

# MEANS II Bidder Conference

3 May 04



**Charles YC Lee**

**Program Manager**

**AFOSR/NL**

**Air Force Research Laboratory**



# MEANS / AIM



- **Accelerate Materials Qualification Process for Aerospace Components through aids of computational modeling**
  - **Reduce number of testing to obtain engineering data for design**
  - **Reduce prototyping to certify manufacturability**
  - **Predict life time performance with confidence**



# MEANS (Basic Research)



- **Two approaches**
  - **Research on how to....**
    - **New approach- Building framework for specific target**
  - **High fidelity modeling**
    - **For insertion in existing frameworks to fill holes**
    - **To provide confidence in the model outputs**

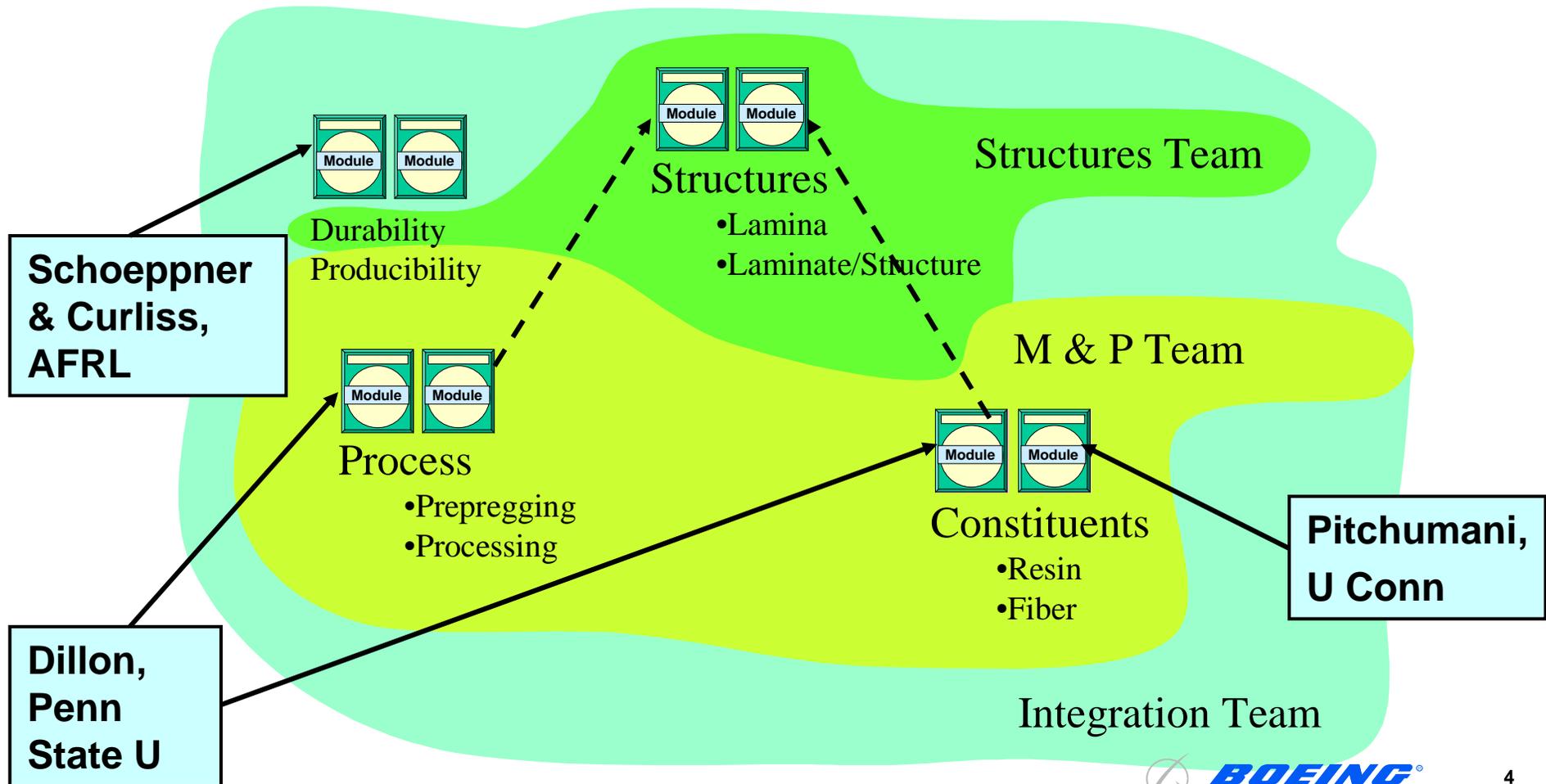


# Relationship of MEANS (Composite) and AIM-C



## Modular Approach

Four Types of Modules





# MEANS II - PMC



- **Clearly identify and address**
  - **Issues relevant to certifying PMC materials**
    - **Prepregs**
    - **Dry preforms/ RTM**
    - **Others**
  - **Issues relevant to target components/platforms**
    - **Air Frames**
    - **Engines**
    - **Space Structures**
    - **UAV**
    - **Missiles/ Rockets/ Launch Vehicles**