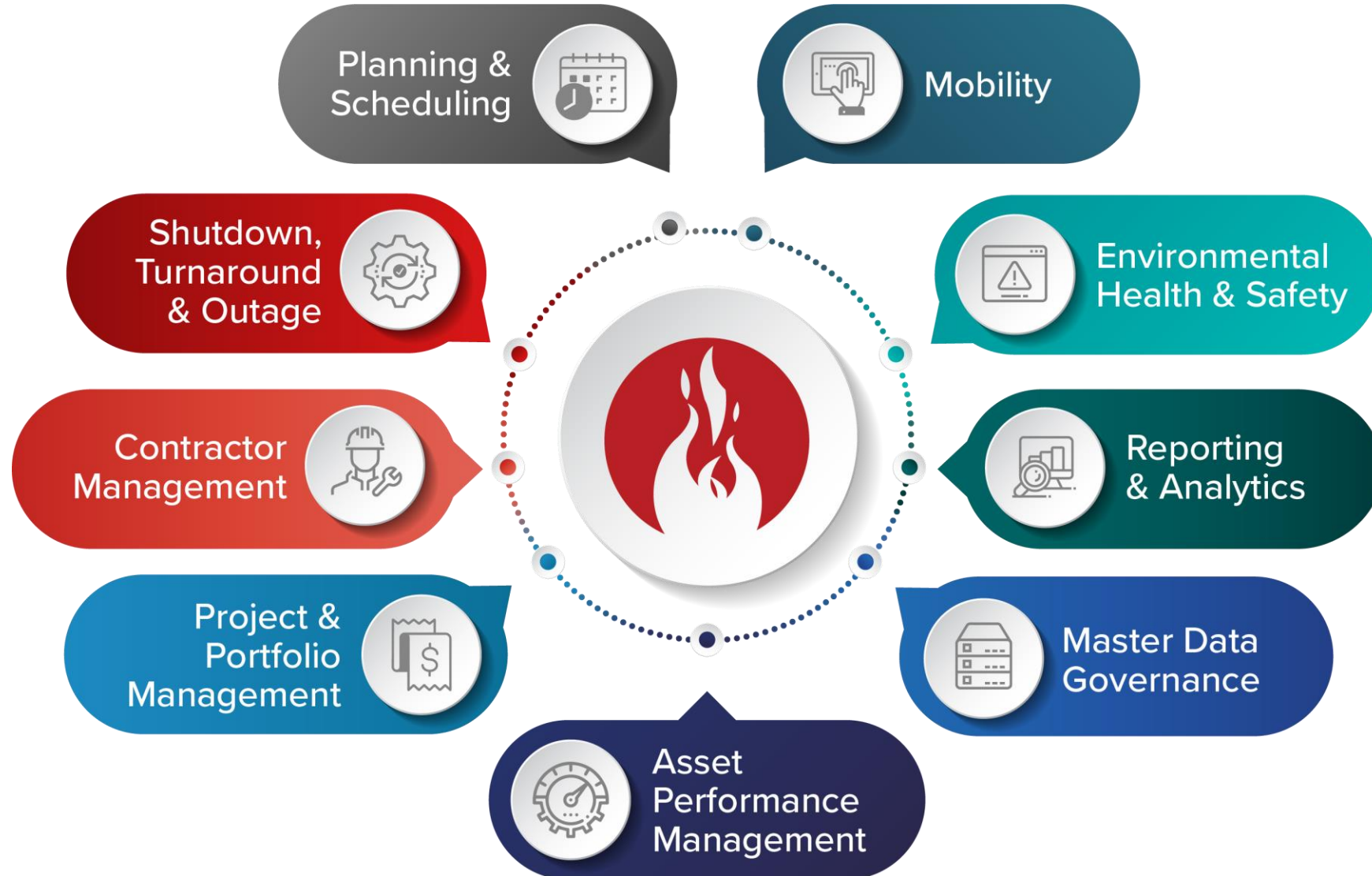


# S/4HANA Best Practices

Devin Peters – Senior Functional Consultant

June 1, 2023

# The Prometheus Platform



# Lost in Transformation

- Everyone's chasing digital transformation but for many it's hard to reach or be fully realized
- To simplify, digital transformation is just process improvements with just better tools and technology.
- S/4 is a great foundation and set of tools but how do we take full advantage of our investments and ensure project success?

# SAP S/4HANA, BTP, and Business Partners

- The SAP Store – Where does it fit in?
- Solex Partnerships – what are they?
- Differentiating SAP's 'Core' offering, BTP, and Business Partners

# Poll

- Who is familiar with SAP BTP (Business Technology Platform)?

# Agenda

- Before You Move to S/4HANA
- S4 Evaluation Best Practices for Maintenance
- The Need For and Advantages of Prometheus Solutions with S/4HANA
- The Goal of Digital Transformation Realized for Asset Management

“

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**"Work on Master Data cleanup **in advance** as much as possible, this is definitely something that **can get in the way** of your digital transformation"**

VP and CIO, Global Chemical Manufacturer

*S4 Executive Roundtable, 2022*

# Master Data Review

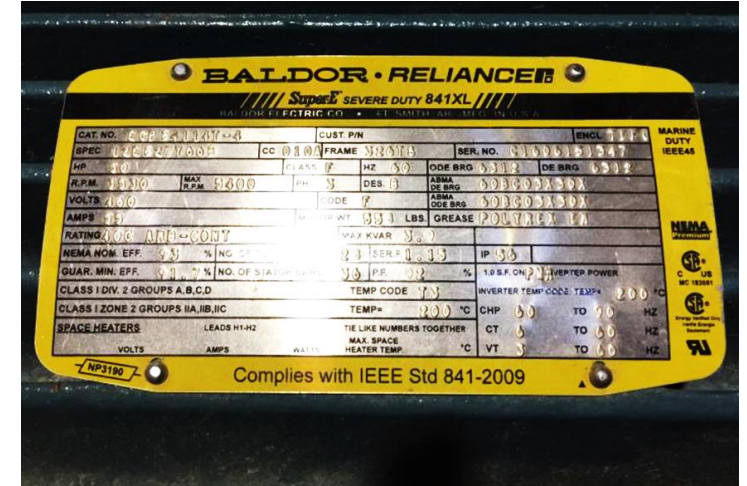
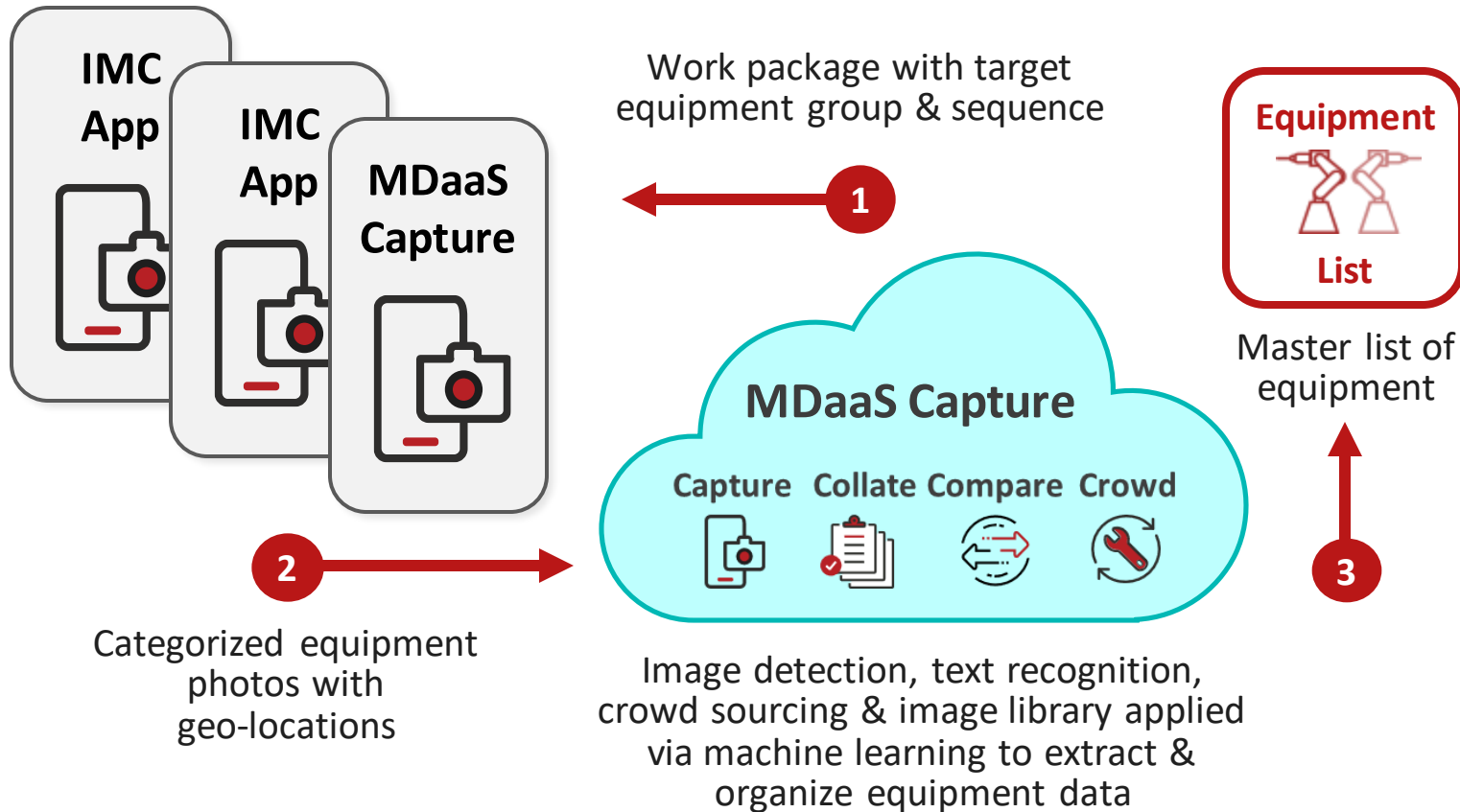
- What is the confidence level in your master data?
  - Does what is in the field match what is in your system?
- What issues are poor master data having on your process?
- Do a Data Review or Data Health Assessment (DHA)
- If you determine master data is lacking, how will you address it?



# Master Data Capture

# MDaaS Capture

Automated Field Data Collection: When your asset data is missing or untrustworthy



ATTRIBUTE	VALUE
Make	Baldor Reliance
Series	Super E Severe Duty 841 XL
Part Number	ECP84114T-4
Serial Number	C1505141347
Specification	12E626Y668
Power	50 HP
Speed	3,530 RPM
Frame	326TS
Voltage	460 V
Amps	55 A

# Master Data as a Service (MDaaS)



Capture

Collect

## MDaaS **CAPTURE**

Mobile app for photo-based field data collection

Intelligent image processing and data extraction

Crowd and AI-based data enrichment



Cleanse

Classify

Crowd

## MDaaS **ENRICH**

Standards-centric classification

Drawing and manufacturer's website-based data mining

Machine learning-based data cleansing & enrichment



Combine

Create

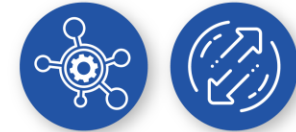
Control

## MDaaS **SUSTAIN**

Master Data Management best practice templates

Workflow-driven review & approval

Automated business rules for data validation



Compare

Connect

## MDaaS **MIGRATE**

Auditable file comparison and tracking

Integrates with commercial ETLs

Supports all major ERPs

INPUT DATA	CLEANSED DATA	CLEANSED, STANDARDIZED AND CONSOLIDATED DATA	ENRICHED DATA
BALL BEARING 15x35x11	BALL BEARING, 15MM,35MM,11MM	BEARING,BALL, 15 MM,35 MM,11 MM	BEARING,BALL;DEEP GROOVE,15 MM ID,35 MM OD,11 MM W,6200 SERIES,1 ROW,1 SHIELD, STEEL,PRESSED CAGE,2 DEG MISALIGNMENT,8.06 KN DYNAMIC,3.75 KN STATIC
BALL BRG 15 X35 X11 MM	BALL BEARING, 15MM,35MM,11MM		
BALL BEARING Ø15X11X35 MM	BALL BEARING, 15MM,35MM,11MM		
15X11X35 BEARING BALL	15MM,35MM,11MM,BEARING BALL		
CARTRIDGE FUSE FAST ACTING 600 VAC 30 A	CARTRIDGE FUSE, FASTACTING, 600 VAC, 30 A	FUSE,CARTRIDGE, FAST ACTING,600 VAC,30 A	FUSE,CARTRIDGE;FAST ACTING,600 VAC,30 A,200 KA,END CAP,NICKEL PLATED BRASS,MELAMINE TUBE,CSA
CARTRIDGE FUSES FAST ACTING 600 VAC 30 AMPERE	CARTRIDGE FUSE, FASTACTING, 600 VAC, 30 A		
FAST ACTING CARTRIDGE FUSES 600 VAC 30 AMP	FAST ACTING CARTRIDGE FUSE, 600 VAC, 30 A		
CARTRIDGE FUSES 600 VAC 30 AMPERE, FAST ACTING	CARTRIDGE FUSE, 600 VAC, 30 A, FAST ACTING		
45 DEG ELBOW PIPE ADTPTR	45 DEG, ELBOW, PIPE, ADAPTER	ELBOW,PIPE,ADAPTER,45 DEG,1-1/2 IN	ELBOW,PIPE;ADAPTER,45 DEG,1-1/2 IN,SCH 40,200 PSI,CARBON STEEL,BLACK OXIDE,ASTM A106,1-1/2 IN NPS X 1-1/2 IN NPS,1.94 IN CENTER TO END DISTANCE
1-1/2 INCH X 45 DEGREE PIPE ELBOW	1-1/2 IN, 45 DEG, PIPE, ELBOW		
pipe elbow 45° 1 1/2" n° 45	PIPE, ELBOW, 45 DEG, 1-1/2 IN		
45° 1 1/2" pipe elb	45 DEG, 1-1/2 IN, PIPE, ELBOW		
BUSH TAPER 4300 LB-IN TORQUE	BUSH,TAPER, 4300 LB-IN TORQUE	BUSHING,TAPER LOCK KEYWAY 2-1/8 IN	BUSHING,TAPER LOCK KEYWAY 2-1/8 IN X 1/8 IN LOCK
BUSHING	BUSHING		
TORQUE LOCK	TORQUE		



# MDaaS – Master Data as a Service

## The Utopia Acquisition

### Focus on data supporting Digital Transformation & the Intelligent Enterprise

- Data Strategy: Roadmap for People, Process and Technology
- Data Quality Remediation: Data Profiling, Data Cleansing, Enrichment
- Data Governance: MDG core domains and Utopia developed solutions
- Data Migration: SAP S/4HANA Migrations, Data Services

### Expertise

- 18 years of innovation and expertise in end-to-end data management solutions
- Global R&D team focused on building smarter data management solutions
- Leveraging state of the art technologies like machine learning and AI

### SAP's preferred Partner for MDG & End-to-End Data Management Solutions

- Best practice accelerators and templates support entire EIM portfolio from SAP
- More data migrations to SAP environments than any other partner
- Three solution extensions on SAP's pricelist – **MDG EAM , AIW and RFM**
- Certified for S/4HANA, Private (PCE) and Public Cloud (EX), Release Nov 2020



**SAP® APJ PARTNER  
EXCELLENCE AWARD 2018**





# Evaluation Best Practices

# Evaluation Best Practices

- Master Data – Are you ready? Will you be?
  - It's never a bad time to evaluate your Master data
- Considering your current state alongside your future plan
  - What are the primary goals of your maintenance department?
    - Automation?
    - Improved Metrics and Reporting?
    - High User Adoption?
- **Make sure you have references!** Don't settle for 1 – Look for companies in and outside of your industry
- Importance of SMEs in Asset Management and digital transformation projects

# Evaluation Best Practices

- Does your solution suite meet you where you are?
  - Offline connections for working anywhere
  - SSO and integrations with the systems you actually use
  - Roadblocks such as forced syncs
- Consider Total Cost of Ownership – it's not just in the software!
  - Services
  - Updates
  - Devices (SSO)



# Maintenance – A seat at the table

- Is Maintenance and the PM Module in consideration for the same evaluation process as:
  - Supply Chain
  - HR
  - Finance
  - Operations
- Use this as an opportunity to perform a regional or global process evaluation and ensure standardization of existing practices can take place, data cleansing can occur, new systems can be introduced

# Digital and Mobile Go Hand in Hand

- If Mobile doesn't work where you work or how you work, then your digital goals are likely to be challenged... and revert back to the 'old' way
- Look for solutions that are:
  - Purpose Built for the end user
  - Configurable
  - Tout a strong integration with SAP

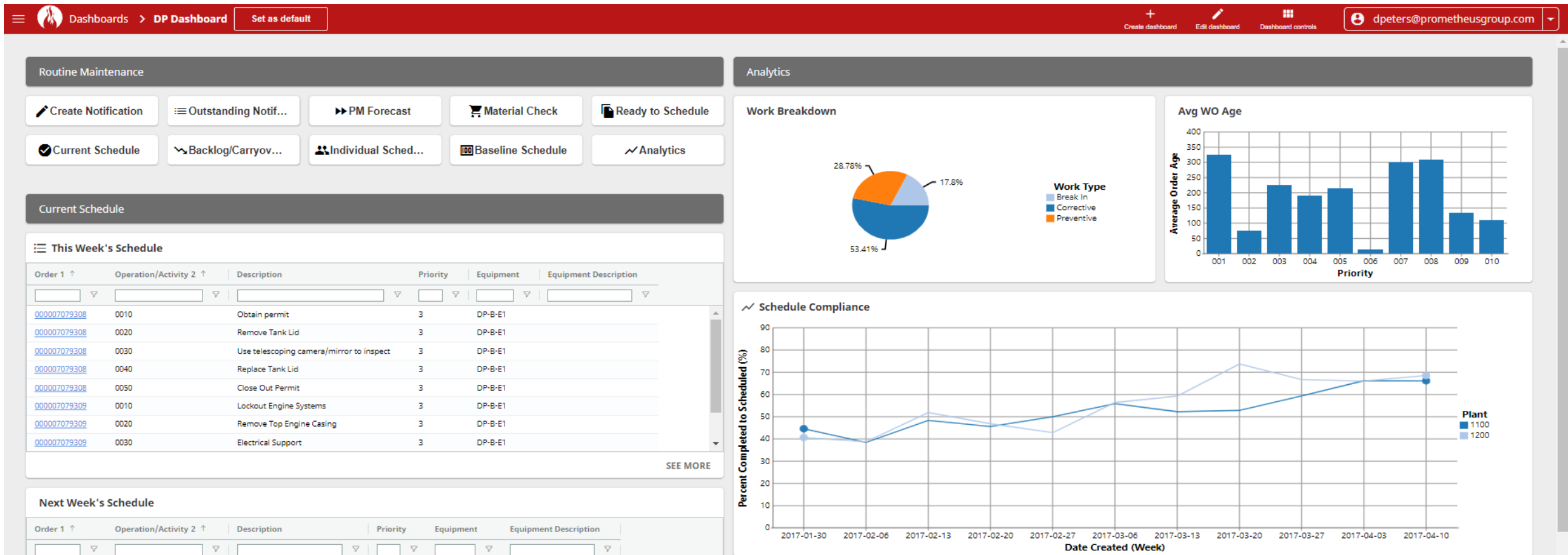
# User Adoption

- Easy to use, intuitive software throughout the platform
- **Flexibility = Configurability** – making changes, updates, making it work for *your* process



# User Adoption

- Simple changes realize significant gains
  - Dashboard and tile links



The background of the slide is a photograph of an industrial refinery or chemical plant. The scene is filled with various structures, including tall distillation columns, complex piping networks, and several large, cylindrical storage tanks in the foreground. The lighting is a mix of warm orange and red tones on the left, suggesting a sunset or sunrise, and cooler blue and purple tones on the right. A semi-transparent grid of white lines is overlaid on the entire image, creating a technical or digital aesthetic.

# Advantages of PG Solutions

# Dedicated Maintenance Professionals

- Prometheus Group is a world class maintenance and asset management software solution company
- Over 25 years of SAP and Maintenance expertise
- Often the recommended solution directly from the SAP store

# Filling the gaps

- Advantages and feature/function in core offerings
- Robust selection of integrated offerings outside the SAP landscape
  - Permitting & Safety
  - Shutdown, Turnaround, Outage (STO) Management
  - Master Data Solutions
    - No Integrator has done more master data migrations than Prometheus Group
  - Contractor Management
  - Capital Project Commissioning

# Exploring Advantages - Scheduling

- **Newest Features, Key Differentiators**
  - Production Overlay
  - MS Project Import
  - WC Groups
  - Tiered Auto-Level
  - Dashboard View
  - Color Coding
  - Work Order Priority
  - Weights



# Overlay with Maintenance

**Sean's Ready to Schedule Work**  
Routine Maintenance Display

Group	Priority 2 ↑	Description	Work	Saturday	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	Monday	Tuesday
7070573	3	<b>Strainer Piping Inspection</b>												
0010	3	Forward Void Strainer Piping Inspection	8										Transfer Station 1	
7075766	3	<b>leak on outboard bearing</b>												
0010	3	leak on outboard bearing	1										16_MECH	
7031521	4	<b>Solder Loose Wire Connections</b>												
0010	4	Lockout Various Pumps	4											
0020	4	Solder Connections	4											
0030	4	Unlock	3											
0040	4	Test and Verify	2											
7031527	4	<b>Repair Various Oil Leaks</b>												
0010	4	Lockout	4											
0020	4	Remove Pipe Sections	12											
0030	4	Repair/Replace Piping	18											
0040	4	Unlock/Verify	8											
7031532	4	<b>Recallibrate Meters</b>												
0010	4	Lockout	2											
0020	4	Callibrate	4											
0030	4	Unlock/Verify	2											

Resource	Description	Plant	04/16/2022	04/17/2022	04/18/2022	04/19/2022	04/20/2022	04/21/2022	04/22/2022	04/23/2022	04/24/2022	04/25/2022	04/26/2022
16_MECH	Mechanic	1000	OFF	OFF	53 / 60	51 / 60	49 / 60	52 / 60	50 / 60	OFF	OFF	12 / 60	0 / 60
16_INST	Instrument	1000	OFF	OFF	34 / 60	43 / 60	52 / 60	61 / 60	57 / 60	OFF	OFF	24 / 60	0 / 60
16_ELEC	Electrical	1000	OFF	OFF	70 / 60	42 / 60	50 / 60	39 / 60	43 / 60	OFF	OFF	19 / 60	0 / 60
16_CVIL	Contractors	1000	OFF	OFF	2 / 72	28 / 72	37 / 72	40 / 72	19 / 72	OFF	OFF	0 / 72	0 / 72

# GIS Routing

**GIS Planner**

Route Date: 08-06-2020

Group	Name 1	Name 2	Cap. (hr)
16_MECH	16_MIKE	Mechanical maintenance.	7.0
16_ELEC	16_CHRIS	Mechanical maintenance.	7.0
16_MECH	16_SARAH	Mechanical maintenance.	7.0

Task	Description	Task Time (hr)	Route Priority
7031536 - 0010	Lockout Condensor	0.0	Low
7031518 - 0010	Lockout Pump/Water Systems	0.0	Low
7031518 - 0020	Remove Top Pump Casing	3.5	First Stop
7031518 - 0030	Clear Pump Impellar	0.0	Low
7031518 - 0050	Unlock	1.0	Low
7031536 - 0020	Troubleshoot Inst.	1.0	ASAP
7060534 - 0010	Clean Sluice Tank	4.0	Low
7031536 - 0030	Verify Inst	1.0	ASAP
7031536 - 0015	Uncouple motor	1.0	Low
7031518 - 0025	electrical support	0.6	Low
7031536 - 0040	Unlock	1.0	Medium
7031536 - 0050	New Step	1.0	Low
7031518 - 0040	Assemble/Verify Pump	1.0	Low

Map Layers: Tasks

Legend:

- Work Groups
  - (No Work Group)
  - 16\_ELEC
  - 16\_MECH
- Assigned Work
  - (No Criticality)
  - (No Criticality)
- Unassigned Work
  - (No Criticality)

Town of Cary, State of North Carolina DOT, Esri, HERE, Garmin, NGA, USGS, NPS

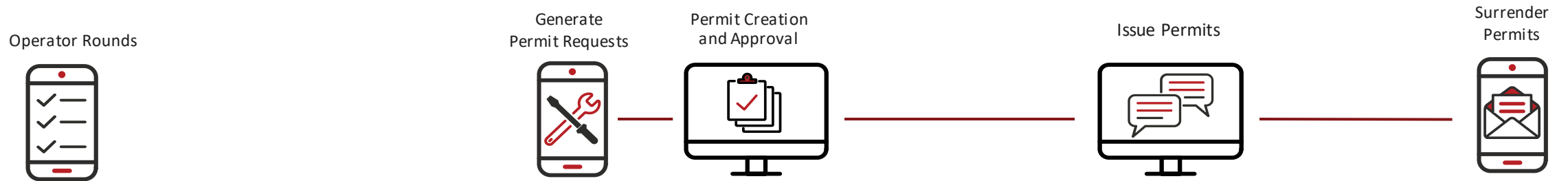


Determine optimal routes for personnel assigned to work orders and operations by minimizing drive time

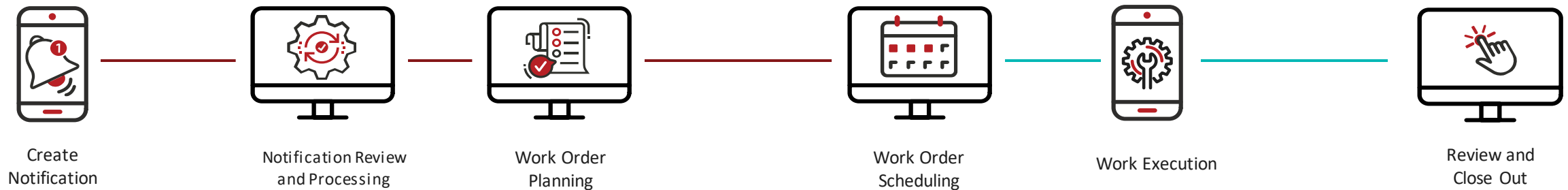
# Digital Transformation Realized

# Routine Work Execution Process

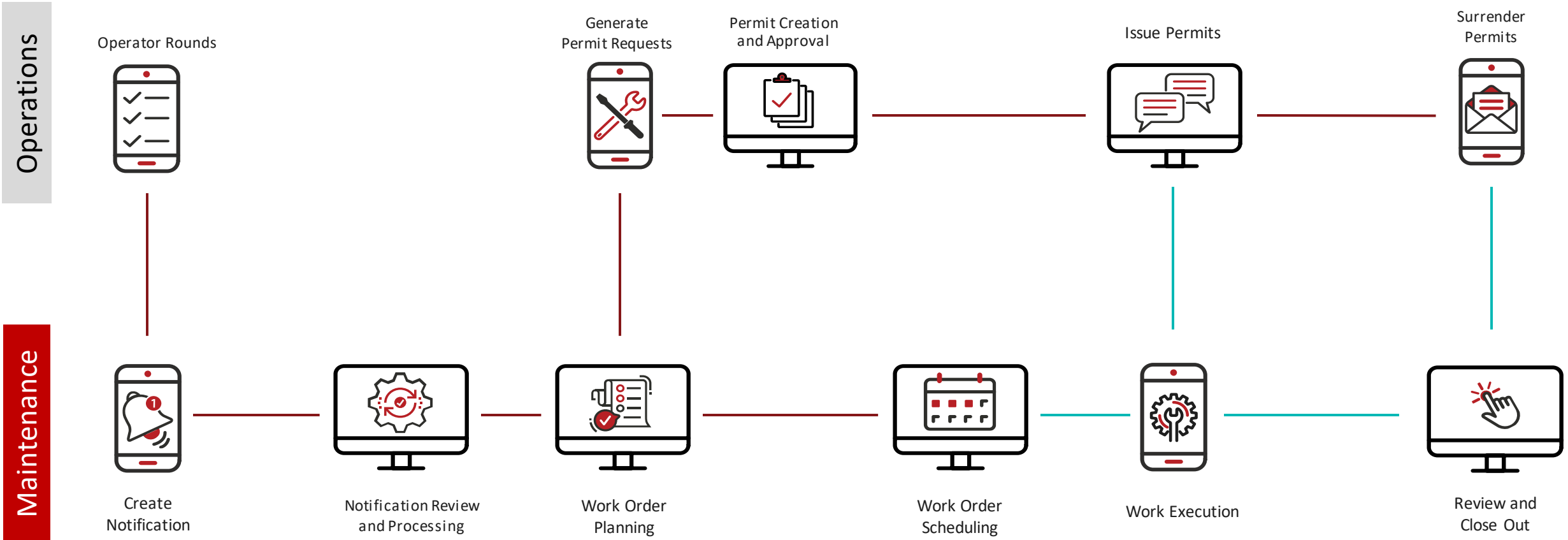
## Operations



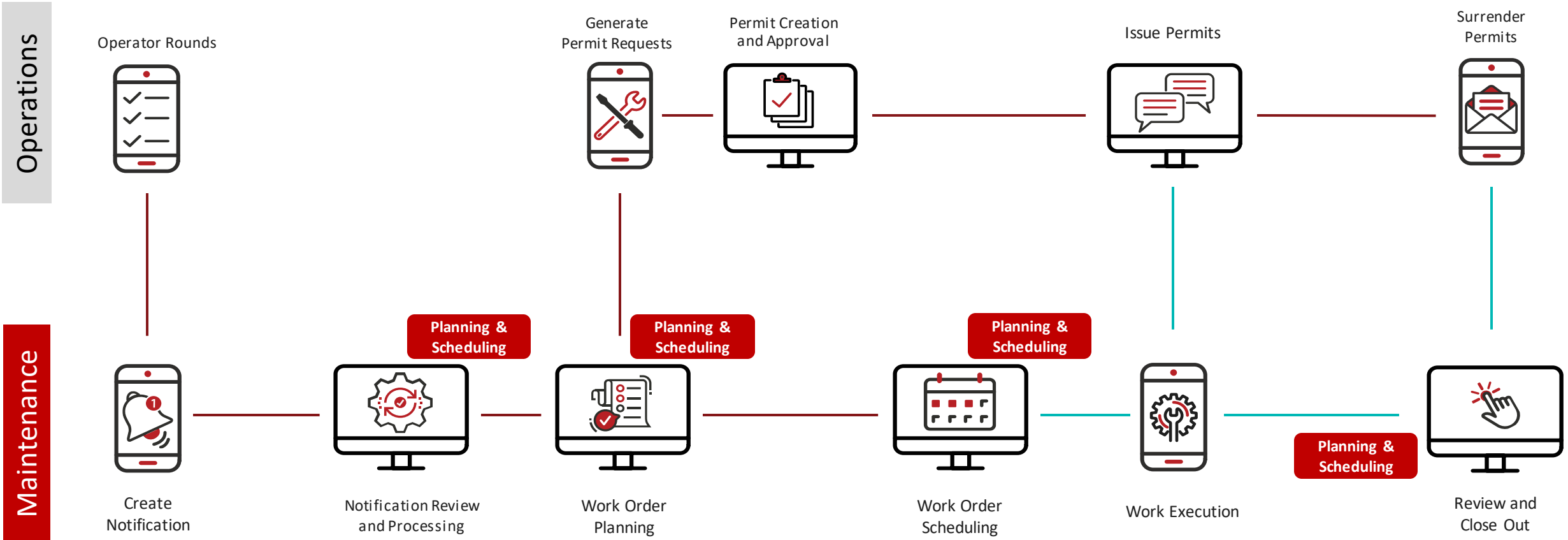
## Maintenance



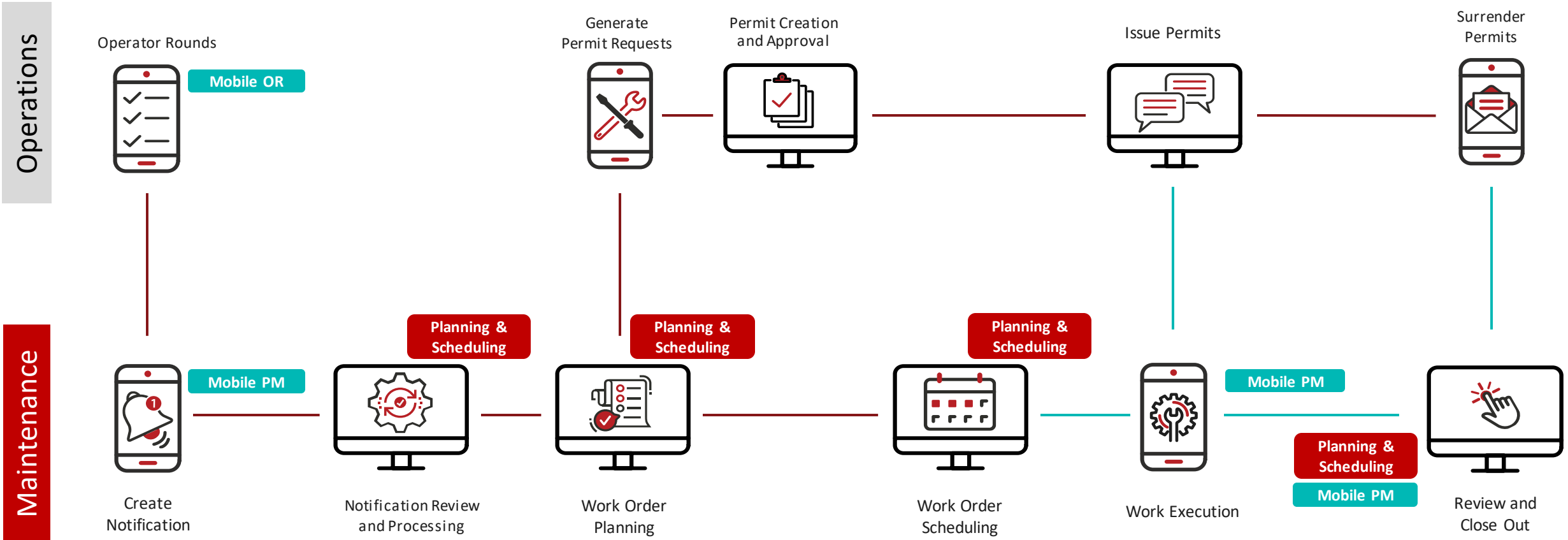
# Optimized Work Execution Process



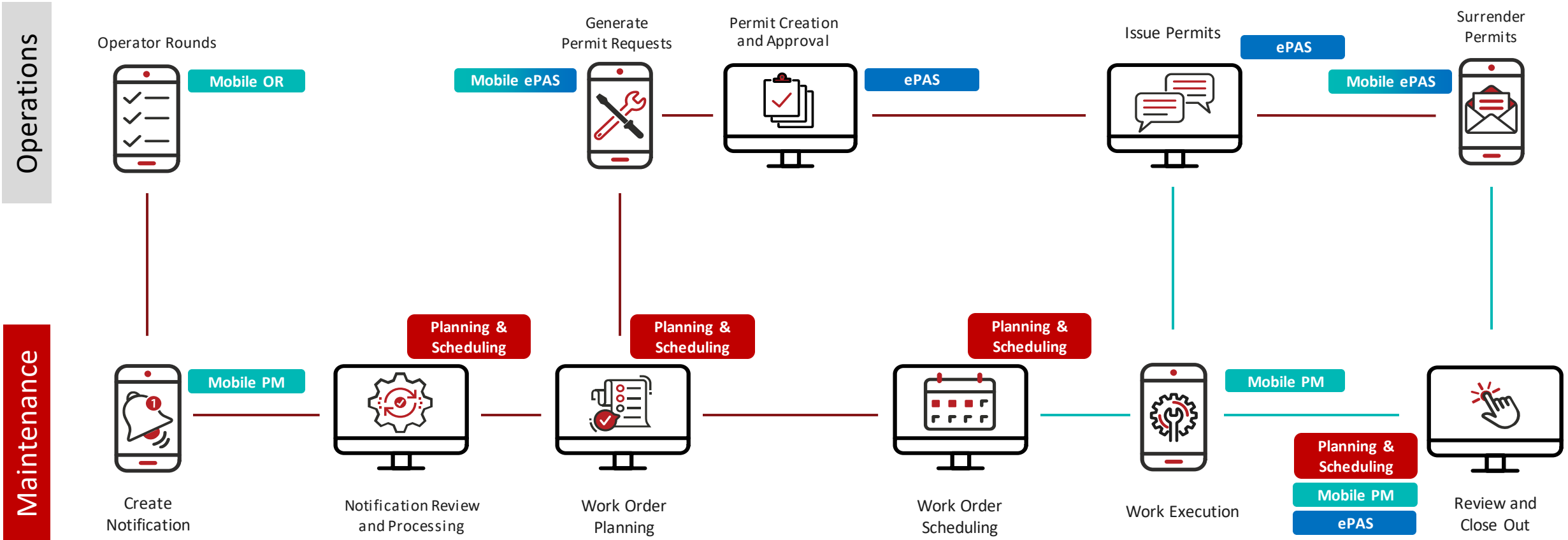
# Prometheus Planning and Scheduling



# Prometheus Mobile

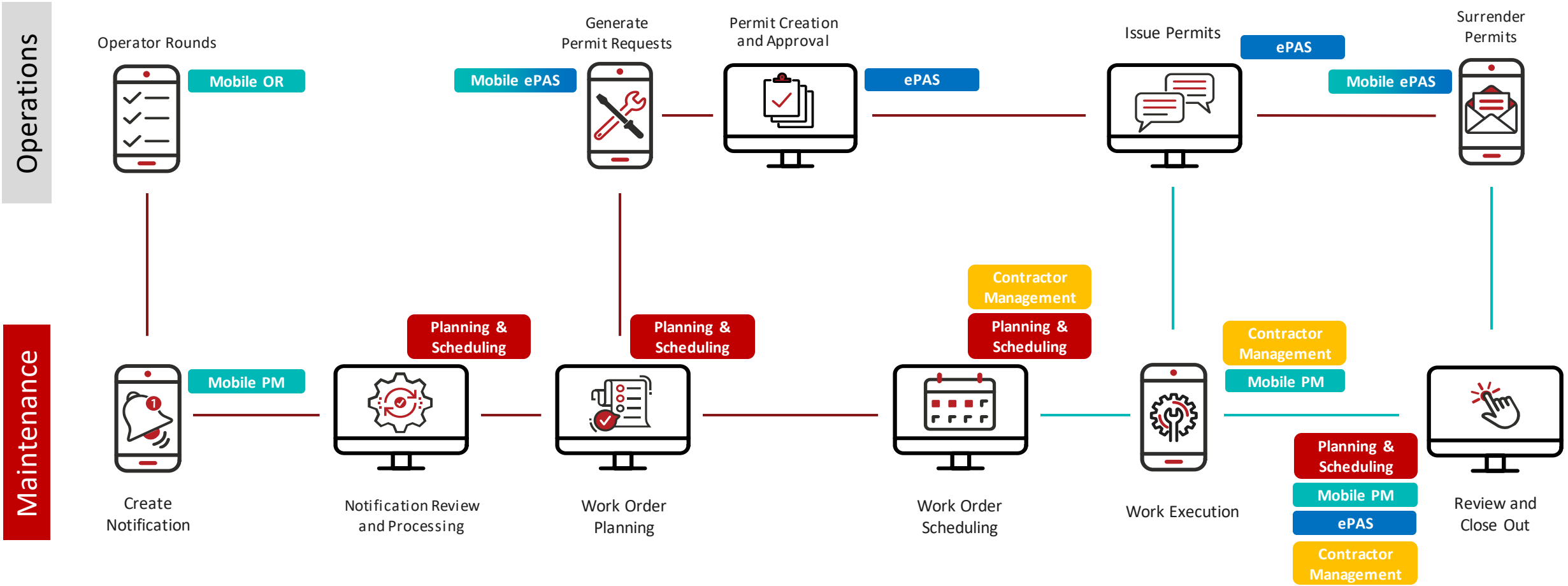


# Prometheus Permitting and Safety





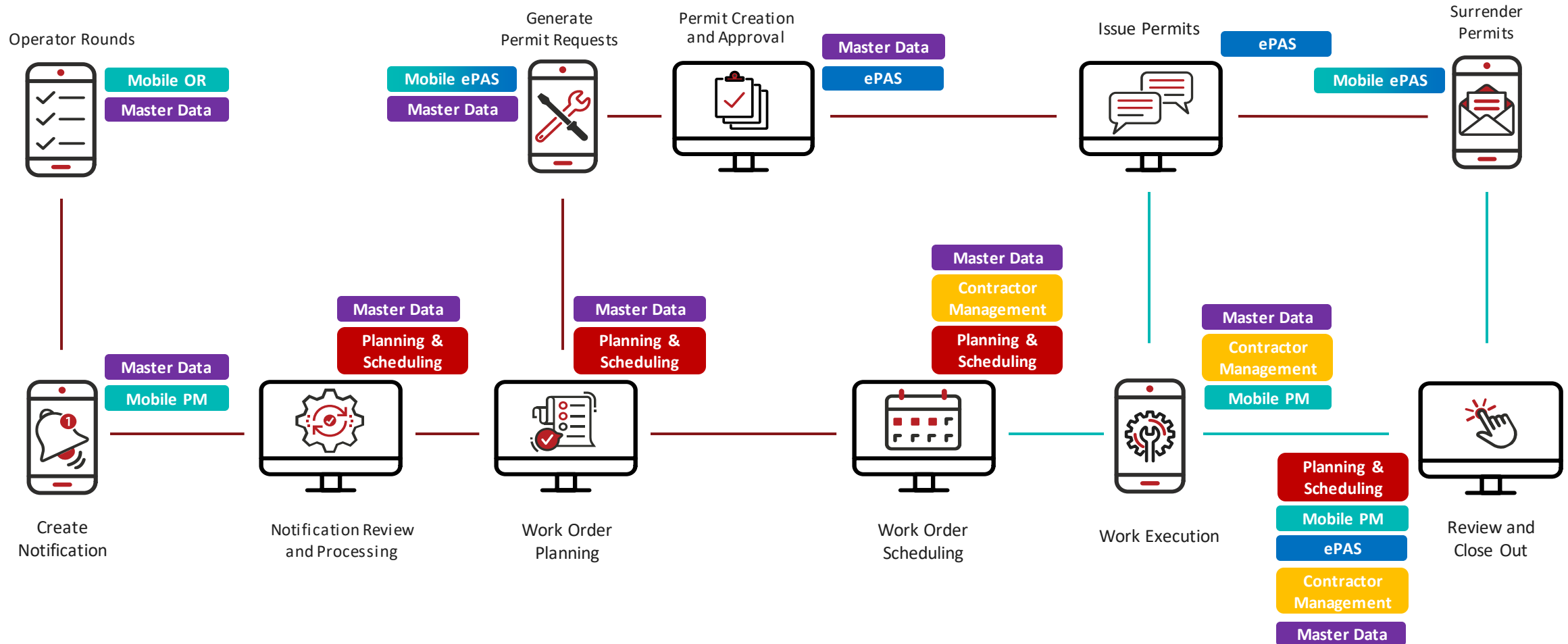
# Prometheus Contractor Management



# Prometheus Master Data (MDaaS)

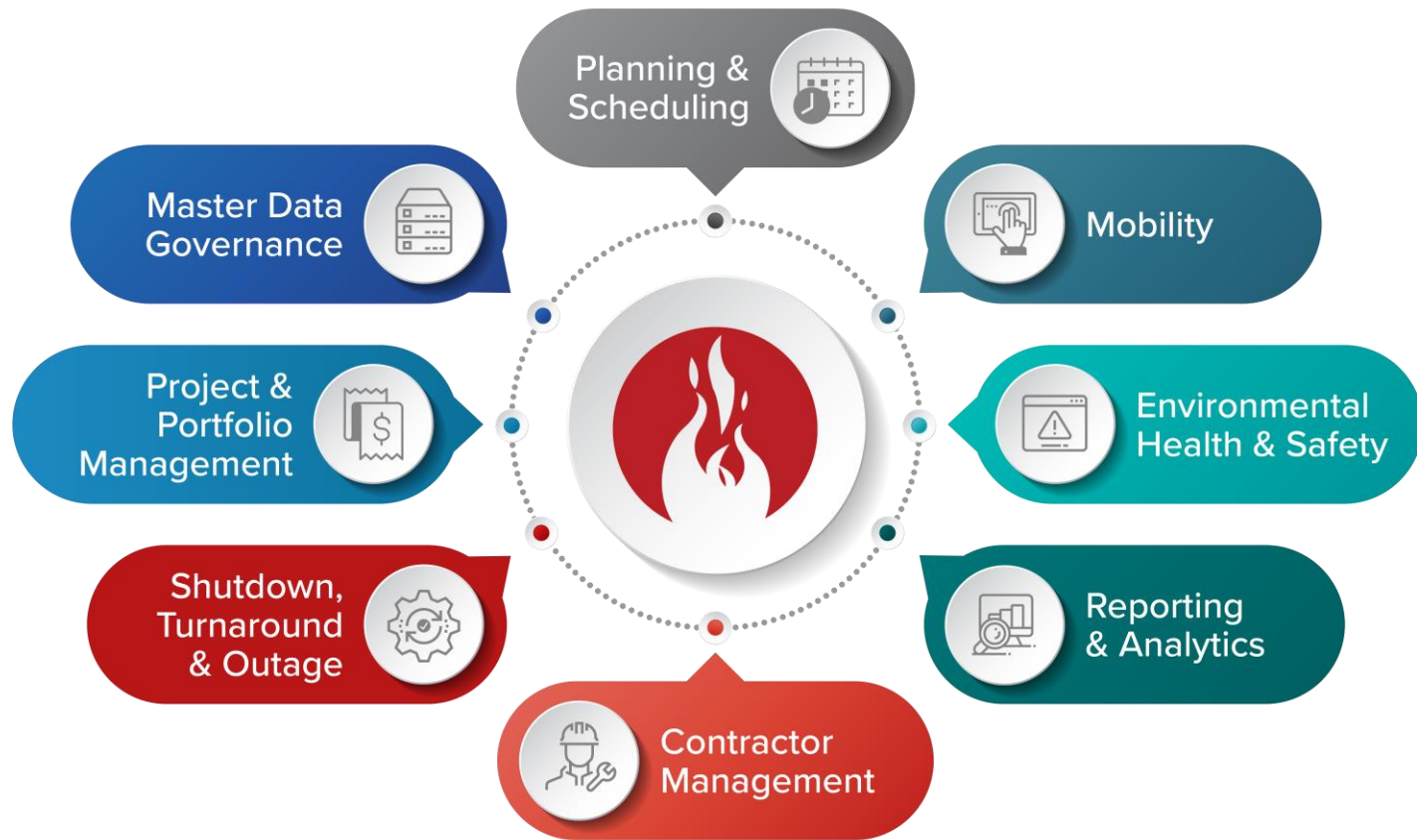
Operations

Maintenance



# Digital Transformation Realized

- Identify the gaps in the process and easy wins to better align maintenance and operations.
- Address all the gaps, without creating an even bigger patchwork of solutions that don't communicate – Commit to the core system
- Prioritize adoption and successful implementation to realize value
- For Prometheus Group, digital transformation lives with the end user
- Accept that change is the only constant, so pick flexibility in your solutions and approach





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