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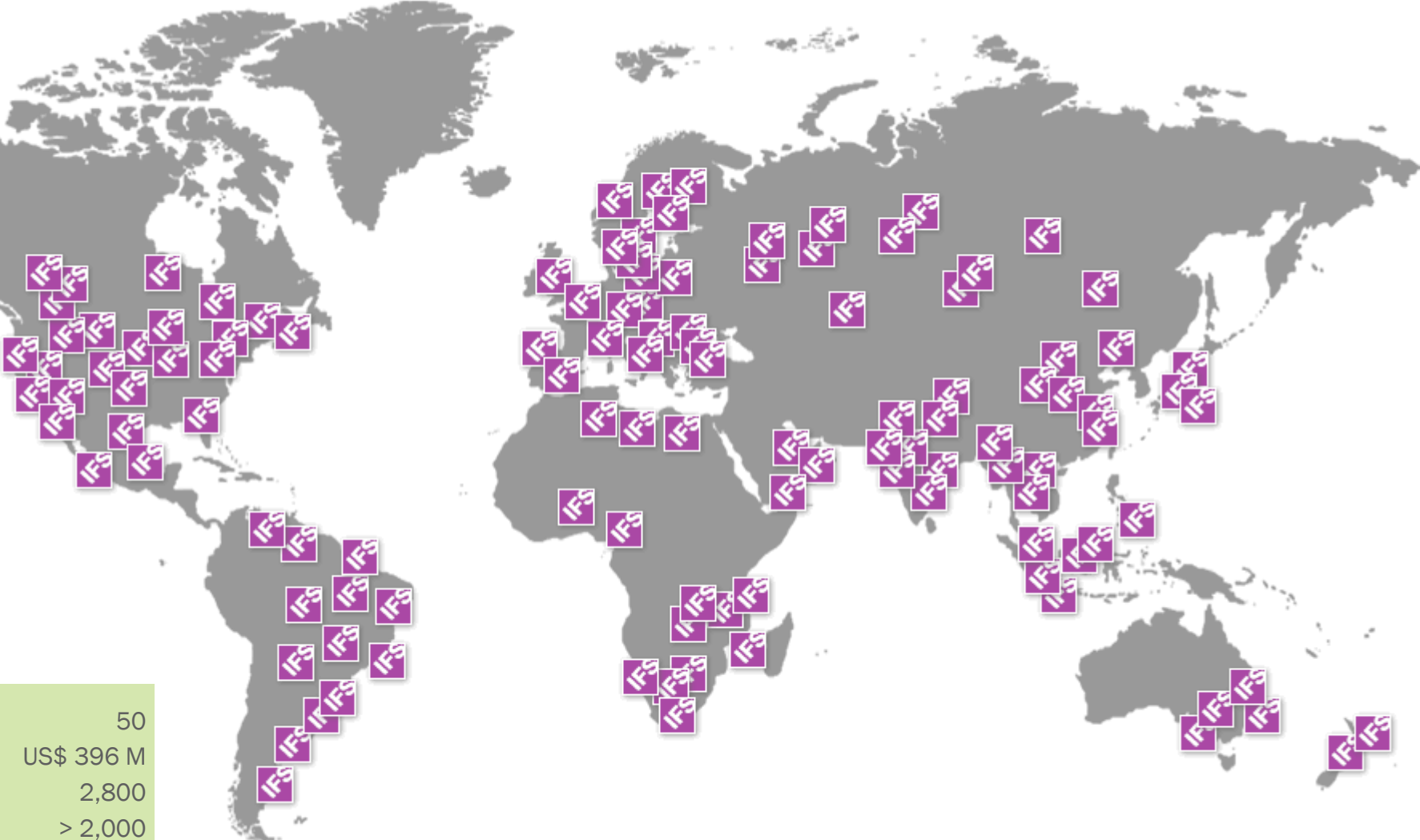
**SUPPLY CHAIN:
AN INTEGRAL PART OF THE ASSET LIFECYCLE**



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GLOBAL BUSINESS SOFTWARE PROVIDER SPECIALISING IN ASSET LIFECYCLE MANAGEMENT



COUNTRIES	50
NET SALES	US\$ 396 M
EMPLOYEES	2,800
CUSTOMERS	> 2,000
LANGUAGES	20



EXAMPLE IFS CUSTOMERS



2012: IFS #1 IN O&G FOR EAM SOLUTIONS

4/23/2012 | Press Release | Linköping

IFS APPLICATIONS SOFTWARE NUMBER ONE IN ENTERPRISE ASSET MANAGEMENT FOR OIL AND GAS

IFS, the global enterprise applications company, has been identified as the number one vendor globally in enterprise asset management (EAM) software for the oil and gas industry by ARC Advisory Group, the leading information technology research and advisory firm for industry and infrastructure.

ARC Advisory Group, in its new publication "Enterprise Asset Management and Field Service Management, Five Year Market Analysis and Technology Forecast through 2015," indicates that IFS Applications holds a dominant market share position in oil and gas globally. The IFS Applications EAM suite is used widely by engineer, procure, construct (EPC) contractors serving the industry, by oil field service companies, and even by upstream oil and gas producers worldwide.

"The asset intensive oil and gas industry has many project-driven improvements with tight turnaround schedules to minimize downtime," ARC Advisory Group Research Director Ralph Rio said. "Assets are often being altered through upgrades, retrofits, overhauls and other projects for asset lifecycle extension and productivity improvement. Project management and real-time visibility have become key needs in EAM software.

"Project management and asset integrity management are both critical concerns for our customers in the oil and gas industry," Director of the IFS Oil & Gas industry team, Carl-Magnus Adamsson said. "This means that an integrated solution that handles not only maintenance functions but all phases of the asset lifecycle is required. IFS Applications is unique in delivering a solution that handles the asset lifecycle, from asset planning and engineering, through construction, commissioning, operation and maintenance all the way through refits, lifecycle extensions and eventual decommissioning and replacement. The industry has already seen the problems that result when asset data is not organized and well managed. There is a renewed interest in ensuring that everyone is operating from one set of asset data so good decisions can be made to ensure asset integrity."

For more information on ARC's findings, visit <http://www.arcweb.com/Research/Studies/Pages/EAM.aspx> to view an overview or obtain the full length report.

2012 NEW CUSTOMER WIN



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IFS RECEIVES ORDER FOR IFS APPLICATIONS FROM MAERSK

IFS, the global enterprise applications company, announces that Maersk Drilling and Maersk Supply Service have chosen IFS Applications. The contract includes licenses and services worth USD 11.5 million.

Maersk Drilling and Maersk Supply Service are global leaders in the oil & gas and offshore marine services industries. To streamline business processes and optimize efficiency, Maersk Drilling and Maersk Supply Service decided to implement IFS Applications as their global ERP solution.

The IFS solution purchased by Maersk includes components for financials, project management, supply chain management, and maintenance.

The implementation will start immediately.





BEFORE WE START.....

ASSET MANAGEMENT

DEFINITION

THE SYSTEMATIC AND COORDINATED PRACTICES THROUGH WHICH AN ORGANIZATION OPTIMALLY AND SUSTAINABLY MANAGES ITS ASSETS AND ASSET SYSTEMS, THEIR ASSOCIATED PERFORMANCE, RISKS AND EXPENDITURES OVER THEIR LIFE CYCLES FOR THE PURPOSES OF ACHIEVING ITS ORGANIZATIONAL STRATEGIC PLAN

ASSET MANAGEMENT SYSTEM STRUCTURE

Figure 4 – Overview of the asset management system, its relationship to the organizational strategic plan and stakeholder expectations

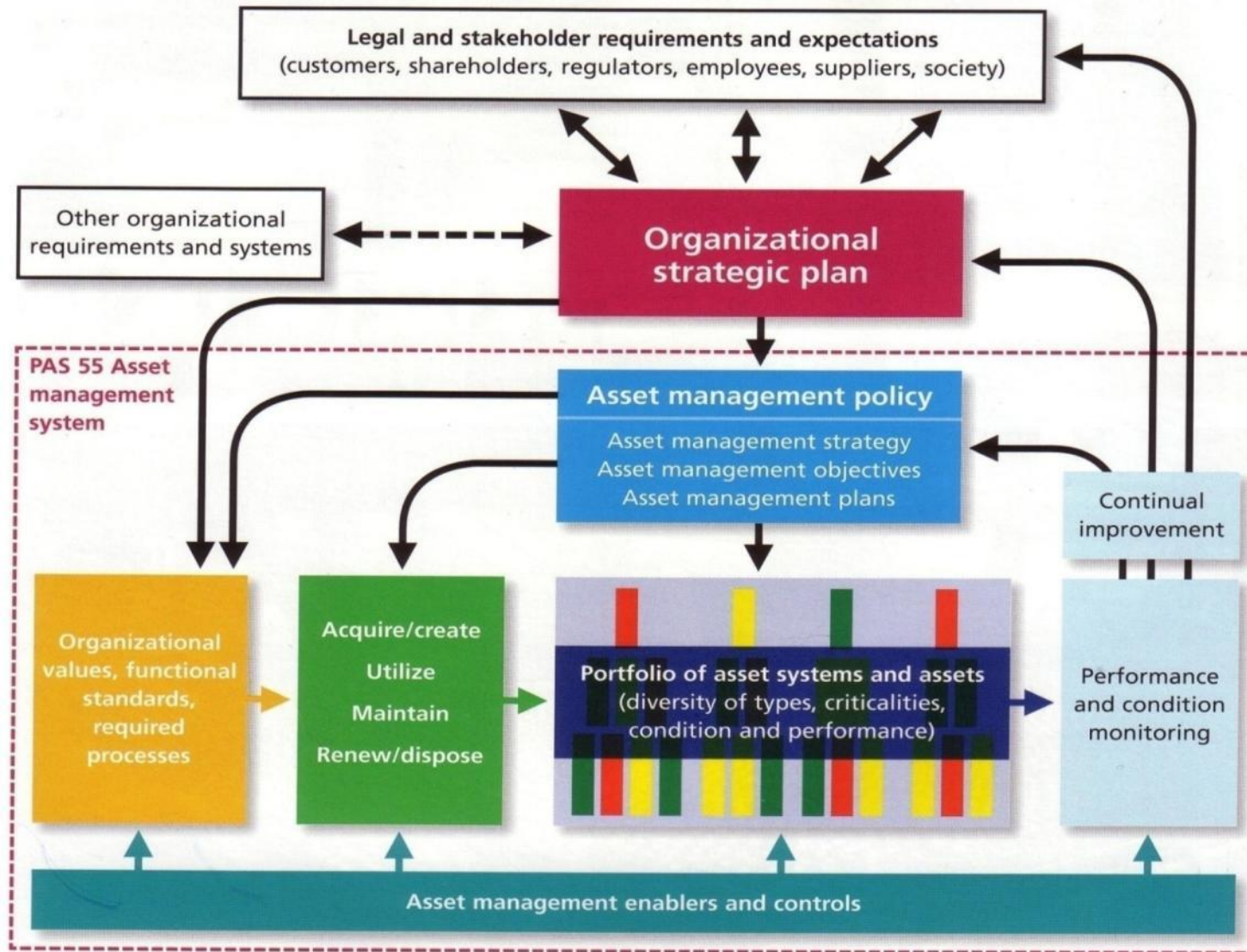
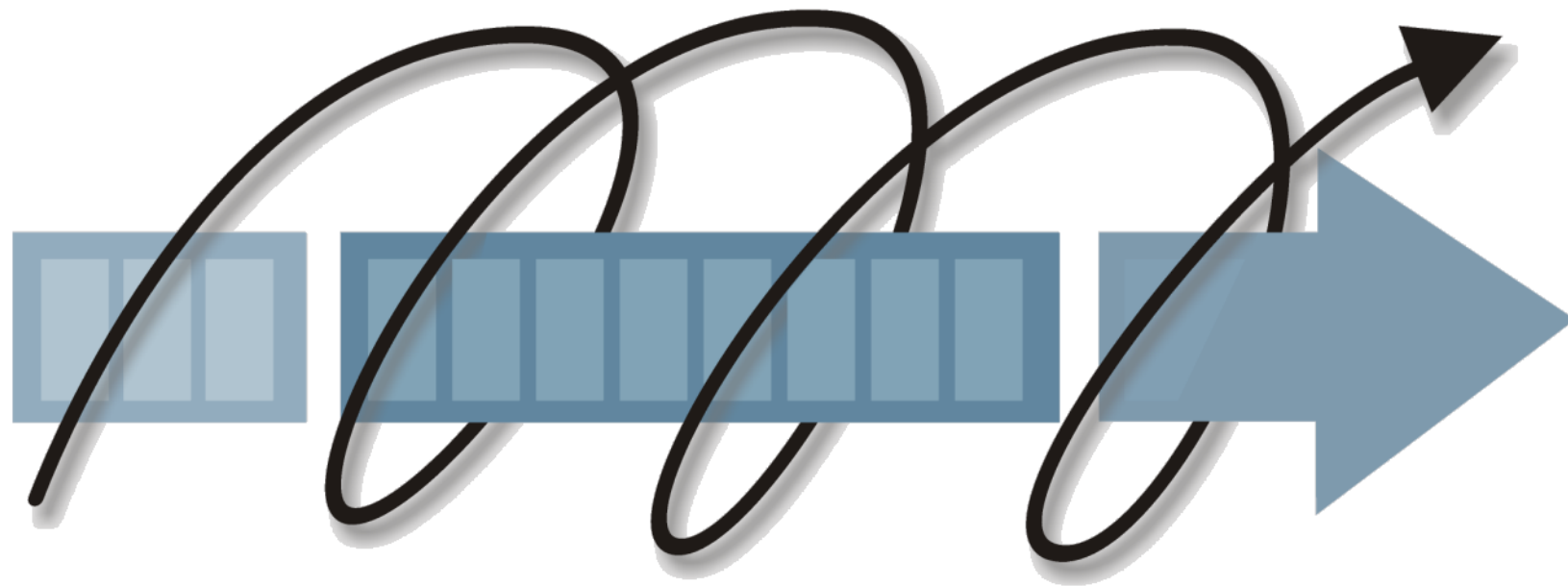


FIGURE FROM PAS 55-1:2008, BRITISH STANDARDS INSTITUTE, SEPT 2008

THE LIFECYCLE OF A FACILITY



1-5 years

DESIGN/ REDESIGN

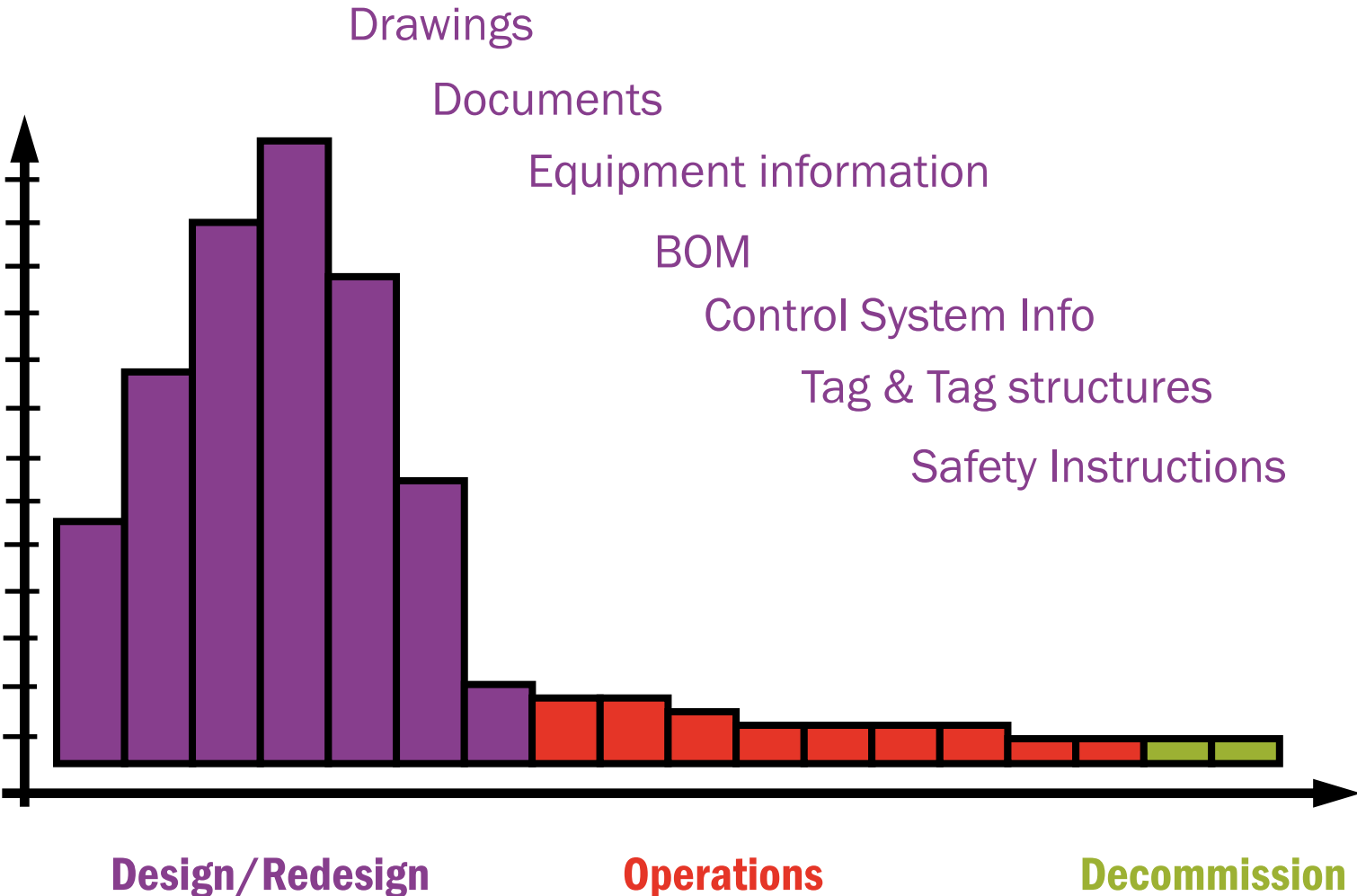
30-60 years

**OPERATION AND
MAINTENANCE**

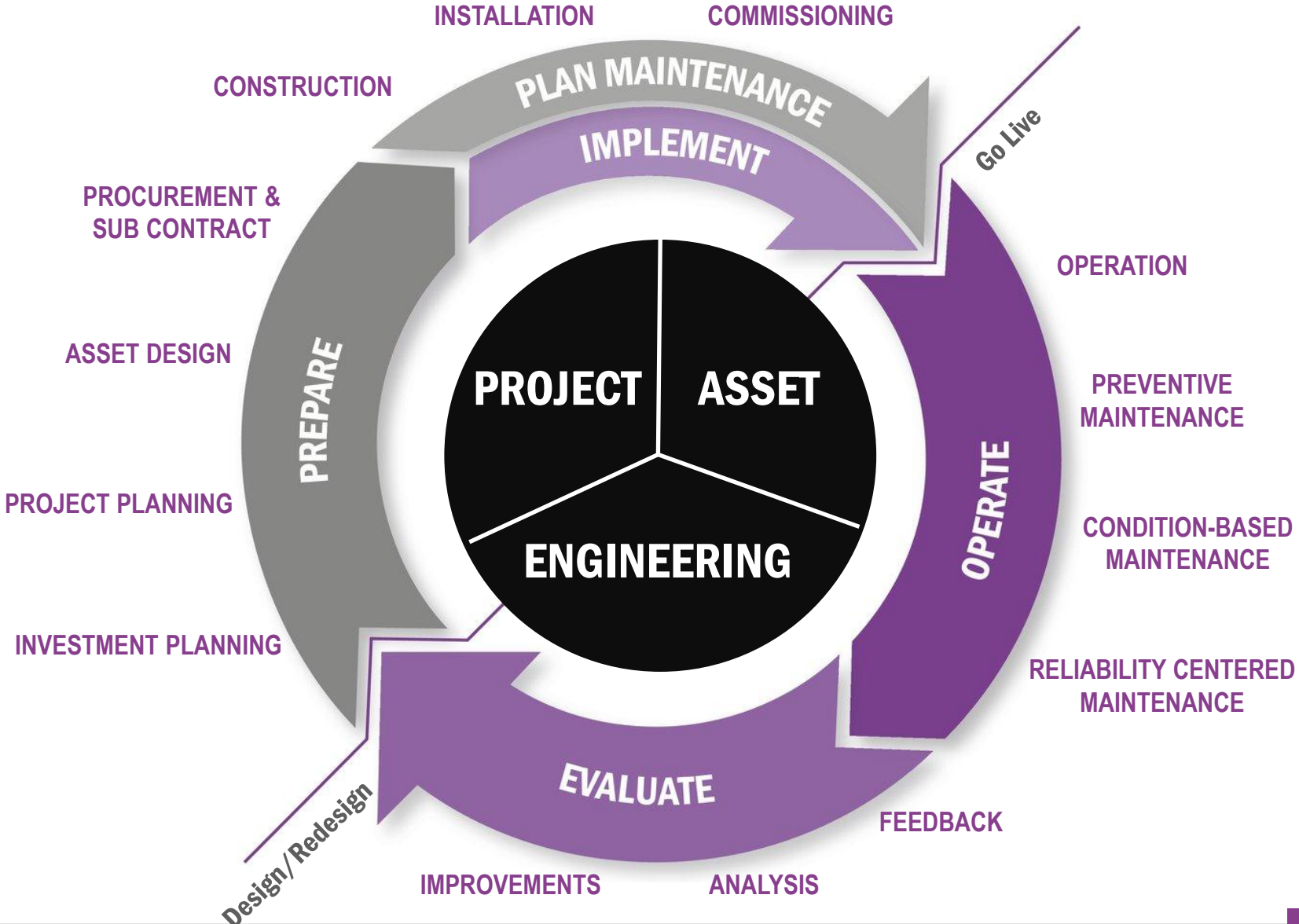
<5 year

**DECOMMISSIONING
SCRAPPING**

CREATION OF FACILITY INFORMATION



COMPLETE LIFECYCLE SUPPORT

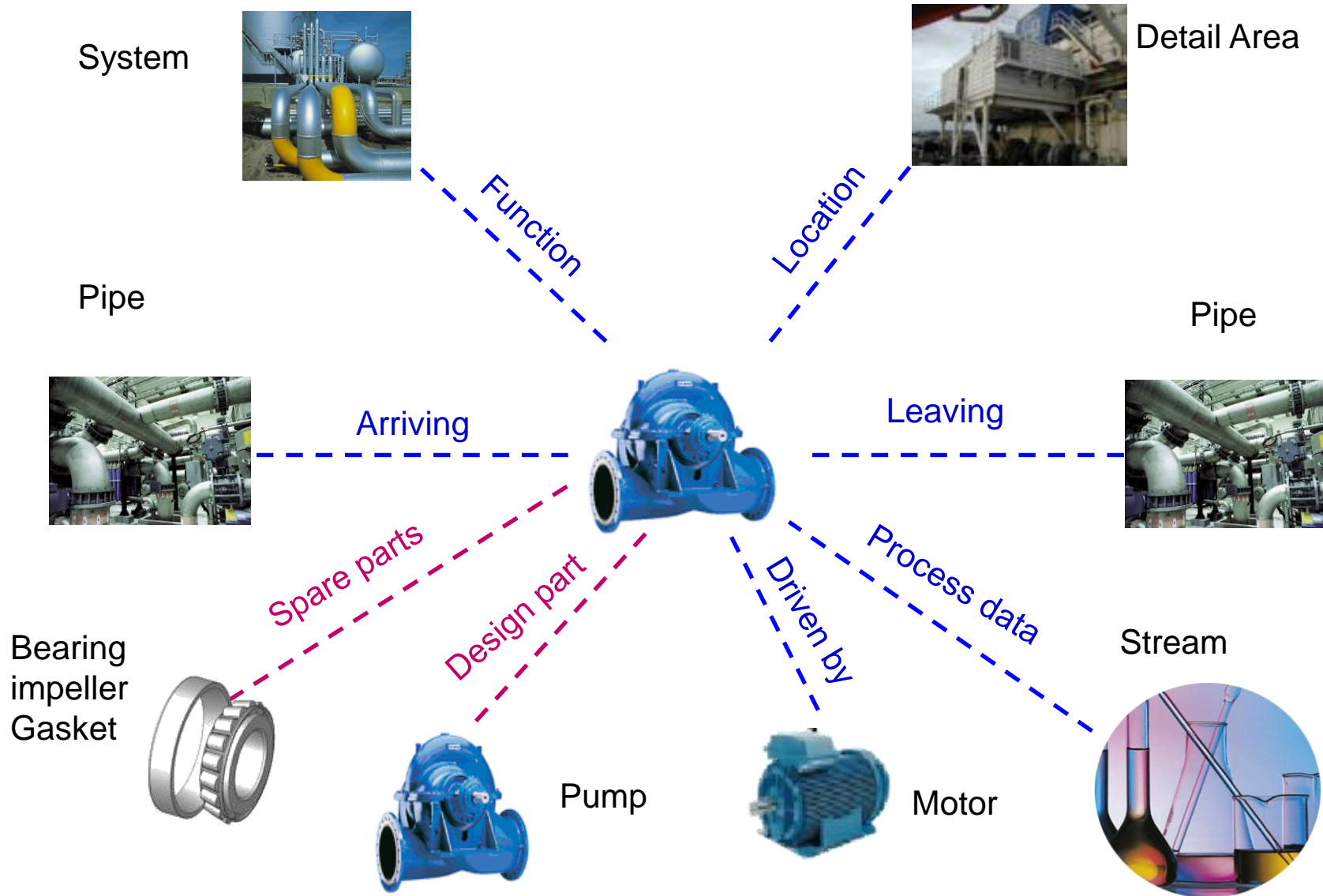


A large offshore oil rig is silhouetted against a sunset sky. The rig is illuminated with lights, and a flare on the right side is emitting a bright flame. The sea is dark blue with some whitecaps.

**HOW CAN ALM IMPACT AND IMPROVE
SUPPLY-CHAIN?**

STANDARDS BASED ASSET DESIGN

INTEGRATED ASSET DEFINITION



THE POWER OF STANDARDS

IFS Navigator

Shortcuts

IFS Applications

- PIPE FITTING FLANGE
- PIPE FITTING TEE EQ
- PIPE FITTING TEE REI
- PIPE PART - Pipe Par
- POWER CABLE - Pow
- PROCESS COMPONEN
- PROCESS MEDIA - Ch
- PUMP CENTRIFUGAL - Centrifugal Pump
 - 10600010 - 1, Pump Centrifugal APP3
 - 10520001 - 1, Single Roller Bearing
 - Documents
 - Additional Part For
 - PM-311-PA-001, Feed Water Pump 001
 - PM-311-PA-002, Feed Water Pump 002
 - PM-311-PA-003, Feed Water Pump 003
 - PM-312-PA-001, Pulp Pump 1
 - PM-312-PA-002, Pulp Pump 2
 - PM-312-PA-003, Fresh Water Feed Pump
 - PM-312-PA-004, Pulp Feed Pump to Filter
 - PM-315-PA-001-A, Condensate Return Pump A
 - PM-315-PA-001-B, Condensate Return Pump B
 - PM-411-PA-001, Feed Water Pump 001
 - PM-411-PA-002, Feed Water Pump 002
 - PM-411-PA-003, Feed Water Pump 003
 - PM-412-PA-001, Pulp Pump 1
 - PM-412-PA-002, Pulp Pump 2
 - PM-412-PA-003, Fresh Water Feed Pump
 - PM-412-PA-004, Pulp Feed Pump to Filter
 - PM-412-PA-005, Pulp Feed Pump to Filter
 - BelongsTo
- TANK CYLINDRICAL
- TERMINAL RACK - Te
- VALVE BALL - Ball V
- VALVE CHECK - Che
 - 20600150 - 1, Ch
 - 20600151 - 1, Ch
 - 20600152 - 2, Check Valve, Ir
- VALVE CONTROL - Control Valve
 - 10600040 - 1, Control Valve 2
 - 10600041 - 1, Control Valve 2
 - 10600042 - 1, Control Valve 2
- VALVE GATE - Gate Valve
 - 20600160 - 1, Gate Valve, 800

Select Indexed Locations...

Which Assets use this Spare?

are of
ation?

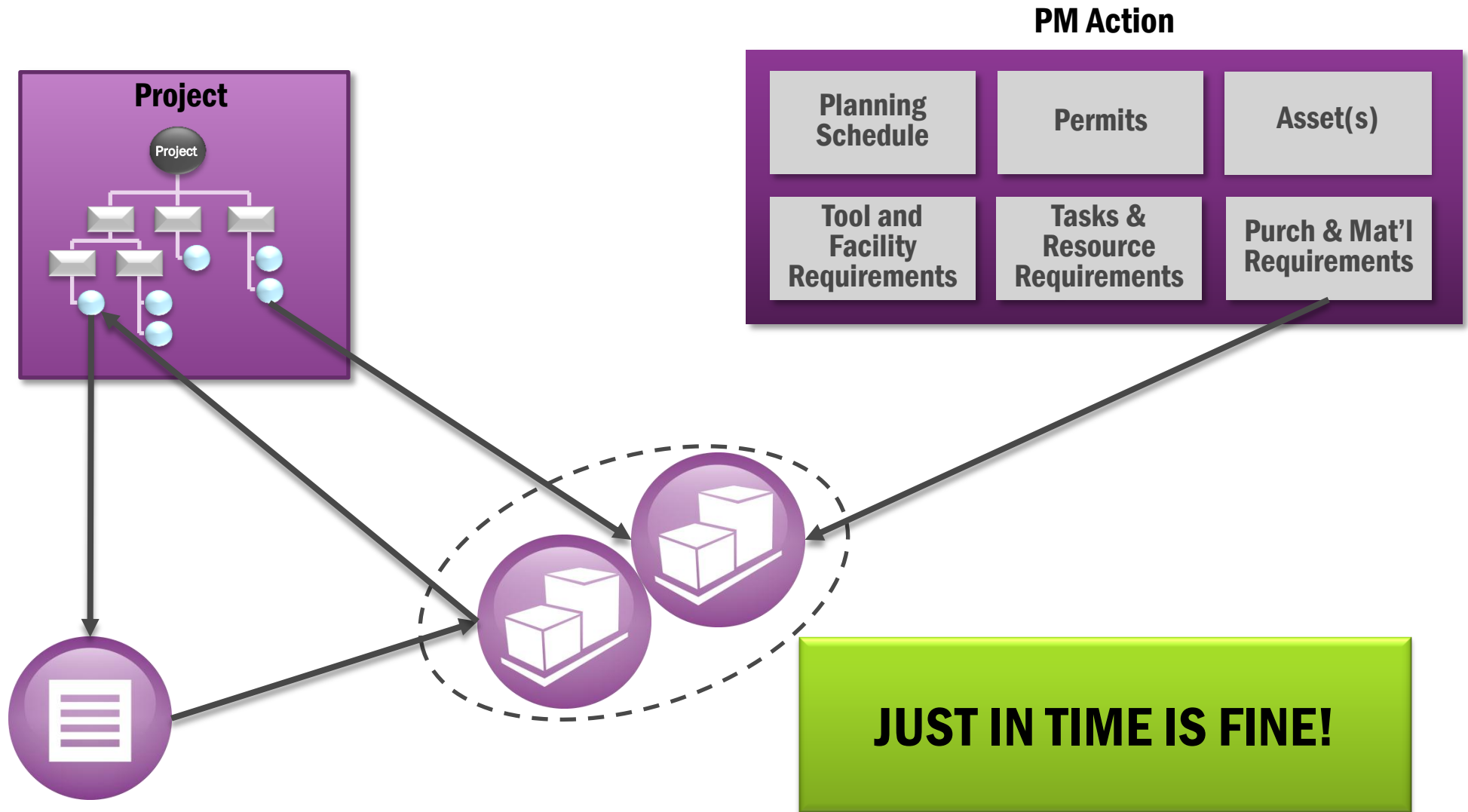




USING THIS DATA EFFECTIVELY....

SOURCES OF DEMAND

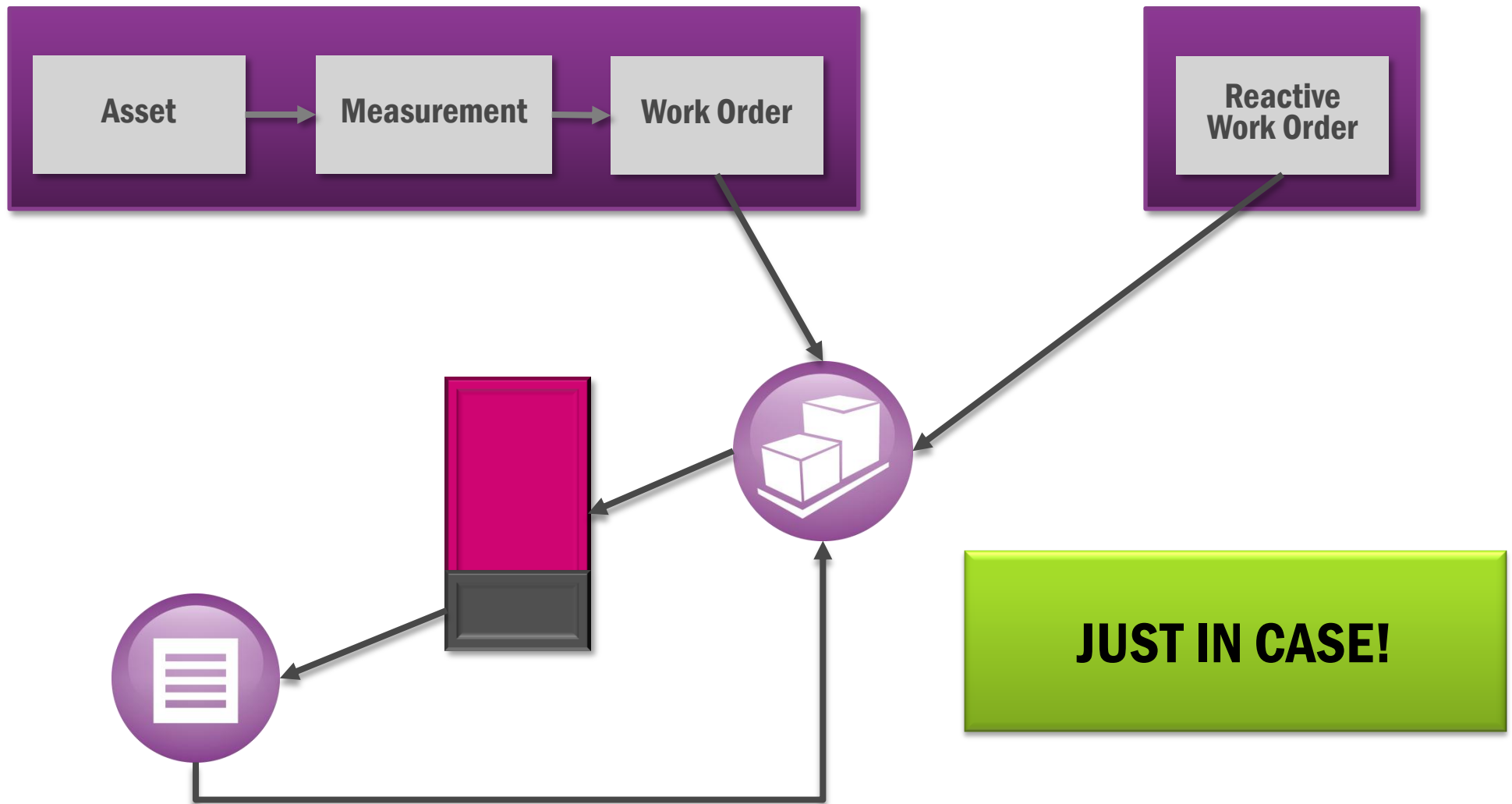
KNOWN DEMAND



SOURCES OF DEMAND

UNKNOWN DEMAND

Condition-Based Maintenance



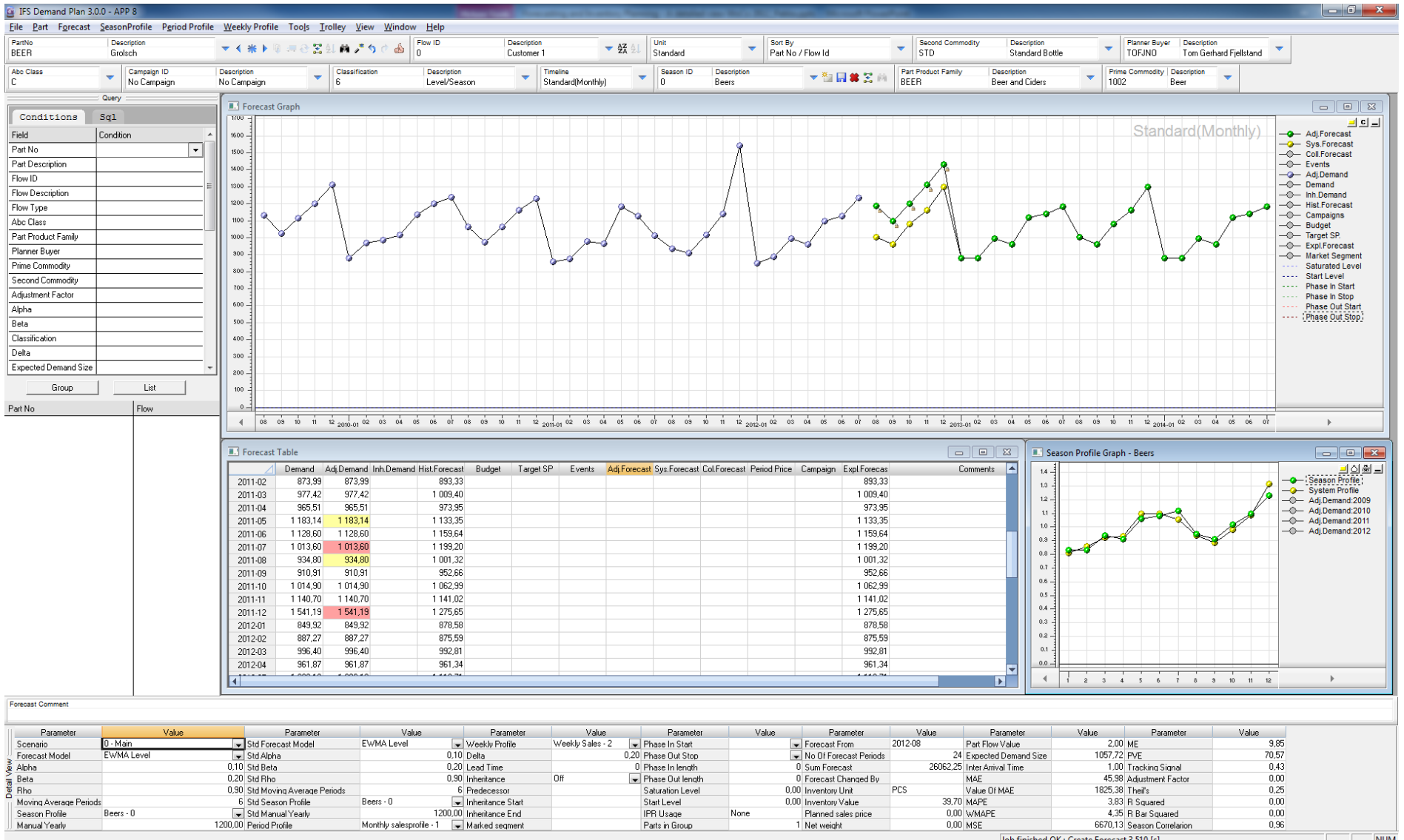
THE “ONE SIZE FITS ALL” SUPPLY CHAIN

- Using a single supply chain process and policies will inevitably result in
 - Higher than necessary supply chain cost
 - Service and lead-time are not in line with requirements
- Example:
 - 97% in stock availability for a High Criticality Spare
 - 97% in stock availability for Rarely used high value item

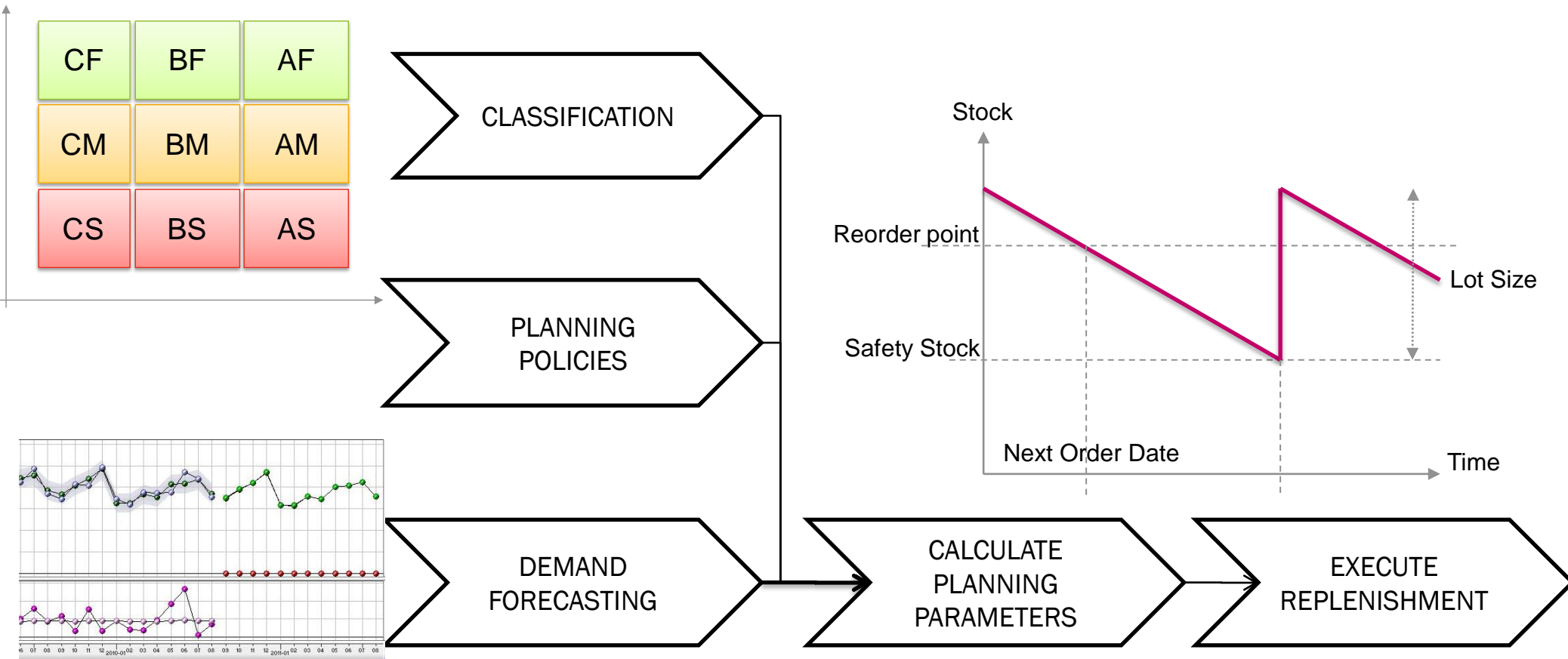


DEMAND PLANNING

USING HISTORICAL USAGE DATA TO FORECAST REQUIREMENT

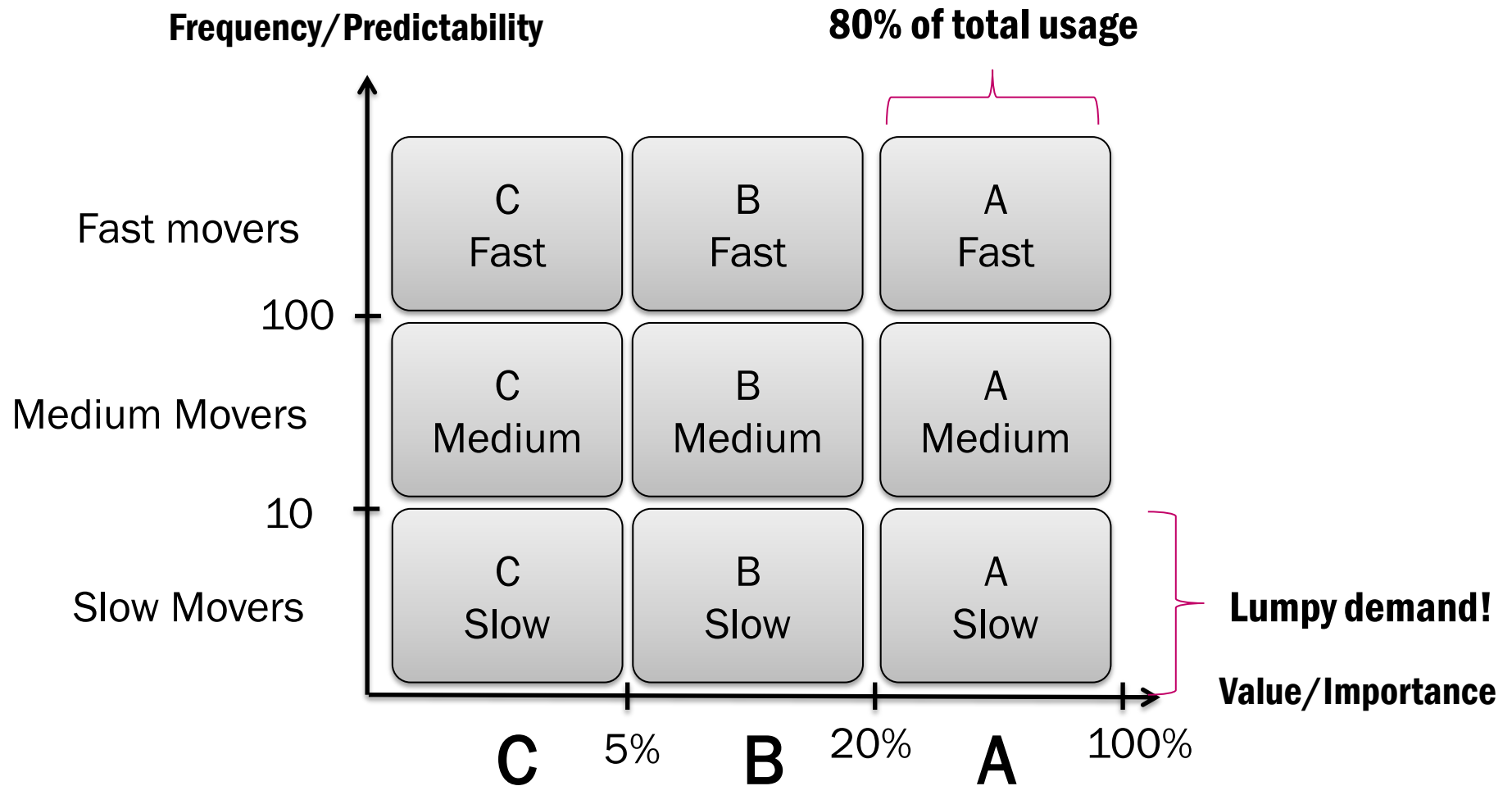


INVENTORY PLANNING AND REPLENISHMENT



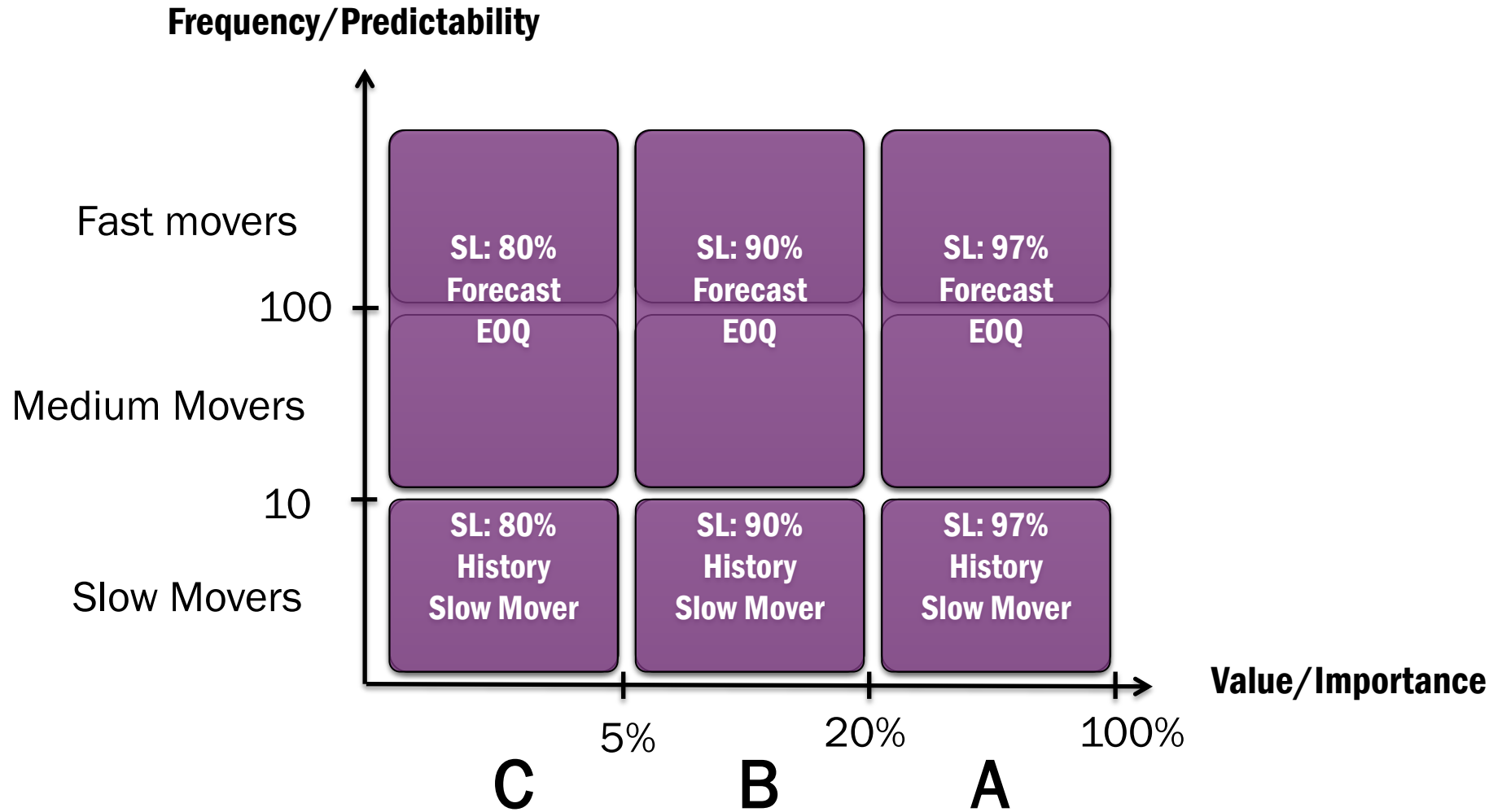
DIFFERENTIATED INVENTORY PLANNING

SOLUTION OVERVIEW

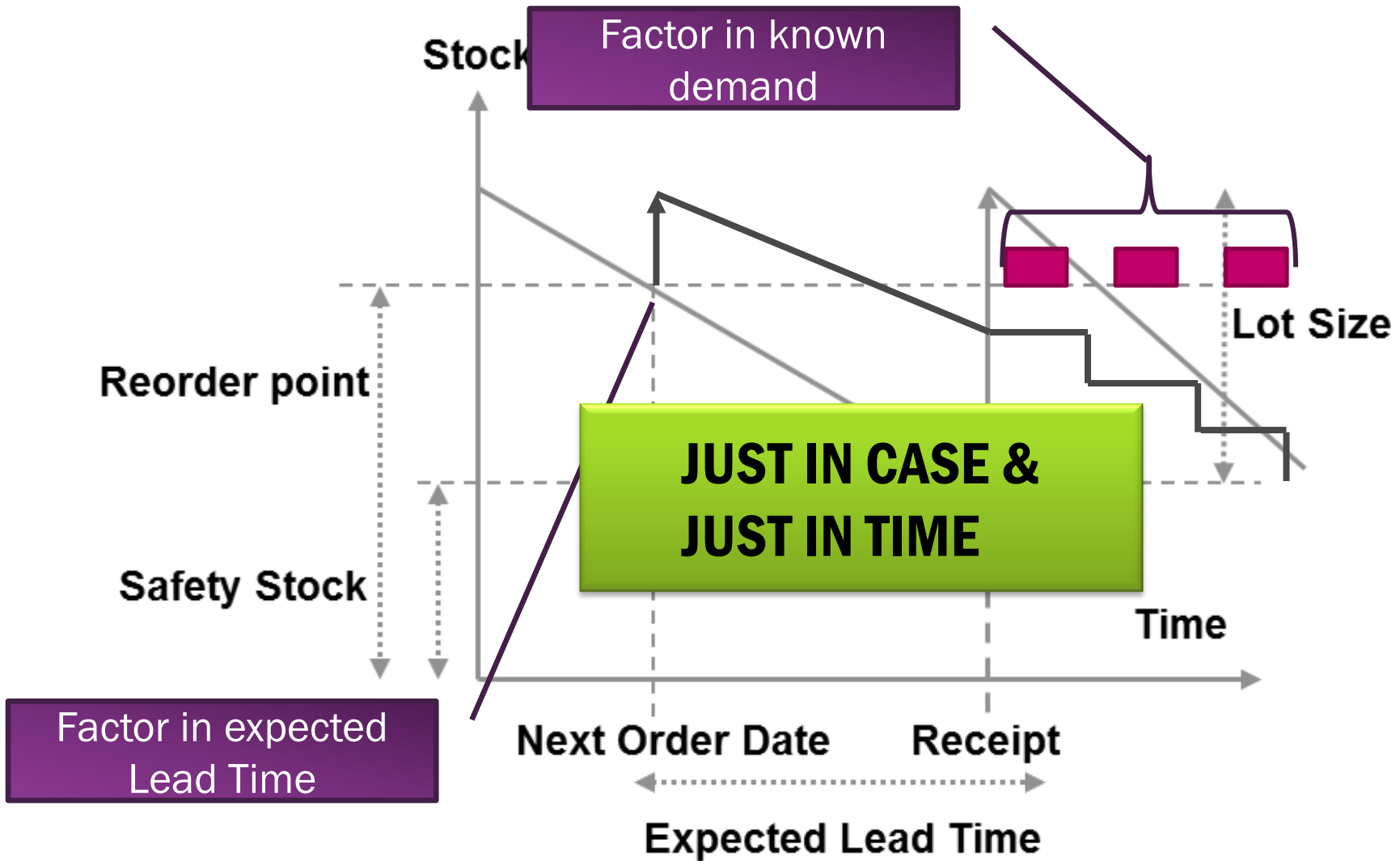


DIFFERENTIATED INVENTORY PLANNING

SOLUTION OVERVIEW



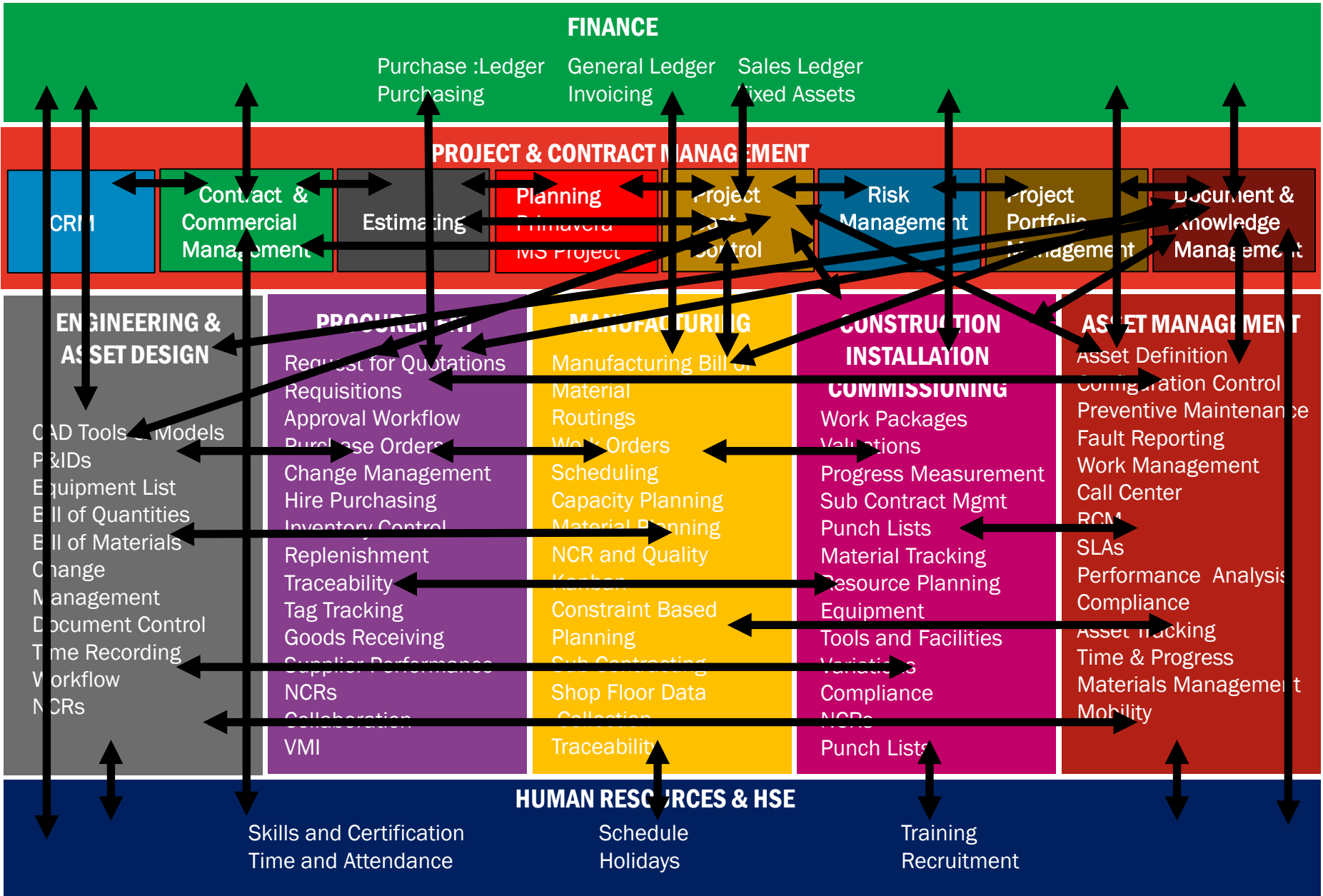
AND MOST IMPORTANTLY.....





IS THIS ACHIEVABLE?

TYPICAL SYSTEMS LANDSCAPE



SUPPLY CHAIN

EQUIPMENT MANUFACTURING, SUPPLY & RENTAL

SERVICE AND ASSET MANAGEMENT

ASSET DESIGN

- Asset Design
- Design Objects
- Modifications
- Multiple Views
- As Designed
- System Structure
- Function
- Structure
- As Built
- Project Aware
- Procurement
- Asset Status
- Documents

ASSET MANAGEMENT

Asset Definition	Mobile & Wireless
Configuration Control	Resource Allocation
Preventative Maintenance	Scheduling
Fault Reporting	Material Management
Call Centre	Equipment Monitoring
RCM	Tools and Facilities
SLAs	Time and Expenses
MRO	Compliance
Performance Analysis	Reactive Maintenance
Work Management	Depot Repair
Service Contract Management	

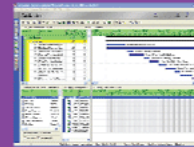
OPTIMISED SCHEDULING / 360

- Optimisation Engine
- Highly Configurable (handle complex rules)
- Graphical Gantt with Alerts

PROJECT MANAGEMENT

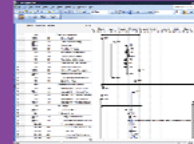
PLANNING

Primavera



- Dependencies
- Constraints
- Resources
- Progress

Microsoft Project



CONTRACT MANAGEMENT

Contract Management	Collaboration
Variation & Change Control	Documents
Invoicing and Applications	Workflow
Bid Management	Estimating

COST CONTROL


- WBS & CBS
- Top Down or Bottom Up
- Budgeting
- Periodic Reviews
- Progress
- Earned Value
- Estimate to Complete
- Multi Currency
- Quantities
- Hours

EXECUTION

- Time Reporting
- Expenses
- Deliverable Tracking
- Project Dashboard
- Status Reporting
- Work to Lists
- Exceptions & Alerts
- Risk Management
- Material Planning
- Resource Planning

HUMAN RESOURCES

FINANCE

A large offshore oil rig is silhouetted against a vibrant sunset sky. The rig's structure is illuminated from within, showing various levels and cranes. A long flare extends from the rig, emitting a bright flame. The sea is dark with some light reflecting on the surface.

INTEGRATED ASSET LIFECYCLE MANAGEMENT
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