
SBA Innovation Clusters

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What is a cluster?

- Geographic concentrations of interconnected companies, specialized suppliers, service providers and associated institutions in an industry
- Clusters usually have a central cluster “conciierge” or administrator that manages the cluster and fosters linkages and participation

- Small Businesses
- Colleges
- Entrepreneurs
- Lenders
- Non-profits
- Government Agencies
- Procurement Assistance
- Consultants

- Large Contractors
- Universities
- Investors
- Trade Associations
- Business Assistance
- Other Clusters
- For Profits
- Community Leadership

Cluster Concept



Spur Innovation

**Create New
Businesses**

**Create and Retain
Jobs**

**Increase Revenue
and Profits**

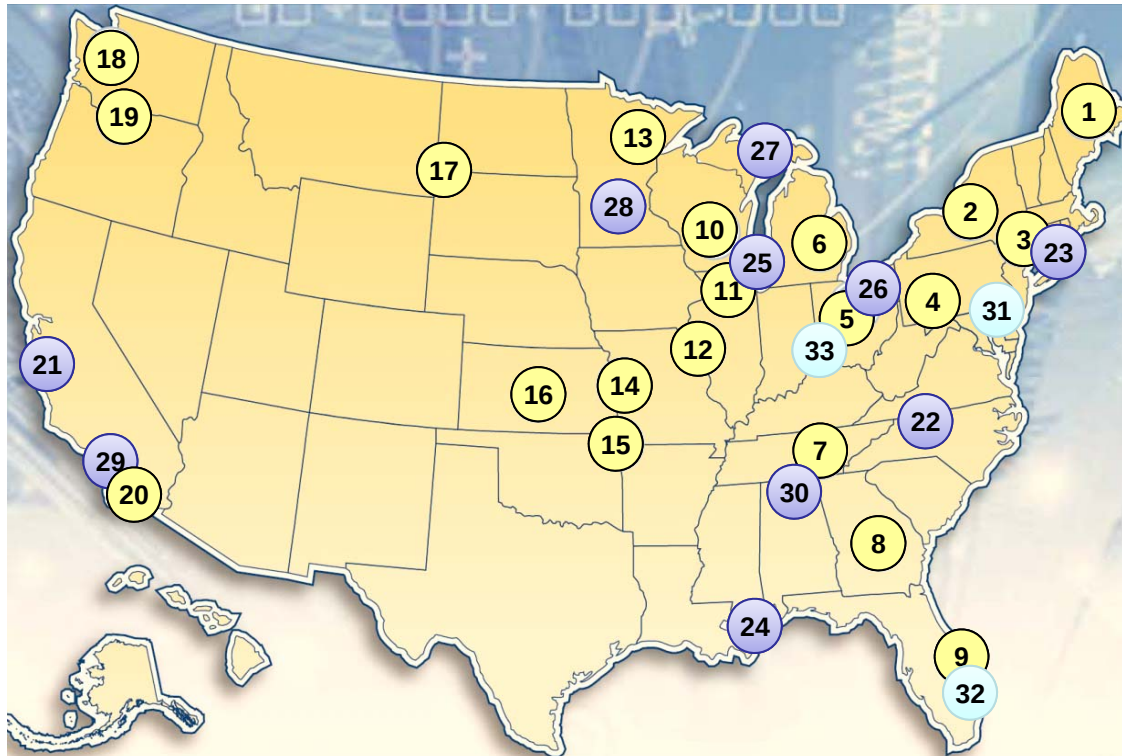


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SBA - Pilot Clusters

- 21 CA - Agriculture Innovation Cluster – Project 17 Ag Tech *Agriculture Innovation*
- 22 NC - Carolinas' Nuclear Cluster *Nuclear energy technology and components*
- 23 CN - Northeast Electrochemical Energy Storage *Fuel cell and hydrogen fueling systems*
- 24 MS - Enterprise for Innovative Geospatial Solutions *Geospatial technology*
- 25 IL - Illinois Smart Grid Regional Innovation Cluster *Smart grid / efficient energy*
- 26 OH - NorTech Flexmatters *Flexible electronics*
- 27 MI - Upper Michigan Green Aviation Coalition *Green aviation*
- 28 MN- Defense Alliance of Minnesota *Advanced power and energy (DoD Focused)*
- 29 CA- San Diego Advanced Defense Cluster *Autonomous systems and cyber security (DoD Focused)*
- 30 AL - Huntsville Advanced Defense Technology Initiative *Aero-space technology (DoD Focused)*

Pilot Collaboration Clusters

Small Business Administration
together with...

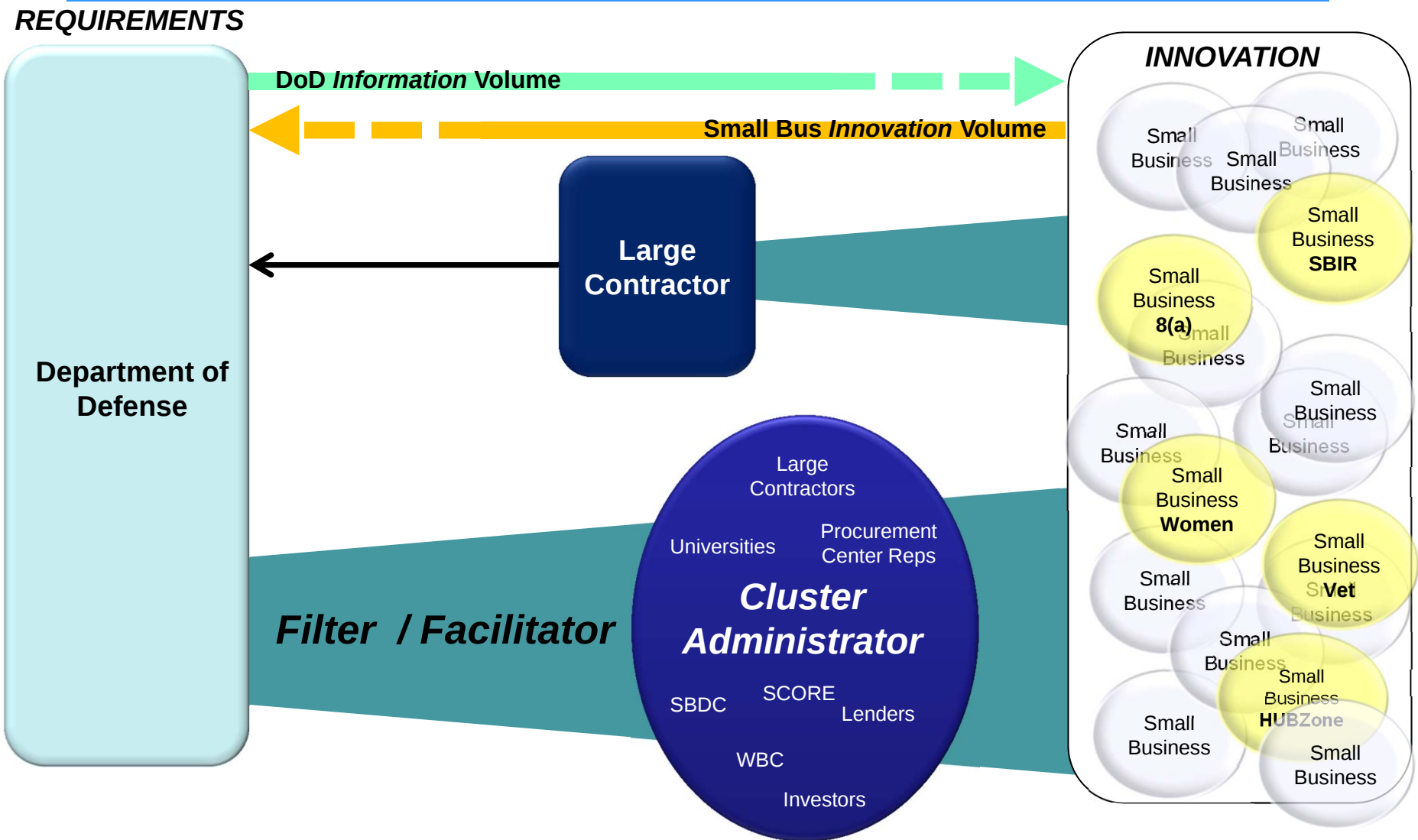
- 31 PA - Greater Philadelphia *Innovation Energy-Efficient Buildings (EDA, NIST, DOE,)*
- 32 FL - Space Coast *Space Shuttle Shutdown Transition (EDA, NASA, DOL)*
- 33 OH - South West Ohio Water Cluster *Water Research (EPA)*

Jobs Accelerator - Federal Collaboration Clusters

Economic Development Agency
Employment and Training Agency
Small Business Administration

- 1 ME - GreenME Renewable Energy Industry Cluster
- 2 NY - Finger Lakes Food Processing Cluster Initiative *Food Processing Cluster*
- 3 NY - New York Renewable Energy Cluster *Renewable Energy*
- 4 PA - Southwestern Pennsylvania Revitalization *Energy; Health Care*
- 5 OH - Northeast Ohio Speed-To-Market Accelerator *Energy; Flexible Electronics*
- 6 MI - Southeast Michigan Advanced Energy Storage Systems Initiative *Advanced Energy Storage Systems*
- 7 TN - Advanced Composites Employment Accelerator *Advanced Composites with Focus on Low-Cost Carbon Fiber Technology*
- 8 GA - Atlanta Health Information Technology Cluster *Health Information Technology*
- 9 FL - Space Coast Clean Energy Jobs Accelerator *Clean Energy*
- 10 WI - Milwaukee Regional Water Accelerator Project *Water*
- 11 IL - Rockford Area Aerospace Cluster Jobs and Innovation Accelerator *Aerospace*
- 12 MO - St. Louis Bioscience Jobs and Innovation Accelerator Project *Bioscience*
- 13 MN - Minnesota's Mining Cluster – The Next Generation of Innovation and Diversification to Grow America *Energy*
- 14 MO – Kansas City Regional Jobs Accelerator *Advanced Manufacturing and Information Technology*
- 15 AR - Launching the ARK: Acceleration, Resources, Knowledge *Information Technology*
- 16 KS - Center for Innovation and Enterprise Engagement *Advanced materials*
- 17 ND - Upper Missouri Tribal Environmental Risk Mitigation Project *Environmental Risk Mitigation*
- 18 WA - Washington Interactive Media Accelerator - *Interactive Media*
- 19 OR - Portland Regional Clean Tech Advance Initiative *Clean Tech*
- 20 CA - San Diego-Imperial Valley Renewable Energy Generation Training and Demonstration Center *Renewable Energy*

Clusters Connect Innovation to DOD Requirements



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ADT Cluster JCTD Initiative

Proposed – Energy Validation Lab (EVal)

- EVal will identify and evaluate energy systems and technologies, TRL 6-7 or higher, that can be rapidly applied to war fighter requirements.
- JCTD capitalizes on national R&T investment
- Combines Open Innovation Network with RFIs
- EVal is a “process” to assess/access “products”
- Desired Outcomes: reduce fully-burdened cost of fuel, enhance force capability, provide more fight, use less power



Small Business Energy Assistance

- **Energy Assistance for Small Businesses:**
 - Funded \$2.5M in grants to the Small Business Development Centers for helping businesses that develop and commercialize clean energy technology
- **Helping Manufacturers and Businesses adopt Green Practices** with DoC, DoE, DoL, and EPA
 - E3 (Economy / Energy / Environment) Pilot Program
- **Greater Philadelphia Innovation Cluster (GPIC) for Energy-Efficient Buildings** with DoE / DoC EDA
 - Small Business Commercialization Acceleration Program (CAP)



Small Business Energy Assistance

- Mentoring for High-Growth Potential Energy Companies
 - [Entrepreneurial Mentor Corps](#)
- Small Business Guide to Energy Retrofit Opportunities: with CEG, DOE, EPA, and DoL
 - [Green Business Opportunities](#)
- One-Stop Destination for Green Business Opportunities:
 - green.sba.gov



Small Business Energy Assistance

- SBA's Flexible Loan Programs serve energy businesses
 - Since 2010 : 173 Loans totaling \$357M
- Investments in Clean Energy Businesses
 - [Impact Investment Initiative](#)
 - [Startup America](#)



SBA Cluster Information

- Website addresses for ADT Clusters:
 - www.powerfordefense.com Minnesota Power & Energy
 - www.vcsi.org (Von Braun Center for Science & Innovation – Huntsville, AL) Click on ADT link on bottom of VCSI homepage for specific ADT info.
 - www.ccatsandiego.org (San Diego State University Research Foundation) - - - also interesting SDADT video at:
http://www.ccatsandiego.org/CWID2011_SDADT.aspx

SBA Cluster Information

- Additional Cluster information

www.sba.gov/clusters

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