

# Federal Contracting Conference

## *Space Florida*

*Jim Kuzma*  
*Space Florida*

May 21, 2012



Launch Systems and Support



# FLORIDA TEAM APPROACH



*Governor Rick Scott*



# STRUCTURE & ROLE:

- Public Corporation & Independent Special District
- Infrastructure Role ... Largely defined  
Spaceport & Aerospace Industry Needs
- Economic Development Role ... for the Space &  
related - Aviation/Aerospace Industry
- Investment and Financing Role ... for  
Spaceports and Industry Projects Statewide!



ISS and Human Life Sciences



# ***SPACE FLORIDA: Powers Under Florida Law***

- Own & lease real estate, and machinery & equipment***
- Hold rights to intellectual property***
- Issue revenue bonds, assessment bonds, and conduit or other debt instruments consistent with fulfilling mission***
- Create and update a statewide Spaceport Master Plan***
- Exercise most powers of local government within the designated Spaceport territory (per the Spaceport Master Plan)***



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# ORGANIZATIONAL OVERVIEW:

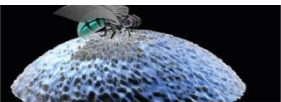
- **Organizational Units**
- **Fulfillment Functions**
  - **Spaceport Development & Operations**
  - **Facilities Management**
  - **Research & Technology Advancement**
  - **Education and Talent Supply Chain**
- **Investment & Deal Execution Functions**
  - **Marketing & Business Development**
  - **Investments and Special Projects**
- **Finance/Administration/Support Functions**



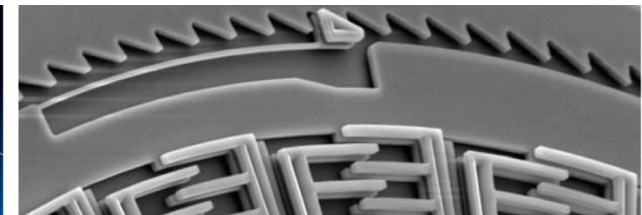
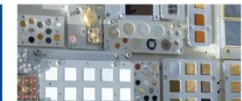
# Space/Aviation/Aerospace

... .. **An Industry in Transition!**

- **Global Competitiveness / Technology Leveling**
- **Tightening National Budgets for New Initiatives**
- **Continued Industry Consolidations / Partnering**
- **Significantly Increased Integration of Space  
with other Platforms / Technologies**
- **New Companies, New Applications, New Markets**



Advanced Materials  
and New Products



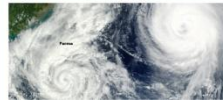
# Florida's Aerospace Industry Today

Total Florida Companies 3891  
Aerospace/Aviation  
FL  
Economic Impact 17.8 Billion  
74232 Employed  
Wages 9.1 Billion

*\*Source: Dept. of Economic Opportunity 2011 Space & Aerospace Labor Market Industry Profile*



Civil Protection and  
Emergency Management



# ***New Applications Growth Areas***

***Potential for growth in Florida's aerospace sector has never been better:***

- ***Commercial & Civil Aerospace Programs***
- ***UAVs, ISR Technologies and CYBER***
- ***Microgravity R&D / LEO Exploitation***
- ***Small Satellites & Other New Space Systems***
- ***Clean Energy & Advanced Materials***
- ***New Space / Defense Technology Applications***

***... .. And Much More ... Next-Gen Systems***



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# Vision 2020 ... .. Strategies for Growth

*“Florida ... Positioned as a Global Leader  
With Premier Aerospace Industry Presence”*

**Goal: “3x” Growth 2020**

**Implementation Strategies:**

- **Diversification of Industry**  
Statewide ... .. 10 target sectors.
- **Vertical Integration of the Supply Chain**  
Depth & Breadth of Aerospace Supplier Base.
- **Targeted Infrastructure Investment**



Ground and Operations  
Support Systems



# Vision 2020 : Strategy Overview

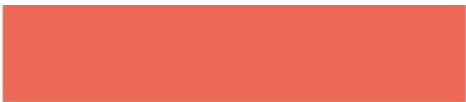
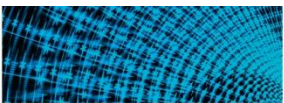


# “VISION” FOCUS

## ... .. 10 TARGET MARKET SECTORS:

- Transportation & Advanced Aerospace Platforms
- Satellite, Robotic Systems & Payloads
- Ground & Operations Support Systems
- Agriculture, Climate & Environmental Monitoring
- Civil Protection & Emergency Management
- ISS & Human Life Sciences
- Communications & Cyber-Security
- Adventure Tourism
- Clean & Alternative Energy Applications
- Advanced Materials & New Products

**DIVERSIFICATION IS FLORIDA’S SPACE FUTURE!**

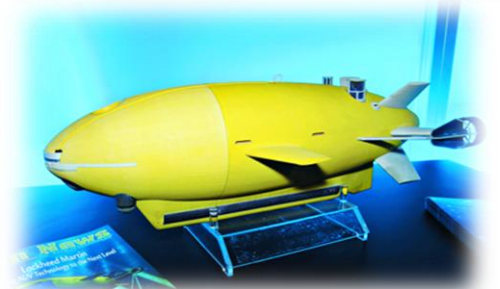
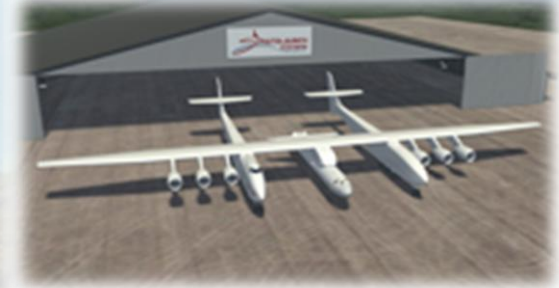


Communications,  
Cybersecurity and Robotics



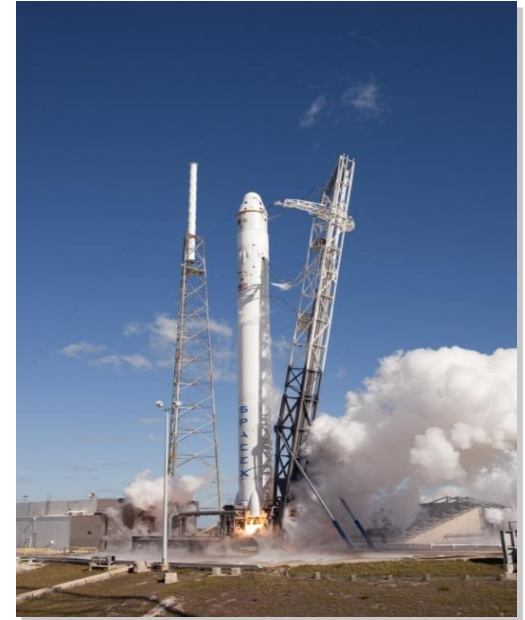
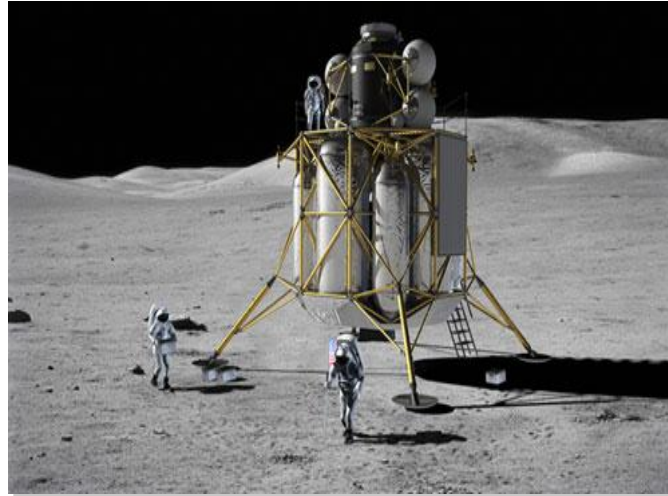
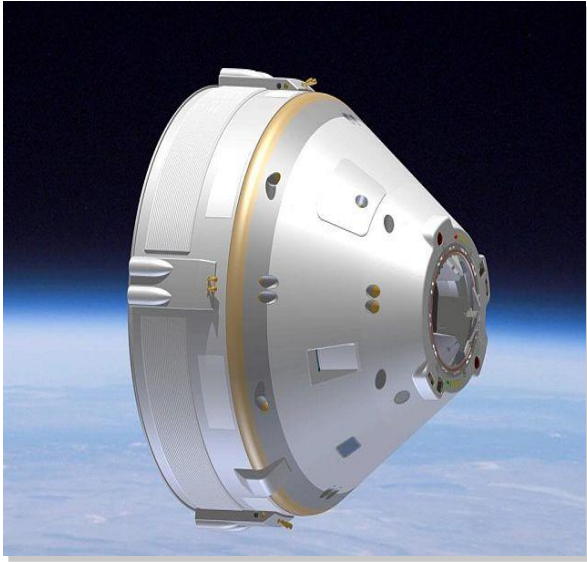
# TRANSITIONING TO SPACEPORTS FUTURE

- *Multi-mission... Integrated Air, Land, Sea, Space, Unmanned*
- *Business Case Driven*
- *Multi-User Standards Based*
- *Coordinating Authority*



Adventure Tourism

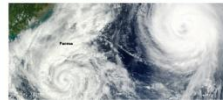
# ***POSITIONING FLORIDA FOR THE NEXT-GENERATION CIVIL SPACE PROGRAM.***



- Partnering With KSC to Repurpose & Rebuild***
- Working with Next-Gen hardware manufacturers:  
launch, spacecraft, propulsion, ground systems***



**Civil Protection and  
Emergency Management**



# ***DIVERSIFYING FLORIDA'S LAUNCH ACTIVITY***



- **LC – 46: Minotaur, Athena**
- **LC – 36: Masten, Other Next-Gen**
- **Shuttle Landing Facility/Skid Strip Capabilities**
- **Small Launch Systems Capabilities**



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# ***DIVERSIFYING FLORIDA'S AIR SPACE ACTIVITY***



NASA Dryden Flight Research Center Photo Collection

<http://www.dfrc.nasa.gov/Gallery/Photo/index.html>

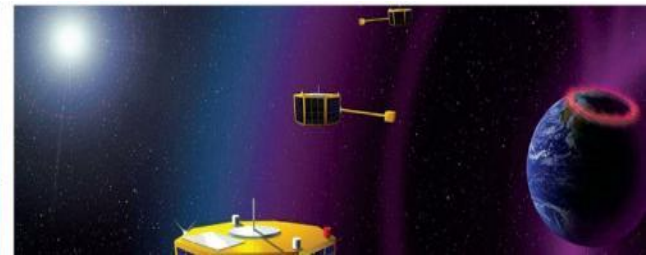
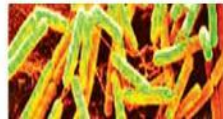
NASA Photo: ED02-0185-01 Date: September 7, 2001 Photo By: Dick Jones - Sandia Labs

Unmanned reconnaissance aircraft, Predator B in flight on lakebed

**UAV/Hybrid Air Manufacturers  
Advanced Aerospace Platforms Applications Center  
FAA Test Range Designation  
Statewide Aviation/UAV/Space Operations Plan**



Satellite Systems and Payloads



# SECURING FLORIDA'S LEADERSHIP ROLE IN ISS

## Florida as a Ground Node for the International Space Station:

- *Space Life Sciences Lab as a Centerpiece*
- *World Class Satellite Processing and Research Clusters*
- *CASIS as Manager of the National Lab*



Ground and Operations Support Systems





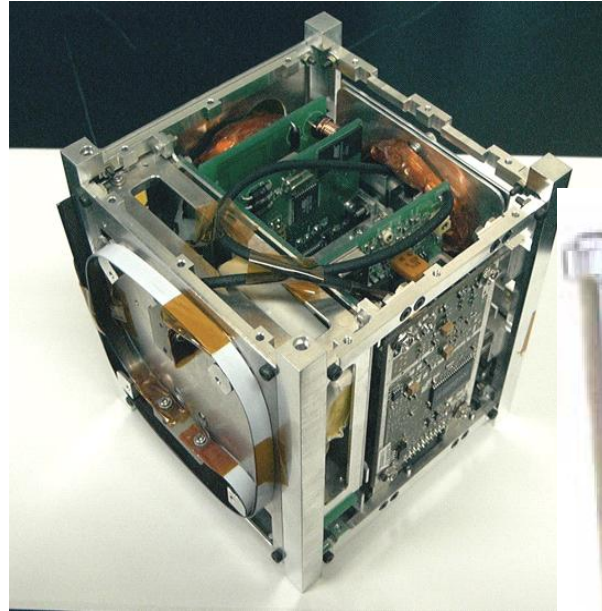
# DEVELOPING NEXT- GEN SPACE INDUSTRY ... SMALL-SATELLITE INDUSTRY CLUSTERS

- *Integrated with Florida's Universities*

- *Active Recruitment of Developers and Manufacturers*

- *Space Simulation & Modeling Center*

- *Technologies in Broad Commercial/Civil/Military Applications Development*



ISS and Human Life Sciences



# ***Enabling Future Technologies***

**Broadband: Silicon Photonics**

**Components: Magnetic Memory**

**Energy: Fuel Cells**

**Entertainment: Social Gaming**

**Health Care: Biosensors**

**Materials: Carbon Nanotubes, Plastic Transistors, OLED Displays**

**Microprocessors: Extreme Ultraviolet Lithography**

**Mobile: Self-Driving Cars**

**Nanocomputers - Nanomedicine**

**Networking: Grid Computing, Microsoft SPOT**

**Recycling: Reverse Engineering**

**Robotics: Cognitive Machines**

**Security: Quantum Cryptography**

**Software: Text Mining**

**Warfare: Electromagnetic-Bombs, Infrared Countermeasures**

**Wireless: Mesh Networks, Radio-Frequency ID Tags**



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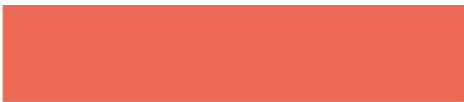
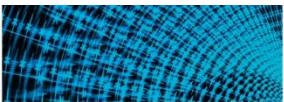
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**Communications,  
Cybersecurity and Robotics**



# *Questions*



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