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# The Space Industry Opportunity for GA

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Bob Scaringe – AVG Communications  
OLI Group

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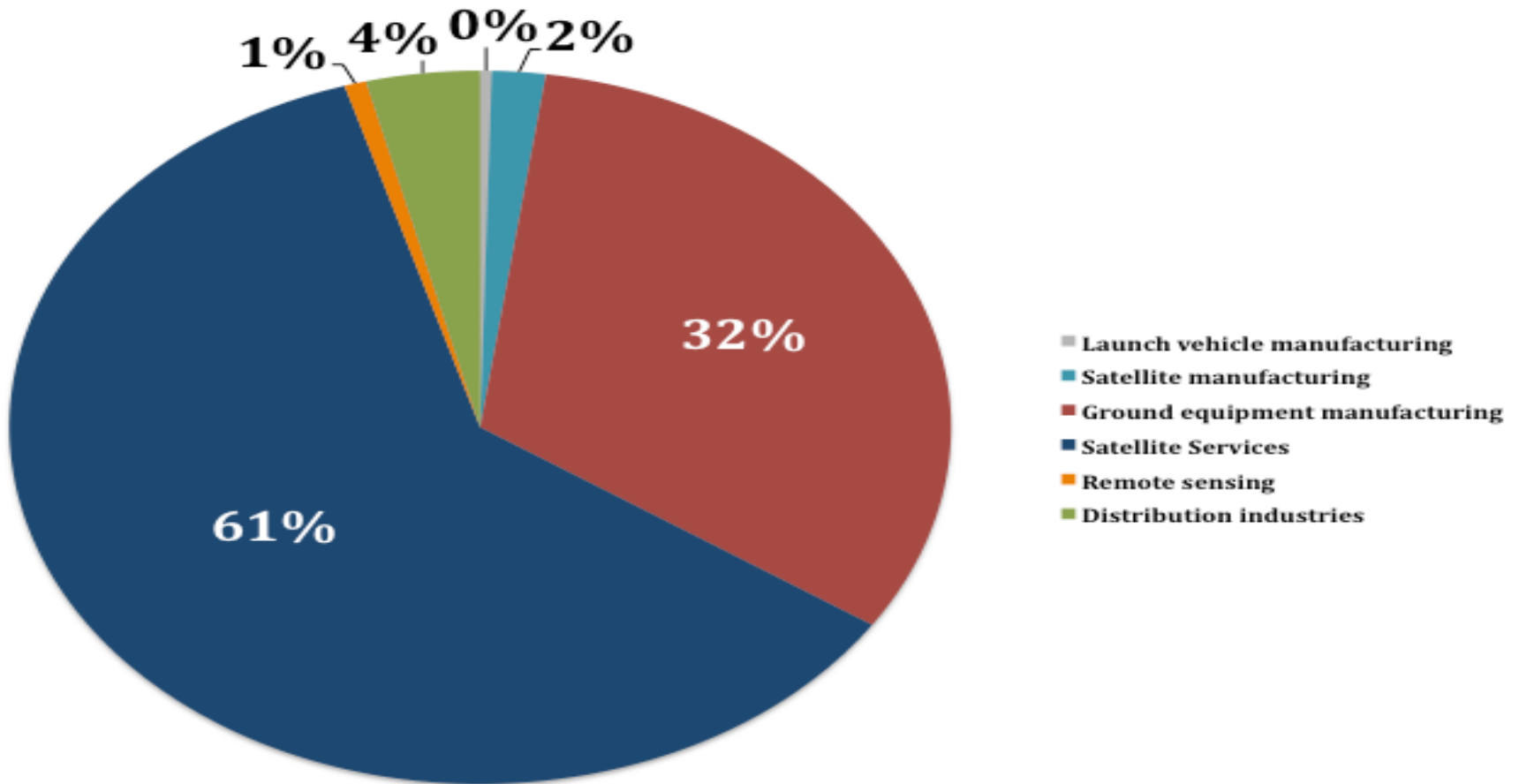
- Space Ind. Market Size
  - “Where’s the Money” in Space Industry
  - How GA Can WIN in the Space Industry
  - Oversight issues
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# The Space Industry Market Size

- Five Product Segments - Sat. Mfg., Launch Veh. Mfg.,  
Ground Eq. Mfg., Sat. Services, & Eng. Services
  - 2014 - Global Mkt.= **\$323-330B, up 9.7%**
    - High Paying STEM Jobs- >\$100K average wage
  - GA. <1/2 of 1% of US, < 1/10 of 1% Global Space Mkt.
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# Distribution of Economic Impact



Distribution of total economic activity impacts resulting from CST&EI, 2009-FAA

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# How we WIN-GA Advantages

- GA has 3 significant advantages:
  - “Location, Location, Location”
    - Spaceport Camden site
      - Southern Latitude
      - Launch to the East over Water
      - Port/barge access - close to FL Launch
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# How GA WINS Against Other States?

- GA Advantages:
    - GA Tech AE's and Eng. = Robust Pipeline
    - RTW state - CA, WA, CO are NOT
    - Camden Spaceport site - "Best on East Coast,"
  - Mkt. Strategy=The cards are stacked in GA's favor...Yes, GA CAN WIN against other states!
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# A Way Forward for GA

Serious Market Opportunity = A serious effort that matches the size of the opportunity:

- Every 1% of additional Mkt. share is: (\$3B+) of incremental GA Space Ind. Revenue/yr. and 2,300 direct employees...every +1%
  - Times 2-3 FAA multiplier for economic impact
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# A Way Forward for GA

## Public/Private Partnerships to Develop Space Ind. Market in GA.

- Target Private sector Beneficiaries-
    - ❑ Travel & Entertainment
    - ❑ Logistics & Transportation,
    - ❑ Utilities,
    - ❑ Developers
    - ❑ Venture Capital
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# A Way Forward for GA

## How to Develop The Space Ind. In GA.

- Target Anchor Space Industry companies to GA.  
(Launch, Payload, Subsystem)
  - Leverage Logistics Location advantage in GA
  - Visit Tier I and II Space Co. -NOW to ID  
current/future facility plans
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# Oversight Issues

- Please Review Business Dev. Roles
    - “We answer the door when customers knock?”
    - Should we proactively Target key industry players? Other states do!
    - Business Development Inside/outside?
    - Support Budgets for Camden Spaceport?  
Ad, PR, Trade Shows, Social Media
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# Backup Slides

- Additional Information



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# The Timing is Right!

- NASA handoff to private sector - LEO Launch
  - Emerging Space Tourism and Small Sat's
  - Cost Competitive industry = enhances value of lowering Transportation costs
  - Space X (+others) seriously interested in CC site
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# Licensed and Proposed Spaceports

## U.S. Spaceports

Commercial and Government Active and Proposed Launch Sites

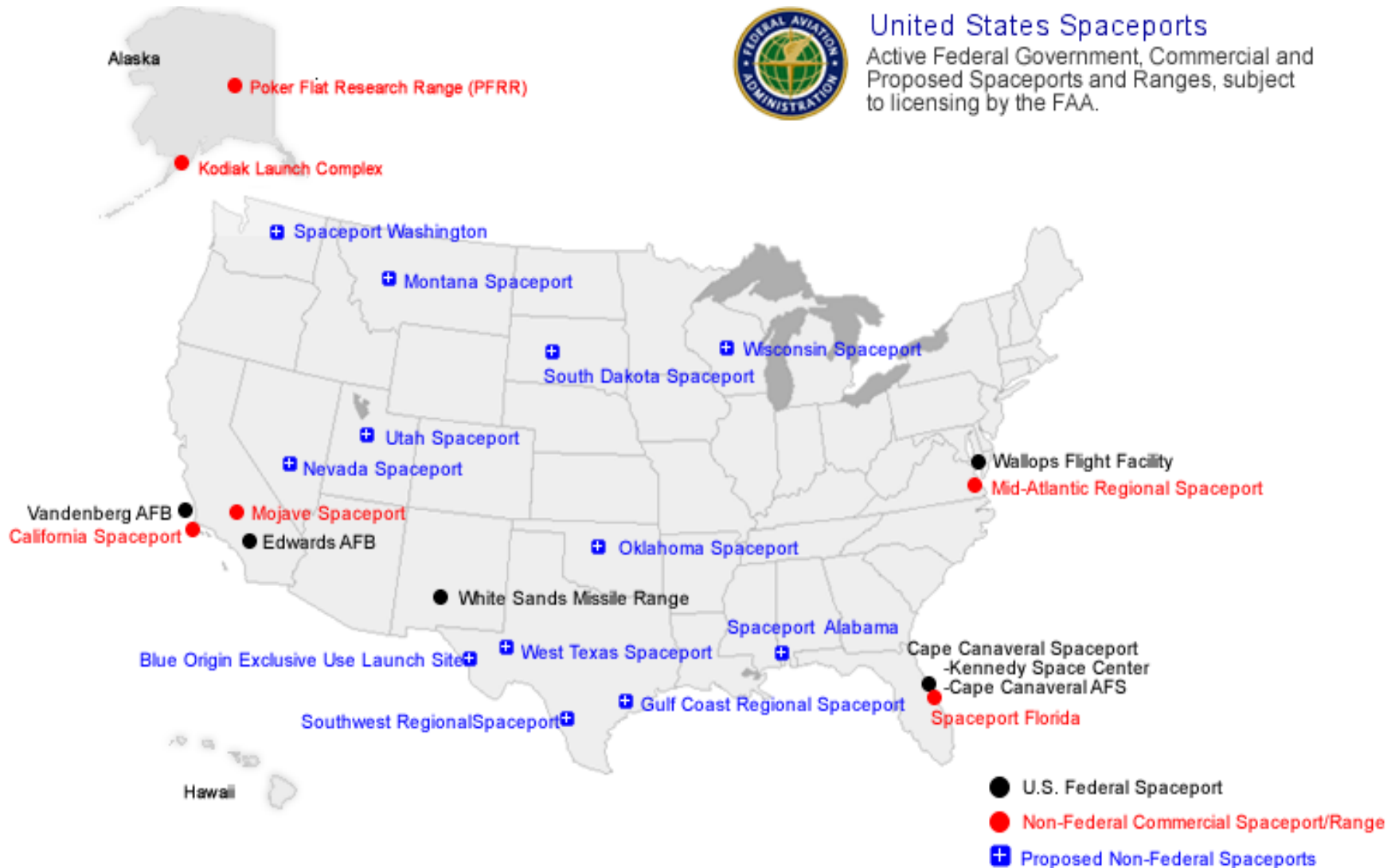


# US Proposed (Blue) Spaceports



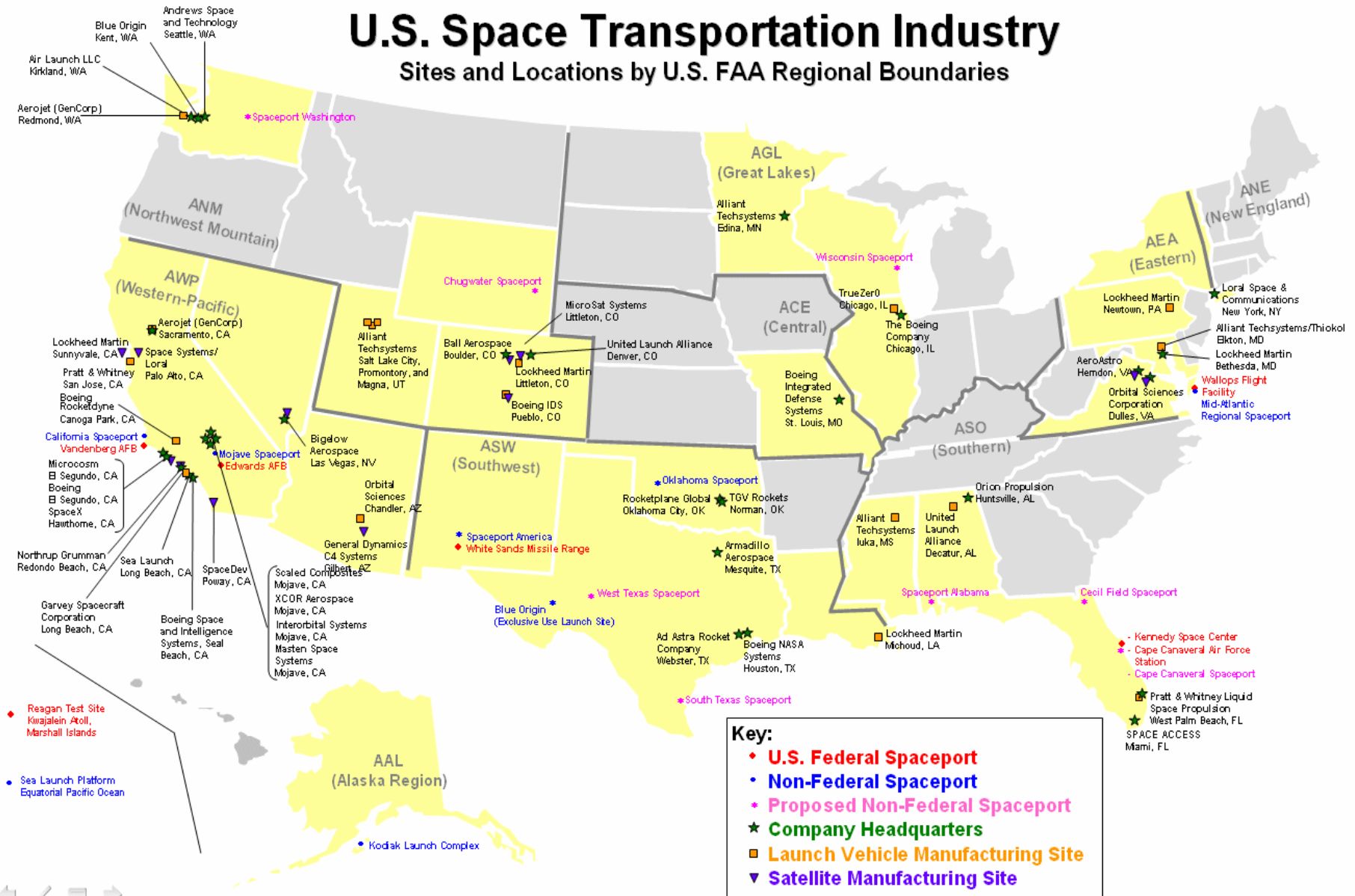
## United States Spaceports

Active Federal Government, Commercial and Proposed Spaceports and Ranges, subject to licensing by the FAA.



# Space Industry Employers

## U.S. Space Transportation Industry Sites and Locations by U.S. FAA Regional Boundaries



# Enabling Technologies Time Line (FAA)

**Transformation Era**

**Responsive Space Launch and Human Exploration Era**

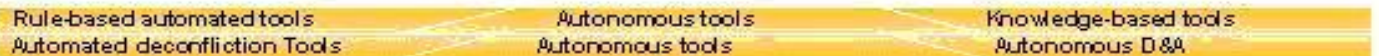
## Self-Healing Systems



## Network & Data Handling



## Integrated Software Planning & Scheduling



## Modeling & Simulation



## Weather Measurement & Forecasting

