



Schlumberger







































































Reckitt **Benckiser**



























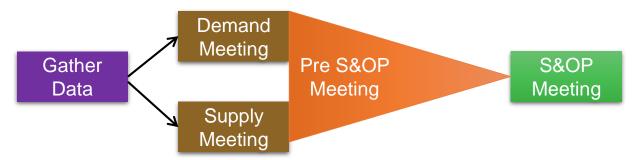


S&OP PROCESS: QUICK RECAP



S&OP: BUSINESS PRACTICE SINCE 80'S

- Created in Mid 80's
- Got Established by early 90's
- Realize term Pre S&OP is understated
- New Role of a Business leader emerged
 - Like a Conductor in a symphony ensuring everyone is playing in same speed and Same *Volume*.
 - S&OP is about coordinating the Volume
- Data has always been a challenge
 - Always been Fragmented, Incomplete, dated
 - Limited by tools and Computing power







ORIGINAL S&OP PROCESS

- All about Demand and Supply
- An attempt to achieve one number
- Operations led
- Pushing it up to Senior Management
- Lacking technology and tools
- Planning Horizon too short



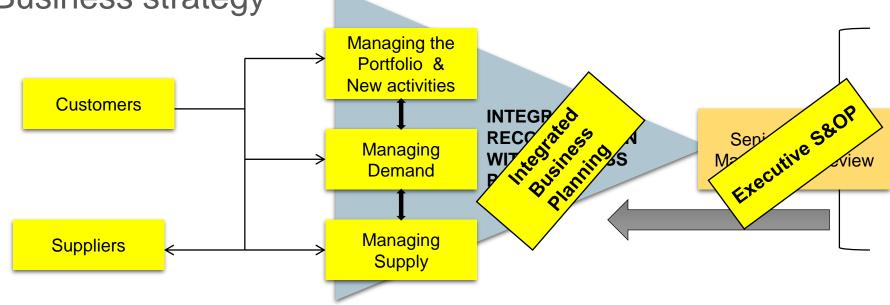
S&OP: WHAT HAS CHANGED?



AS S&OP MATURED: TODAY'S BUSINESS MODEL

- All areas of company involved
 - Marketing, Sales, Product Development, Finance, Operations
- Cross functional collaboration in a common business language
- Senior Management led
- Planning Horizon 12 to 18 months

Implementing your Business strategy



WHAT NEEDS RECONCILING?

- New directives from senior management
- New Opportunities in the market place
- New Product timing
- Deviation from the business plan
- Supply problems
- Any issues emerging through the monthly process



WHO MAKES UP THIS TEAM?

- You need a leader or process owner of the integrated reconciliation process
- Leaders from Finance, new product development, sales, marketing and supply chain
- Members from each area of the company who is needed to reach a consensus, make decisions and recommendations for the path forward

WHAT IS THE WORK OF THE INTEGRATED RECONCILIATION TEAM?

- Review global performance outlook and differences between business strategy, budget and forecast
- Reconcile gaps between new activities, demand, supply and financial targets
- Highlight Impact of changes (units and financials), gaps opportunities and major integration issues over a 2 year horizon
- Develop Scenarios considering trade offs, cost benefits etc
- Redirect issues that should have been resolved elsewhere in line with organization responsibilities
- Make recommendations and/or decisions for alternatives business impacts for each
- Elevate to senior management major open issues and seek attention at an aggregate level



FOCUS ON CHANGE

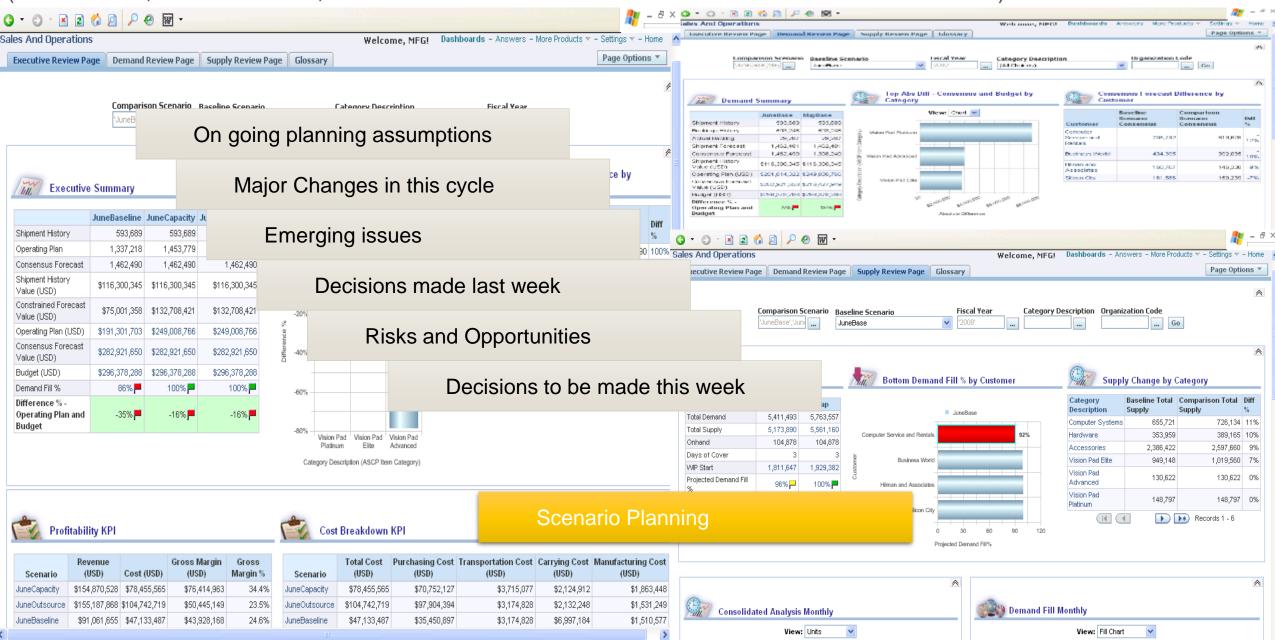
- It is important that the S&OP process focus on what is changing and facilitate the change
- The questions are:
 - What has changed?
 - Do we agree with the changes?
 - Do we understand the internal and external factors that is causing the change?
 - Do we understand the impact of the changes?
 - Are there any alternatives?
 - What decisions need to be made?

Welcome Change



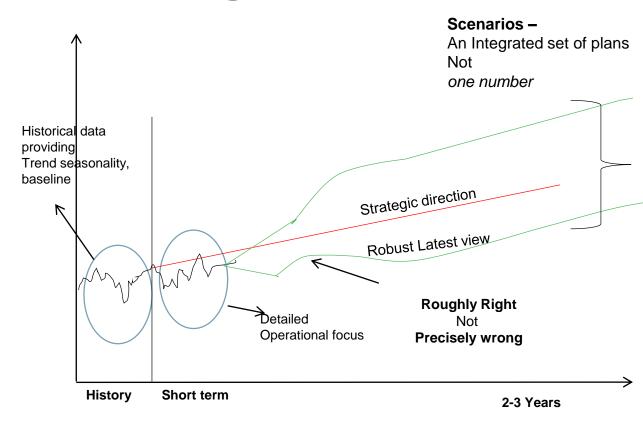
MANAGEMENT BUSINESS REVIEW

(VOLUMES, FINANCIALS, SUPPLY CHAIN HEALTH: ONE SINGLE DASHBOARD)



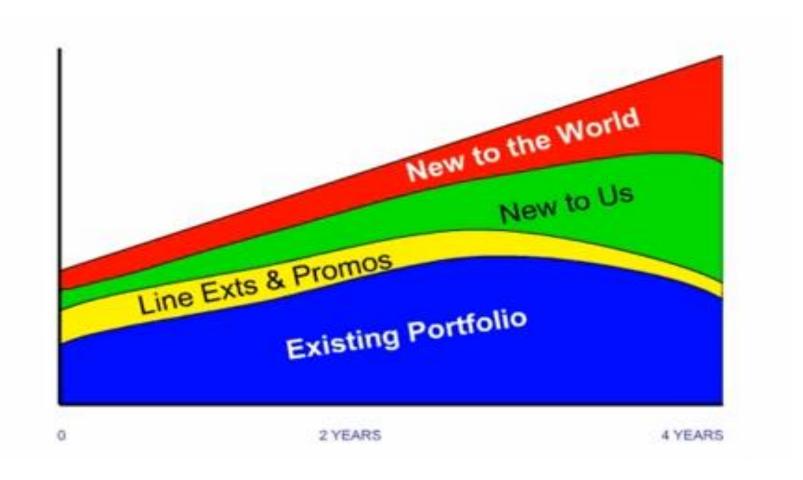
SCENARIOS DRIVEN RAPID PLANS

- This is testing business strategies against a number of alternative futures
- We need a new set of tools in order to accomplish scenario planning.
 - Tools that can quickly respond to the changes all the way from strategic changes to tactical changes
 - Excel is status quo: Latin for we are in mess and can't do much.
- Tools that can sense demand faster and provide insights to the S&OP blind spots which are not visible
- We need to understand that we do have multiple plans for different scenarios and different purpose



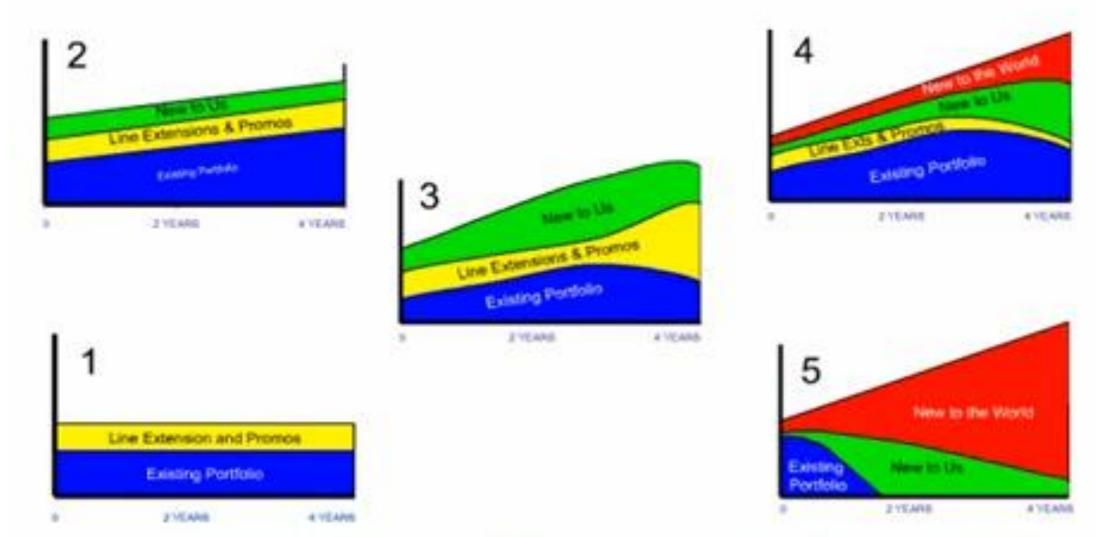


FUTURE PORTFOLIO MODEL

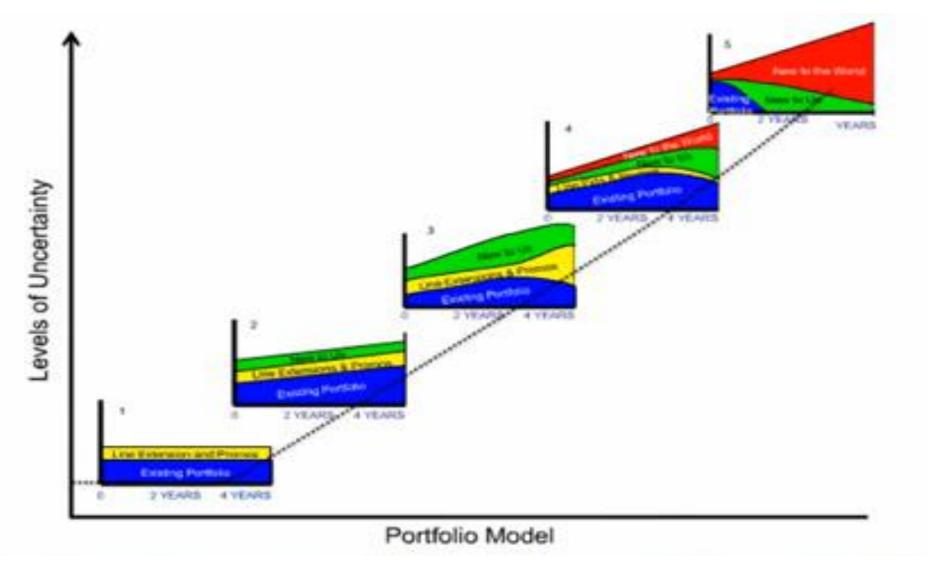




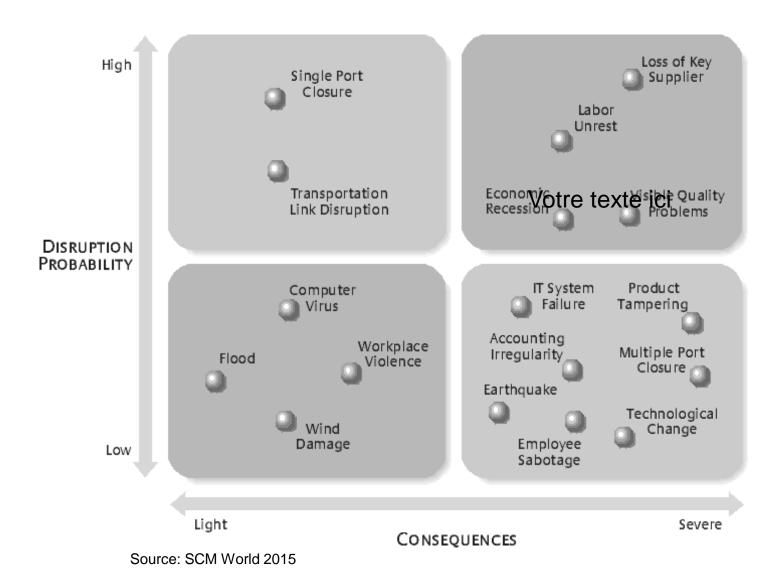
WHICH ONE LOOKS LIKE YOUR FUTURE PORTFOLIO?



UNCERTAINTY BY PORTFOLIO MODEL



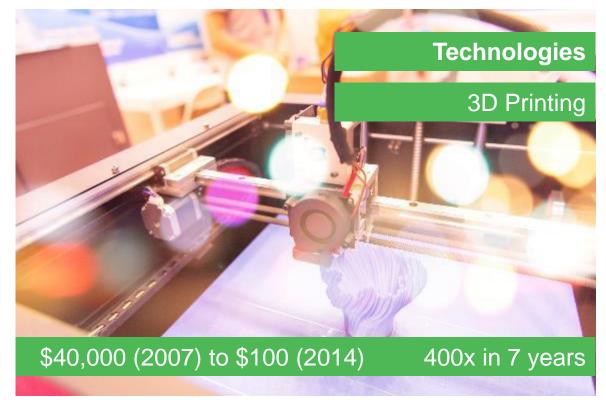
OTHER UNCERTAINTIES AND ITS IMPACTS



- Philips chip plant fire: Ericsson impact ~\$2.3bn - 2000
- Ford Tire recall: 13m tires,
 ~\$3bn 2001
- 9/11: Airlines lost ~\$55bn over a decade - 2001
- Toyota recall: 9m vehicles,
 ~\$2bn cost 2009
- BP Gulf Coast Oil Spill:
 ~\$40bn 2010
- Japan Tsunami: 20% of world's semiconductors
- WD, Seagate et. al. Thailand Floods: 4-7% global output
- Pharma recalls: GSK recalls
 600,000 Ventolin inhalers 2017
- Lactalis: baby milk recalls ~12 millions boxes - 2018



THE COST OF TECHNOLOGY DECREASES



Technologies Internet of Things \$500,000 (2009) to \$10,000 (2016) 50x in 7 years

Source: Harvard Business Review 2015 and 2017

PRACTICES TO IMPROVE YOUR S&OP

INSPIRAGE S&OP MATURITY

Maturity Levels based on Gartner's recommendations

Stage 1
Reacting

Stage 2
Anticipating

Stage 3
Capable S&OP

Stage 4
Optimized
Planning

Stage 5
Integrated
Business Planning

- Business plan drive forecast
- Short-term forecast
- Aggregate S&OP Data
- Off-line Demand / Supply tactical balancing
- Volume focused
- Tribal knowledge dependency
- Manual Tools
- Silo focused

- Consensus Forecasting (volume and value)
- Capacity Constraints
- Demand, supply and inventory plans at aggregate level.
- Scenario planning using simulated plans
- New Product Plans
- Foundational dashboards
- Multiple sources of truth
- Conflicting metrics across
 functions

- Demand/supply tactical balancing on-line
- Financial projections price, cost, inventory and margin projections
- IBP management dashboards & KPI suite
- Flexible Budgeting
- Supply Chain Segmentation
- Robust Long-Term Planning Processes

- Business simulation capability for demand shaping, financial reconciliation and cost to serve
- Demand Driven
- Product & Innovation Reviews
- Inventory Optimization
- Centers of Excellence
- Master Data Governance
- Digitization IoT etc.
- Business wide focused
- Integrated suite of tools

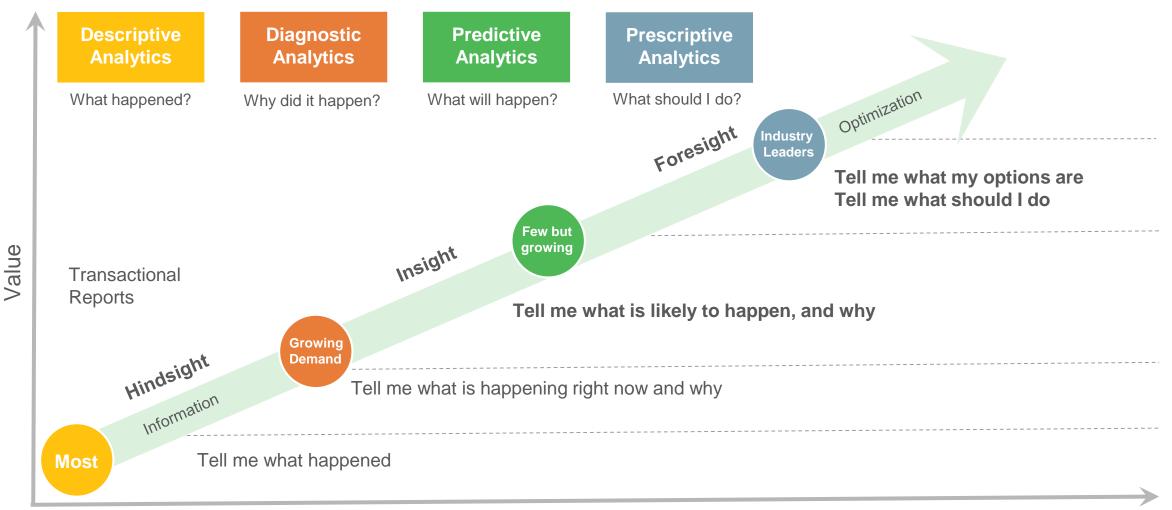
- Plan drives the business, enabled and linked to strategy
- Market Driven
- Extended Integrations:
 - New Product Introduction
- Extended / Integrated Analytics (Control Tower)
- IBP management reviews not an "event"
- Network Optimization
- Extended Enterprise focused

Incremental Value

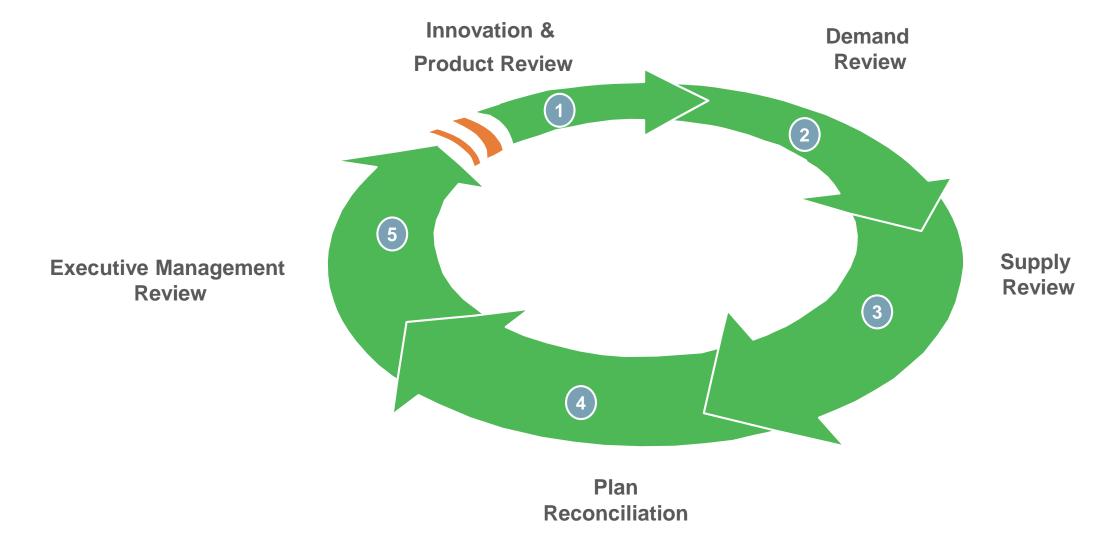
Efficiency Effectiveness Optimization



ANALYTICS MATURITY MODEL WHAT OTHERS ARE DOING?

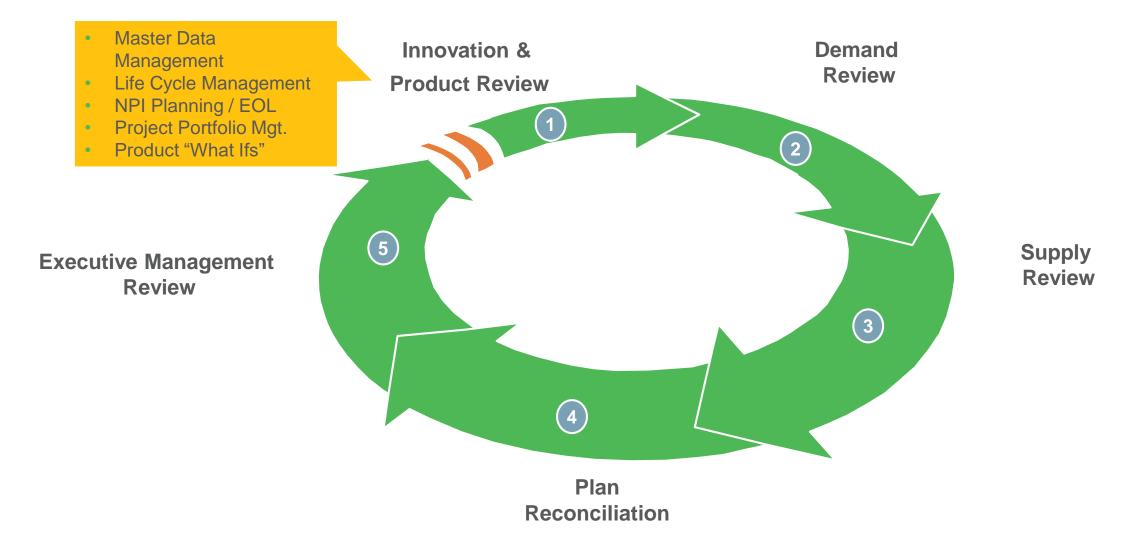


5 STEP IBP PROCESS





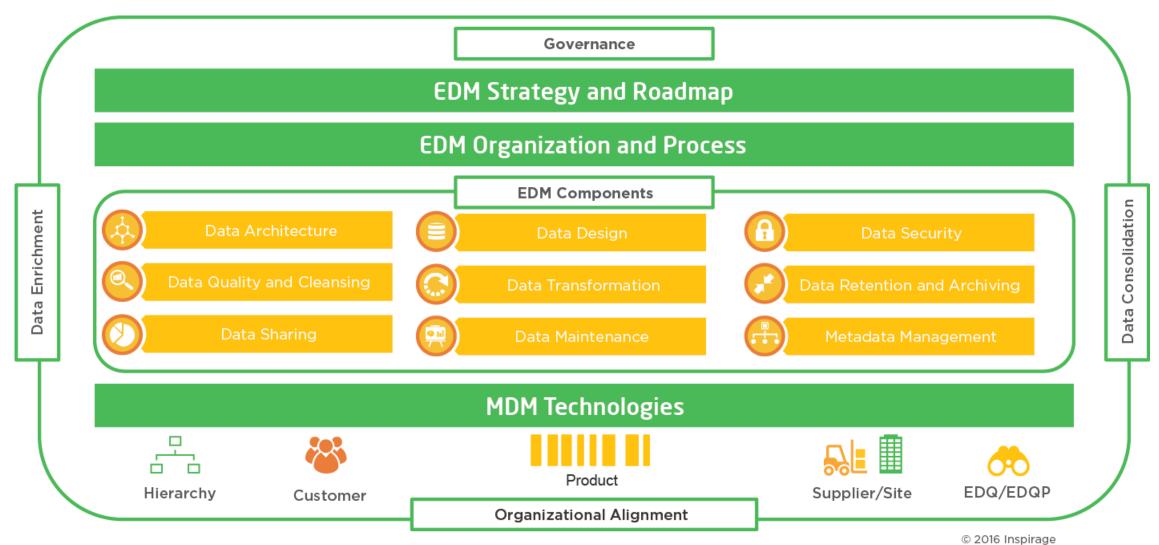
5 STEP IBP PROCESS





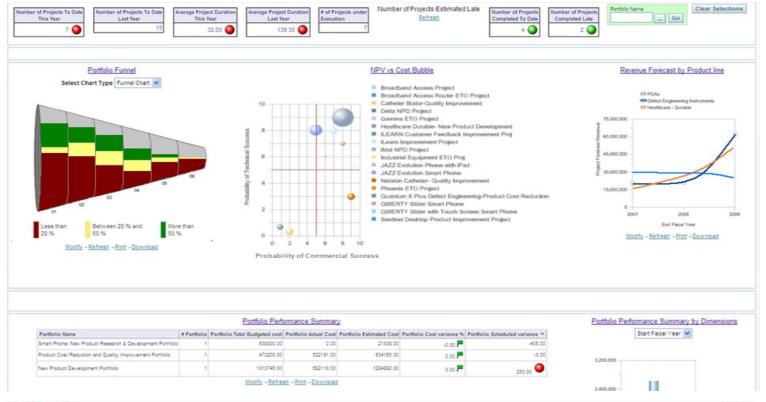
ENTERPRISE DATA MANAGEMENT

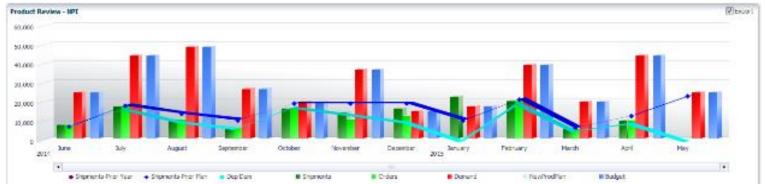
Leading Practices



insnican

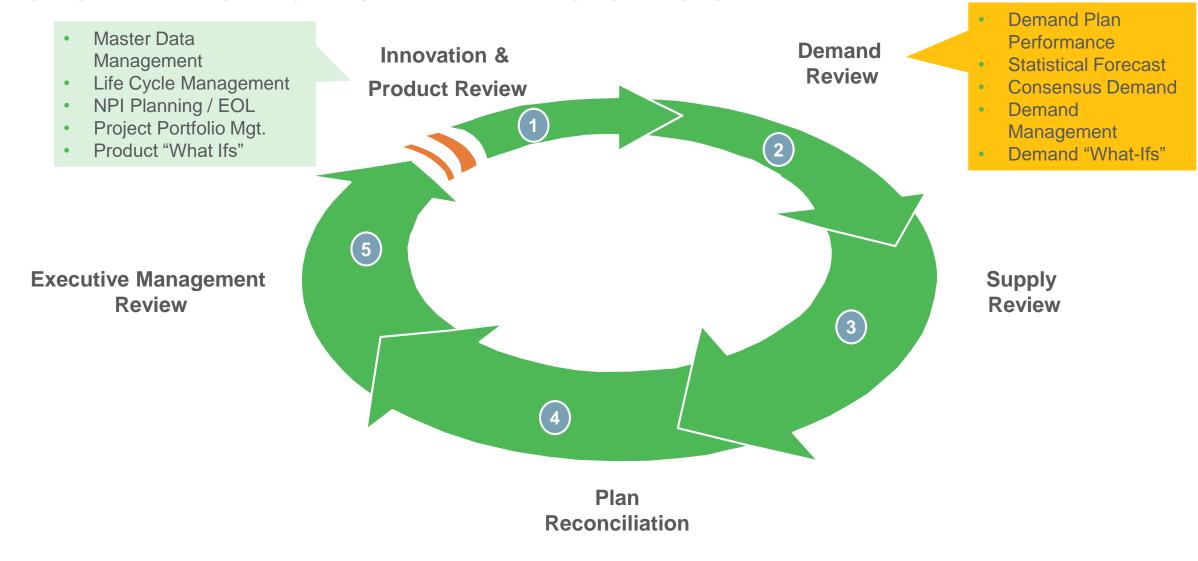
PRODUCT REVIEW PRACTICES





- Forecast new products
 - Chaining
 - **Shape Modelling**
- **Prioritize Projects**
- **Product succession and life** cycle management
 - Phase In / Out
 - Cannibalization
- **Long-Term Planning**
 - Statistical
 - Opportunity
 - Capex / Financial
 - Attach rate review & adjustments
 - Calculate dependent demand

5 STEP S&OP / IBP PROCESS



DEMAND MANAGEMENT LEADING PRACTICES



Demand Sensing

- Statistical Forecast Optimization
- Get closer to consumption

Demand Planning

- Demand segmentation
- Eliminate Bias
- Forecast Value Add
- Assumptions Measured & Tracked
- Improve Collaboration

Demand Control

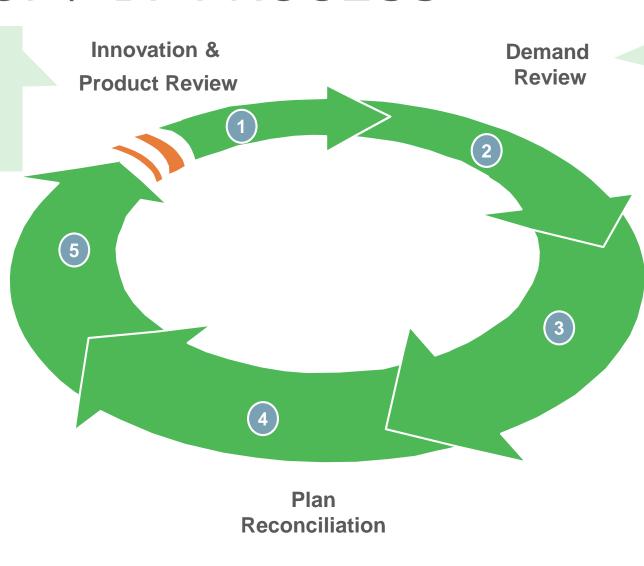
- Ad-hoc / Abnormal Demand
- Demand shaping



5 STEP S&OP / IBP PROCESS

- **Master Data** Management
- Life Cycle Management
- NPI Planning / EOL
- Project Portfolio Mgt.
- Product "What Ifs"

Executive Management Review



- **Demand Plan** Performance
- Statistical Forecast
- Consensus Demand
- Demand Management
- Demand "What-Ifs"

Supply Review

- **Capacity Planning**
- Constraint Management
- Optimized inventory
- Balance Supply and Demand and **Develop Production** Plan
- Profit-optimized plans
- Supply "What Ifs"



SUPPLY MANAGEMENT PRACTICES

Answering the tough questions:

- How do I manage my supply chain risk more effectively?
- What impact do changing costs have on my inventory, production and/or sourcing strategy?
- Can I meet demand profitably?
- Where should I hold how much inventory, when?
- Should I close down a facility?
- How could I react to a disruption in supply due to unforeseen events?
- What are my most profitable products to produce?
- What is the impact of mergers and acquisitions on my supply network and capital asset budget?

Push Inventory way Central Regional Distribution Centers Centers Centers Customers Leading Postpone Inventory

Supply Planning

- Supply segmentation
- Mixed planning models
- Parameter and data management
- Alternates
- Scenarios

Supplier

- Collaboration
- Strategic Sourcing

Optimization

- Inventory
- Network Optimization
- IoT



IoT USE CASES



Traceability in Shop-floor

- Automated Material Movement with In-Plant Traceability
- Smart Production using
 Automated Material Transfer
- Smart Production Augmented with Fingerprint-Of-Things
- In-Plant Traceability Enabled by Fingerprint-Of-Things



Shop-floor Exception Management

- Quality Management
- Maintenance Automation



Cold Chain Management

- Maintaining Pallet Temperature in warehouse [asset monitoring]
- Maintaining Pallet Temperature in transit [fleet monitoring]



Maintenance

- Ship To Shore Container
 Crane & Roll Trailer Maintenance
- Maintaining Pallet
 Temperature



(Analytics, Automation, Exception Monitoring)

Cost of Manufacturing

Cost of Quality

Quality Assurance

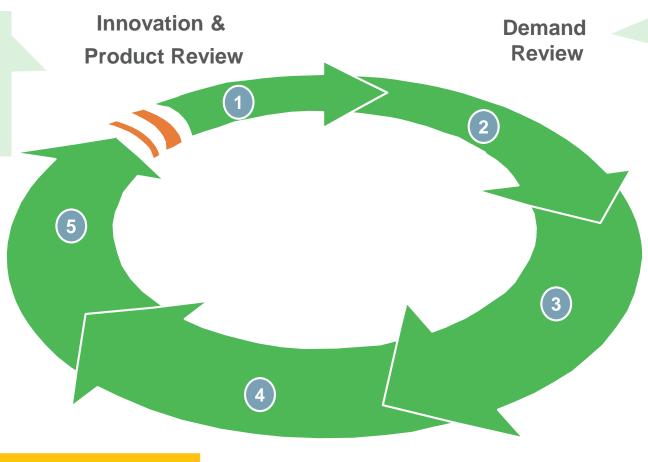
Cost of Service



5 STEP S&OP / IBP PROCESS

- **Master Data** Management
- Life Cycle Management
- NPI Planning / EOL
- Project Portfolio Mgt.
- Product "What Ifs"

Executive Management Review



- Integrated and collaborative platform
- Scenario Planning & **Trade-Off Analysis**
- Risk Management
- **Financial Review**

Plan Reconciliation

- **Demand Plan** Performance
- Statistical Forecast
- Consensus Demand
- Demand Management
- Demand "What-Ifs"

Supply Review

- **Capacity Planning**
- Constraint Management
- Optimized inventory
- Balance Supply and Demand and **Develop Production** Plan
- Profit-optimized plans
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PLAN RECONCILIATION CHALLENGES

Collaborative Systems for Cross Functional Discussions



Week 1

Innovation & Demand Review

Week 2

Supply Review and Balance Supply and Demand Week 3

What-if Scenarios and Trade-Off Analysis

Week 4

Executive Review and Monthly Cycle Output

Aggregate Planning

1

Detailed

Planning

Traditional ERP

Operational Systems for Functional Silos

inspirage

inspirage | iHub CS™

Supported Applications*



Oracle ERP Cloud

SAP

Supply Chain Planning Cloud **Inventory Management** Manufacturing Maintenance Order Management WMS Cloud Financials & Procurement Quality & PLM Cloud Collaboration & Visibility Product Hub...

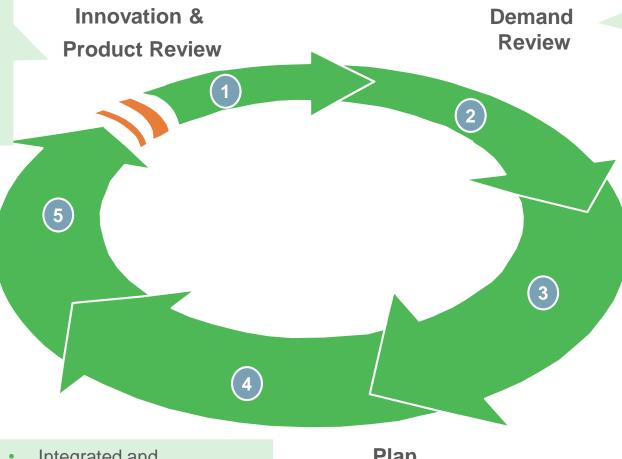


5 STEP S&OP / IBP PROCESS

- Master Data Management
- Life Cycle Management
- NPI Planning / EOL
- Project Portfolio Mgt.
- Product "What Ifs"

Executive Management Review

- Unified reporting for past, present & future
- **Executive Decisions on Outstanding Issues**
- **Gap Closing Actions**
- Identify Risk Mitigation **Approaches**



- Integrated and collaborative platform
- Scenario Planning & Trade-Off Analysis
- Risk Management
- Financial Review

Plan Reconciliation

- Demand Plan Performance
- Statistical Forecast
- Consensus Demand
- Demand Management
- Demand "What-Ifs"

Supply Review

- Capacity Planning
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- Supply "What Ifs"



EXECUTIVE REVIEW LEADING PRACTICES

How CEO sees the business

VS.

Latest Business Plan

- What has changed? One Pagers
- What are the assumptions?
- What is the impact of the change?
- 24 month P&L, Balance Sheet, Cash
- What is the gap to plan?
- What are the Risks and Opportunities?

How Supply Chain sees the business



Decision Support

- What are the gap closing opportunities?
- Which options to evaluate?
- Financial modelling of alternatives
- Decisions required now and in the future
- Recommendations



SUMMARY



S&OP / IBP OPTIMIZES ENTERPRISE BY RESOLVING COMPETING OBJECTIVES

