



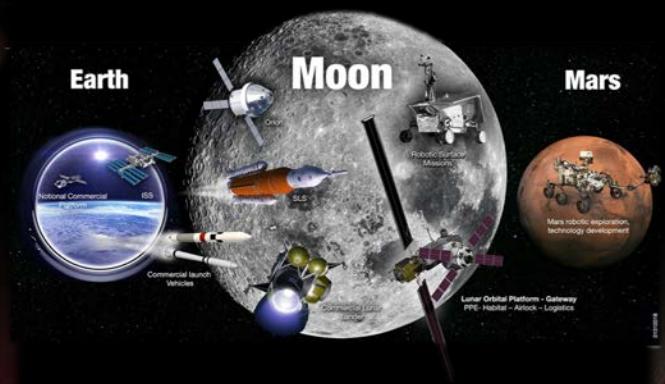
NASA Ames Research Center

An Overview

Dr. Eugene Tu, Director



International Space Station



NASA Centers and Installations



Ames is One of the Early NACA Laboratories



Joseph S. Ames



NACA

↓
1915

Langley

Ames

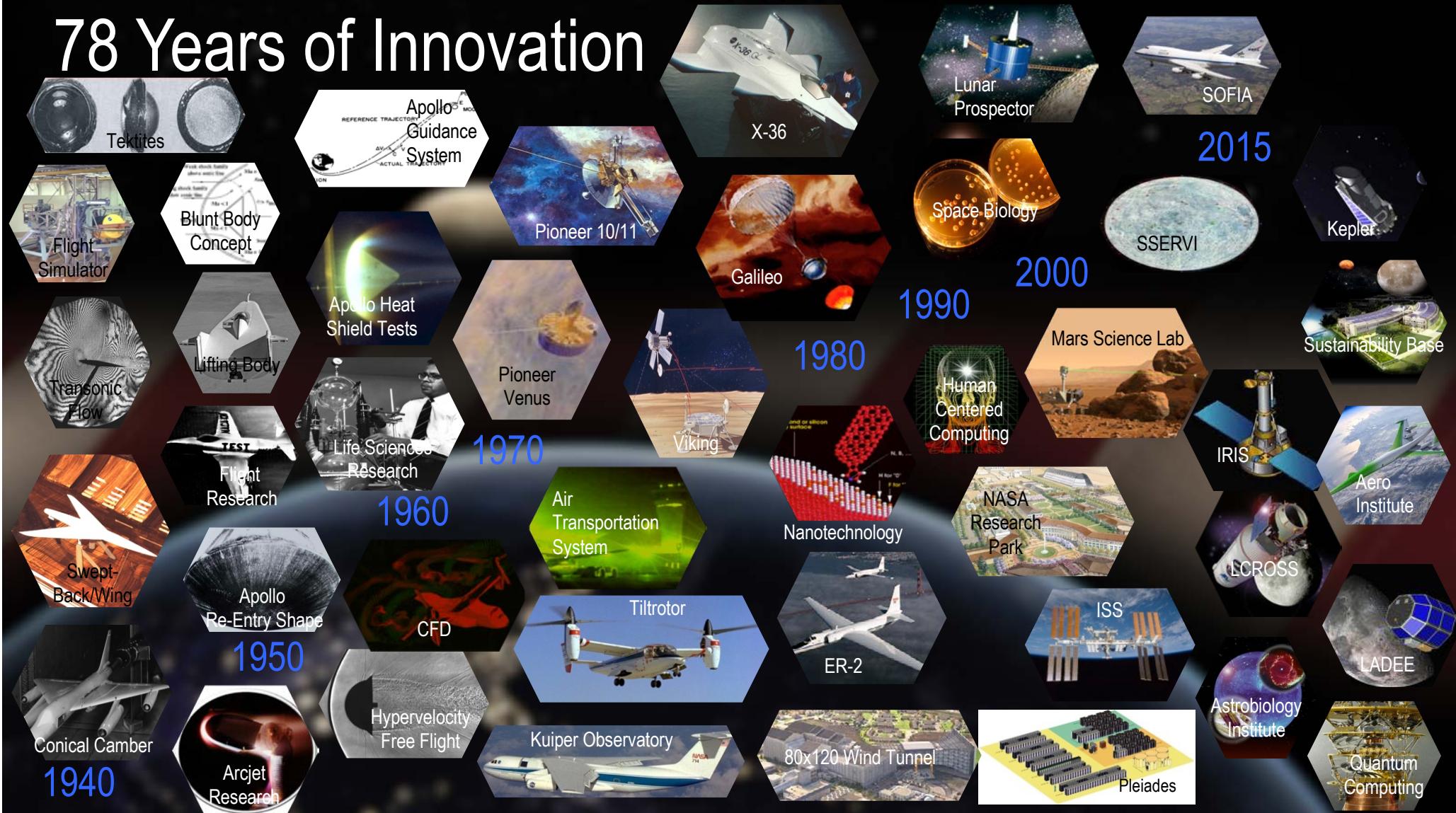
1939

Lewis
↓
1940

Dryden
↓
1946

NASA
↓
1958

78 Years of Innovation



Ames Research Center

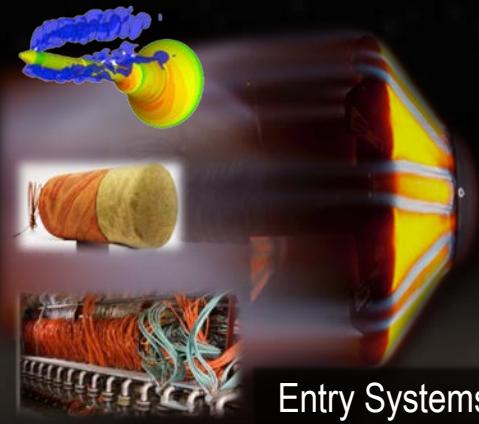


- Occupants:
 - 1175.8 civil servants (FY18 “ceiling”); ~2,100 contractors; 1,650 tenants
 - 855 summer students in 2016
- FY2016 Budget: ~\$915M (including reimbursable/EUL)
- ~1,900 acres (400 acres security perimeter); 5M building ft²
- Airfield: ~9,000 and 8,000 ft runways

Core Competencies at Ames Today



Air Traffic Management



Entry Systems



Advanced Computing
& IT Systems



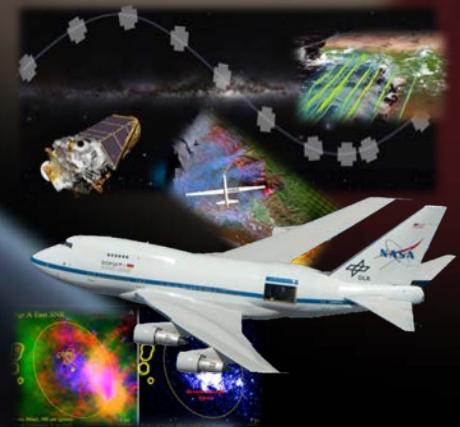
Intelligent/ Adaptive Systems



Cost-Effective Space Missions



Astrobiology and Life Science

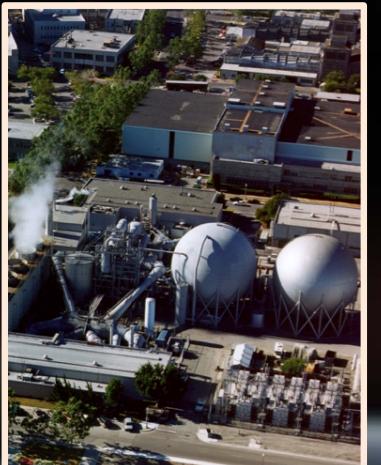


Space and Earth Sciences

Major Research Facilities



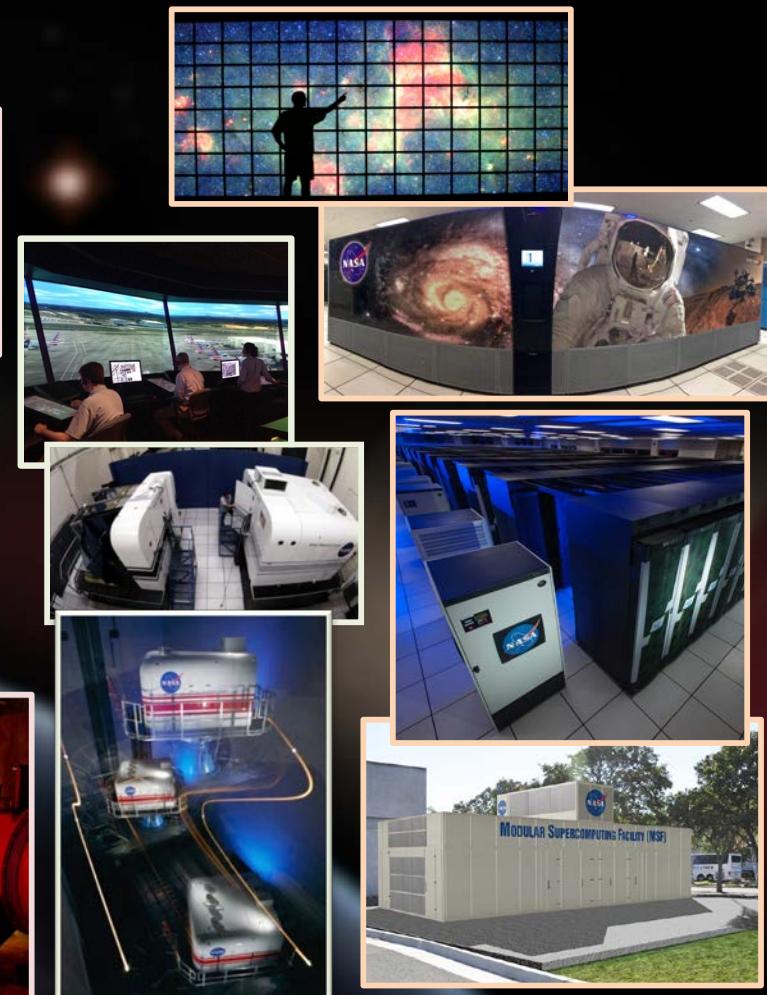
Wind Tunnels



ARC Jet Complex



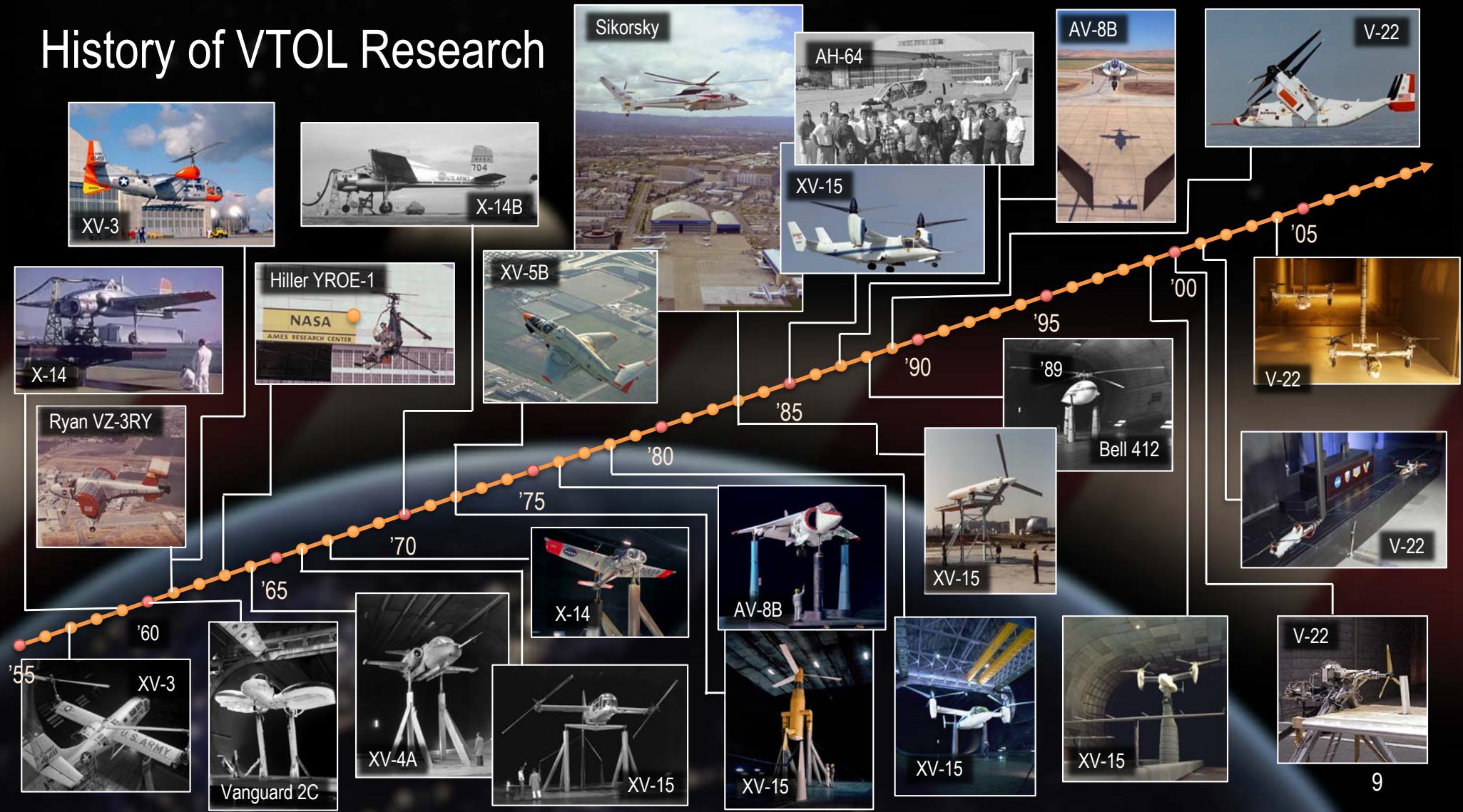
Range Complex



Simulators

Advanced
Supercomputing

History of VTOL Research

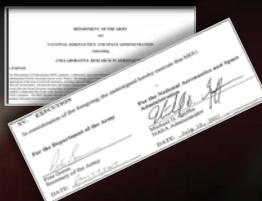


Collaboration with the Army

1965 Joint Agreement



2007 MOU



Test Capabilities

Measurement Techniques

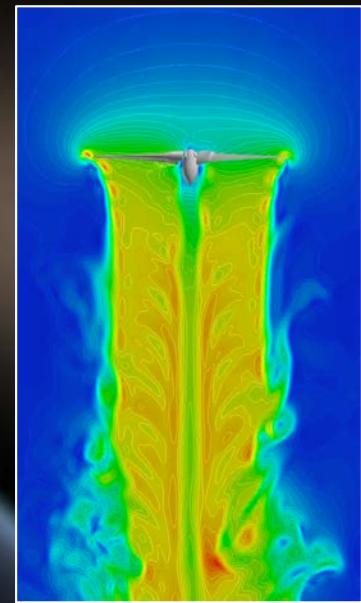
- Leadership Development
- International partnership
- Contribute to University Rotorcraft/ Vertical Lift COEs and industrial collaborations
- Publications/awards



Configuration Development



Flight Dynamics and Control

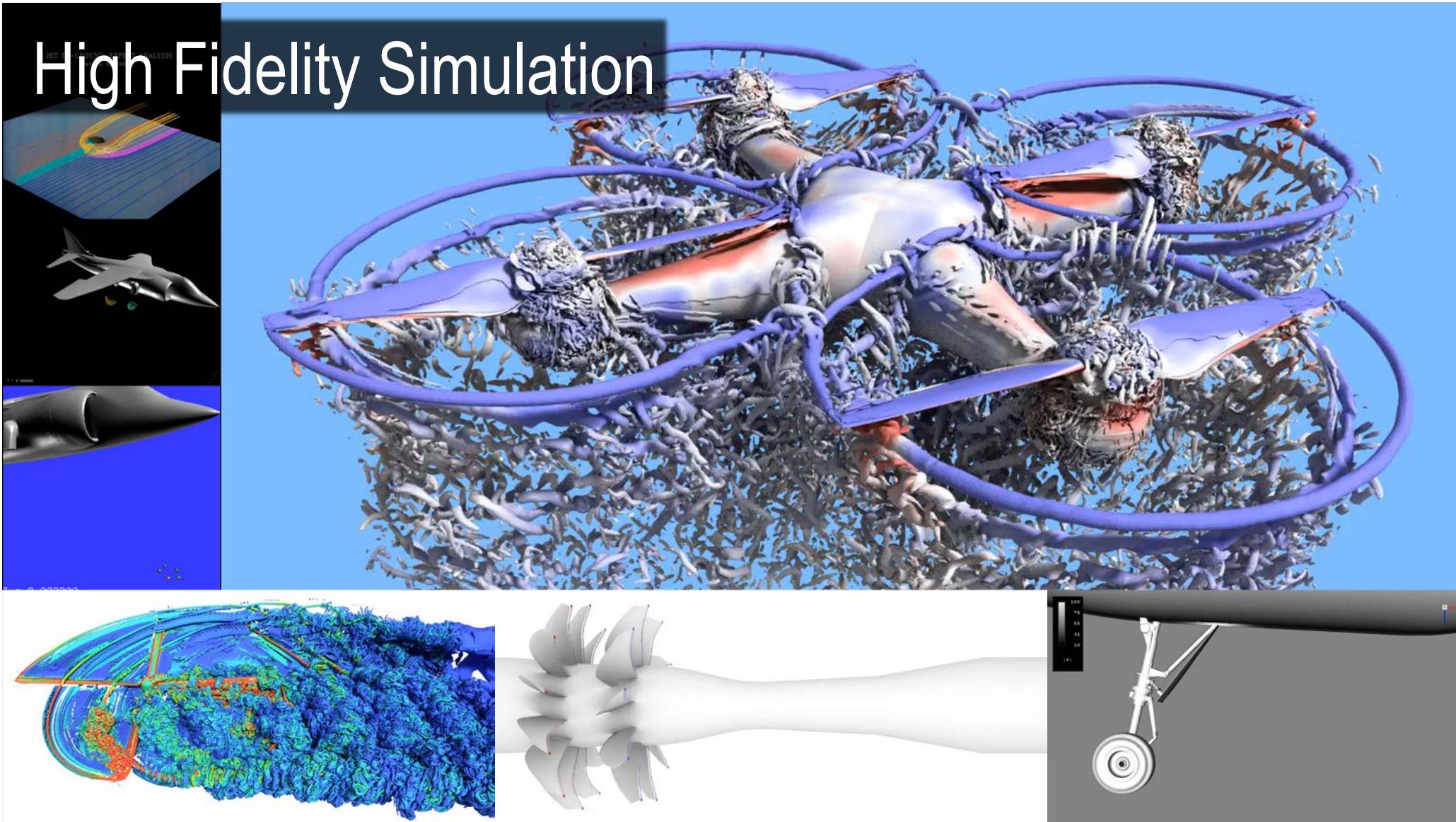


Simulation

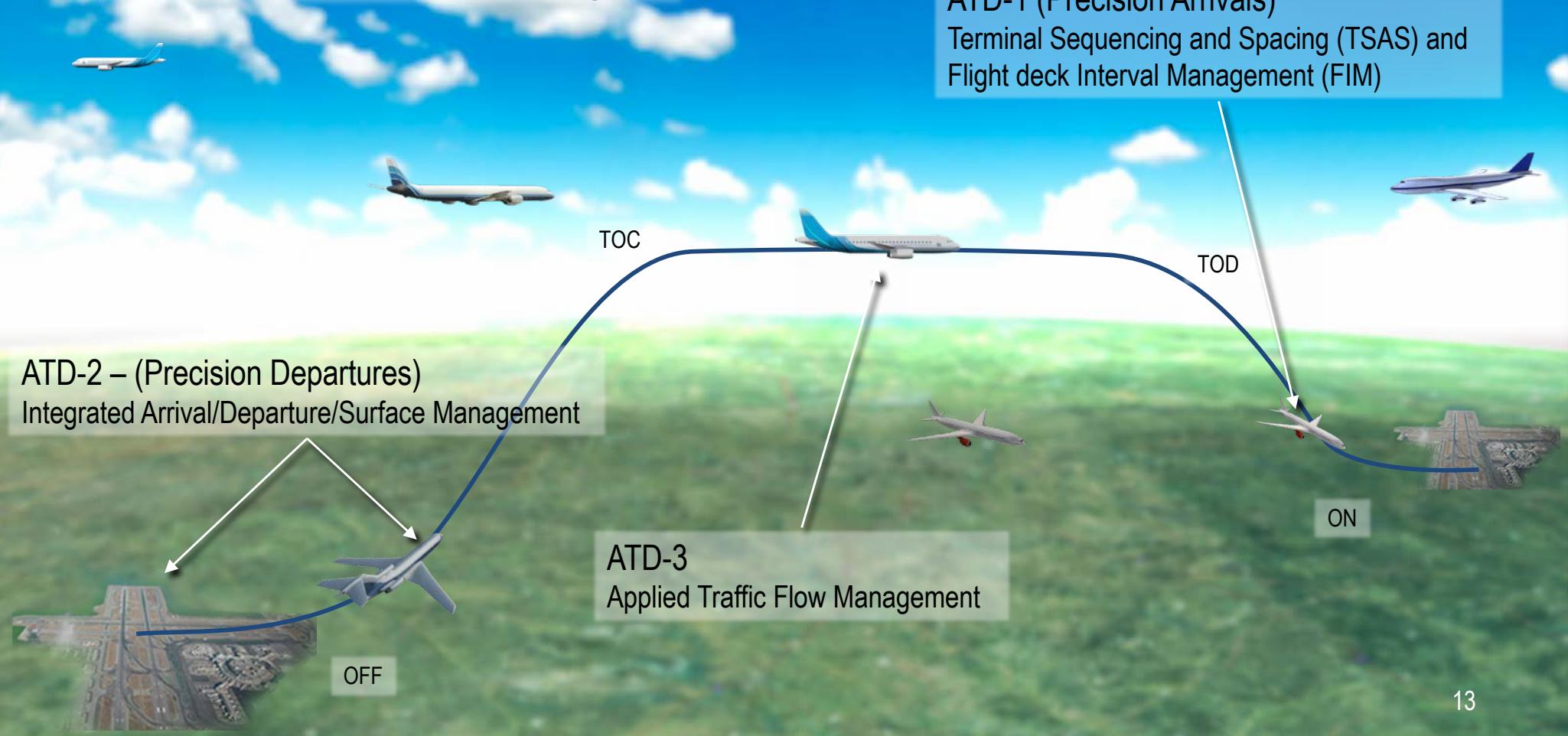
Tiltrotor Test Rig in the 40- by 80-Ft Wind Tunnel



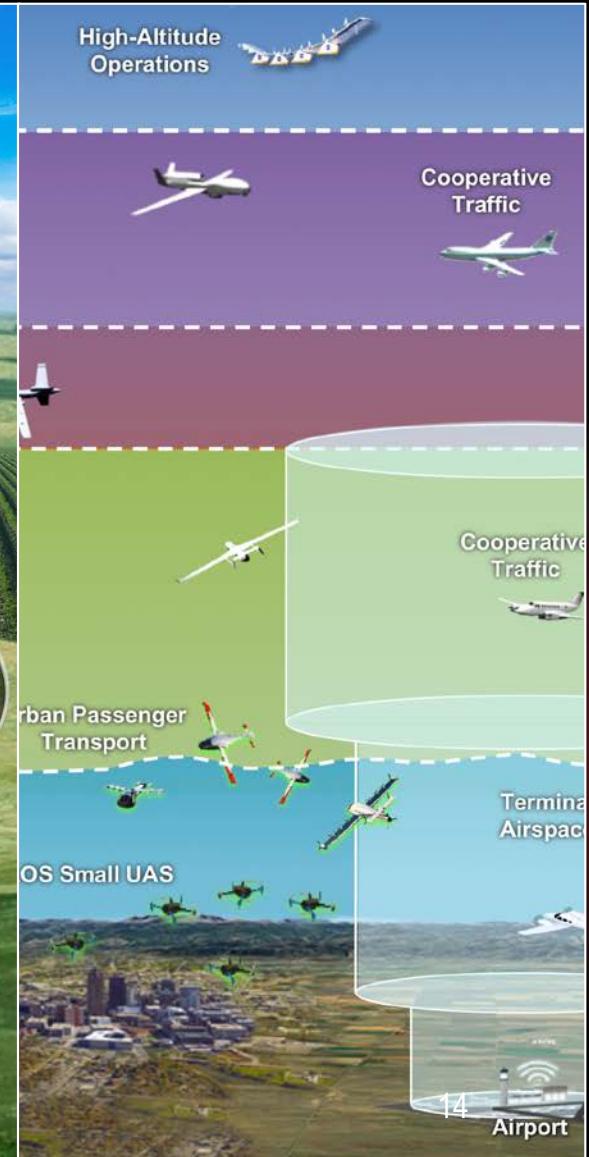
High Fidelity Simulation



The Phases of Flight



Integrating UAS in the NAS



Partnerships at Ames

Commercial



Virtual Institutes

Academia



Inter-Agency



NASA Research Park



International

