Northwest Utilities Day 2020

What's Your Plan for the Future?

Intelligent Asset Management for the Real Time Enterprise

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Dominic Brennan, SAP

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Who knows that we launched IAM?

SAP® Intelligent Asset Management – Powering the Digital Transformation of Asset Management

Figure 1: Strong Recognition of Need for Intelligent Asset Management

76%
Of organizations consider it important to **predict potential failures** by leveraging data models

21%
Of organizations employ **predictive and preventive maintenance** effectively

83%
Of organizations consider it important to have asset management processes and related metrics standardized across facilities and regularly tracked

13%
Of organizations are able to drive asset performance based on analysis of real-time sensor data, along with historical maintenance data

Whitepaper available here:
https://www.sap.com/documents/2016/12/0421b662-9f7c-0010-82c7-eda71af511fa.html

SAP Intelligent Asset Management

Capabilities & solutions

Asset Network and Collaboration

SAP Asset Intelligence Network

Asset Strategy and Performance

SAP Asset Strategy and Performance Management

Asset Health Prediction and Optimization

SAP Predictive Maintenance and Service

SAP Predictive Engineering Insights Enabled by ANSYS

Mobile Asset Management

SAP Asset Manager

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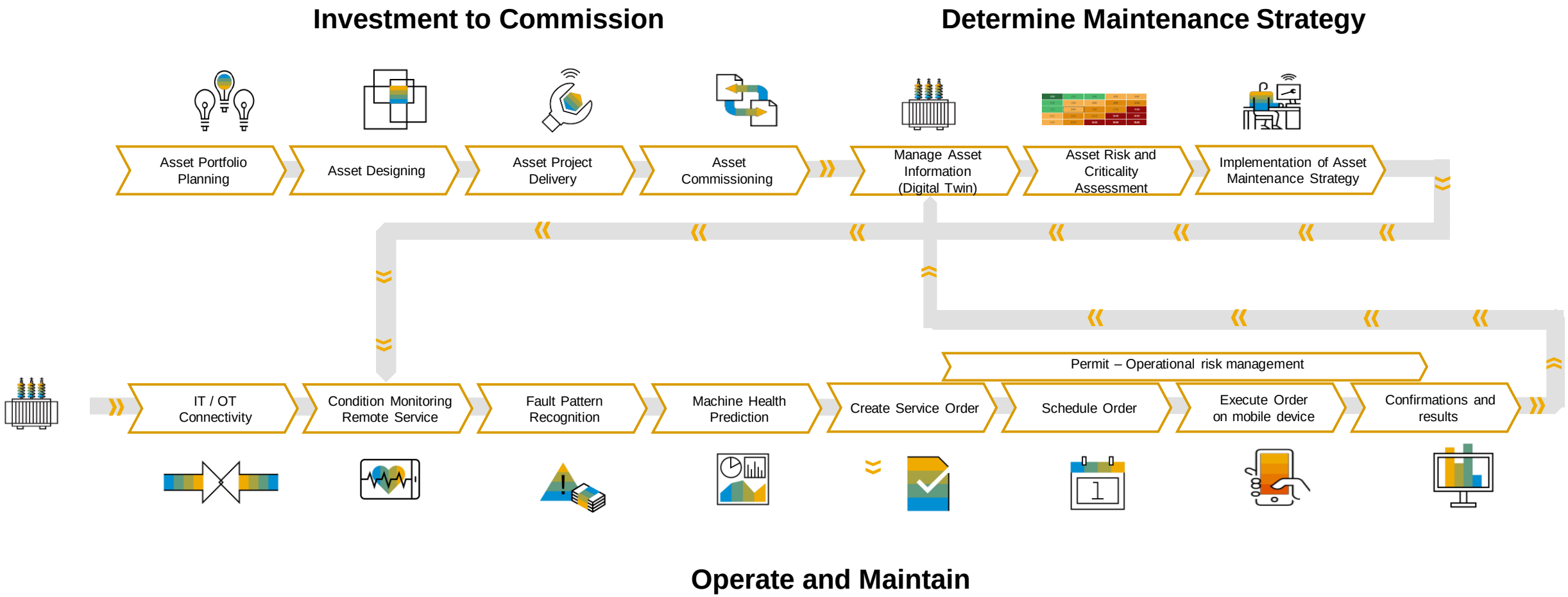
The Asset Life-cycle



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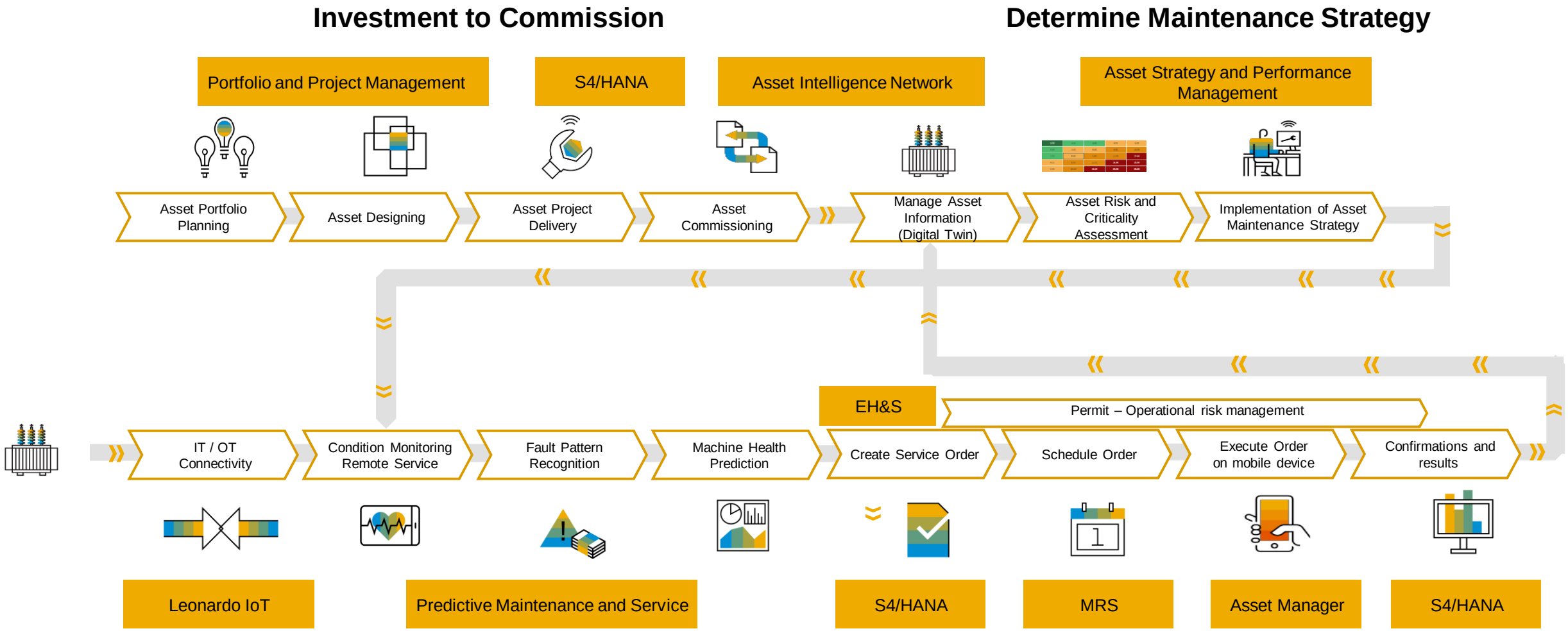
Asset Life-cycle & related SAP Solutions



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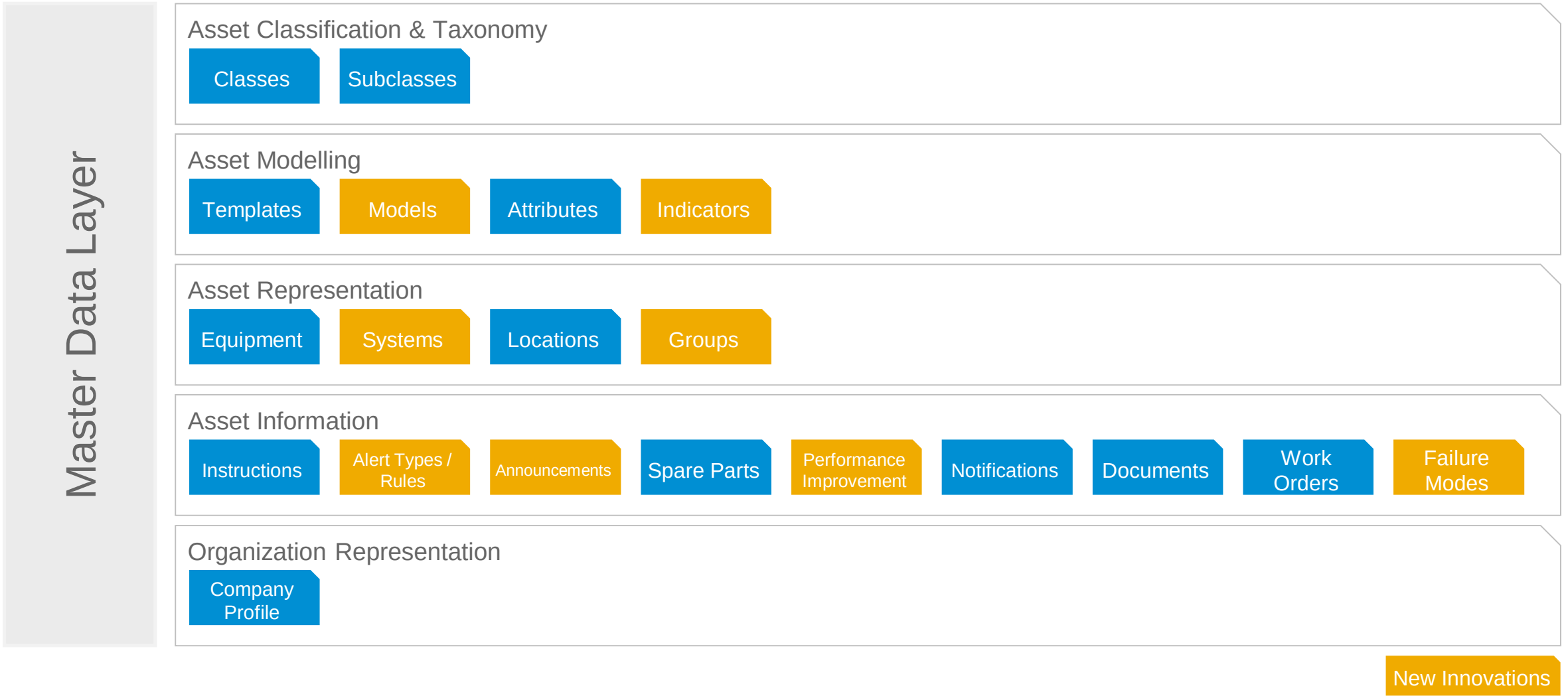
SAP Asset Central Foundation
Collaborative Data Model



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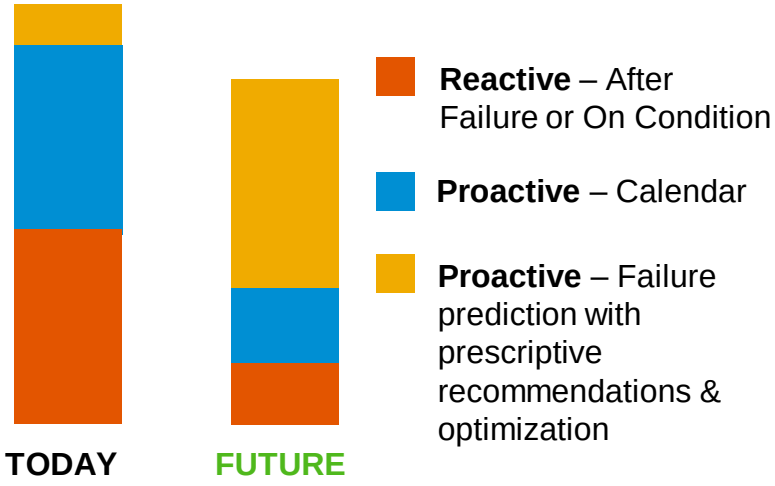
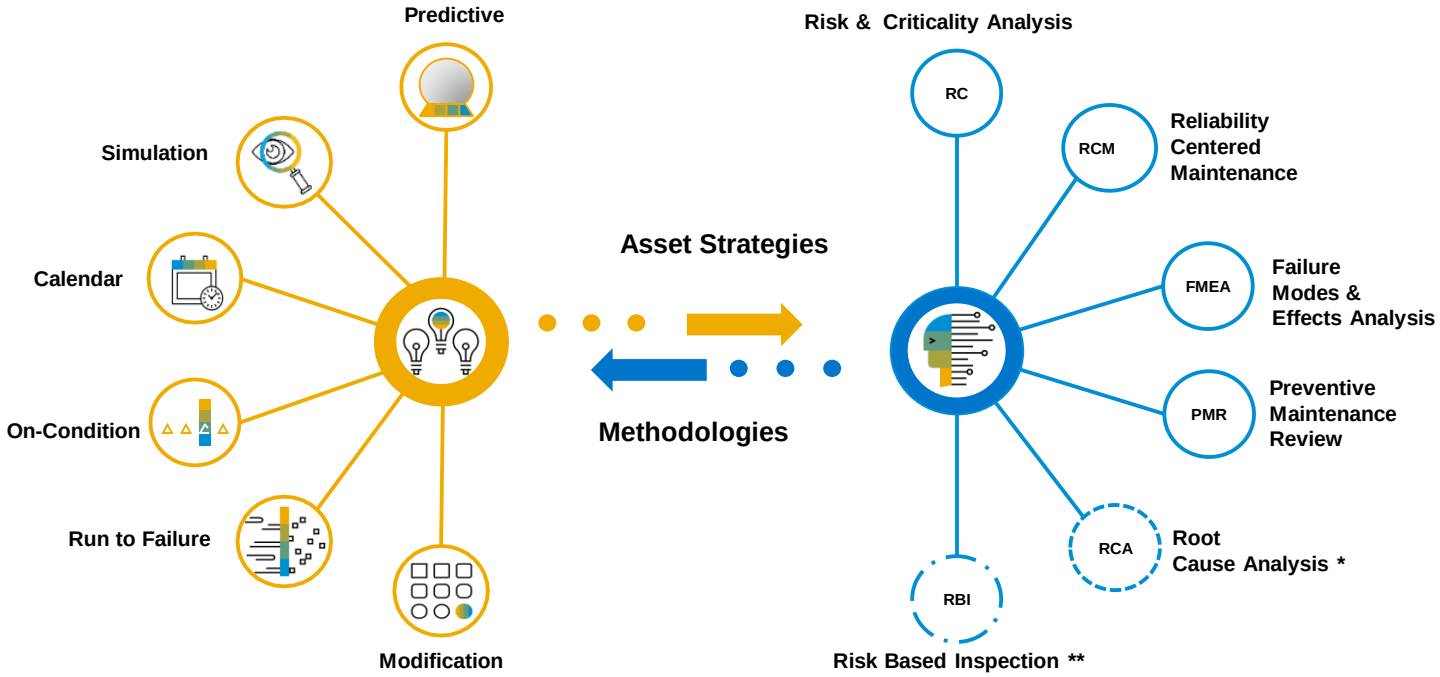
Evolve from reactive to reliability-centered & prescriptive maintenance

Calendar based maintenance results in **over-maintaining** assets at higher costs / less availability

Reactive based maintenance is too late for efficient planning and optimization



Intelligent Asset Management supports **data driven proactive** strategies with execution and optimization based on reliability & other goals. This achieves the delicate balancing of **profitability, asset health** and **availability**



*Future Functionality
** Partner Solution

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Asset Strategy & Performance

Why do some RCM initiatives fail to deliver?

The challenge lies with the difficulty of implementation:

- Existing RCM tools are disconnected from SAP
- Loading RCM recommendations into EAM is difficult.
- Once loaded, RCM task justification is lost
- Measuring results over time is difficult.
- Keeping the RCM process evergreen is nearly impossible.

The Result… most RCM initiatives are one-time exercises, not “living programs”.

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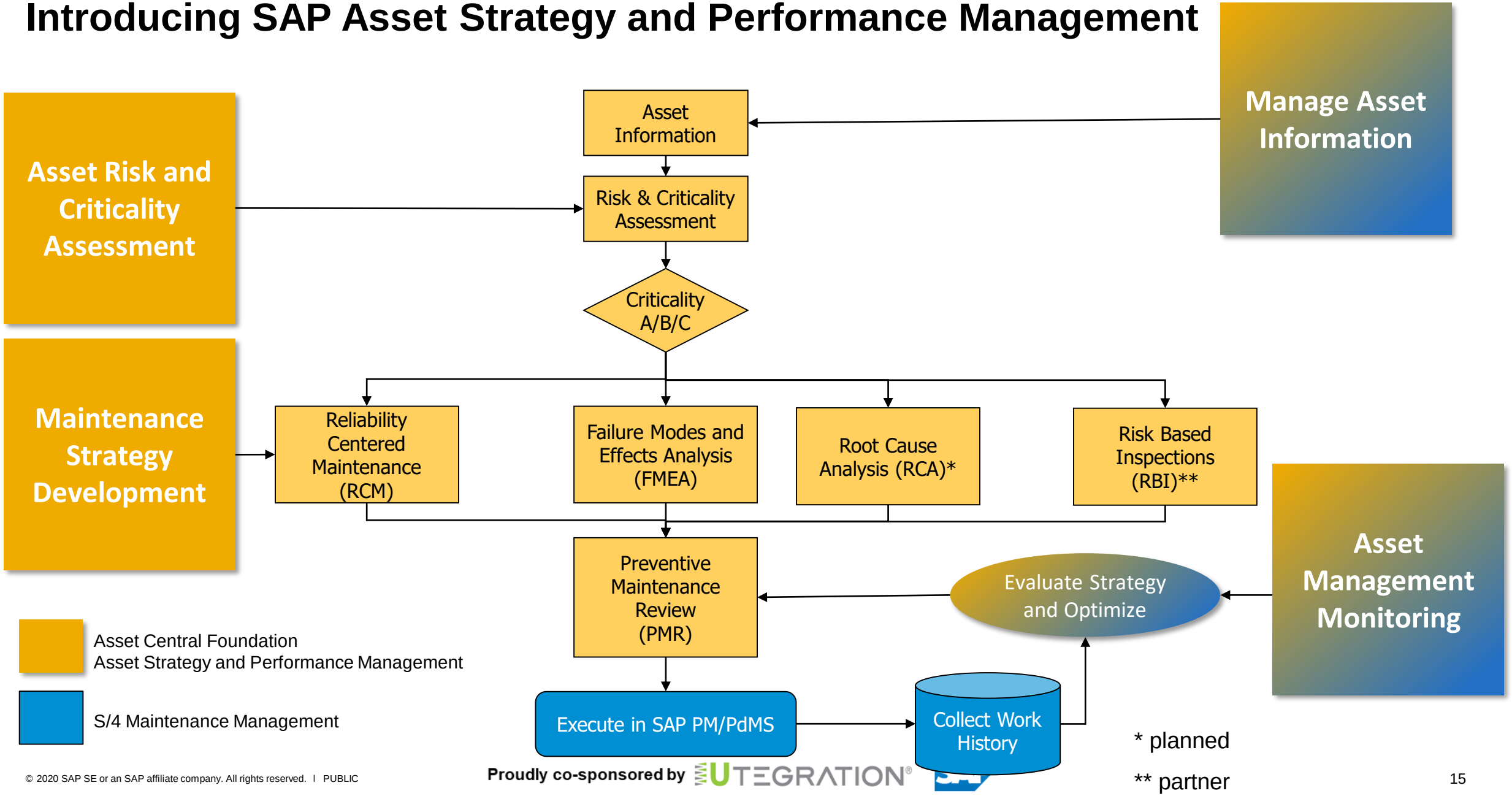
Introducing SAP Asset Strategy and Performance Management



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Summary

Recommended End State for Intelligent Asset Management

1	2	3	4	5	6	7
Collect Asset Information	**Collaborate for better information**	**Perform Risk and Strategy Assessments**	**Generate Dynamic Demands**	**Plan, Approve & Orchestrate**	**Schedule & Dispatch**	**Mobile Execution**
An central repository of information to have complete knowledge about each of your assets	Connect with business partners to have the best living asset data	Know the importance of every asset, measure its performance and have a recommendation for its life	Generate dynamic maintenance demands based on time and predicted indicators	Single backlog for all work types, orchestrated with supply chain, procurement and finance	Intelligent optimization & prioritization of work with capacity management and resource assignment	Using native application on mobile device to keep technician close to the machines and away from the desk
Key Enabler S/4HANA + Asset Central Foundation (with Utopia Extensions)	**Key Enabler** Asset Intelligence Network	**Key Enabler** Asset Strategy & Performance	**Key Enabler** Predictive Maintenance	**Key Enabler** S/4HANA Maintenance Execution	**Key Enabler** Maintenance Scheduling	**Key Enabler** Mobile Asset Manager
Outcome Structured and complete information provides the foundation for automated decisions	**Outcome** Leverage knowledge beyond your companies four walls to always be up to date	**Outcome** Know which assets to focus on and ensure complete coverage with the best recommendations	**Outcome** Reduction in unnecessary and un-planned work, automating what 'needs to be done' for “zero unplanned downtime”	**Outcome** Optimal balance of pro-active and reactive maintenance, with reduced inventory and costs	**Outcome** Reduction in manual planning, improved resource utilization and better asset up-time	**Outcome** Less trips back to the office and better real time visibility of work being executed

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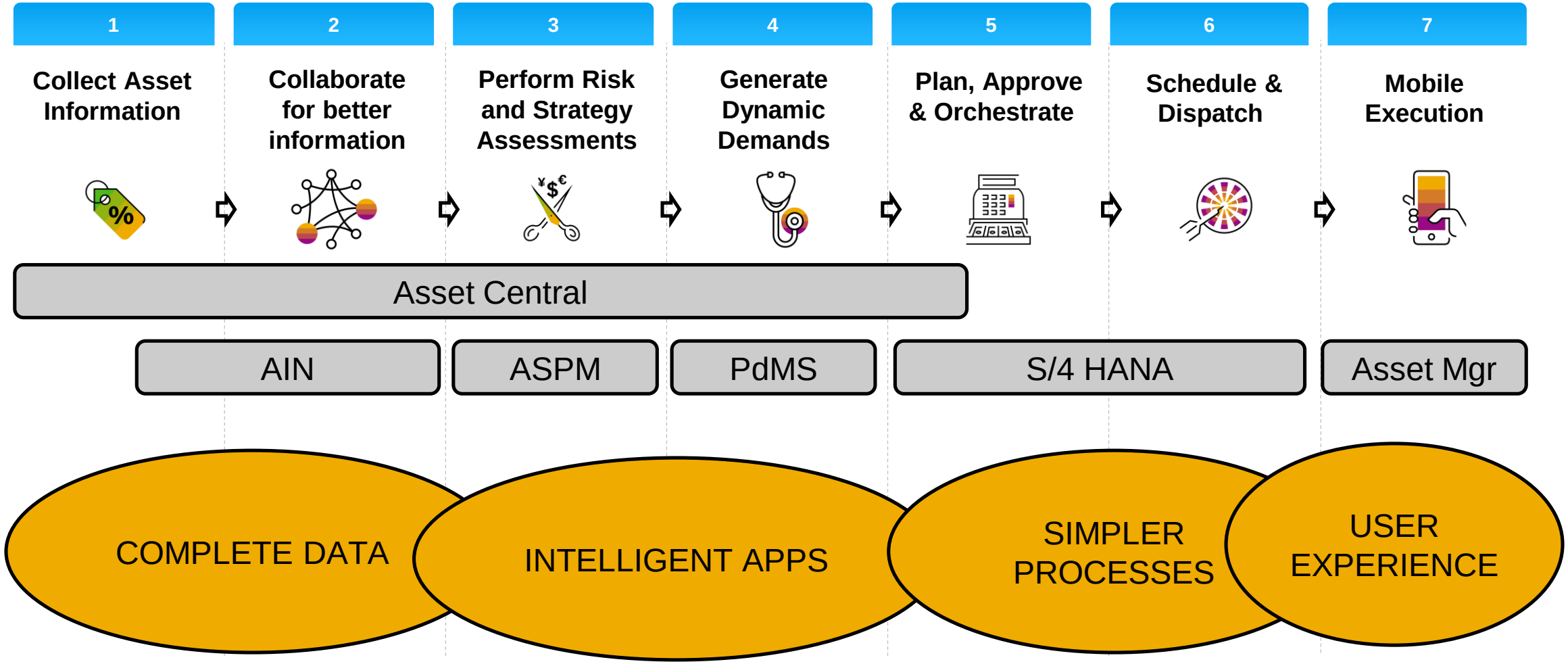
Recommended End State for Intelligent Asset Management



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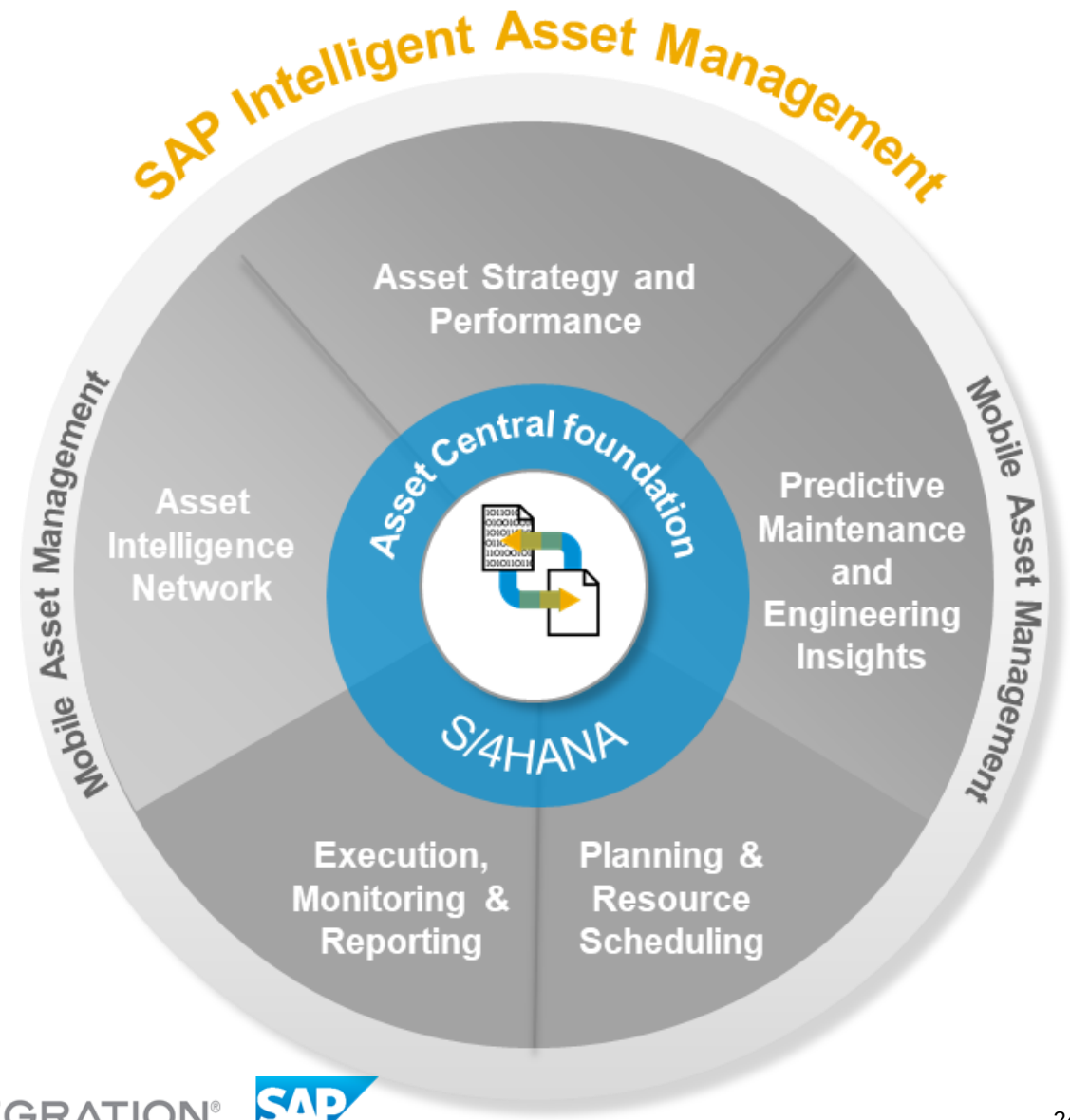

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Thank you.

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