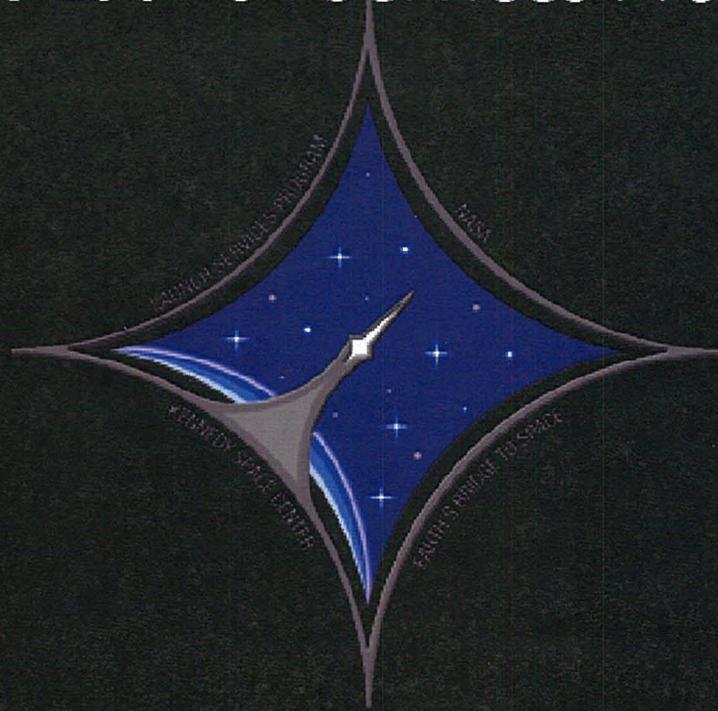


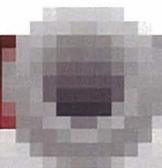
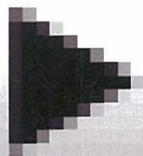
NASA's Launch Services Program



"Launching Education into Space"

Amanda Mitskevich - Program Manager

You Tube



prezi.com

How do NASA and CubeSats work together?

Strategic Goal for Education

Partner with educators, and students to provide opportunities to participate in STEM education and contribute to a strong National economy.

Engage students in STEM disciplines by providing opportunities and activities along with formal and informal organizations.

Engage in partnerships with formal and informal organizations, by providing new pathways for participation.

Share NASA's missions, challenges, and results.



LSP's Role in CubeSats

To be the recipient of research

LSP



NASA's Strategic Goal for Education

Goal 6: Share NASA with the public, educators, and students to provide opportunities to participate in our mission, foster innovation and contribute to a strong National economy.

- 6.1 Improve retention of students in STEM disciplines by providing opportunities and activities along the full length of the education pipeline.
- 6.2 Promote STEM literacy through strategic partnerships with formal and informal organizations.
- 6.3 Engage the public in NASA's missions by providing new pathways for participation.
- 6.4 Inform, engage and inspire the public by sharing NASA's missions, challenges, and results.



NASA offers structured programs for students and college faculty to engage in STEM learning activities such as competing in technical design challenges, **launching student-built payloads**, and participating in research and hands-on engineering experiences using real-world platforms, including high-altitude balloons, sounding rockets, aircraft, and **space satellites**.

Agency Involvement

LSP's Role in CubeSats

LSP Vision

To be the recognized leader in launch services

LSP Mission

Leadership and expertise in providing on-orbit, on-time, and on-cost launch services

LSP Goals

Goal 1: Maximize Mission Success

Goal 2: Assure Long-Term Launch Services

Goal 3: Promote Evolution of a US Commercial Space Launch Market

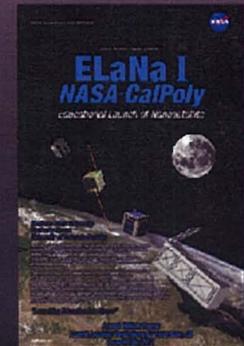
Goal 4: Continually Enhance LSP's Core Capabilities



LSP'

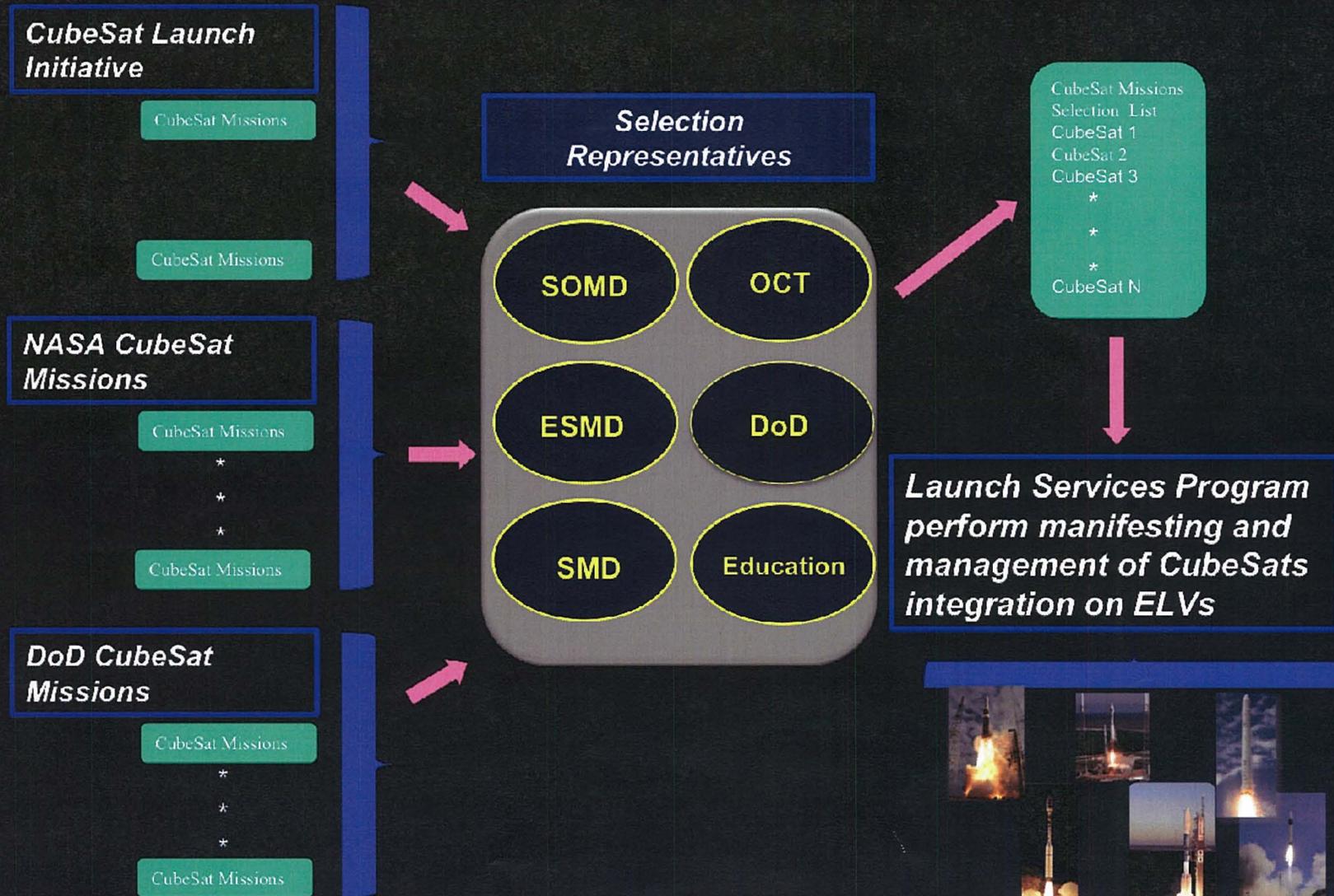


CubeSat Launch Initiative



- NASA's CubeSat Initiative ELaNa - Educational Launch of Nanosatellite
- CubeSats are planned as auxilliary payloads
- NASA has selected over 30 small satellies to launch in 2011 and 2012
- First CubeSat to be carried for LSP was ELaNa I

Manifesting



KSC's Initiative/Program

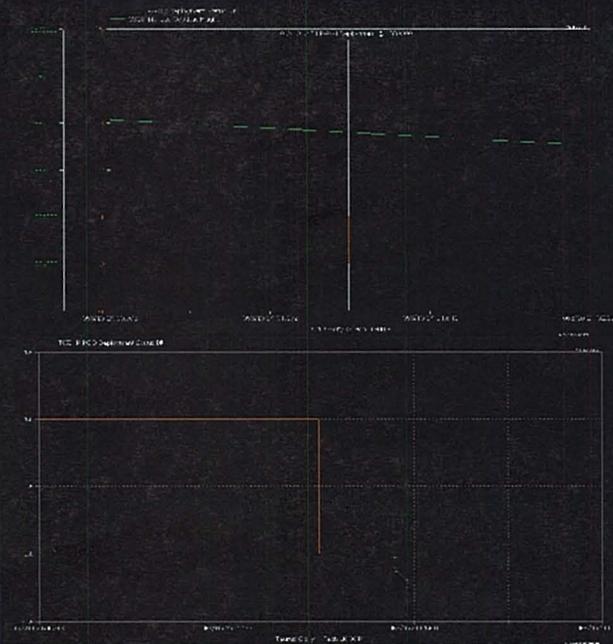
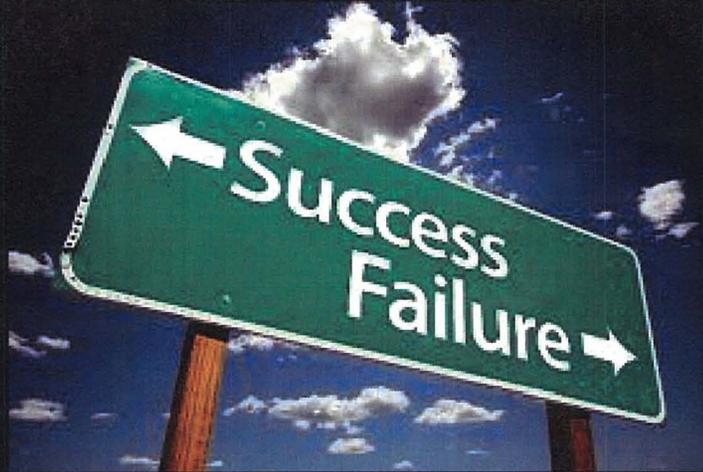


Creating Understanding and Broadening Education through Satellites

CUBES (Creating Understanding and Broadening Education through Satellites) is a NASA Kennedy Space Center project designed to connect high school students who are interested in building a CubeSat satellite with the mentoring and testing resources that will help them successfully build, test, and potentially launch their CubeSat satellite

KSC's Involvement

Opportunities and Risks!



Glory Mission w/ Explorer-1, KySat1, and Hermes Cubesats

LSP Strategy For CubeSats



CubeSat Proof of
Concept Flight Project

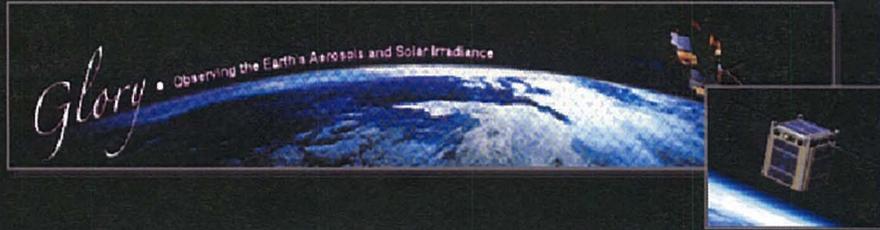
Carrier System
Development



Launch Vehicle
P-Pod Development Studies

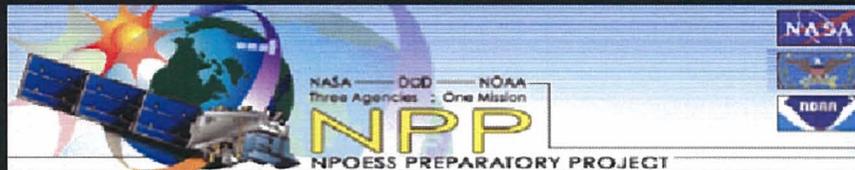


LSP 2011 Outlook



Juno

Unlocking Jupiter's Mysteries



CubeSats



system
ment

and Risks!

LSP Future Launches



OCO - Orbiting Carbon Observatory



RBSP – Radiation Belt Solar Probes



LADEE - Lunar Atmosphere and Dust Environment Explorer



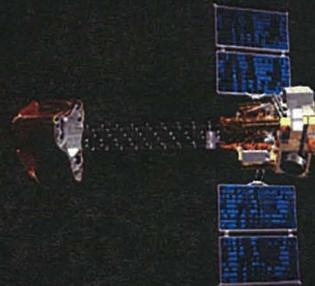
GEMS – Gravity and Extreme Magnetism Small Explorer



IRIS – Interface Region Imaging Spectrograph



MAVEN - Mars Atmosphere and Volatile Evolution



NuStar - Nuclear Spectroscopic Telescope Array



LDCM – Landsat Data Continuity Mission



MMS – Magnetospheric MultiScale



GPM- Global Precipitation Measurement



TDRS K&L – Tracking and Data Relay System



JWST – James Webb Space Telescope

Questions?