



Commercial Airplanes

JMP[®] Discovery Conference 2014

Advanced JMP[®] Scripting:

Enabling Consistent and Dynamic Analysis Using Multiple Modeling Platforms and Integrated Diagnostics

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Supplier Management Finance – Joint Supply Cost Models

September 18, 2014

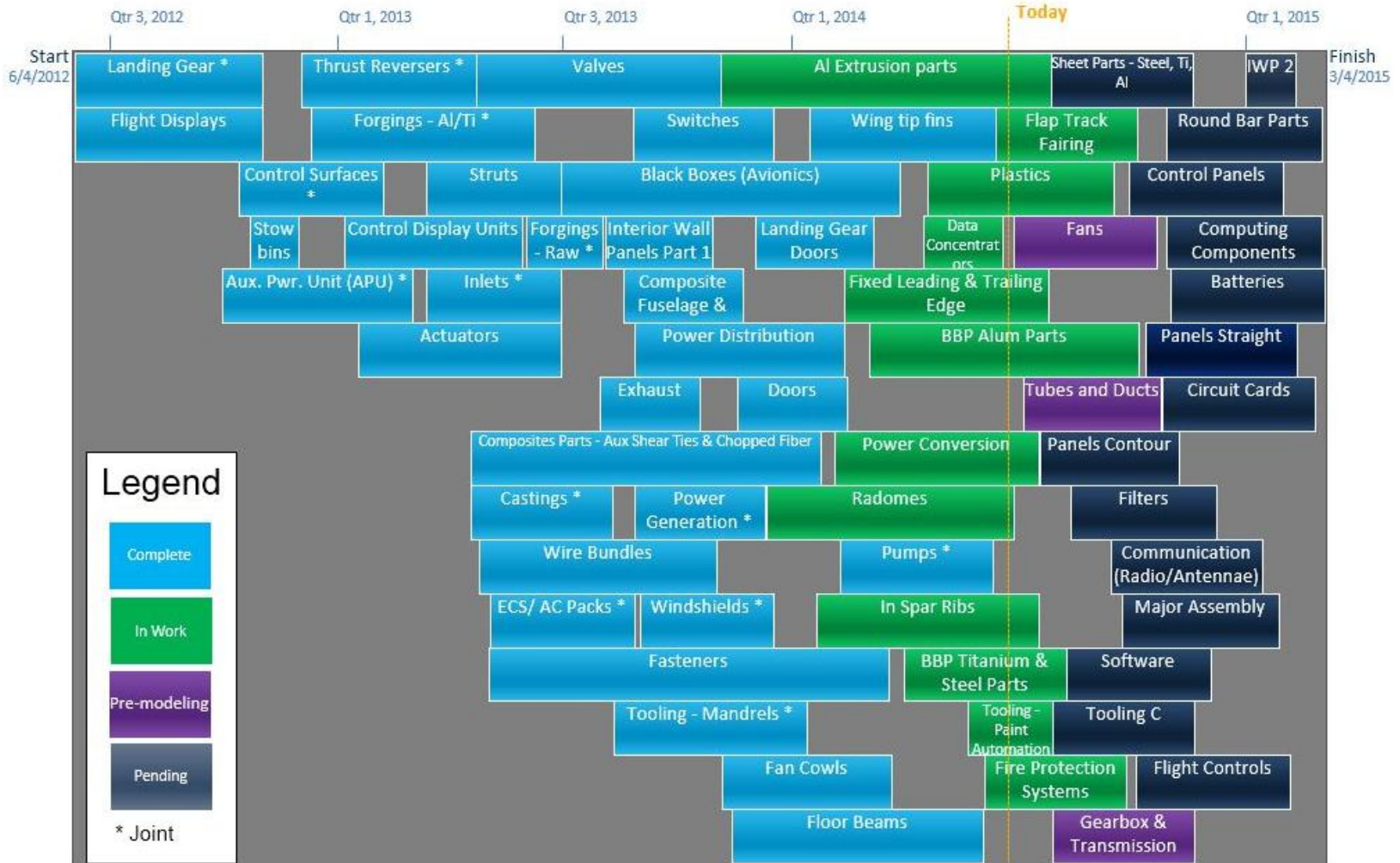
Business Overview

Background

- **Joint Supply Cost Modeling Team (JSCM)**
 - 8-10 business teams
 - Build predictive cost models
- **Boeing Commercial, Defense, and Services**
- **Supplier Management Finance**
- **Modeling Process**
 - Model Definition
 - Data Collection
 - Model Derivation

More detailed information available in the supporting paper.

JSCM Project Schedule



Major buildup of projects

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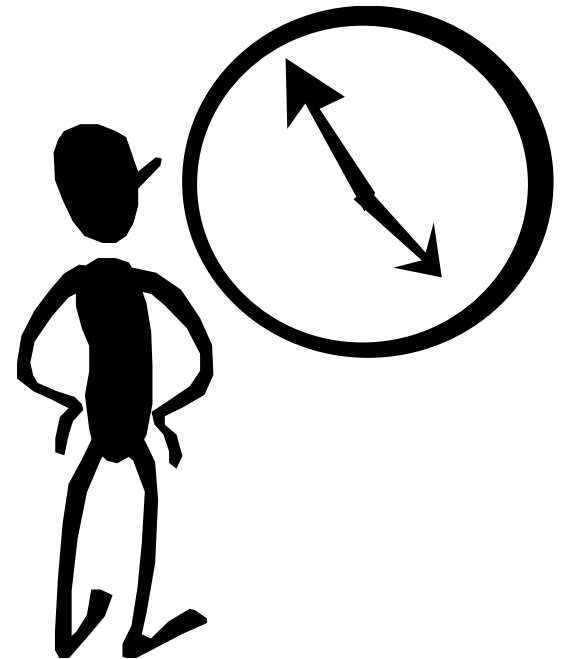
Demonstration Modeling Process

Simplified example of a ‘typical’ modeling effort

Lean+ Framework

Need for improvement

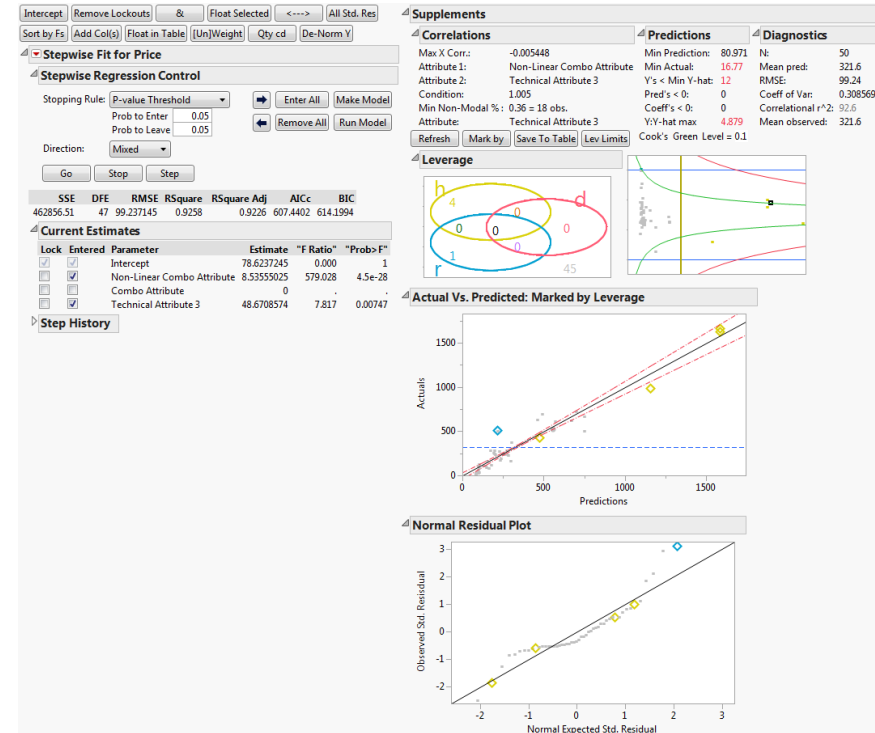
- Lean efforts were needed to stay on schedule for ramp up.
- Workshops reduced cycle and queue time while implementing better standards.
- Needed to address productivity
- Model Development was obvious target.
- JSL was the solution.



GIST

JSL Implemented Solution

- Integrated Stepwise with diagnostics
- Preserved link with data table
- Buttons increased Stepwise capabilities
- Integrated with Nonlinear Platform
- Automatic formula builder
- Numeric and visual information
- Standardized outputs



GIST GUI – Linear Platform

Automated Platform Jumps

Benefits of JSL

- **Dynamic Programming Language**
 - Object oriented
 - Procedural design
- **Predesigned objects**
- **Easily created objects**
- **Simple to advanced capabilities**
- **Team design**
 - Multiple script files
 - Multiple script windows
- **Versatile graphics**
- **Easy to build architecture**



Versatile Code = Versatile Platform

Demonstration

GIST in Work

Example of GIST 10.2

Example of GIST 10.3

Example of Multi Window Scripting

