



**Division of
Science, Technology
& Innovation**

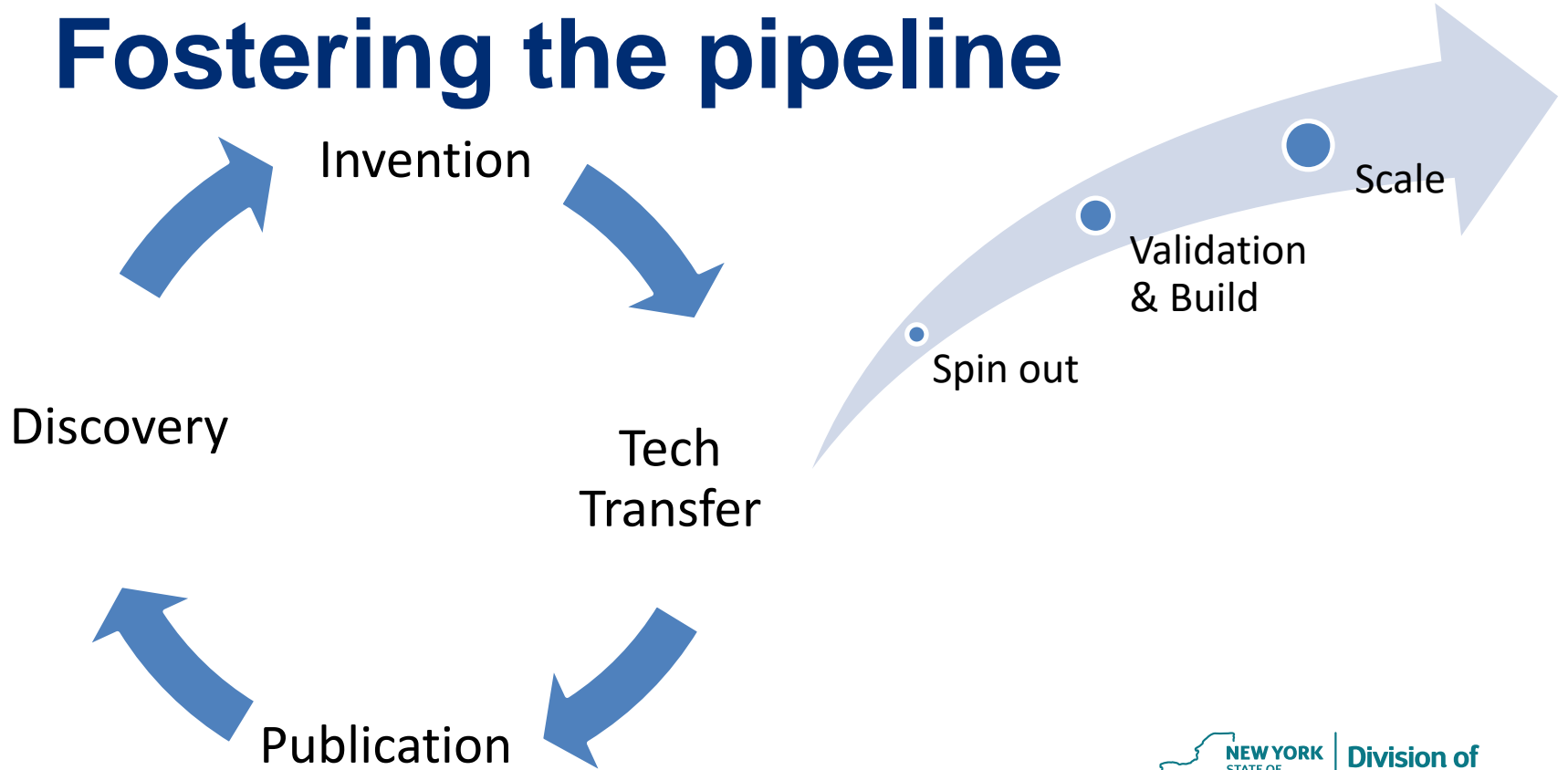
NY Innovation Ecosystem

Emily Ekland: EmilyEkland@esd.ny.gov

A Division of Empire State Development

8/13/2020

Fostering the pipeline



Fostering the pipeline



10 Regional Councils



ESD Overview

Promoting a growing and vigorous state economy.

Division of Small Business & Technology Commercialization

- Innovation and technology assistance (NYSTAR)
- Small business/entrepreneur assistance programs
- Funding and incentives

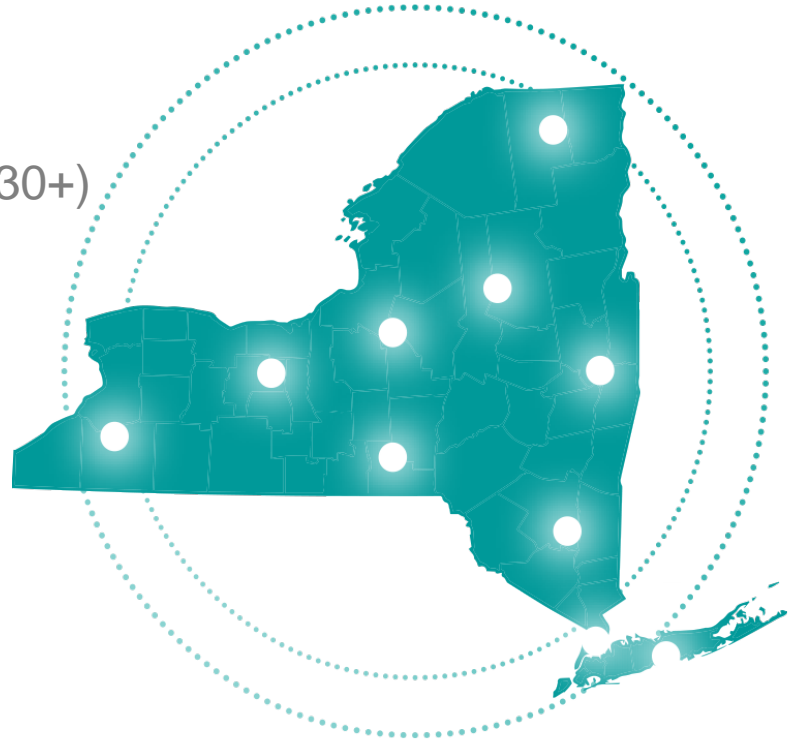


NYSTAR

Offering resources designed to enable new and existing business to become more competitive through the use of innovative technologies.

NYSTAR Programs

- Innovation Hot Spots & Certified Incubators (30+)
- Centers for Advanced Technology (15)
- Centers of Excellence (14)
- Manufacturing Extension Partnership (11)
- Digital Game Development Centers (3)
- Science + Tech Law Center
- Matching Grants (for large federal awards)
- Faculty Development
- SBIR Assistance
- Manufacturing USA Institutes

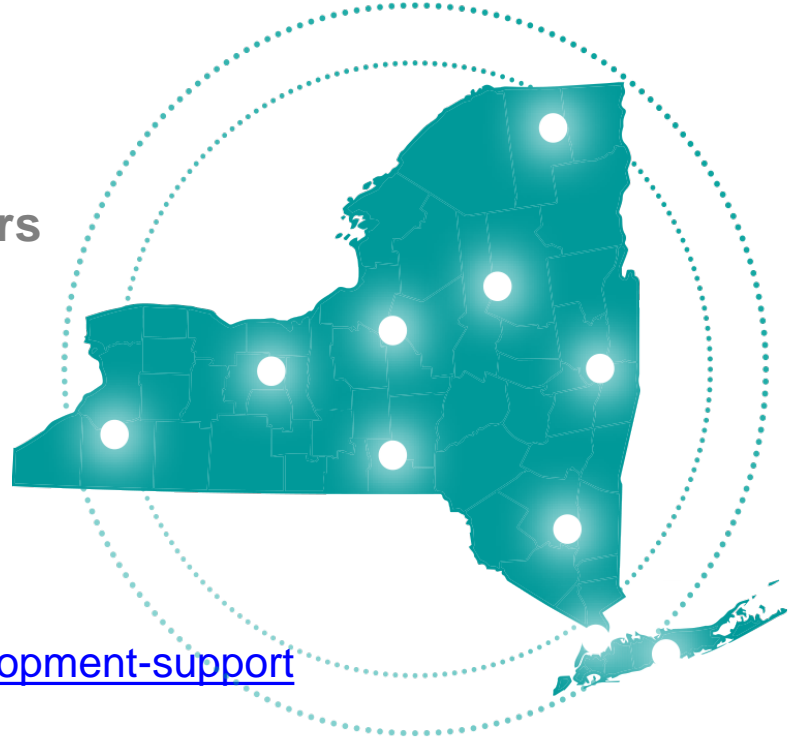


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NYSTAR Programs

- Innovation Hot Spots & Certified Incubators
- Science + Tech Law Center
- Centers of Excellence
- Centers for Advanced Technology
- Manufacturing Extension Partnership

<https://esd.ny.gov/doing-business-ny/innovation-development-support>



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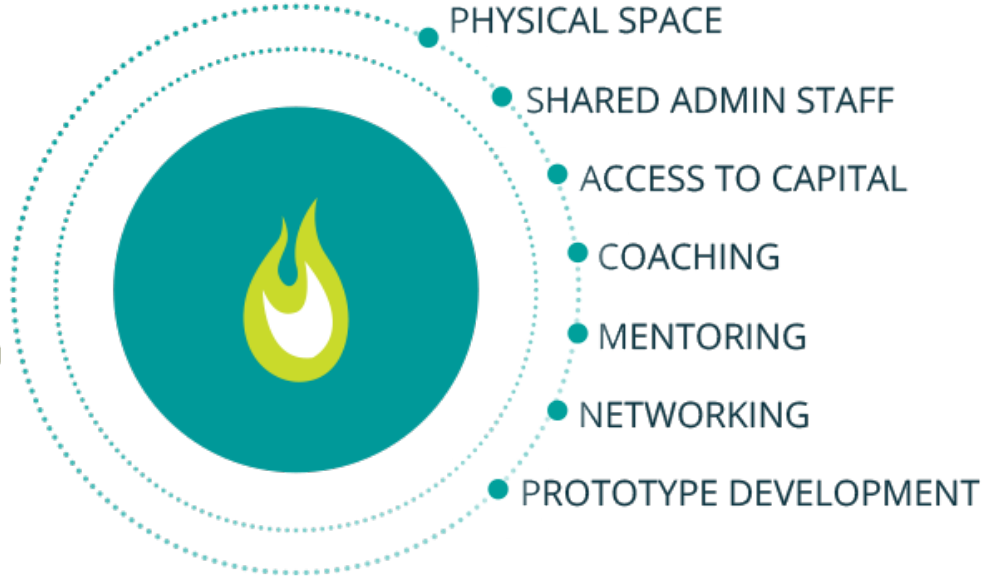
Incubators and Hot Spots

10

INNOVATION
HOT SPOTS

20+

CERTIFIED
BUSINESS
INCUBATORS



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Science and Technology Law Center

- Law clinic
 - Landscape Analysis
 - IP strategy
 - Commercialization pathway
 - Regulatory impacts

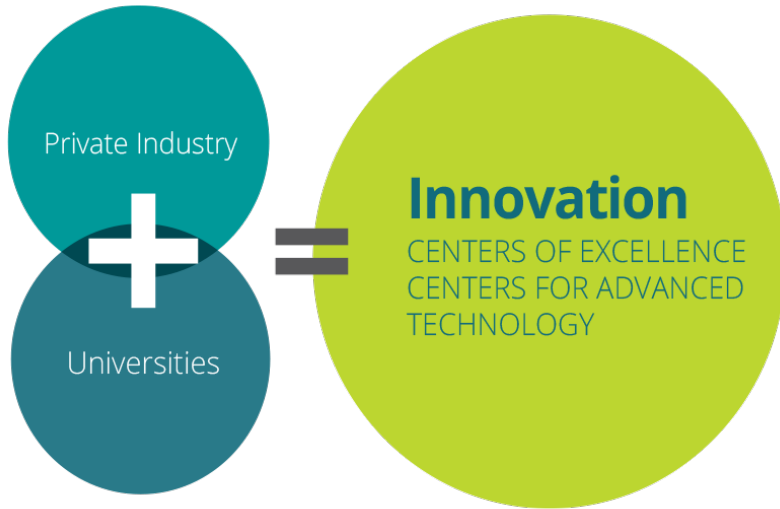
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COEs and CATs

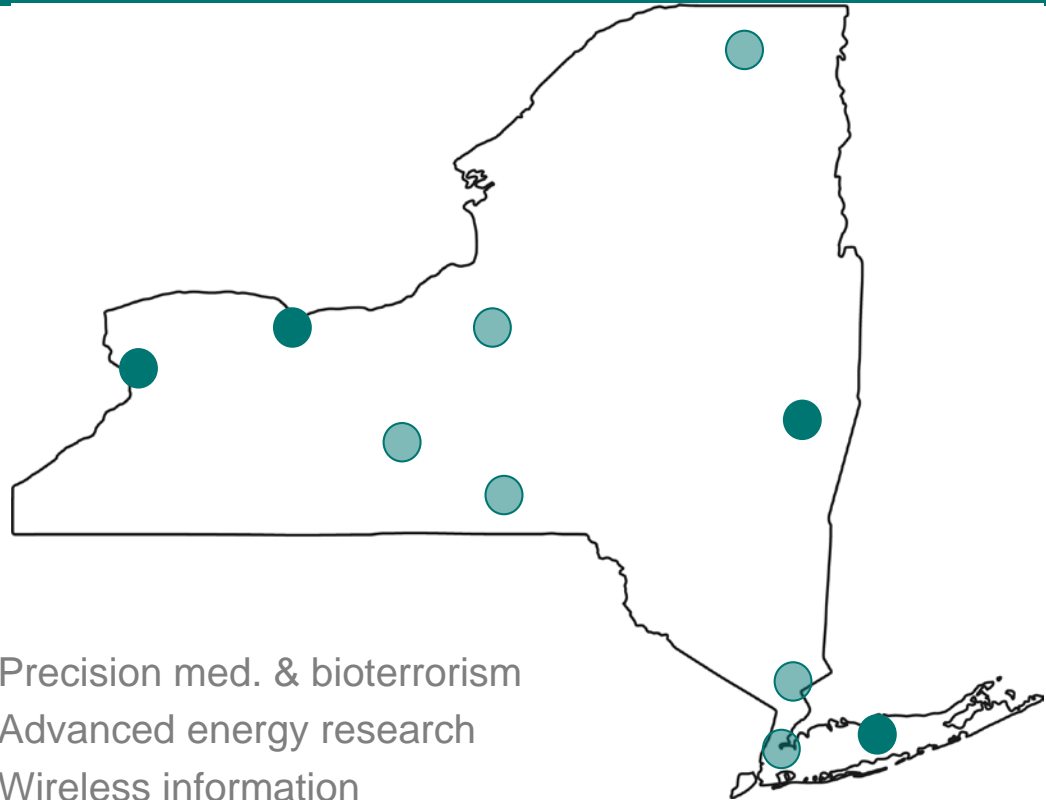


- Forum for industry/academic collaboration
 - Providing tailored solutions for industry needs

CENTERS *of* EXCELLENCE

Bridging Innovation & Academia

- Bioinformatics/life sciences
- Material informatics
- Advanced/sustainable manufacturing
- Data science
- Food and agriculture
- Small scale systems integration & packaging
- Environ./energy systems
- Healthy water
- Nanoelectronics/technology
- Atmospheric/environ. prediction
- Precision med. & bioterrorism
- Advanced energy research
- Wireless information
- Digital game development

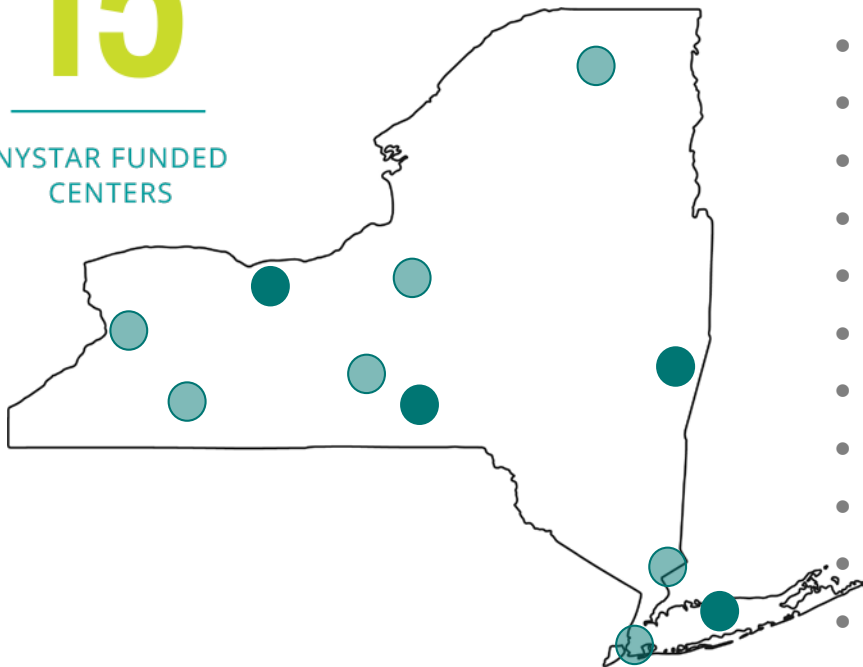


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CENTERS for ADVANCED TECHNOLOGY

NYSTAR FUNDED
CENTERS



- Advanced tech in big data & health sciences
- Advanced ceramic materials science
- Advanced materials processing
- Life science and enterprise
- Future energy systems
- Telecommunications & distributed info systems
- Flexible hybrid medical devices
- Integrated electric energy systems
- Integrated electronics engineering
- Advanced systems & engineering
- Nanomaterials and nanoelectronics
- Emerging and innovative sciences
- Additive manufacturing and 3D printing
- Sensors for environments
- Biotechnology



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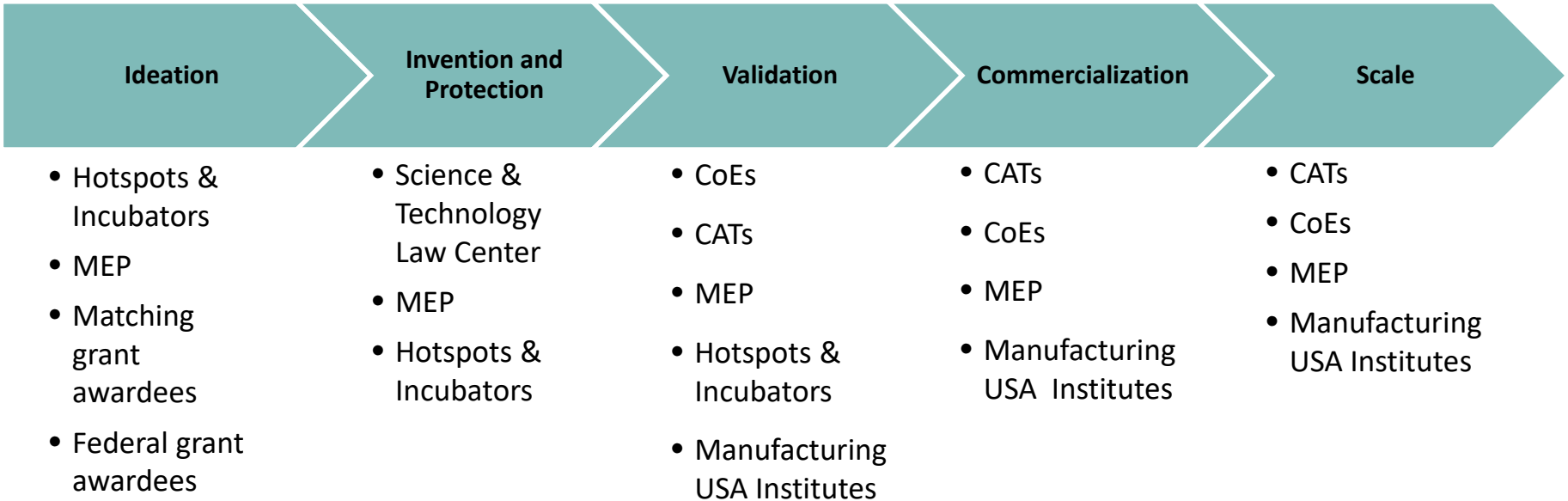
Manufacturing Extension Partnership

- Process improvement
- Scale up
- Quality control
- Workforce development
- Product validation
- New markets
- Sustainable manufacturing
- Supply chain
- Cybersecurity



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NYSTAR Assets, Programs and Partners Throughout Product Lifecycle





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Entrepreneur Support

Entrepreneurial Development

Business Mentor NY

- Meet with a volunteer mentor virtually (web or phone) or in person.

Entrepreneurship Assistance Centers

- Training, technical assistance and support services to individuals who recently started their own business or are interested in starting a business, including help on MWBE certification application.

Procurement Assistance

- Assist small businesses with identifying contracting opportunities with state government agencies and finding resources to compete.



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Financial Support

Access to Capital

Traditional Financing

- Loans
 - \$500 - \$2M
- Guarantees

Venture Capital

- Traditional investment
- Match funding

New York Ventures Program

	Direct Investment Fund	Fund of Funds		
	NYS Innovation Venture Capital Fund (NYSIVCF)	Technology Commercialization	Innovate NY	MWBE
Investment Stage	Seed & Early-Stage	Pre-Seed	Seed	Seed
Investment Size	\$500K - \$5M	Up to \$100K	\$500K - \$750K	\$500K - \$750K
Matching Funds Ratio (on portfolio basis)	2:1	1:1	2:1	2:1
Fund Size	\$100M	\$8M	\$45.9M	\$2M
Currently Deploying \$	Yes	Yes	No	No
Launch Date	2014	2016	2012	2016

Contact Info

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