Space Policy Debate
On Space Privatization & Property Rights

Dr. Eugene Tu
Director, NASA Ames Research Center
EARTH RIGHT NOW
Your planet is changing. We're on it.

OFF THE EARTH, FOR THE EARTH.

INTERNATIONAL Space Station

NASA'S JOURNEY TO MARS

TECHNOLOGY DRIVES EXPLORATION
Ames Research Center

- Occupants: ~1130 civil servants; ~2,100 contractors; 1,650 tenants
  855 summer students in 2016
- FY2016 Budget: ~$915M (including reimbursable/EUL)
- ~1,900 acres (400 acres security perimeter); 5M building ft$^2$
- Airfield: ~9,000 and 8,000 ft runways
60 Years of Mars Exploration

- Soviet Union
- United States
- Russia
- Japan
- ESA
- India

- 2020 EXOMARS Rover (ESA)
- 2018 Insight Lander
- 2011 Curiosity Rover
- 2007 Phoenix Scout

Illustration by: Bryan Christie Design
Updated: 2015
Analogy: History of Aviation

- Kitty Hawk (1903)
- Boeing 247 (1934)
- DC-3 (1935)
- X-1A (1946)
- X-2 (1952)
- X-15 (1959)

- NACA (1915)
- The Air Mail Act (1925)
- Civil Aeronautics Act (1938)
- Air Commerce Act (1926)
- FAA, NASA (1958)
- Airline Deregulation Act (1978)
- NASA launched AT&T Telstar (1962)
The Canadarm 2 reaches out to grapple the SpaceX Dragon cargo spacecraft and prepare it to be pulled into its port on the ISS. (4/17/2015)
Pad 39-A (11/9/67): Apollo 4, the first test flight of Saturn V.

Pad 39-A (4/12/81): STS-1; John Young and Bob Crippen flew Columbia for 2 days.

Pad 39-A (2/19/17): SpaceX CRS-10 “Dragon”, first launch from Pad 39-A since the final space shuttle mission.