Filling the Gap between CAD and CNC with Engineering Services

Services for Model Based Machining

AVM Blast box

Engine Mount Bracket

GE Mount Bracket

Test Cases
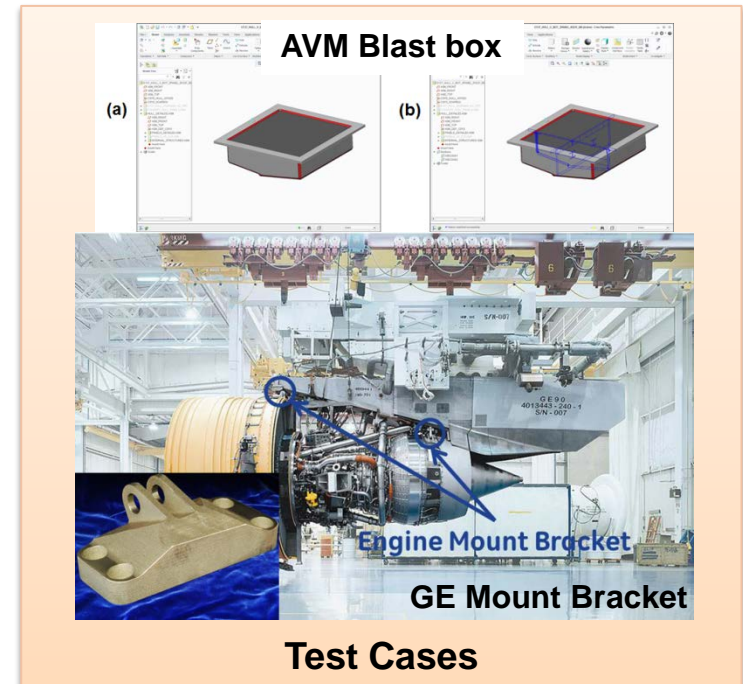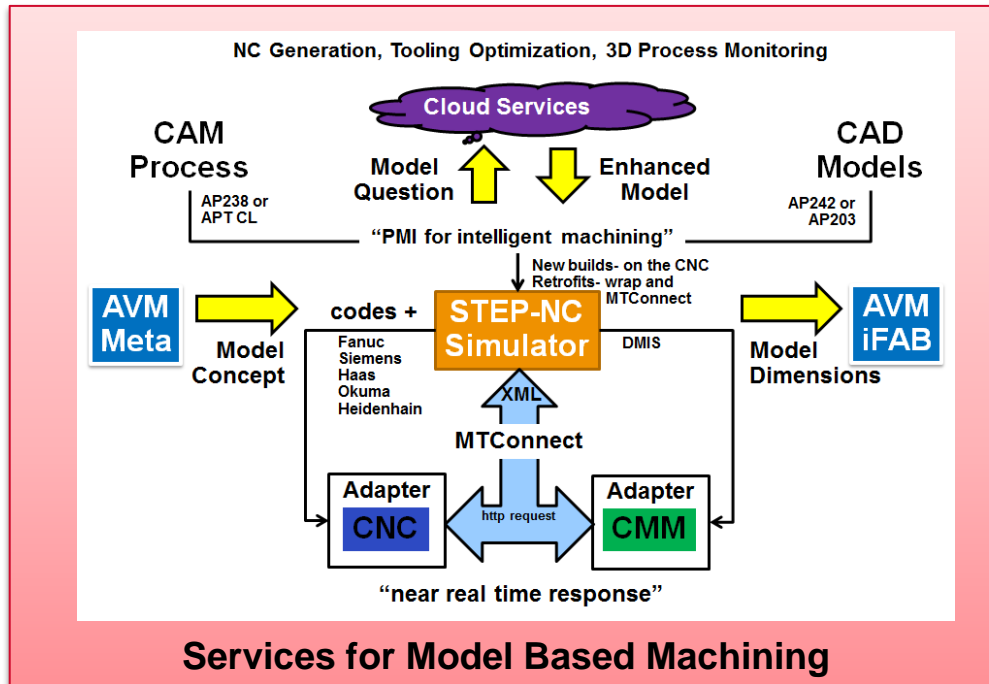
Purpose:
- Enable cloud services for manufacturing
- Simplify machine operation

Metrics:
- 15% to 30% faster machining by optimization service
- 35% faster planning by NC generation service
- 50% reduced operator attendance by 3D monitoring

Key Technologies:
- iFAB to generate NC code for AVM and industry digital machining models
- VehicleForge to visualize machining processes in smart phones and web browsers
- STEP Tools, Inc. " National Simulation Service" to evaluate satisfaction of PMI tolerance constraints

DMDII standards development
- Stage model machining
- Supply chain enrichment
- PMI Tolerance assessment

Transition Partners:
- OMAC (end users & vendors)
  - Boeing, GE, P&W, General Dynamics etc
  - Sandvik, Iscar, Okuma, Makino, Mazak, DMG
- Universities
  - RPI, PSU, Vanderbilt
- Services
  - TARDEC / RDECOM
  - WVA, NSRP
- Others are invited