

AppliedMicro's use of SAP Solutions to optimize Supply Chain

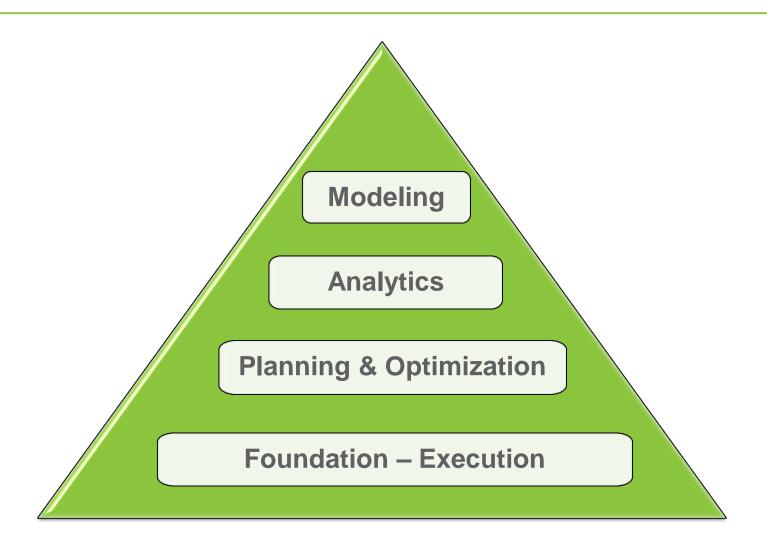
Chet Gandhi & Animesh Jhalani May 15th 2013

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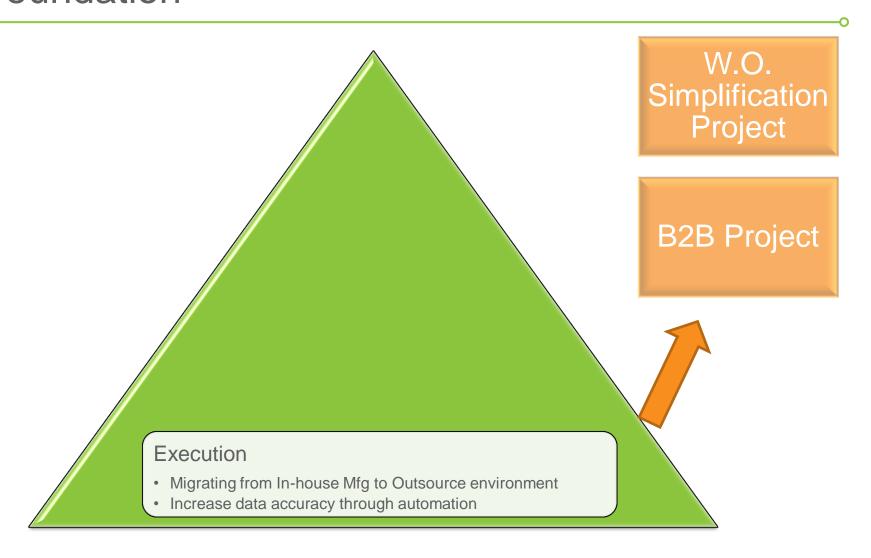
AppliedMicro Overview (NASDAQ: AMCC)

 Founded – 1979 Company Headquartered in Sunnyvale, CA Fabless Semiconductor Industry Processors and Connectivity chips Customers ~1200 customers with ~ 800 active products **Employees** ~ 650 Worldwide **ERP** • Implemented SAP - 1996 Landscape • ECC 6.0, CRM, SCM, BW, BO

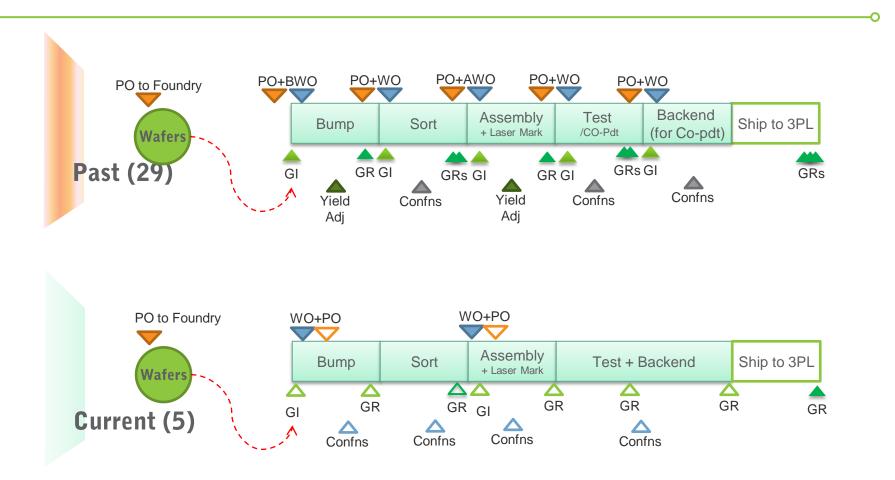
Supply Chain - Path to Excellence



Supply Chain - Path to Excellence - Foundation

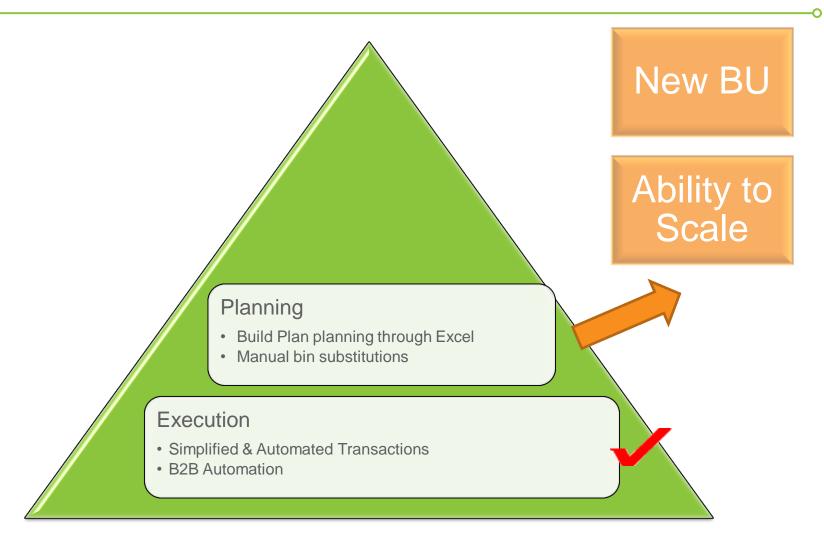


Work Order Simplification & B2B Project



Solid triangles = manual steps, Hollow triangles = automated steps

Supply Chain - Path to Excellence - Optimization



Business Drivers for Planning Project

New BU

Complex Processor Binning

- Support multi-level Binning ~64 products from 1 wafer
- Support Postponement Strategies at die bank and post test

Scalability

Planning to double in 12-18 months

- Support "What if" scenario analysis
- Minimum extra master data maintenance
- Solution to allow capacity planning in future
- Reports for easier preparation of build plan meetings

High Level Business Requirements

Usability

- Minimum extra master data set up in APO
- Continue to use ECC the same way

Solution

- Automatically handle bin substitutions
- Handle "what-if" analysis
- Master data to be maintained in ECC

Reporting

- All ECC reports must work
- Provide real time reporting across products
- Capture historical MRP snapshots

Planning Options in APO - SNP

Heuristics

- Planning similar to MRP
- Cannot account for constraints
- Supports Long term planning

Optimizer

- Cost based Heuristics planning
- Requires accurate cost data to derive reliable solution

CTM

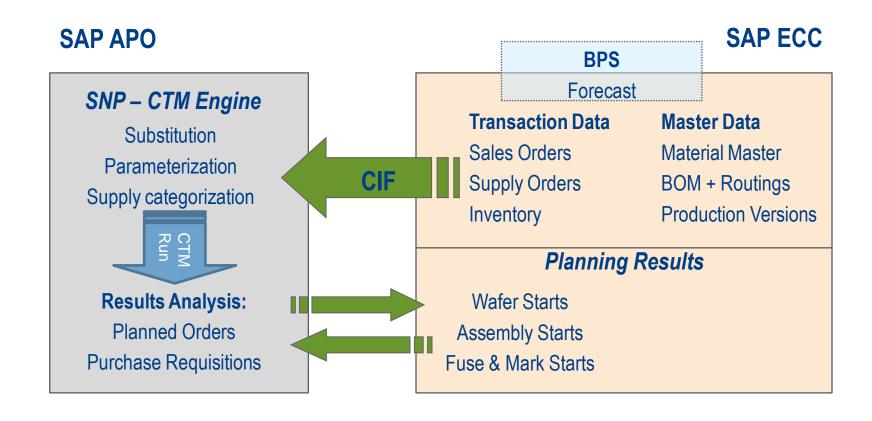
Capableto-Match

- Multi-level supply & Demand matching
- Utilizes constraints and priorities
- Supports Material substitutions

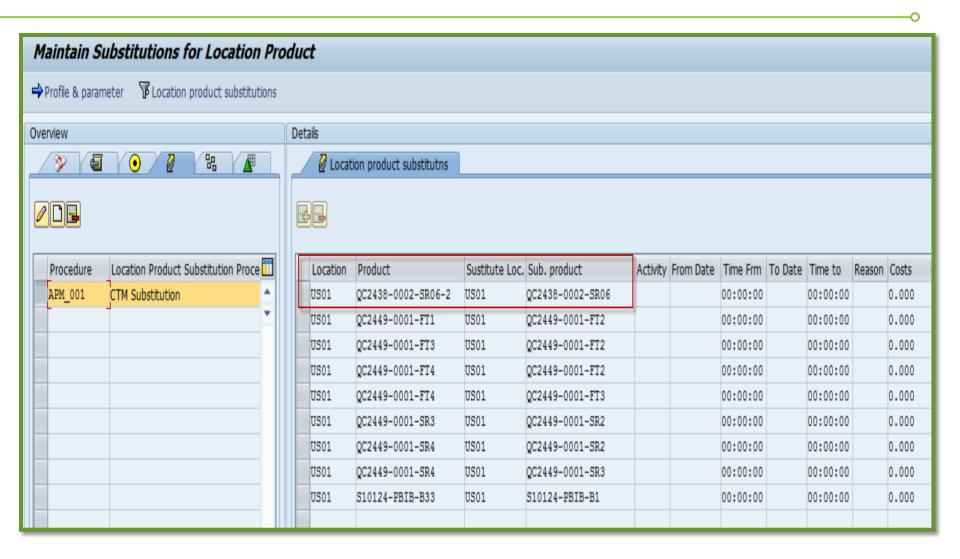
SNP Planning Solvers Comparison

Focus Areas	Heuristics	СТМ	Optimizer
Functional Coverage			
Viability of Plan Obtained			
Difficulty of Configuration		0	
Maintenance			
Ease of Analyzing Planning Output		0	
Performance			

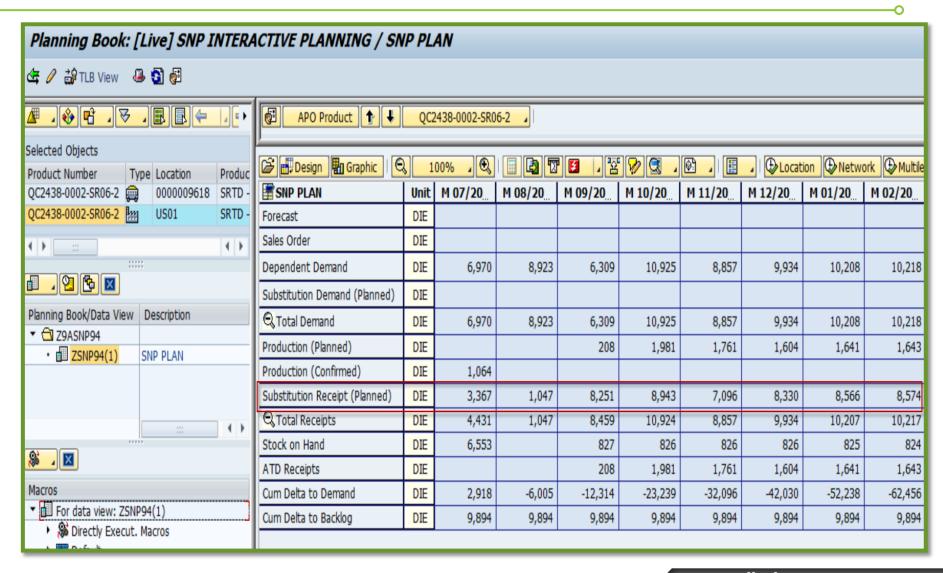
CTM – Process Flow



Master Data: Only Substitution Rules in APO



Real Time Reporting: APO Planning Book



Project Success Factors

User Engagement

Show & Tell from the beginning

- Installed SCM DEV environment integrated with ECC sandbox for 'real' data
- Business user engaged regularly from proof of concept phase in SCM Dev

Scope Control

Phased Go-Live approach agreed

- Users were available part time only
- Documented Requirements for each phase