

Win-Win Solution for Interoperability

Troy Niehaus, Metronor

Joe Pritchett, Lockheed Martin

New Manufacturing Environment

- International Partnering
 - 787 Dreamliner
 - F-35 Joint Strike Fighter
- Streamlined Manufacturing Concepts
- Improved Communications
- Affordability Constraints
- Industrial Participation



New Challenges

- Digital Product/Process Verification
- Adherence to Standards
- Data re-use
- Predictable Part Dimensional Control
- Real-time Part Buyoff

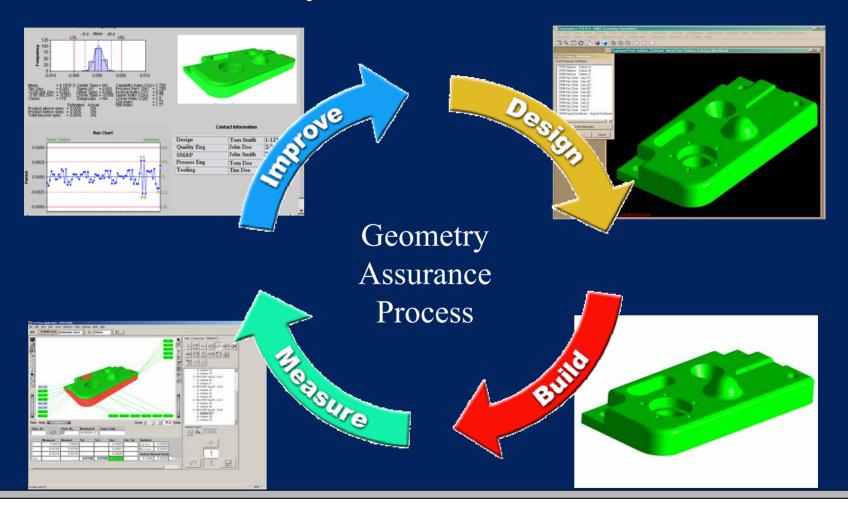


A "win-win" Solution

- Access to Data
- Accepted by Everyone
- Available to Anyone
- Must Address the Challenges



AIMS Concept

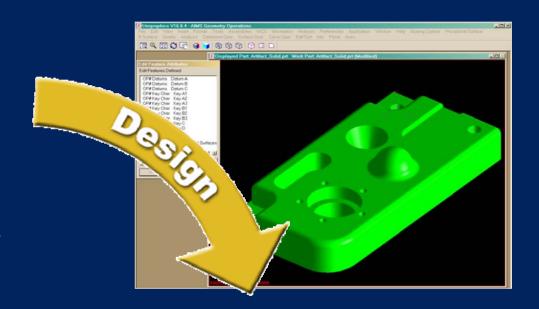




Design

 Design Inspection Requirements with "any" CAD system

Create and Export
 Measurement Plans
 with key CAD data



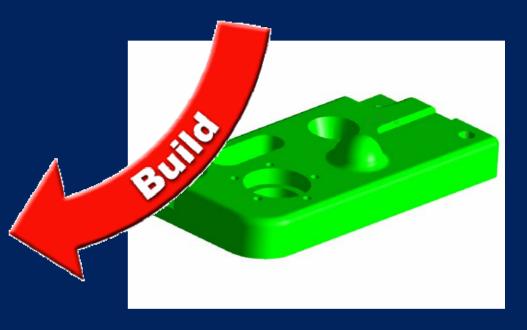


Build

 Build Consistent Geometry

Avoid CAD translation

 Use Model-Based Definition

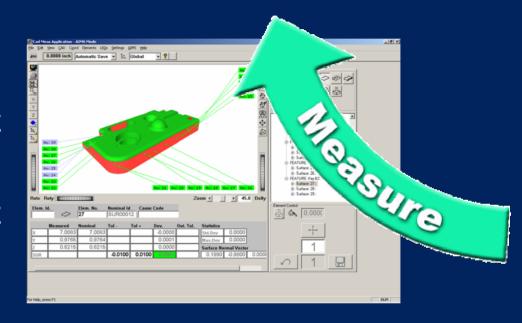




Measure

Read Measurement
 Plans with "any"
 Metrology SW Product

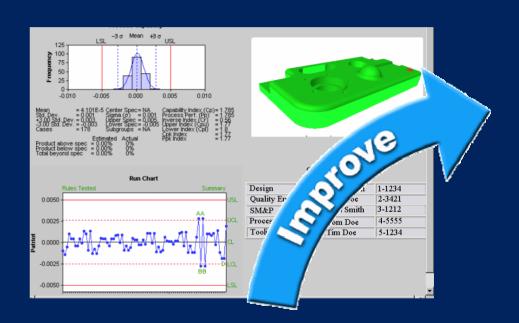
 Execute Measurement Plans on "any" CMM Platform





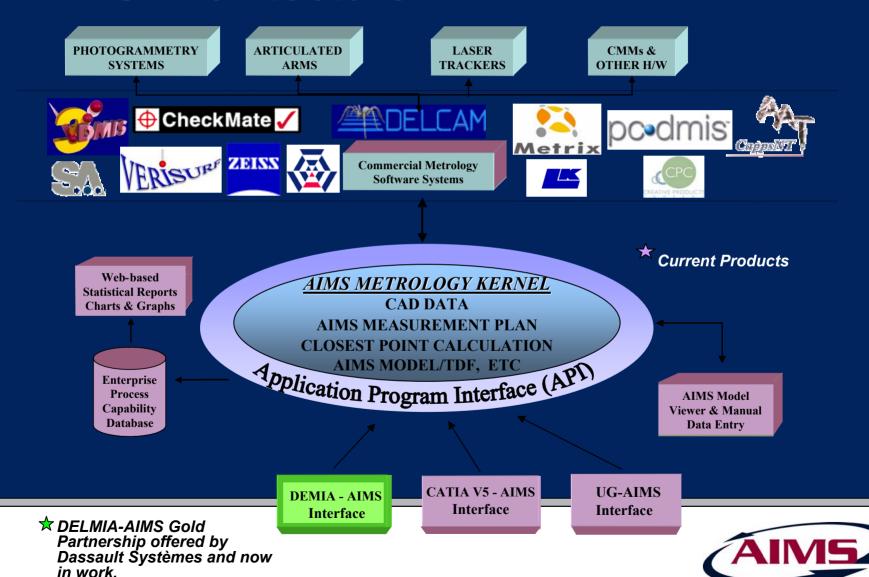
Improve

- Real-time Part buy-off
- Support Corrective & Preventative action tasks
- Predictable Supply Chain

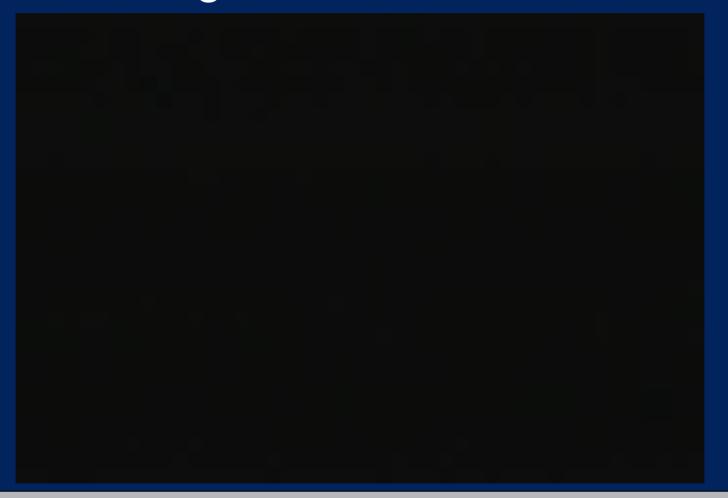




AIMS Architecture



AIMS at Boeing





AIMS at Lockheed Martin



