ENGLISH](#) | [ΕΛΛΗΝΙΚΑ](#)

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HYPPOS: UI walkthrough

The screenshot displays the HYPPOS interface for a process titled "Blenders - D5901B". At the top, there are tabs for blenders D5901A through D5901F, with D5901B selected. Below the tabs is a horizontal process flow with six steps: "Batch Create" (red), "Batch Complete" (yellow), "Batch QA Release" (grey), "Batch Transfer" (grey), "Batch Packing" (grey), and "Batch Quantity" (grey). The flow is represented by a line with checkboxes and numbered nodes (3, 4, 5, 6). Below the flow, a table provides details for the selected D5901B batch.

Description	Value
Weight (kg)	170343.9
Equipment Status	FILLED
Batch Status	CREATED
Grade	HT30D
Official Lot ID	400024

HYPPOS: UI walkthrough

HYPPOS PP_5000

Batches - Overview

Batch Process Select date range

Today (Current Date) Previous Week (20 Jan - 26 Jan) Current Month (01 Jan - Today) Previous Month (December 2024) Previous Trimester (Oct - Dec 2024) Previous Year (2024)

Sort Filter

Batch ID	Batch Process	Silo	Qty. (Ton)	Grade	Silo Status
26378	Batch Packing	D5901A	1.27	HZ10K	FILLING
26377	Batch Quantity	D5901A	1.27	HZ10K	FILLING
26373	Batch Transfer	D5901B	0.57	HZ10K	FILLED
26153	Batch Transfer	D5901D	0.57	HZ10K	FILLED
25846	Batch Packing	D5901E	1.64	HZ10K	PACKING
25833	Batch QA Release	D5901F	4.32	HZ10K	PACKED
25830	Batch QA Release	D5901G	1.06	HZ10K	FILLED

username@company.com ID: XXXXXX

HYPPOS: UI walkthrough

HYPPOS PP_5000

Operations - Charge Events

Charge Events Scrap Batch

← Back to Main Screen

Charge Event Details

ID: 1009 Lot No.: Specify Lot Number Remarks: Specify the amount related to this charge event.

Train: PP_5000_TRAIN Qty. Charged: Specify Quantity Specify Unit

Equipment: D5110AB Bag No.: Specify Bag No.

Material: Select Material Charge Time: 04/06/2024 18:56:49

Modify

Charge Event Items

Material	Lot No.	Percentage	Weight	Units	Bag No.	
Teal	0.45342	58.522	80000.000	kg	-	View

Create New Item

username@company.com [Log out](#) ID: XXXXXX System Message

HYPPOS: UI walkthrough

The screenshot displays the HYPPOS Quality Tracking - Overview interface. The left sidebar contains a navigation menu with items: Home, Blenders (2), Batches, Operations, Quality Tracking (3), Reports, Bag-Silos (1), Plant Structure, and Plant Diagnostics. The main content area shows a process flow diagram with reactors R5301, R5501, and R5502 on the left, and D5802A and D5802B on the right. A green line traces the flow from R5301 through R5501 and R5502 to D5802A and D5802B. The D5802A and D5802B reactors are shown as large vertical tanks with multiple horizontal layers, each representing a different MFR (Material Flow Rate) and Weight. The D5802B reactor has a red layer at the bottom, indicating a warning or error. The bottom of the interface shows a System Message area and a user profile section with the text 'username@company.com' and a 'Log out' button.

Quality Tracking - Overview

Reactor Overview

R5301

R5501

R5502

D5802A

D5802B

MFR	Weight (kg)
MFR: 4.6	1234.567
MFR: 4.6	1502.345
MFR: 4.6	2003.678
MFR: 4.6	1005.123
MFR: 4.85	5061.361
MFR: 4.6	3504.789

MFR	Weight (kg)
MFR: 4.6	2506.456
MFR: 4.6	3708.912
MFR: 4.85	5234.567
MFR: 4.6	4201.789
MFR: 5.2	8532.456
MFR: 4.85	6543.789
MFR: 4.85	7123.456
MFR: 4.6	3902.345
MFR: 4.85	7890.123
MFR: 5.2	9201.789
MFR: 4.85	6789.234
MFR: 4.6	3603.456
MFR: 5.2	10456.123
MFR: 4.6	4604.567
MFR: 4.85	5432.345
MFR: 4.6	1101.234
MFR: 4.6	1203.456
MFR: 4.6	1304.567
MFR: 5.2	10514.789
MFR: 4.6	1405.678

username@company.com Log out

ID: XXXXXX

System Message

HYPPOS: UI walkthrough

HYPPOS PP_5000

Plant Structure - Silos

LOT NO	GRADE	SILO STATUS	LOT STATUS	QUANTITY (Ton)
D5901A		EMPTY		0.32
D5901B		Filling		-0.24
D5901C		EMPTY		0.32
D5901D		EMPTY		3.73
D5901E		EMPTY		0.57
D5901F	25840	EMPTY		0.24
D5903A		EMPTY		0.57
D5903B		filled	QA Waiting	175.11
D5903C	25846 Hz10K	filled	QA Waiting	199.28
D5903D		transferring	Packing	3.66
D5905A		transferring	Packing	0.02
D5905B		transferring	Packing	0.24

Plant Structure

- Silos
- Bulk Silos
- Bulk A - H
- Bulk J - T
- Bulk U - Y

username@company.com [Log out](#) ID: XXXXXX

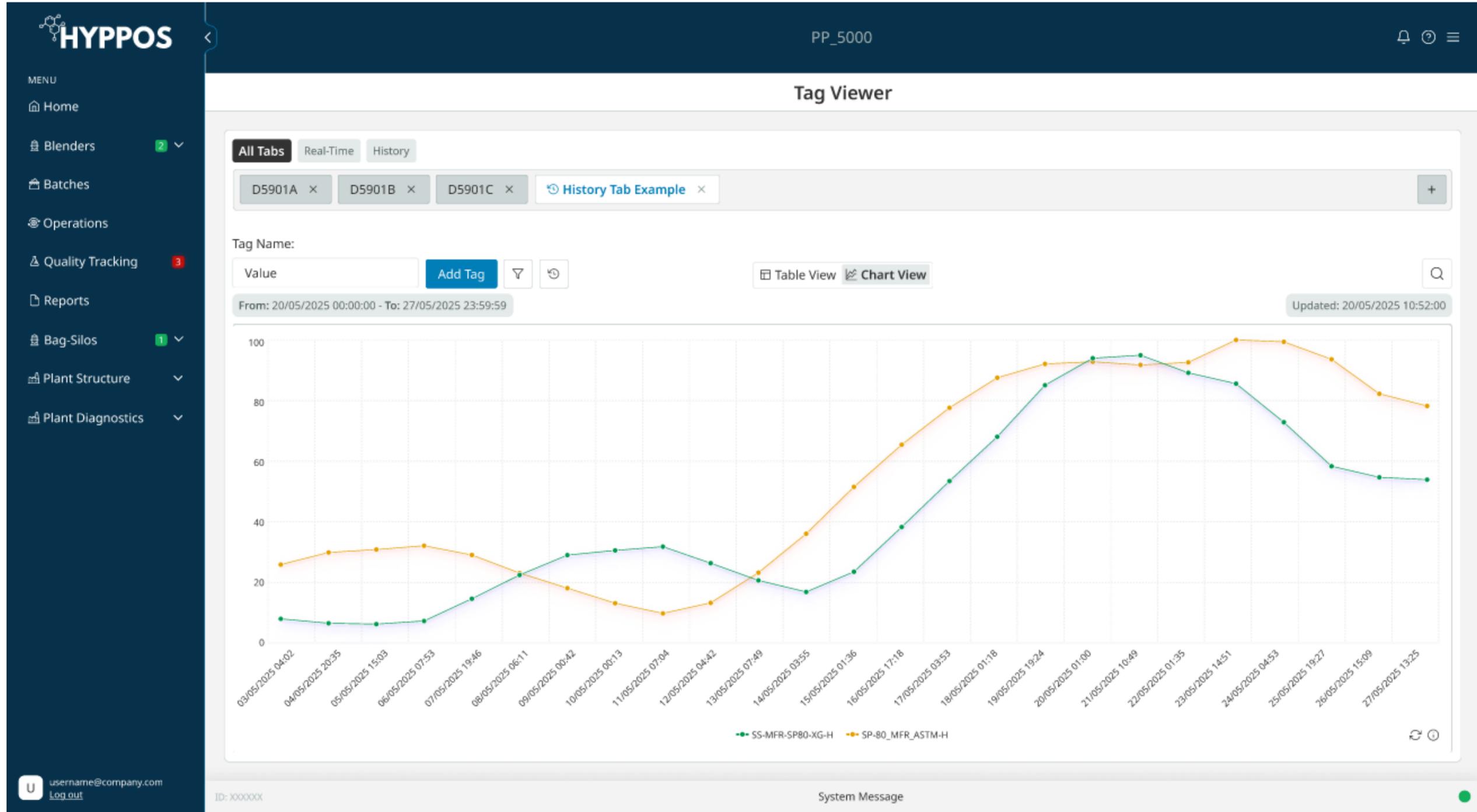
HYPPOS: UI walkthrough

The screenshot displays the HYPPOS Tag Viewer interface. On the left is a dark blue sidebar with a 'MENU' and various navigation options: Home, Blenders (2), Batches, Operations, Quality Tracking (3), Reports, Bag-Silos (1), Plant Structure, and Plant Diagnostics. The main content area is titled 'Tag Viewer' and includes a header with 'PP_5000' and notification icons. Below the header, there are tabs for 'All Tabs', 'Real-Time', and 'History'. A tab bar shows active tabs for 'D5901A', 'D5901B', 'D5901C', and 'History Tab Example'. A 'Tag Name' input field contains 'Value' and an 'Add Tag' button. A 'Rows per Page' dropdown is set to 'Show All'. A status bar indicates 'Updated: 20/05/2025 10:52:00'. The central table lists tag data with columns for Tag Name, Tag Value, Description, Last Updated, Tag Type, and Unit of Measure. Each row includes delete and favorite icons.

Tag Name	Tag Value	Description	Last Updated	Tag Type	Unit of Measure
D5901A-FILLING	1	Description Value	20/05/2025 07:51:53	ANALOG	kg
D5901A-OfficialBatch	26156	Description Value	21/05/2025 08:12:30	TEXT	kg
D5901A-Grade	HF14K	Description Value	22/05/2025 09:03:45	TEXT	kg
WI9101A.PV	6813.757	Description Value	23/05/2025 10:15:00	ANALOG	kg
D5901A-BatchID	13844	Description Value	24/05/2025 11:40:25	ANALOG	kg
D5901A-Banner	2	Description Value	25/05/2025 12:30:10	ANALOG	kg
D5901A-BatchStatus	CREATING	Description Value	26/05/2025 13:45:55	TEXT	kg
D5901A-COMPLETE	0	Description Value	25/05/2025 12:30:10	ANALOG	kg
D5901A-LIMS		Description Value	26/05/2025 13:45:55	TEXT	kg
D5901A-Approved	Yes	Description Value	28/05/2025 15:25:45	TEXT	kg
D5901A-Review	5	Description Value	27/05/2025 14:15:30	TEXT	kg

Footer: username@company.com, Log out, ID: XXXXXX, System Message

HYPPOS: UI walkthrough



HYPPOS: Reports example

Detailed Lot Report

Lot summary

Lot No.	Intended Grade	Final Grade	Plant Silo	PH Silo	Lot Start	Lot End	Produced Qty (t)	Packed Qty (t)	Current Status
26720	HZ42Q	HZ42Q	D5901E	D5904Q			200.276	200.000	PACKED

Process times before lot creation

Equipment	Equipment Description	Start Time	End Time
EX5801	Polymer Additives Screw Feeder	8/2/2025 12:20:14 PM	8/2/2025 7:24:16 PM
QMX5802DLY	Additives Mixer	8/2/2025 12:20:14 PM	8/2/2025 7:24:16 PM
D5802B	Polymer buffer for Extruder	8/2/2025 11:32:13 AM	8/2/2025 6:31:15 PM
D5502	Dryer	8/2/2025 11:21:13 AM	8/2/2025 6:21:15 PM
D5501	Steamer	8/2/2025 11:11:13 AM	8/2/2025 6:11:15 PM
D5301	Flash Drum	8/2/2025 11:01:13 AM	8/2/2025 6:01:15 PM
R5202	Loop Reactor #2	8/2/2025 10:20:13 AM	8/2/2025 5:22:15 PM
R5201	Loop Reactor #1	8/2/2025 9:27:13 AM	8/2/2025 4:33:15 PM
R5200	Pre Poly Reactor	8/2/2025 9:15:13 AM	8/2/2025 4:23:15 PM
D5108B	Catalyst dosing drum	8/2/2025 5:57:11 AM	8/2/2025 5:59:11 AM

Lot timings after lot creation

Equipment	Equipment Description	Phase	Quantity (t)	Start Time	End Time
D5904Q	Bulk PH Silo Q	TRANSFER_TO_PH	200.276	8/3/2025 9:37:21 AM	8/3/2025 3:20:28 PM

HYPPOS: Reports example

Detailed Lot Report

Raw material consumption

Material Name	Material Code	BOM Quantity	Quantity	UoM
ZN180M	CATALYST		24.99	KG
DONOR_	DONOR_		2.07	KG
HYDROGEN	HYDROGEN		2.19	KG
HYDROGEN	HYDROGEN		4.54	KG
PROPYLENE	PROPYLENE		204,990.90	KG
TEAL_	TEAL_		37.96	KG
AO 168	Feeder D	212.29	212.38	KG
AO 3114	Feeder C	95.13	96.69	KG
CaSt	Feeder A	80.11	80.02	KG
Peroxide	PEROXIDE_	96.13	91.66	KG

HYPPOS: Reports example

Detailed Lot Report

Lot quality report

Date/Time	Sampling Point	Sampling No.	Test Name	Result	Min	Max	UoM	
8/2/2025 12:00:00 PM	SP-80	2256351	Grade	HZ42Q				
			Melt Flow Rate 230 C / 2.16 kg	2.41			g/10 min	
			Grade	HZ42Q				
			Melt Flow Rate 230 C / 2.16 kg	2.50			g/10 min	
			Grade	HZ42Q				
			Melt Flow Rate 230 C / 2.16 kg	2.35			g/10 min	
8/2/2025 12:30:00 PM	SP-81	2257613	Grade	HF14M				
			Melt Flow Rate 230 C / 2.16 kg	19.25			g/10 min	
			W	20			%	
			Angel Hair	0				
			Color Uniformity	0				
			Corpuscles	0			NR/ 7kg	
			Dark Pellets	0			NR/ 7kg	
			FE/ 0.7-1.5 mm	1			nr/m2	
			FE/ 1.5 - 2.5 mm	0			nr/m2	
			FE/ Film Rating Appearance	0				
			FE/>=0.2 mm	29			nr/m2	
			FE/>=2.5 mm	0			nr/m2	
			Foreign Bodies	0				
			Grade	HZ42Q				
			Irregular shape	0.00				

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