

Leadership Panel Presentation

Cal-Comp USA
1.3.1 New Product
Startup

1.3.1 New Product Start-up

- ✈ How does your organization contribute to the immediate success of customer startup operations including first article and early production efforts?
- ✈ How are processes like Advanced Product Quality Planning “APQP” and Production Preparation Process “3P” used to pro-actively ensure value for customers?
- ✈ How are customers needs for reduced lead time and high levels of initial quality considered in the startup process?

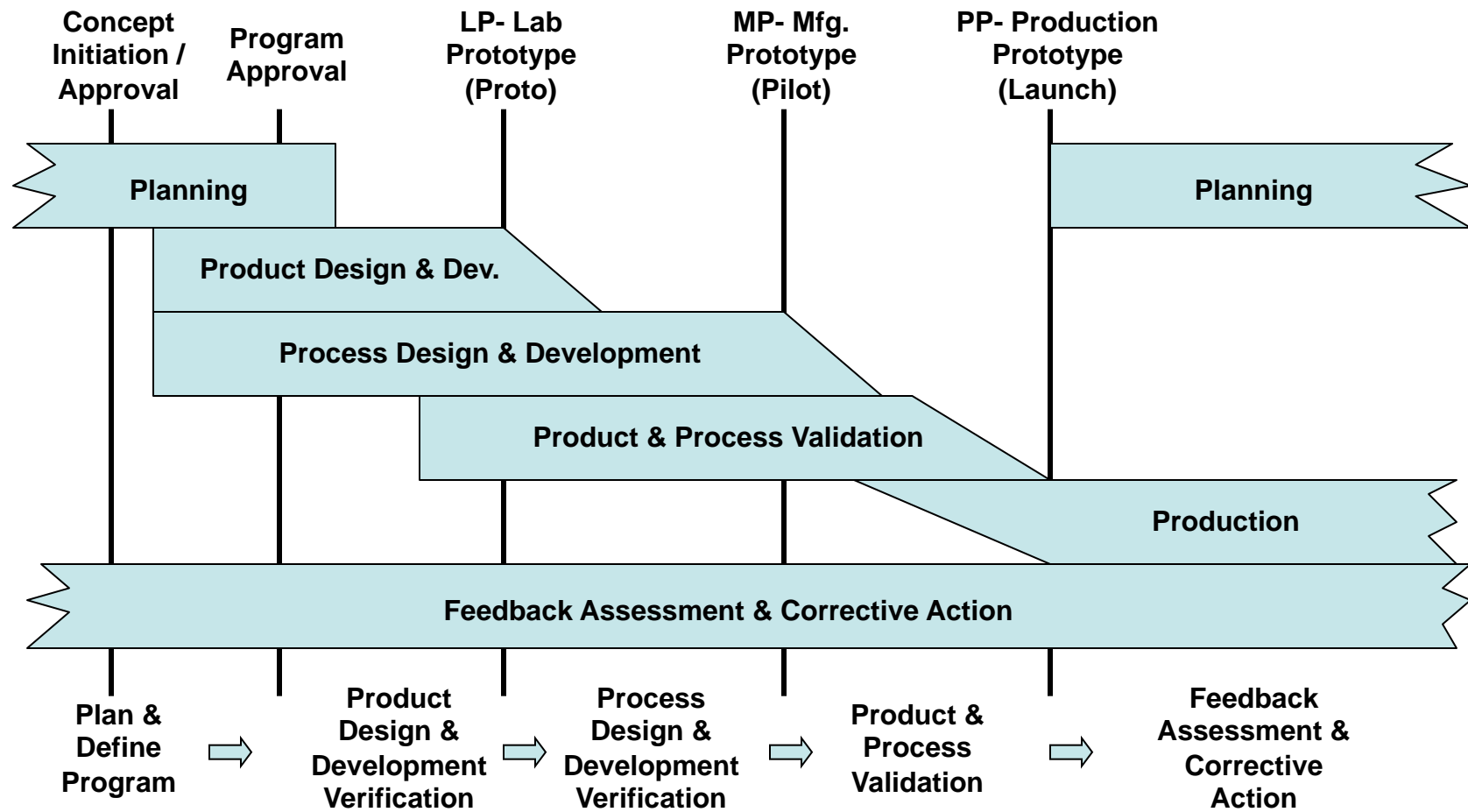
Our Key Practices

Advanced Product Quality Planning-APQP

- ✈ AS9100 7.0 Product Realization
 - ✈ 1.3.1 New Product Start-Up Process (APQP)
 - ✈ Prototype Program (Development Process)
 - ✈ Production Preparation Process 3-P
 - ✈ Production Part Approval Process & FAI

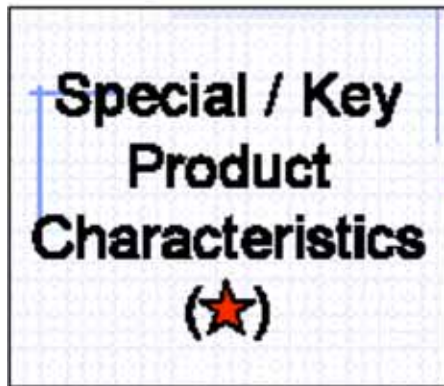
Things We Did Right

Advanced Product Quality Planning Time-Line

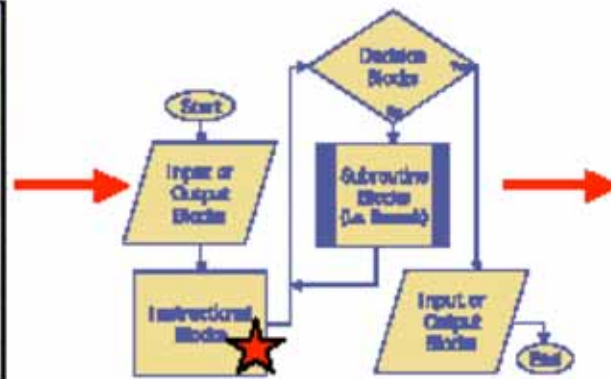


Built Quality In With APQP

Customer Requirements



Process Flow Diagram



Process Failure Mode Effects Analysis



Control Plan



Work Instruction

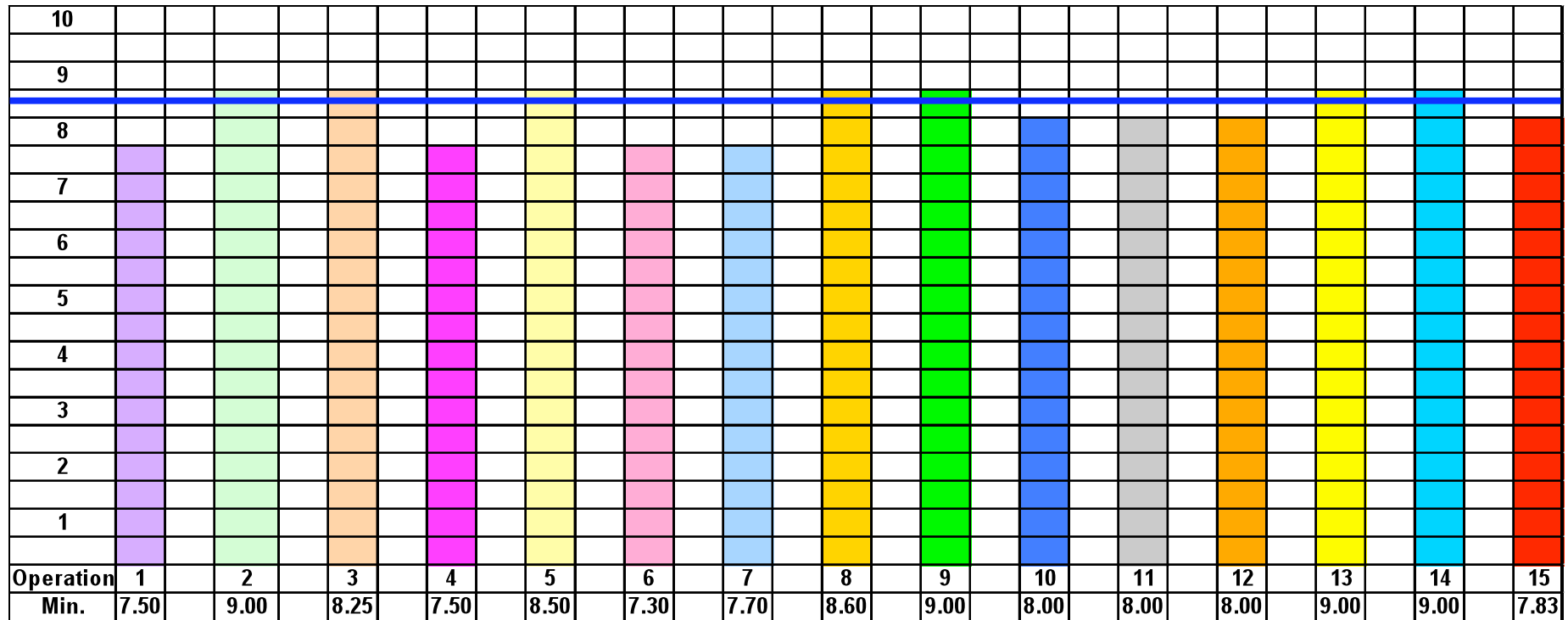


Qualification



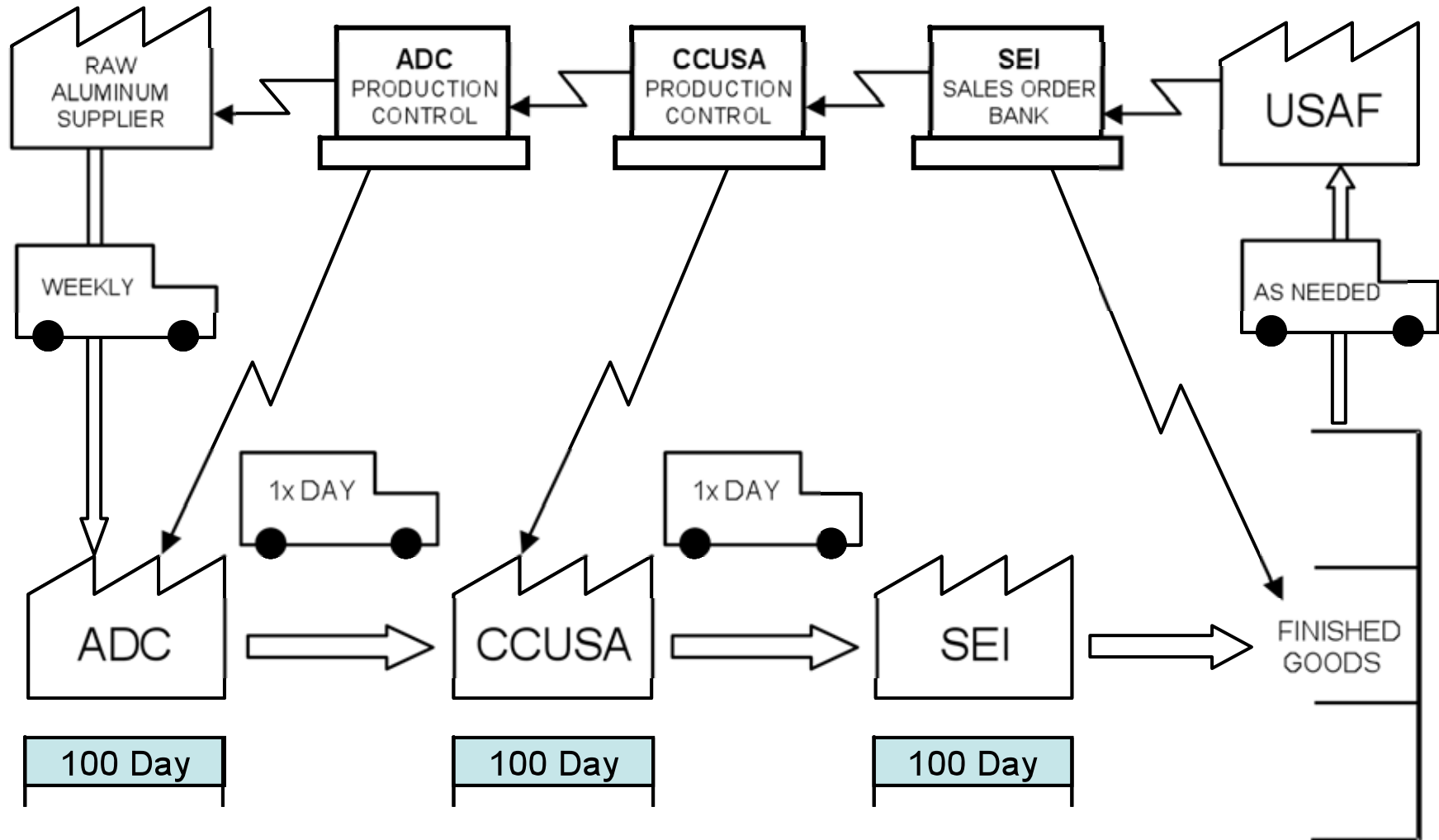
Launched Lean With 3P

3P - Production Preparation Process

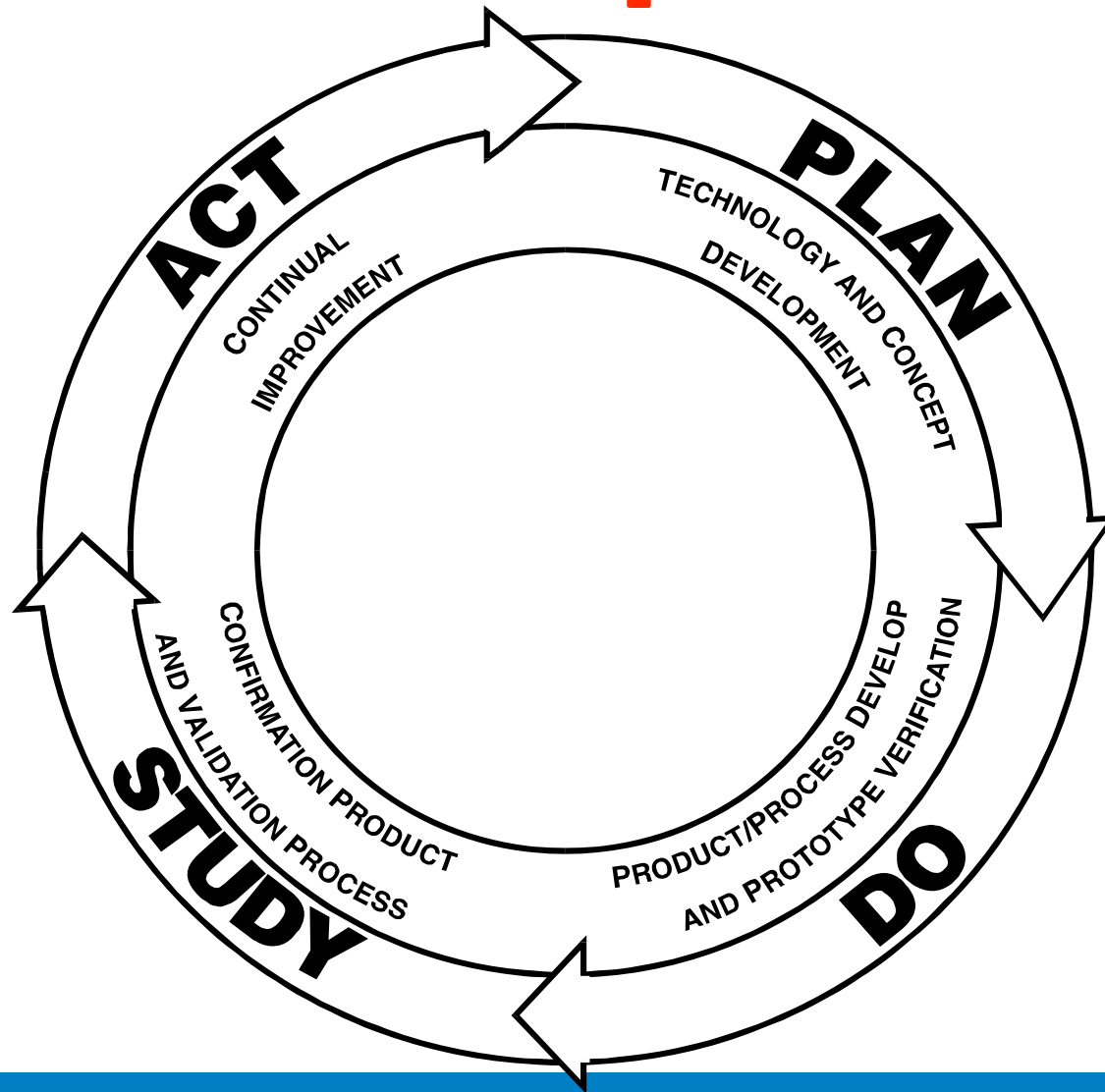


Note: Each color represents a different operator's work cycle

VSM From Raw Material to USAF



Continual Improvement



Things We Learned

- ✈ Empowered Customer-focused Multi-disciplined Teams – Main Ingredient for Success
- ✈ Product & Process Intimacy – Well Worth the Effort
- ✈ Core Tools - Living Records of Our Very Best
- ✈ 3P & APQP Work Hand-in-glove – Quality, Cost Reduction & Productivity Improved Together
- ✈ Preventing Problems (Mistake-proofing) & Removing Waste in Advance – Smooth & Successful Launches
- ✈ Improved DFX Capabilities – More Value-added Services for Our Customers
- ✈ Ultra Effective Ramps – More Like Step-functions

Questions

Thank You

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Accelerating Supply Chain Performance