

Solve Production Issues Through Partnerships



NIST | MEP

Center for Advanced Technology Solutions (CATS) February 24, 2025

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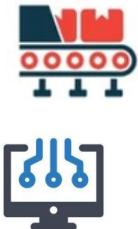
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New York

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Rhode Island

CATS Mission

Offer actionable understanding of diverse technologies to deliver the fastest, effective solutions to their challenges.



Project Highlight #3

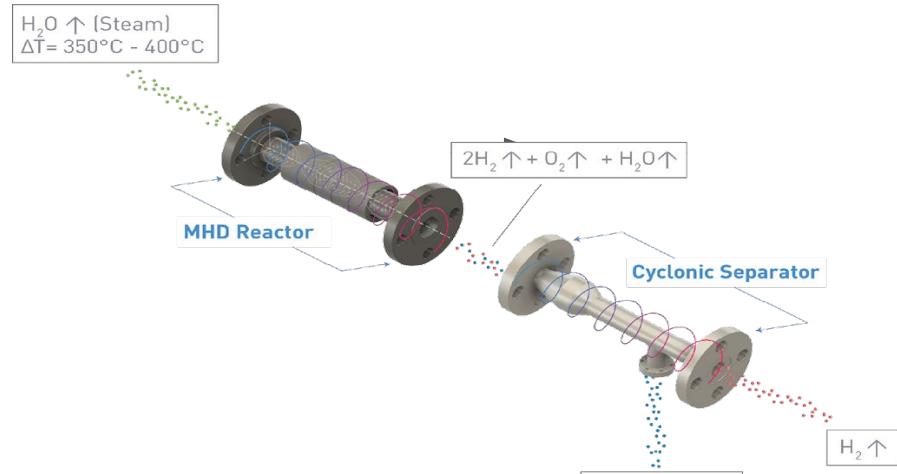
Source: TN MEP Field Staff

Manufacturer: One Scientific, manufacturer of hydrogen generation equipment.

Project: Source of High Quality Steam

Resource: RAPID Institute

Vehicle: Business Partnership



ONE
SCIENTIFIC



RAPID



GENEDGE
alliance

Project Highlight #1

Source: Bob Beckman, MO MEP Advanced Tech Team Champion

Manufacturer: Talema, Missouri, maker of advanced acoustical transformers

Project: Pursuit of world's first UL Listed electrically insulative additive material

Resource: Oak Ridge National Laboratory

Vehicle: Funded by ORNL Industry Collaboration Program



Differentiators



Working Working Group

- A working group that solves real problems, together
- Identify hidden opportunities



Broad Tech Awareness

- Participate in tech deployments to become the application experts
- Support institute activities
- Federal Labs expert



Rolodex of Resources

- Expertise
- Capabilities
- Technologies



Penchant for ACTION

- Respond quickly
- Follow up

MEP Advanced Technology Team

Approach: We help manufacturers confront and solve their most daunting challenges.

25 Champions

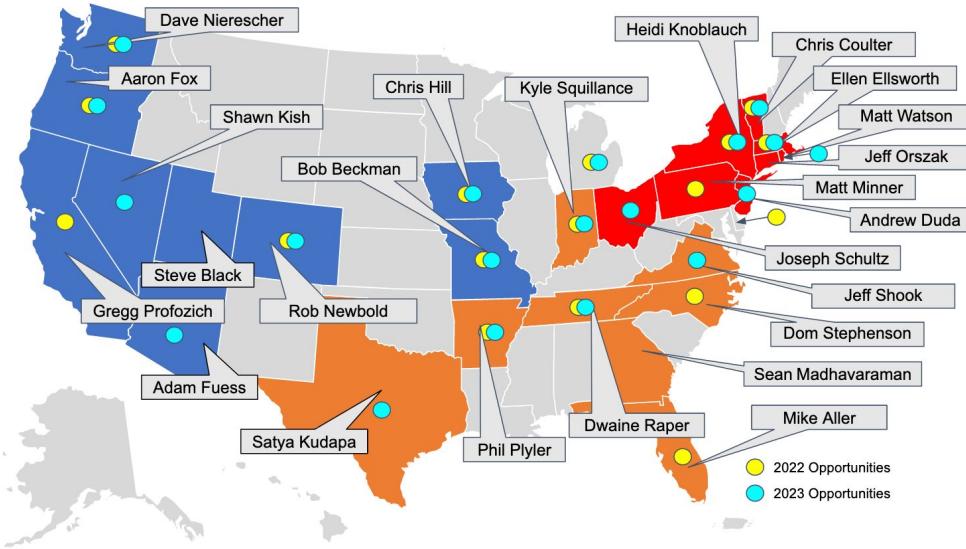
Over 1/2 surveyable

Over 2/3s Successful

Projects in 23 States

150+ Projects

Millions of Impact



Half of projects outside 3 funded states.

Technology Sources and Partners

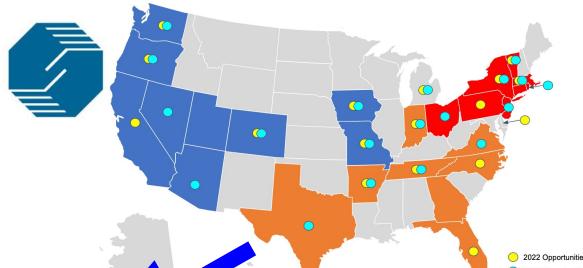
18 Manf. Institutes



Hundreds of Labs

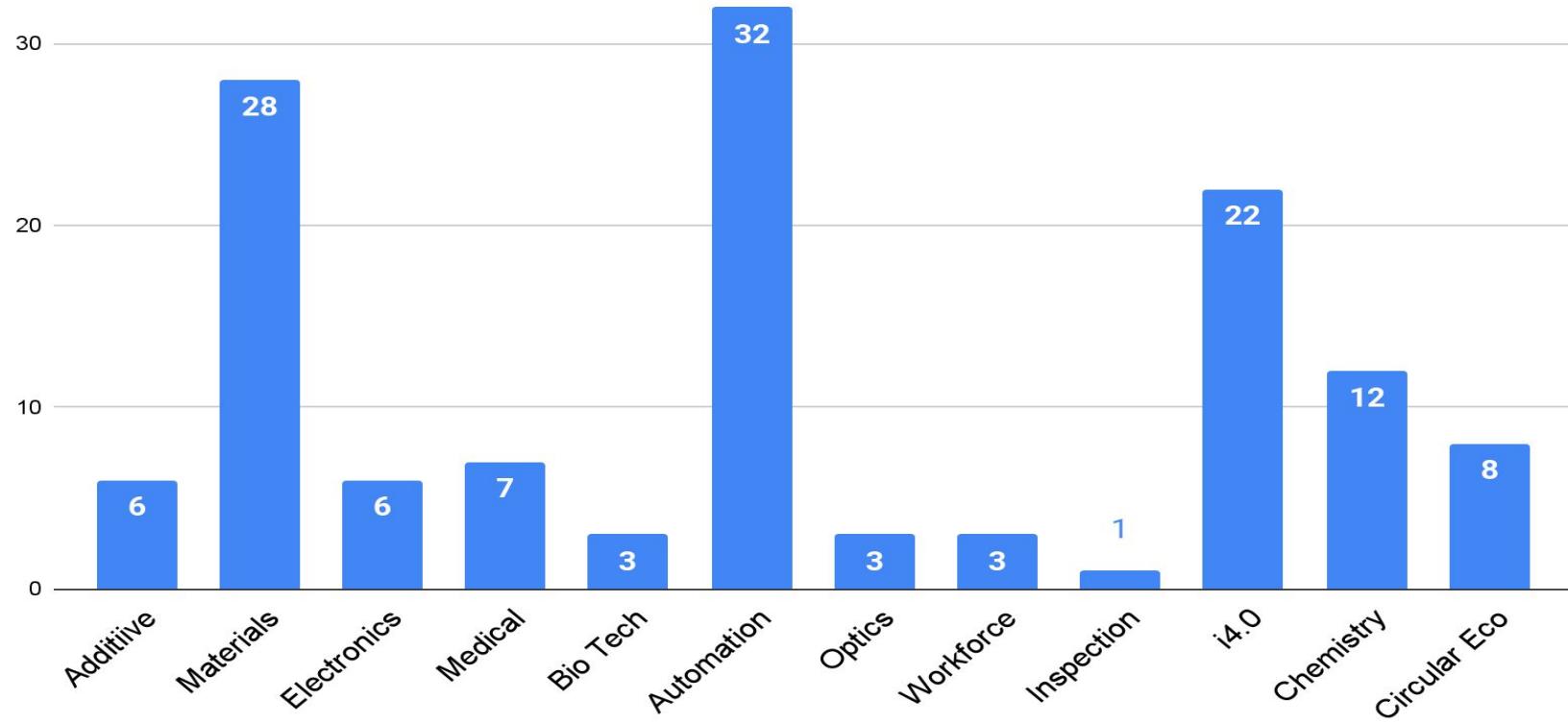


25 MEP Champions



Private Sector Vendors	Associations, Competitors, and Peers
3D Printing Store	HawkRidge
Union Tech	
Stratasys	
Magnum Venus Products	1 imitech
	2
TN MEP	3
OH MEP	4
NY MEP	U Texas
	America Makes
	LARC-SI (soluble imide)
	ORNL
	RIT AM Print
	NASA
	Academia / ManfUSA
MEP and McKenzie Protocol	

Number of Projects by Category



When to call

- 1) Access to specialized resource
- 2) Developing new products, prototyping and commercialization
- 3) Supply Chain
 - a) Changing the process or material
 - b) Bringing Tech in house (self or sub)
 - c) Struggling with resource options

Profile of a CATS Client



Six Sigma Black Belt

- Wants to figure things out
- Toyota Kata
- Six Sigma Black Belts

Executive Leader

- Sees the need for transformational change
- Addressing workforce

Engineer/Tinkerer

- New Product Development
- Machine Builders
- I4.0 Leads

Sales

- Wants new markets
- Has new client requirements

Manufacturing Gurus

Thank You...Questions?

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