Institute for Advanced Aerospace Technologies

A California Consortium of Universities, Industry and Government
Institute for Advanced Aerospace Technologies

- **Charter**
  - Focused, aerospace-related research by a consortium composed of government, industry, and universities.
  - Facilitate critical research and/or technology development of interest to industry and government agencies
    - Environment compliant with proprietary, ITAR and/or DoD classification.
    - Capabilities to perform experimental testing, theory, and simulations of emerging technologies and concepts.
    - Develop research that requires intellectual property protection.
    - Leverage potential commercialization opportunities.
  - Offer education opportunities across multidiscipline aerospace technologies.
    - Industry and University research participation via internships and/or research assistantships.
    - Specialized/focused subject courses for industry and government engineers.
    - Provide short term research opportunities at the Institute for the Government, Industry, and University community.
  - Promote aerospace science and engineering, provide public outreach, and stimulate public awareness of the value of the field.
Research and Development in Critical Technologies Supporting Customer Capability Obtainment

- We consider developing an Institute focused on the research and development of critical technologies with extended maturation timelines.

Critical Technologies → Platforms → Capabilities

- Aeronautics and Space Vehicle Technologies
- Communication, Sensing, Navigation, and Guidance Technologies
- Aircraft including UAVs
- Launch vehicles
- Spacecraft/Satellites
- Global Reach
- Time Critical Targets
- Terrestrial Planet Finder
- Surveillance
Institute’s Benefits

- UCLA lead for Consortium
- Centrally located (El Segundo/LAAFB)
- To provide Universities a mechanism to perform research within an ITAR environment.
- To provide Industry with superior and leveraged capabilities to perform research and development of critical technologies.
  - Research training of students in areas where industry has future employment needs
- To continue the nation in maintaining its preeminence in aerospace technology.
Issues

● What critical technologies are you planning to invest in over the next decade that could be enhanced by participating in this Institute?
  ❑ Leverage IR&D Dollars with
    • Joint Government Grants
    • Transition of University Research
    • Investment by the State of California(?)

● What mechanisms should be incorporated into the Institute that would benefit your organization?