

Welcome to Brussels!

2024 Prometheus Group User Conference

April 9, 2024



Speaker Introduction



Jeff Kinard

EVP, Corporate Development



Making Digital Transformation REAL

(A Recap)



Previously on Prometheus User Conference

- **2021** – Companies focused on “metaverse,” remote work
 - NFTs and Crypto Currencies
 - AR/VR initiatives with Meta, Amazon, Google
- **2022** – The Reckoning
 - Major layoffs in AR/VR divisions after huge losses
 - Meta: \$14B loss in AR/VR, 21,000 jobs cut (25% of workforce)
 - Amazon Alexa: \$10B loss, 27,000 cut (biggest in company history)
 - Bitcoin’s value dropped 65%
 - NFT collectibles sales dropped 81%



2023 – Coming Back to Our Senses

- Companies focusing on what they do best
 - Amazon – Focusing on retail and AWS
 - Meta – Advertising revenue
 - Google – Search was largest revenue growth contributor
- Companies are becoming more grounded
 - Focusing on REAL results
 - Decisions being made with ROI at top of mind



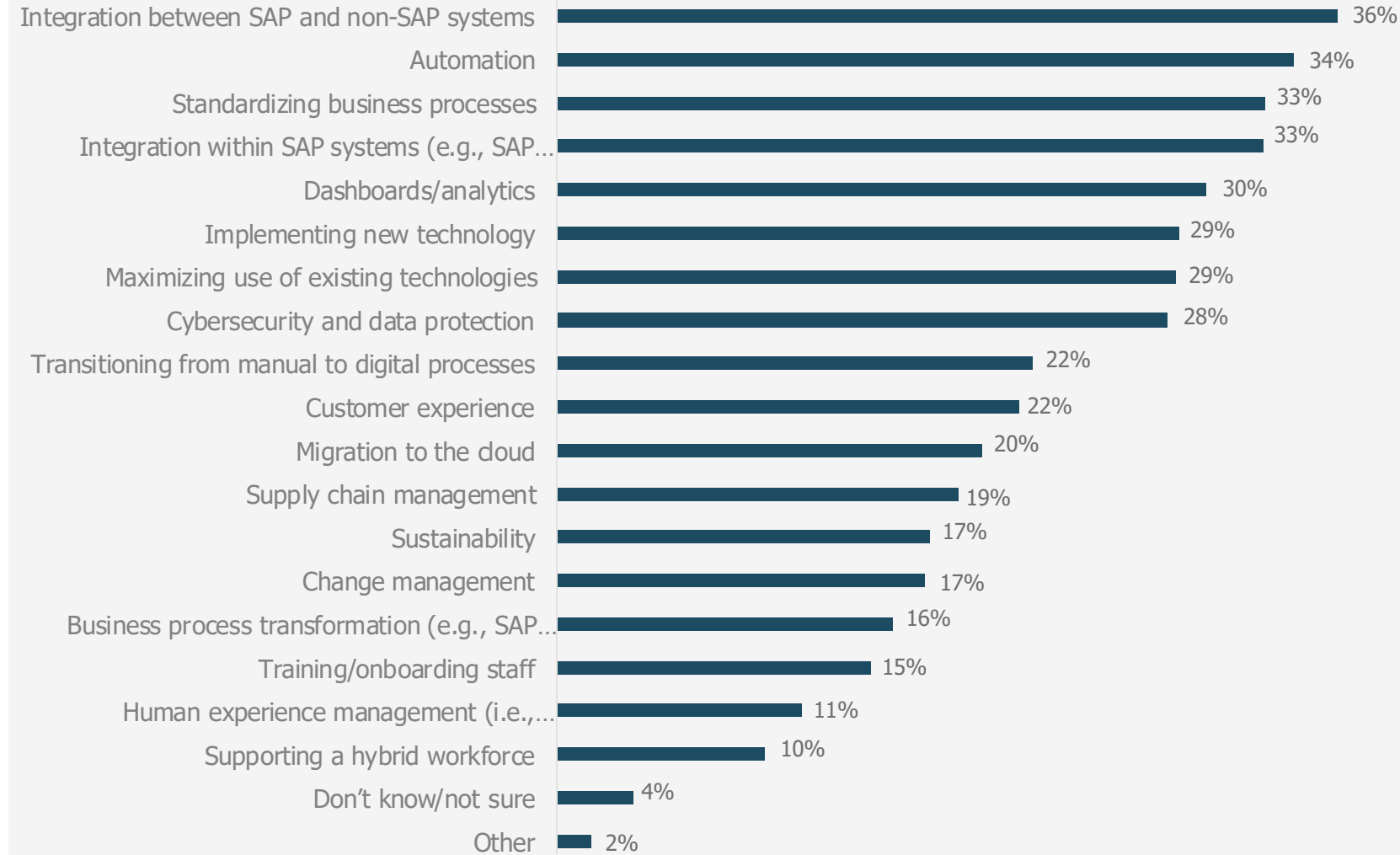
Parallels With Digital Transformation

- What is Digital Transformation?
 - Making a paper process digital?
 - Break down the silos, collaborative work
 - Automation
- Digital transformation projects and investments
 - How do you define ROI?
 - How is the business actually improving?



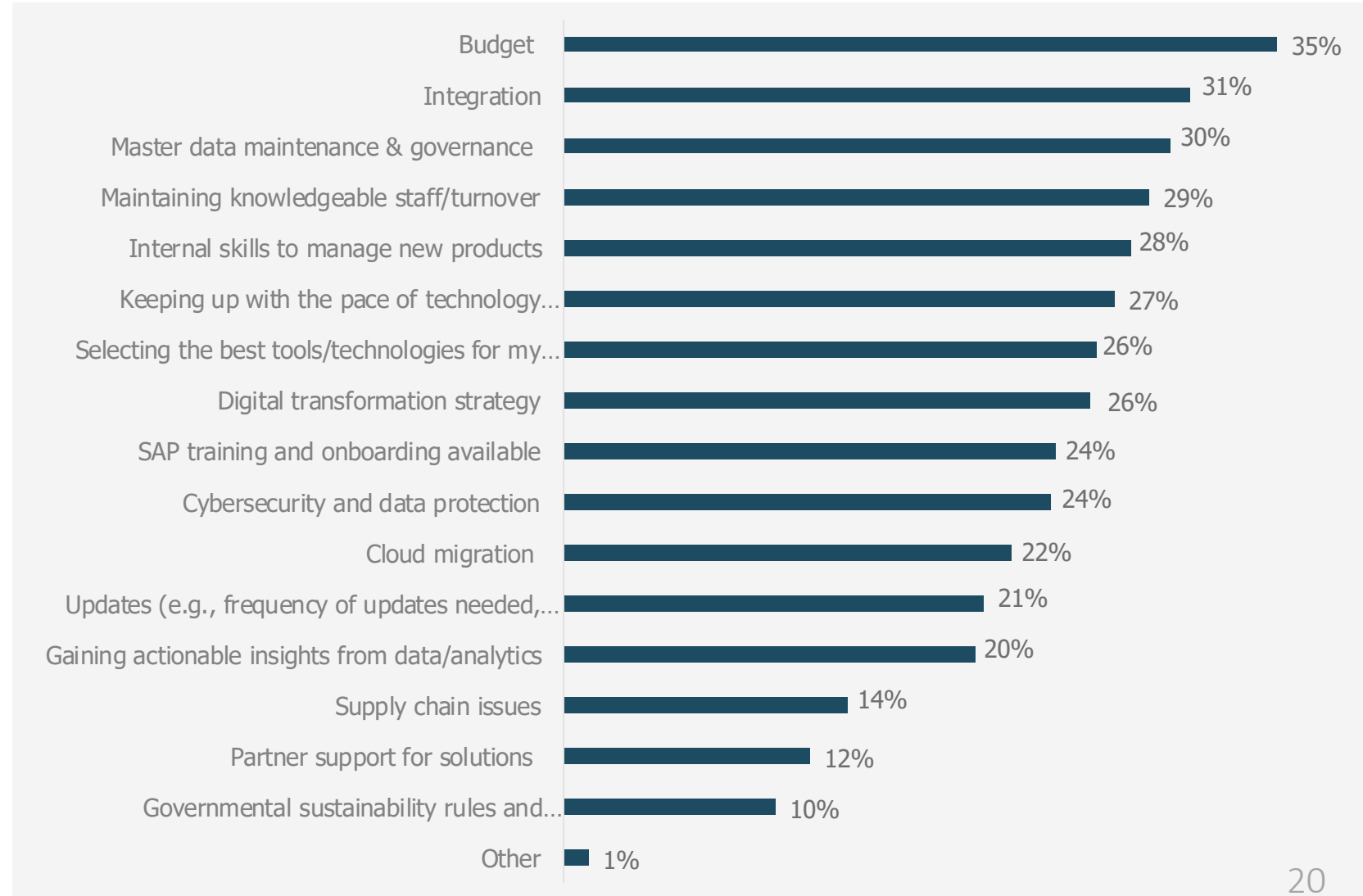
Focus Areas for 2024 (ASUG Study)

- Study from March 2024
- 766 member responses across multiple industries
- Top Focuses
 - Integration to non-SAP systems
 - Automation
 - Standardizing business processes



Top Challenges for 2024 (ASUG Study)

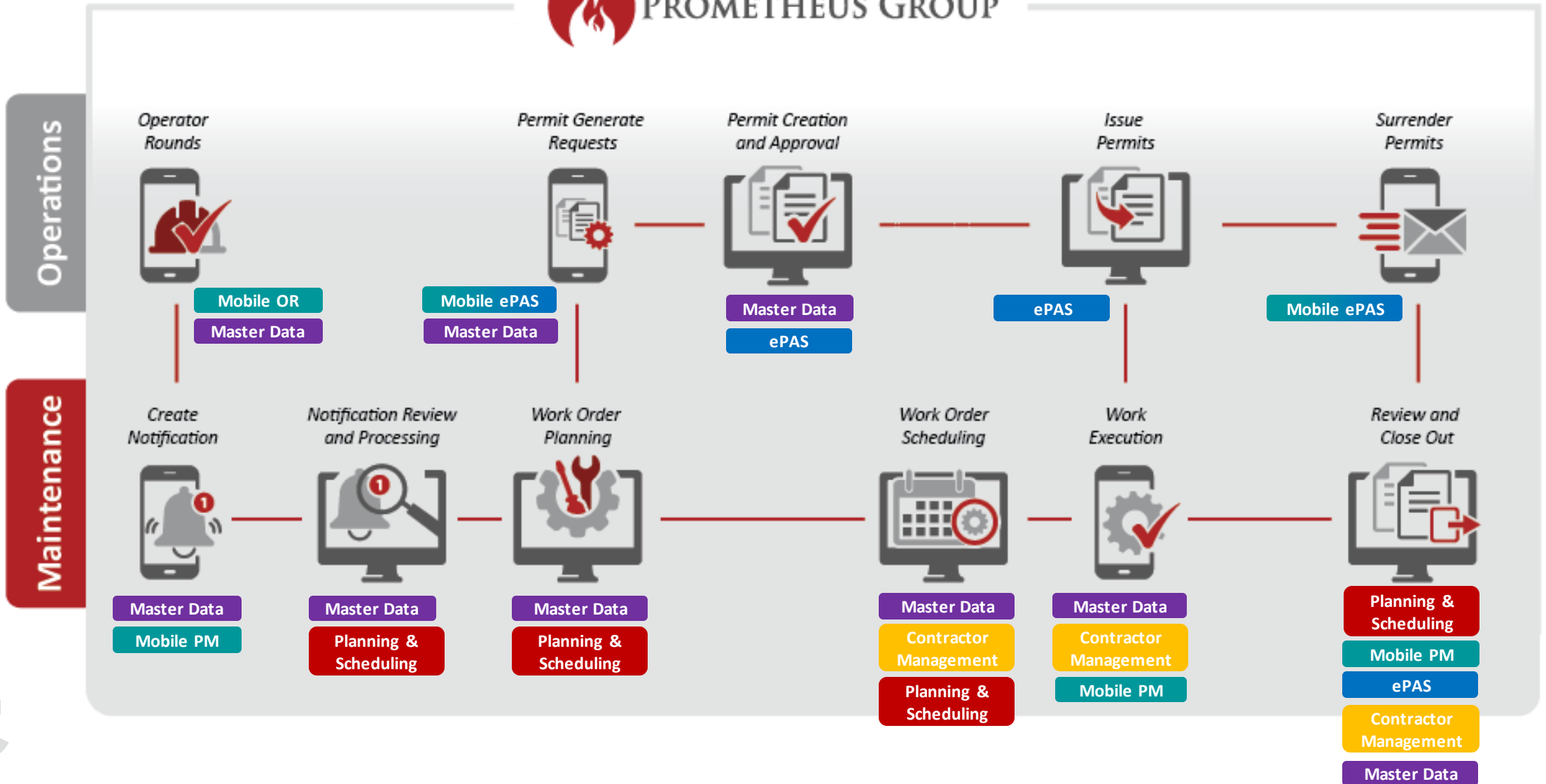
- Biggest Challenges
 - Budget
 - Integration (again)
 - Master Data



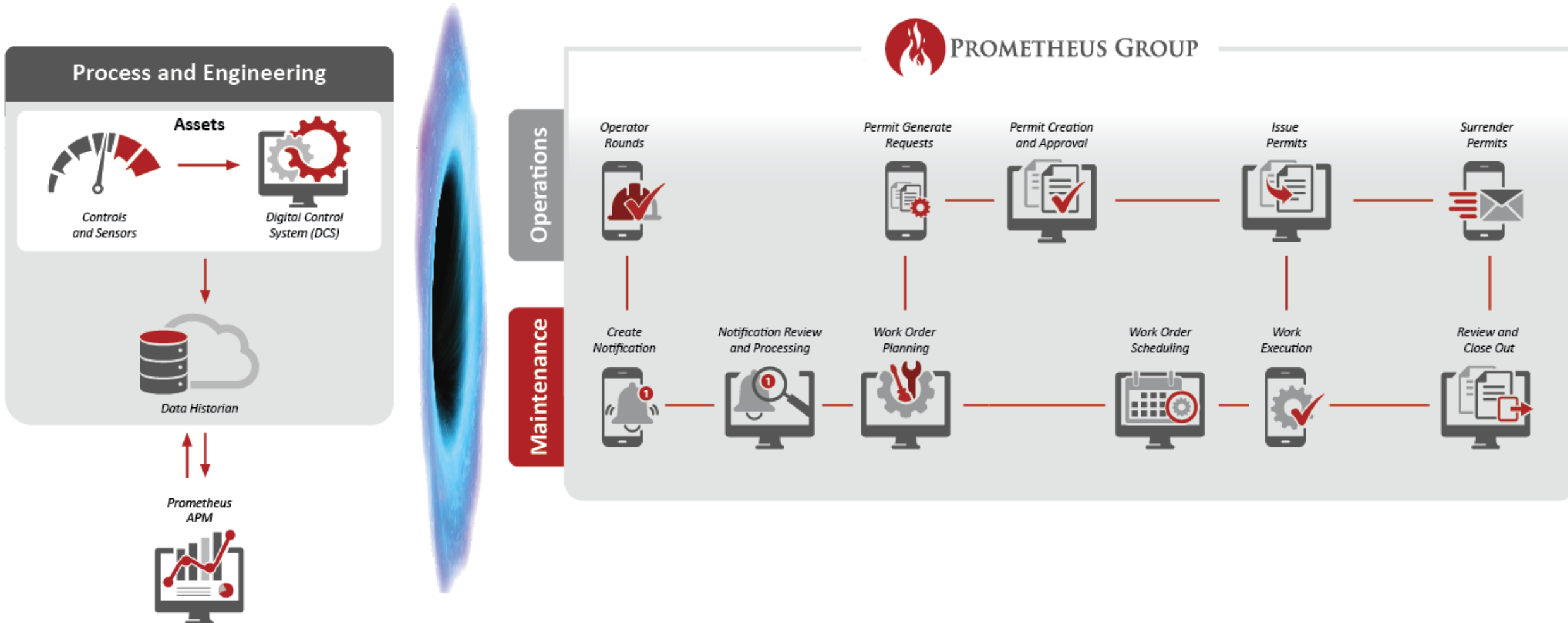
Prometheus Platform



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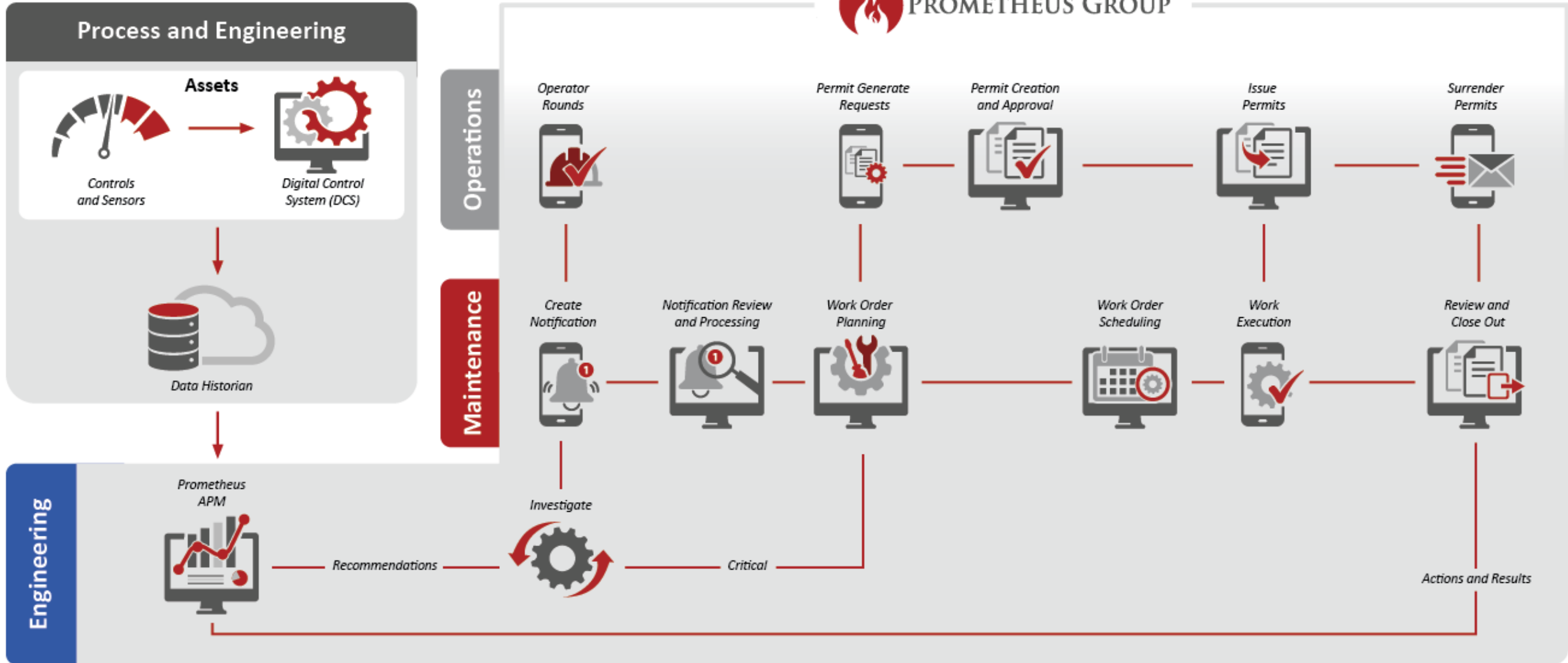
The Black Hole



Closing the Loop



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Prometheus APM – Realizing Results

- Since last year's user conference
 - 65-70 new sites on PG APM
 - 60 of these sites include monitoring services
- All new implementations include SAP integration
 - Maintenance notifications from found issues
 - Manual or automatic creation
 - Fully closing the loop



The Rise of AI – Where does It Fit With Digital Transformation?



“

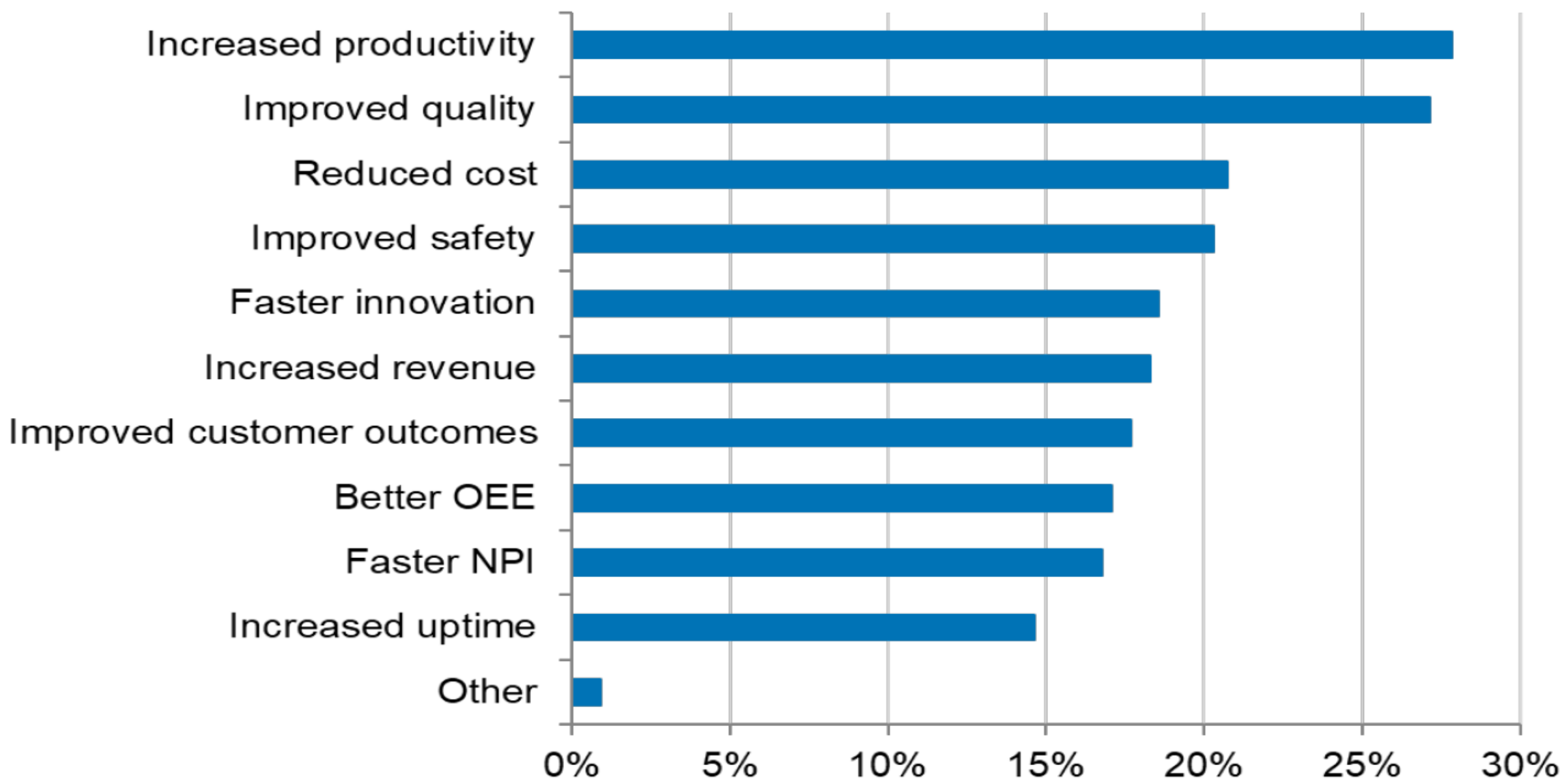
“AI-powered’ is tech’s meaningless equivalent of ‘all natural.’”

–Devin Coldewey, TechCrunch



Performance Improvement

Benefits of Industrial AI Projects



Current Trend – The AI Hype Machine

- Active AI projects today?
- What is AI?
- How do we make AI REAL?
- What are real applications where AI can add real value?



AI/ML and Predictive Analytics

According to Eric Siegel, PhD - Harvard Business Review –
“The AI Hype Cycle is Distracting Companies”

“

Most practical use cases of ML:

- Designed to improve the efficiencies of existing business operations
- Innovate in fairly straightforward ways

”

Purpose of ML is to issue actionable predictions

- Only valuable if the model is highly accurate
- Data is the key

“

”

- Eric Siegel. (2023). [The AI hype cycle is distracting companies](#)



Eric Siegel, PhD, is the founder of the Predictive Analytics World and executive editor of *The Predictive Analytics Times*. A former Columbia University professor, he is a renowned speaker, educator, and leader in the field.



Prometheus Group and AI

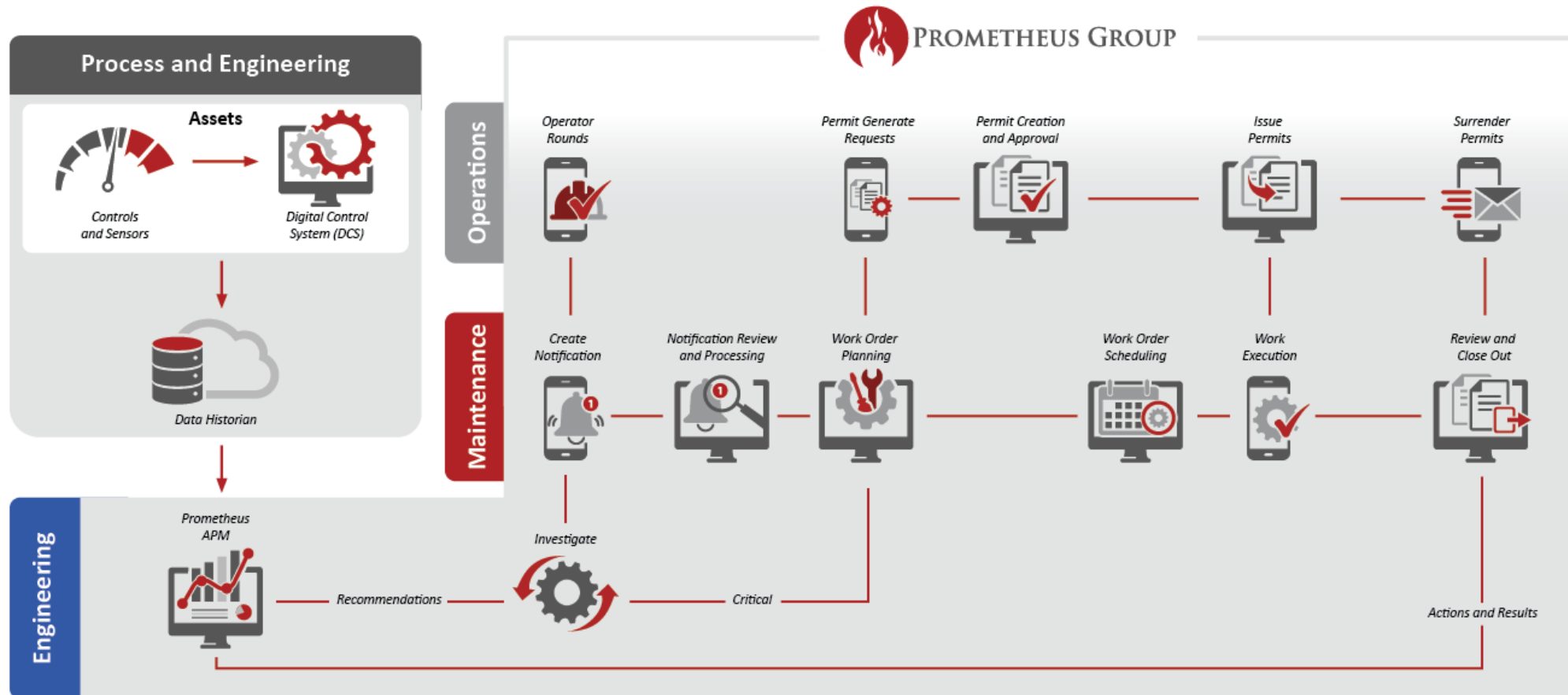
We have built a knowledge base to feed and train our AI models

- Prometheus Master Data as a Service (MDaaS)
 - 20+ years of PM object cleansing projects
 - Standardized taxonomy, equipment catalog
 - ~4.5M material records, ~350,000 equipment records
- Prometheus APM
 - 20+ years of equipment monitoring data
 - Asset issues database (~150,000 issues)



Prometheus Group and AI

- Focused on REAL use cases with achievable results
- Involves the full maintenance/operations life-cycle



Speaker Introduction



Matt Kirchner

Chief Product Officer, APM



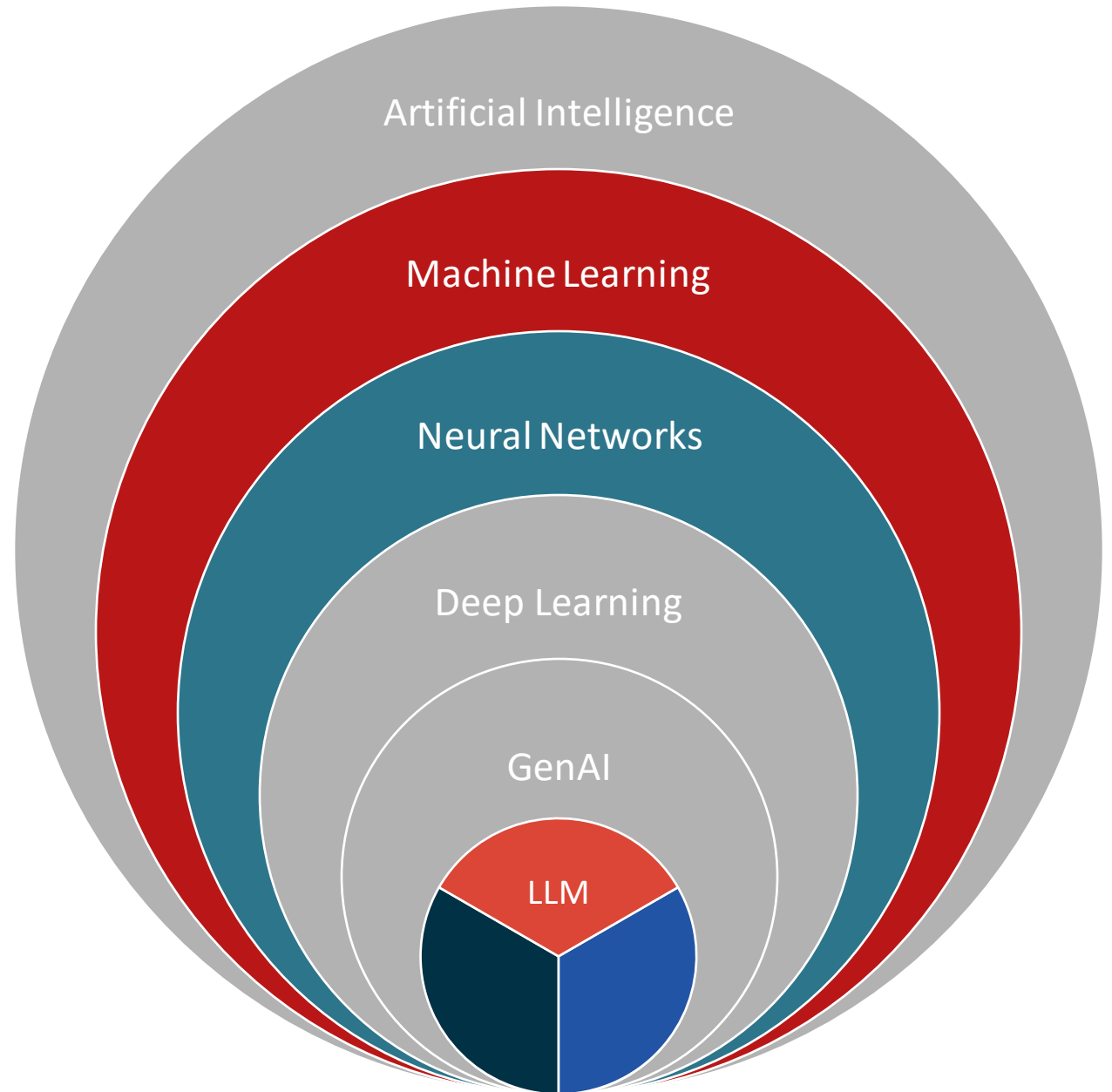
Stephen Taylor

Product Owner, Master Data



Prometheus AI

- APM Recommended Actions
- APM Predictive Analytics
- APM Diagnostics
- MDaaS BOM Analysis
- MDaaS Material Cleanse/Enrich



What Else Is New With the Platform?



Planning and Scheduling

- Crew Building/Resource Management
- Work Order Planner screen configuration
- Work Order Norms Planning

The screenshot displays a software interface for managing work packages. The top navigation bar shows 'Work Packages > 0002-112-0001 / 773 > Activities'. The main area is divided into two panels. The left panel shows a list of activities with columns for Sequence Number, Activity, Activity ID, Op / Act. Number, Activity Memo, and Location. The right panel is a configuration screen for 'Scaffolding' with various input fields and dropdown menus.

Sequence Number	Activity	Activity ID	Op / Act. Number	Activity Memo	Location
> 001	Remove insulation				
> 002	Place scaffolding				
> 003	Mechanical completion				
> 004	Blinding				
> 005	Fit (R/R) inspection				
> 006	De-blinding				
> 007	Place insulation				
> 008	Remove scaffolding				
> 009	OP Final Check				
> 010	Activity Description				

The right panel shows configuration details for 'Scaffolding'. It includes a table with columns for 'Calculation Main Group' and 'Calculation Sub Group'. The table is currently empty, with the message 'No Rows To Display'. Below the table, there are four steps for configuration:

- Step 1: Select a Calculation Main and Sub Group
- Step 2: Select a Norm
- Step 3: Select a Correction Factor and Quantity
- Step 4: Add a Memo

A green notification bar at the bottom left of the right panel indicates 'Calculation Created'.



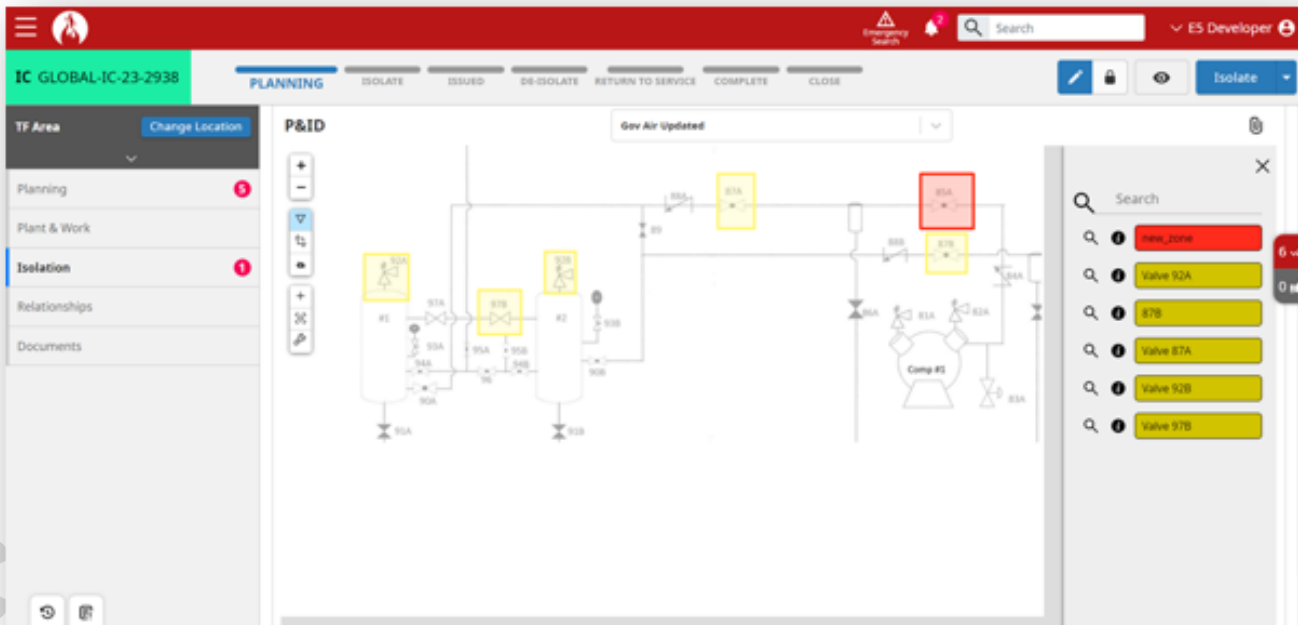
Prometheus Mobile

- **Conditional Screen Formatting** – Display relevant fields based on Notification Type, Order Type, etc.
- **Ad-hoc Round Execution** – create new inspections and rounds from the field
- **Confirmation Extensions** – Combine notification and confirmation fields in one screen
- **Permit integration** – Platform support for Prometheus ePAS to view and initiate permits



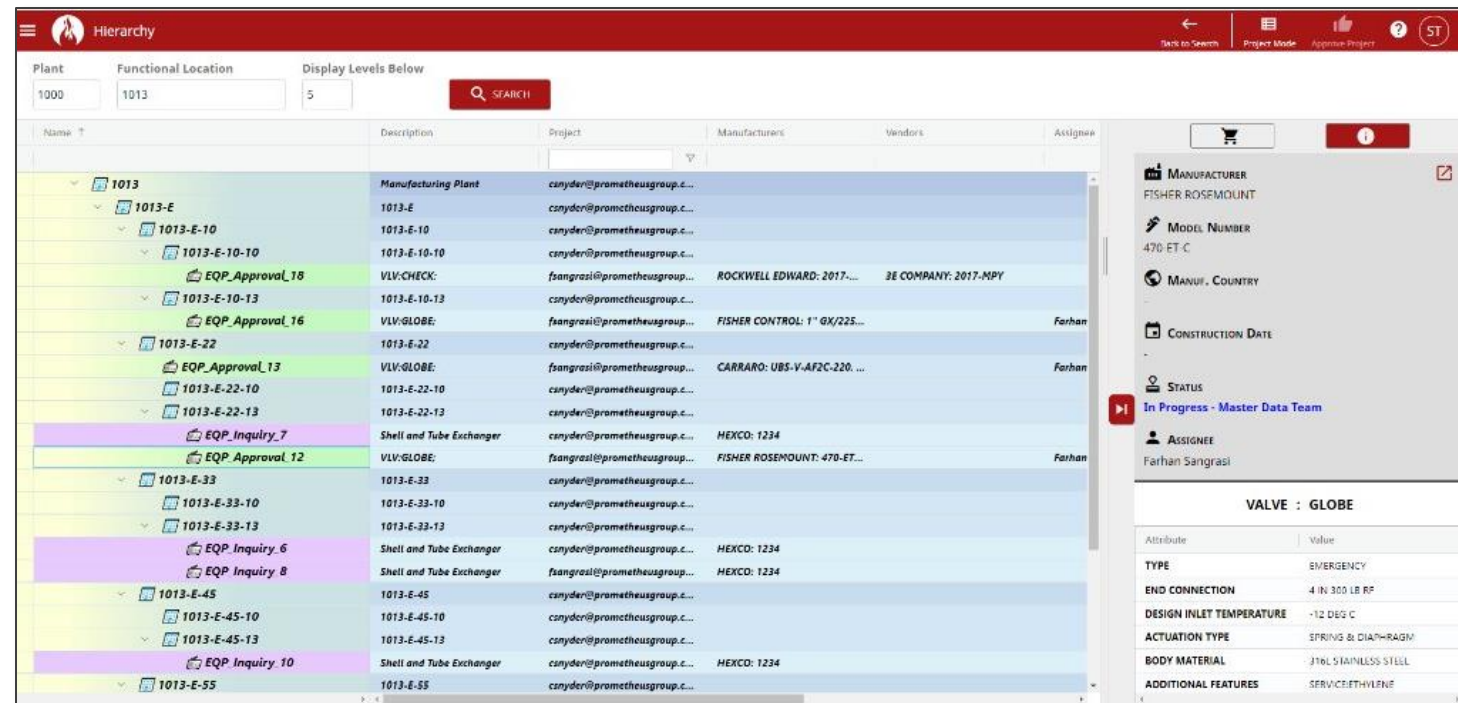
Safe Work and Digital Permitting

- Plotting Zones
- P&ID enhancements
 - P&ID Isolation management
 - Isolation Certificate integration



Master Data as a Service

- Functional Location and Equipment Hierarchy Management
 - Update and mass change asset structures
 - Spreadsheet upload, drag and drop
- AI-Based process for cleansing and enrichment (more on this later...)



The screenshot displays a software interface for managing functional location and equipment hierarchies. The main window shows a tree view of the hierarchy for Plant 1000, with Functional Location 1013 selected. The table below shows the details for the selected items.

Name	Description	Project	Manufacturer	Vendors	Assignee
1013	Manufacturing Plant	canyder@prometheusgroup.c...			
1013-E	1013-E	canyder@prometheusgroup.c...			
1013-E-10	1013-E-10	canyder@prometheusgroup.c...			
1013-E-10-10	1013-E-10-10	canyder@prometheusgroup.c...			
EQP_Approval_18	VLV-CHECK;	fsangrazi@prometheusgroup...	ROCKWELL EDWARD: 2017...	3E COMPANY: 2017-MPY	
1013-E-10-13	1013-E-10-13	canyder@prometheusgroup.c...			
EQP_Approval_16	VLV-GLOBE;	fsangrazi@prometheusgroup...	FISHER CONTROL: 1" 6X/225...		Farhan
1013-E-22	1013-E-22	canyder@prometheusgroup.c...			
EQP_Approval_13	VLV-GLOBE;	fsangrazi@prometheusgroup...	CARRARO: UBS-V-AF2C-220 ...		Farhan
1013-E-22-10	1013-E-22-10	canyder@prometheusgroup.c...			
1013-E-22-13	1013-E-22-13	canyder@prometheusgroup.c...			
EQP_Inquiry_7	Shell and Tube Exchanger	canyder@prometheusgroup.c...	HEXCO: 1234		
EQP_Approval_12	VLV-GLOBE;	fsangrazi@prometheusgroup...	FISHER ROSEMOUNT: 470-ET...		Farhan
1013-E-33	1013-E-33	canyder@prometheusgroup.c...			
1013-E-33-10	1013-E-33-10	canyder@prometheusgroup.c...			
1013-E-33-13	1013-E-33-13	canyder@prometheusgroup.c...			
EQP_Inquiry_6	Shell and Tube Exchanger	canyder@prometheusgroup.c...	HEXCO: 1234		
EQP_Inquiry_8	Shell and Tube Exchanger	fsangrazi@prometheusgroup...	HEXCO: 1234		
1013-E-45	1013-E-45	canyder@prometheusgroup.c...			
1013-E-45-10	1013-E-45-10	canyder@prometheusgroup.c...			
1013-E-45-13	1013-E-45-13	canyder@prometheusgroup.c...			
EQP_Inquiry_10	Shell and Tube Exchanger	canyder@prometheusgroup.c...	HEXCO: 1234		
1013-E-55	1013-E-55	canyder@prometheusgroup.c...			

The right-hand panel shows the details for the selected 'VALVE : GLOBE' item, including manufacturer (FISHER ROSEMOUNT), model number (470-ET-C), and various attributes like TYPE (EMERGENCY), END CONNECTION (4 IN 300 LB RF), DESIGN INLET TEMPERATURE (-12 DEG C), ACTUATION TYPE (SPRINGS & DIAPHRAGM), BODY MATERIAL (316L5 STAINLESS STEEL), and ADDITIONAL FEATURES (SERVICEETHYLENE).



Shutdowns and Turnarounds

- Enhanced Budgeting Console
 - Estimation capabilities
 - Portfolio view
- Mobility Enhancements
 - Kitting
 - QA/QC
 - Punchlist tracking
- QA/QC and Work Package Enhancements

The screenshot displays a software interface for budgeting and estimating. The top navigation bar includes 'Budgeting' and 'Estimate Snapshots'. A dropdown menu for 'ST Fall 2024 Shutdown' is visible in the top right corner, showing '34 Days Until OutDate (Mon Apr 15 2024)'. The interface is split into two main sections: a left-hand navigation pane and a right-hand data table.

Left Panel: Estimate Snapshots

Estimate 1

Estimate: Snapshot:
Current Work Packages Es... or

Estimate 2

Estimate: Snapshot: ST Fall 2024 - Prelim Scope

Description

PBS:

WBS SAP cost elements

OBS:

Unit & Equipment Type

WBS:

CBS:

7.00001

SAP:

ORC BrSt

Rows: 9

Right Panel: Table

Code	Description	Current Work Packages Estimate	ST Fall 2024 - Prelim Scope	Packages Estimate - ST
Total		\$402,290.89	\$0.00	\$402,290.89
7.00001.CP (19)	Capital	\$402,290.89 (100.00%)	\$0.00	\$402,290.89
7.00001.CP.3 (12)	3-Design	\$24,430.95 (6.07%)	\$0.00	\$24,430.95
7.00001.CP.3.E (5)	Engineering	\$24,430.95 (6.07%)	\$0.00	\$24,430.95
7.00001.CP.3.E.035 (4)	Hydrocracker (035)	\$24,430.95 (6.07%)	\$0.00	\$24,430.95
7.00001.CP.3.E.035.C01	Construction 1	\$12,018.73 (2.99%)	\$0.00	\$12,018.73
7.00001.CP.3.E.035.I01	Instrumentation User Co...	\$616.00 (0.15%)	\$0.00	\$616.00
7.00001.CP.3.E.035.M01	Mechanical Package	\$5,789.15 (1.44%)	\$0.00	\$5,789.15
7.00001.CP.3.E.035.P01	Piping Design Package	\$6,007.07 (1.49%)	\$0.00	\$6,007.07
7.00001.CP.3.T (5)	Turnaround	\$0.00	\$0.00	\$0.00
7.00001.CP.3.T.CHM (4)	Chemical Facility (CHM)	\$0.00	\$0.00	\$0.00
7.00001.CP.3.T.CHM.E01	Courtney's Elec. Package	\$0.00	\$0.00	\$0.00
7.00001.CP.3.T.CHM.E02	Turner Elec. WP	\$0.00	\$0.00	\$0.00
7.00001.CP.3.T.CHM.I01	Instrumentation 1 Mauro	\$0.00	\$0.00	\$0.00
7.00001.CP.3.T.CHM.M01	Mechanical 1	\$0.00	\$0.00	\$0.00

Rows: 20



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Thank you! Break time!