

CONCURRENT DESIGN - THE FUTURE IS NOW



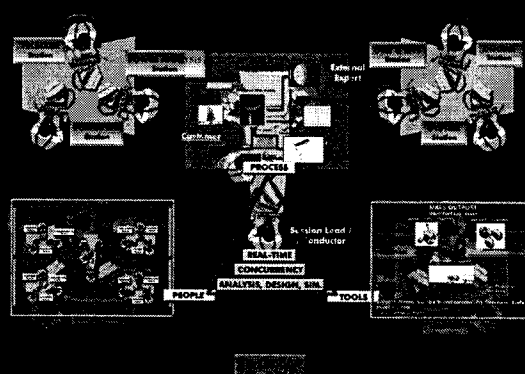
The Next Generation
Project Development Team



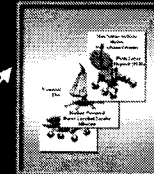
-----Concurrent Sessions----->

**MPEG
SCIENCE
Working
Group**

- Technology
- Customer
- Trades Det
- Information
- Session Plan
- Mission



Reports, Presentations,
Quad Charts, etc.



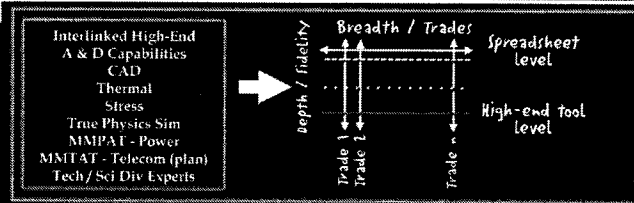
Analysis and
Design
Results and Data
"Data Products"

CAD Data
Thermal Data
Stress Data
Power Data
Ground Ops
Mission Scenario

Next Part
of the
Design
Process

Images: K. Osnevad: MMPAT: Multi-Mission Power Analysis Tools

- "The Best Principles of Concurrent Design"
- (1) Analysis and design activities are performed by a MULTI-DISCIPLINARY design team.
 - (2) Design team members work together in CONCURRENT SESSIONS.
 - (3) "Customers" and team members participate in the concurrent session.
 - (4) Analyses and design activities take place in a CONCURRENT, AND NEAR REAL TIME fashion.
 - (5) INTER-LINKED HIGH END COMPUTER TOOLS are utilized in the concurrent session by the team members.
 - (6) These high-end computer tools are used FROM THE EARLY PARTS OF THE DESIGN CYCLE.
 - (7) COMMON GEOMETRICAL DATA (CAD) IS SHARED electronically BETWEEN THE TOOLS.
 - (8) CAD, structural, thermal, and optics data can be IMPORTED and EXPORTED to and from the design team.



COMPRESSED DESIGN CYCLE AND IMPROVED QUALITY

SPACE SYSTEM (HW/SW)

© CDL

