Dual Manufacturing: Manufacturing Both Real and Virtual Products
Dr. Michael Grieves
PLM Model
Information Mirroring: Physical *and* Virtual Products
Create

Real Space

Virtual Space

Data

Information

Process

VS_1

VS_2

\ldots

VS_n

Driving the Next Generation
Of Lean Thinking
Components of PSM: Creating As-Builts

- Measure Physical Data
- Collect and Organize Data
- Data
- Information Process
- Present As-Builts
- Create As-Builts

Real Space

Virtual Space

Driving the Next Generation Of Lean Thinking

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Dual Product/PSM Value

• Instantaneous / Simultaneous supply chain (net) availability
• BoP validation (Eng/Mfg)
• Longitudinal manufacturing validation
• Sustainment efficiencies
• Product liability mitigation