



Al Enabled Integrated Business Planning

Fred Baumann, vice president, industry strategy

Artificial Intelligence & Digital Transformation How to Move from Buzzwords to Value Creating Solutions

Edge Sensors



What is Digital Transformation of Integrated Planning & Operations?

Connecting your customers, channel partners, suppliers, planning processes and business operations with AI and Digital technology powered Management Systems that provide your organization a new set of super powers necessary for high performance in the digital age.

Super Visibility
See Risks & Opportunities Earlier

Super Intelligence Knowledge Driven Algorithms

Super Process
Collaboration, Decision Making, Execution

Super Productivity
Automation, Digital Assistants

Digital Transformation Reality

Happening fast in our personal lives, but enterprise systems are still lagging behind. Challenge & opportunity in S&OP/IBP!

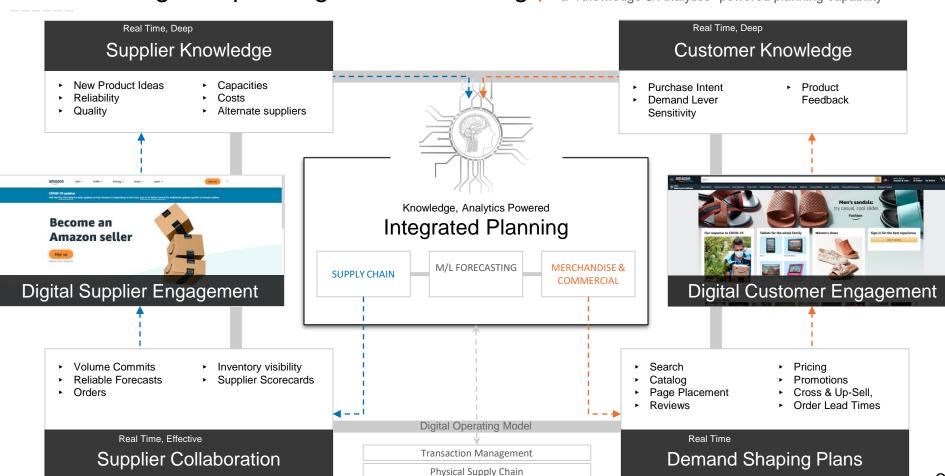
Consumer Systems	Consumer Systems Experience
Google Bing	Fingertip visibility to all information across the world
Social	Real-Time Collaboration
Maps bing	Real-Time Visibility & Prescriptive Systems
amazon NETFLIX	Learning Systems
	Real-Time Demand-Supply Match, Dynamic Pricing
	Digital Assistants



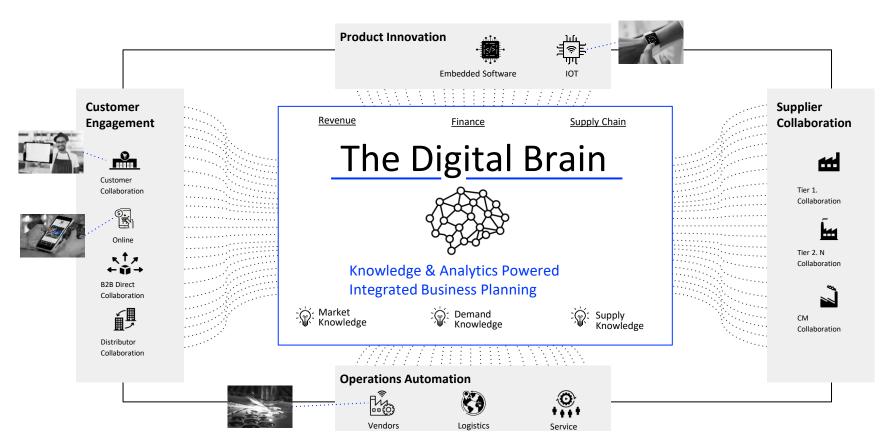


Amazon's Digital Operating Model Advantage

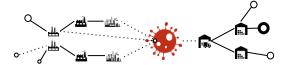
Digital <u>customer</u> and <u>supplier</u> engagement connected to a "Knowledge & Analytics" powered planning capability



o9 The core engine of your digital transformation



High Value Capabilities of the Digital Brain



1 Real Time Market Knowledge

Leading Indicators of Demand, External and Internal Data, Connecting the Dots

ML/Al Powered Forecasting

Leading Indicator Driven, Greater Accuracy, Less Bias, Collaboration around Risks & Opportunities

Synchronized Planning

Integrated Commercial, Supply Chain & Finance Plans, Real-time Scenario Planning, Simulate Impact of Commercial Initiatives, Analyze Supply Chain Feasibility and Cost

Digital Collaboration

Customers, Suppliers, Operations, Real-time communication of plans and feedback, Knowledge powered Digital Assistants

Continuous Learning

Plan vs Execution Post Game Analytics, Self-Tuning Models, Process Improvements

Reality of Planning



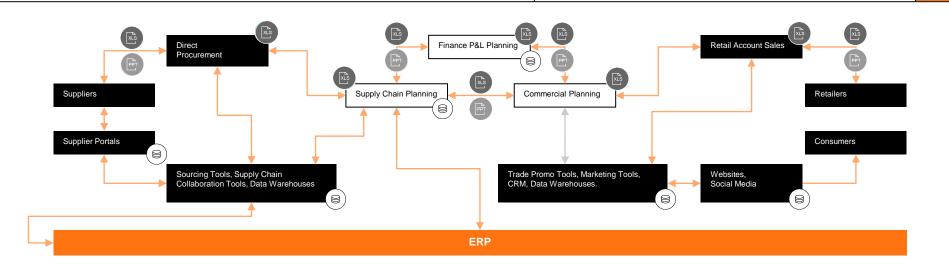
- Plan vs. Forecast Gaps
- Demand Surprises
- Supply Issues

- Why didn't we know earlier?
- Why didn't we act faster?

Why were supply chain plans uncoordinated with sales plans?

Reality of planning and operations today Far from the ideal state

 The majority of planning, collaboration and decision making is actually happening in Excel, PPT, Email.



Slow, siloed, spreadsheets vs. integrated planning, digital customer and supplier engagement

- Lots of data collected, but remains tribal vs. system knowledge.
- Forecast accuracy and accountability challenges across functions
- Slow, siloed-decisions, P&L impact not understood beforehand
- Time lag and alignment gap between Planning and Operations Execution

Multi-million \$ value leakage \$10-\$20 Million in Profit Potential per \$1 Billion in Sales (Revenue, COGS, Inventory, People)

Integrated Business Planning

A Better Approach

1 On-System Meetings

Tracking of Risks, Opportunities and Assumption in the System, Process orchestration with task and calendar management, Structured and Unstructured data management, Natural Language Processing based navigation, Email integration with smart tagging, Connected Excel

Interactive Scenario Planning vs Static Dashboards

Real time evaluation of scenarios enabling cross functional collaboration and decision making, breaking down silos

3 Financial Plan vs Operational Forecasts, Post Game, and Gap Closure Insights

Profit based decision making Vs units, Integrated Units, Revenue, COGS, Gross Profit measurements

4 E-Digests, Alerts and Performance Scoreboards

Configurable alerts, dashboards and email digests

From S&OP to True IBP

Transform Commercial Planning with Al powered Insights into 3 Critical Questions

HISTORY X

WHAT ACTIONS TO TAKE?

Prescriptive Insight

Initiative Playbook System Recommended Plays Scenario Planning Initiative & Resource Allocation Decisions

SCENARIO

WHAT HAPPENED?

Post Game Insight / Learning

Root Cause Analytics Machine Learning Algorithms Human Input Post Game Stories

FORECAST · · O

FUTURE

WHAT IS LIKELY TO HAPPEN?

Predictive Insight

Predictive Algorithms
Automated Forecasts
Assumptions Collaboration
Consensus Forecast

Demand Drivers

Revenue Control

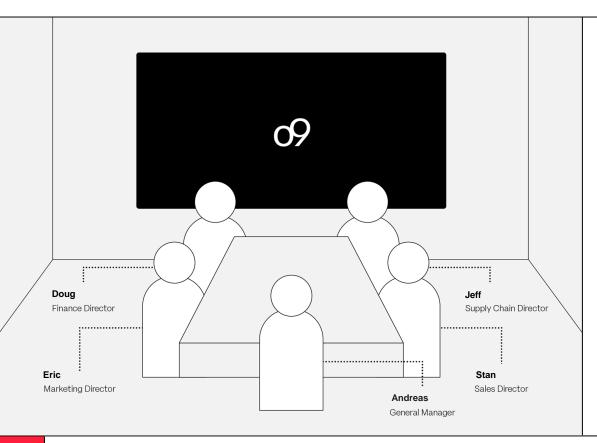
Commercial

Budgets

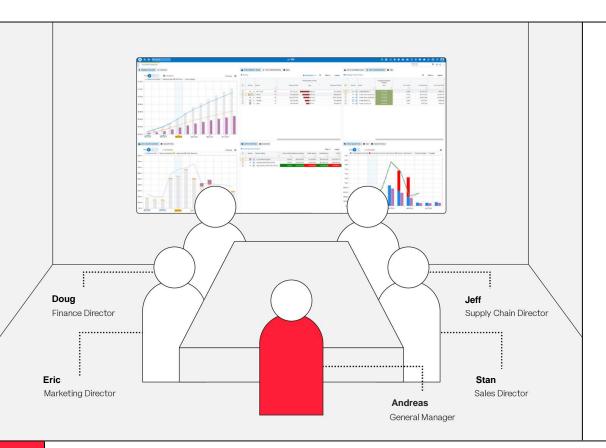
Commercial Initiatives







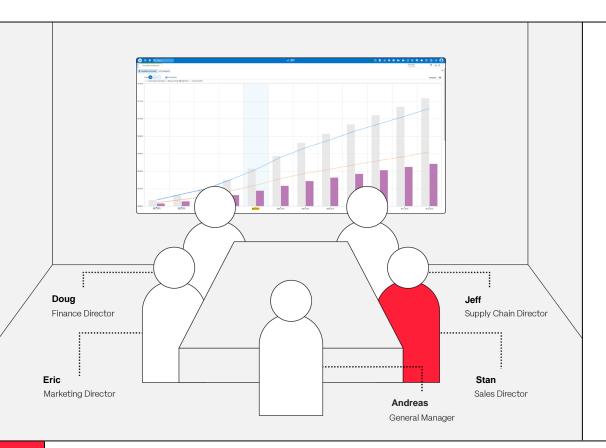




Andreas (Business Leader):

 Team - how's the business doing, do we have any gaps?

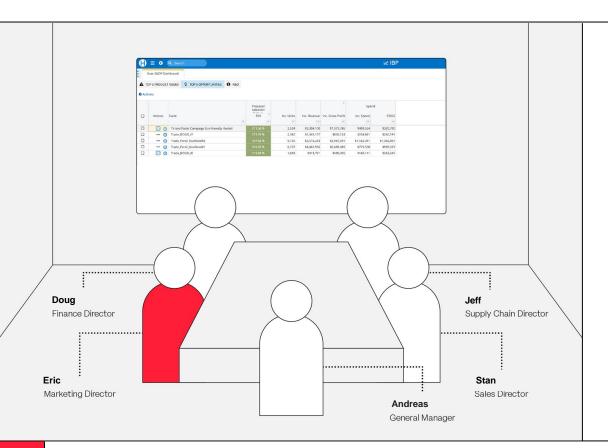




Stan (Sales leader)

 Yes, we are tracking below our financial plan but the good news is that Eric and I worked together on various initiatives (at brand and account level) to close the gaps.

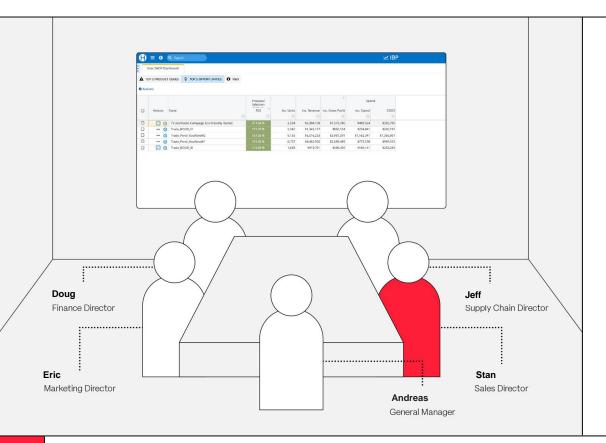




Eric (Marketing leader):

 Andreas, based on market intel we want to run a marketing campaign to push eco-friendly products.
 Estimated lift ~\$2.3m.

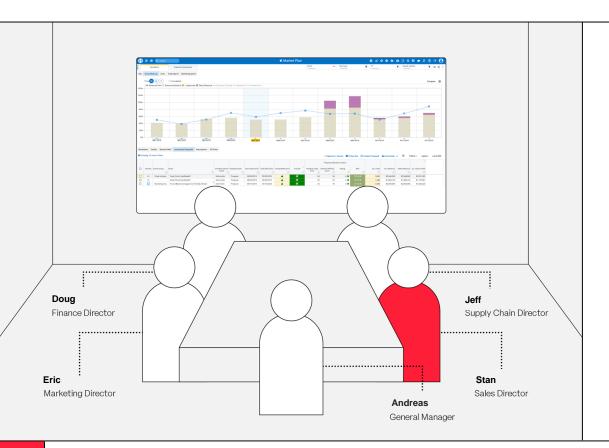




Stan (Sales Leader):

 Andreas, we learned that Lackly has supply issues and cannot take an important promo slot at Home Depot, suggest we take it and push Acmecide. Estimate lift ~8m.

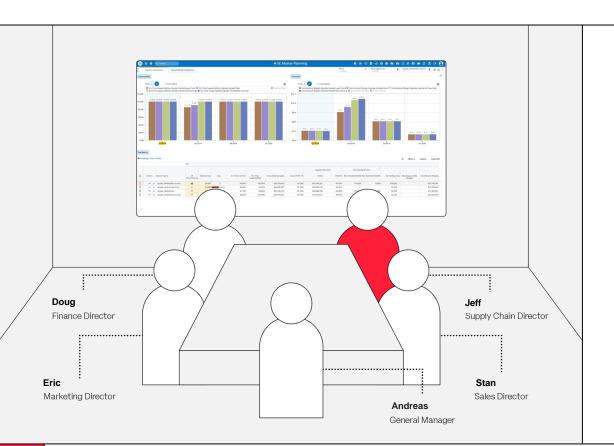




Stan (Sales Director):

 Andreas, we used the advanced analytics engine of o9 and the ROI and uplift of the selected proposals is outstanding. We recommend going for it!

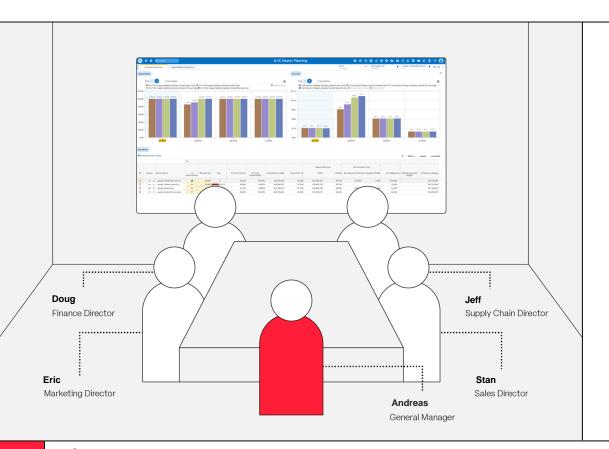




Jeff (Supply Chain Leader):

Andreas, we created various supply scenarios from least cost (SC operating according to the standard operating model) to Max Service (SC operating with all flexibility such as the use of contract manufacturers, expedites, etc.) and in Max Service all demand can be supported, but only if we are willing to spend incremental costs and take an inventory risk position.

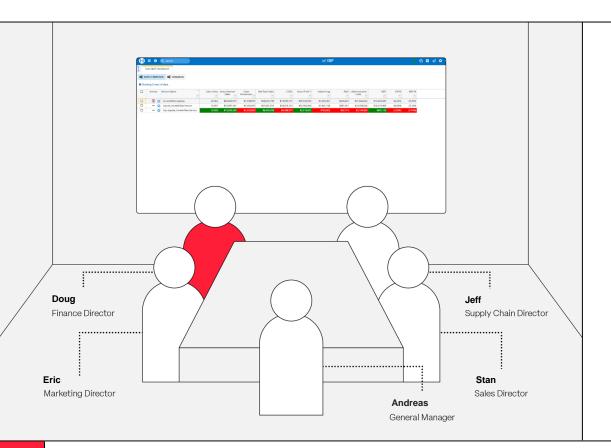




Andreas (Business Leader):

 Team, hold for a moment please.
 Sounds too good to be true, will we make any profit?

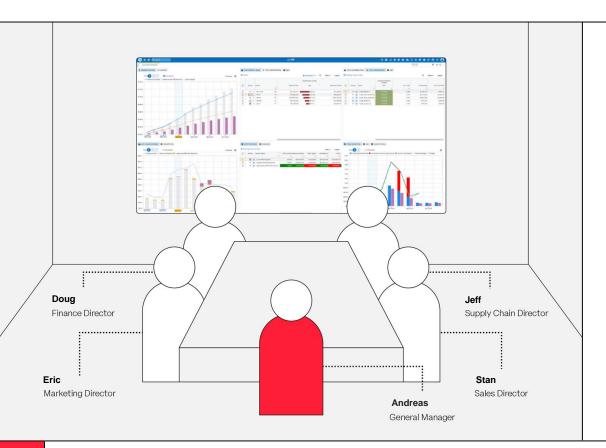




Doug (Finance Leader):

 Great question Andreas, we evaluated the scenarios on revenue, gross margin, inventory, and contribution margin. The net drop in GM% is 2.50% but this still gives us a solid profit and allows us to take market share (+ \$10m in revenues!)

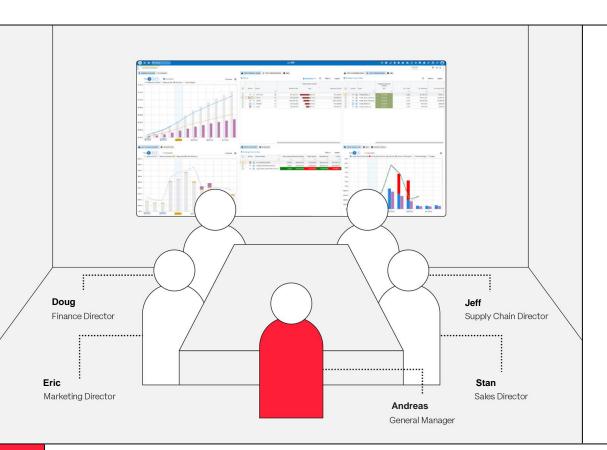




Andreas (Business Leader):

 Very clear analysis team, thank you. We will decide to move forward with this proposal as I agree that capturing market share is offsetting the decrease in CM%.





Andreas (Business Leader):

 Team, how you work together, use the tools and analytics and provide me with such great insights is a pleasure. I love it.
 Previously we were always discussing various different numbers and looking at Excel, this is a GREAT improvement.
 Now we have some time left, shall we discuss some more growth opportunities?



CENTER FOR LOGISTICS & SUPPLY CHAIN MANAGEMENT

Thank You

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