



# ESGC Summit

Bellevue, WA  
8/7/2024

## Progress and the Path Ahead: Storage Shots and Other Goals

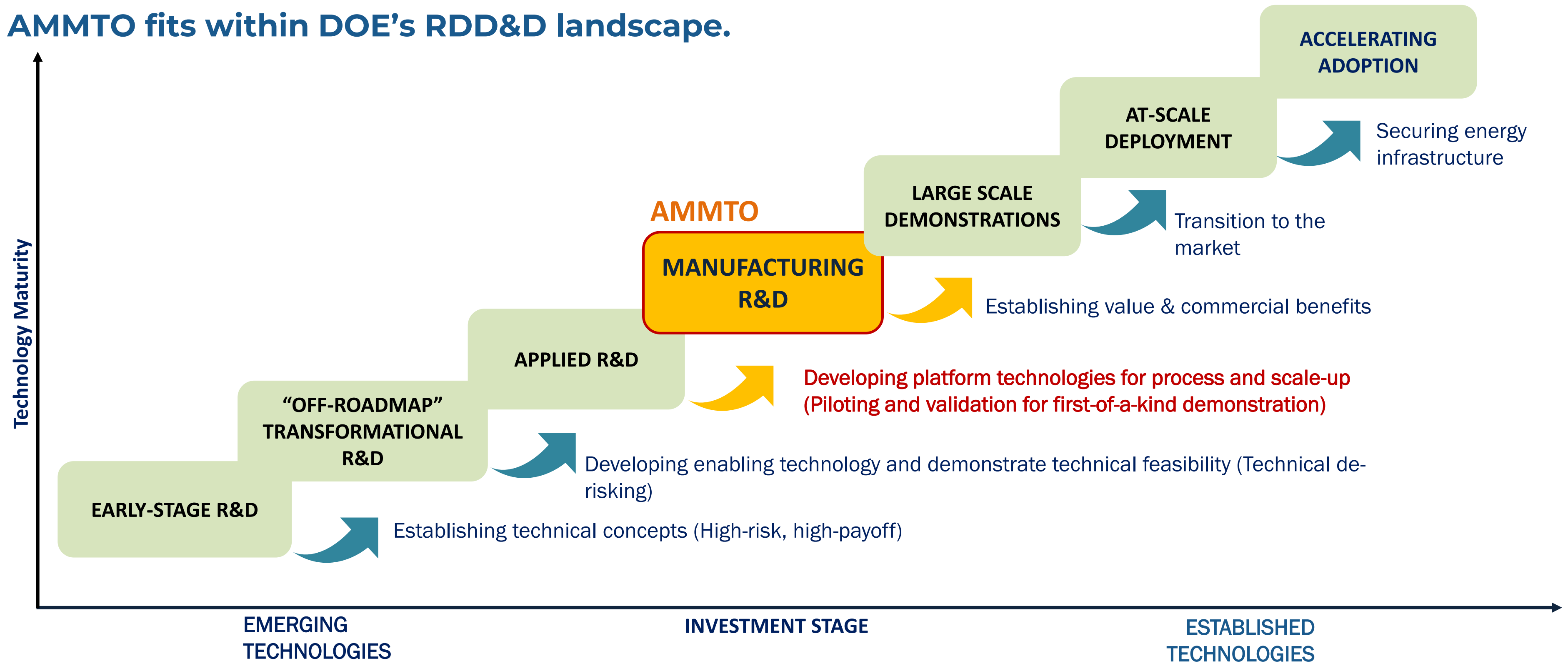
Advanced Materials and  
Manufacturing Technologies  
Office (AMMTO)

Changwon Suh



# AMMTO Position in DOE's Energy Storage RDD&D Landscape

AMMTO fits within DOE's RDD&D landscape.



# AMMTO's Focus: Energy Storage Manufacturing

We help collaborators innovate in parallel to accelerate the development and adoption of transformative manufacturing technologies for energy storage.

We continue to identify manufacturing platform technologies,\* enabling improved performance, manufacturability, and scalability of energy storage.

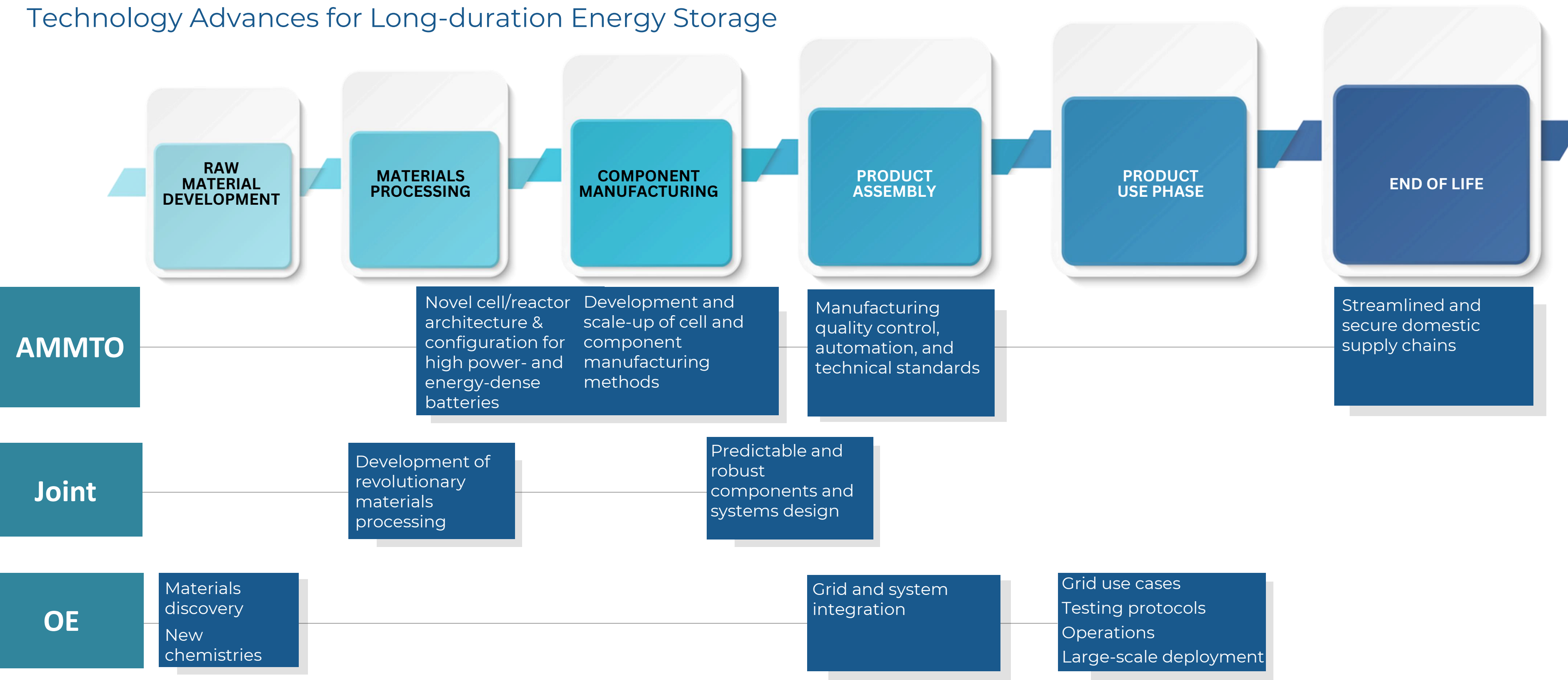
We support strengthening of the domestic manufacturing workforce to support battery manufacturing.

*\* Manufacturing platform technologies are techniques, tools, and equipment, that can be leveraged across a spectrum of manufacturing applications.*

# Example: Collaboration for Flow Battery Technology

## Key Collaborative Actions Towards Flow Battery

Technology Advances for Long-duration Energy Storage



# AMMTO's Recent Announcements

Advanced Materials & Manufacturing Technologies Office

**\$33 Million in Funding Available To Advance Smart Manufacturing Technologies To Help Accelerate a Clean Energy Economy**

JULY 18, 2024

**FY 2024 Data, Analysis, and Modeling Tools Lab Call**

Advanced Materials & Manufacturing Technologies Office

**DOE Announces Funding Opportunity to Advance Domestic Manufacturing of Next Generation Batteries**

JANUARY 29, 2024

Advanced Materials & Manufacturing Technologies Office

**DOE Announces Funding Opportunity for Critical Materials Accelerator Projects to Advance Critical Materials Supply Chains Solutions**

NOVEMBER 27, 2023

Office of Energy Efficiency & Renewable Energy

**DOE Launches Critical Materials Collaborative to Harness and Unify Critical Materials Research Across America's Innovation Ecosystem**

Advanced Materials & Manufacturing Technologies Office

**Department of Energy Announces \$2 Million to Enhance Domestic Advancements in Lithium-Ion Battery Recycling and Remanufacturing**

Advanced Materials & Manufacturing Technologies Office

**Department of Energy Announces \$16 Million to Boost Domestic Capabilities in Solid-State and Flow Battery Manufacturing**

Office of Energy Efficiency & Renewable Energy

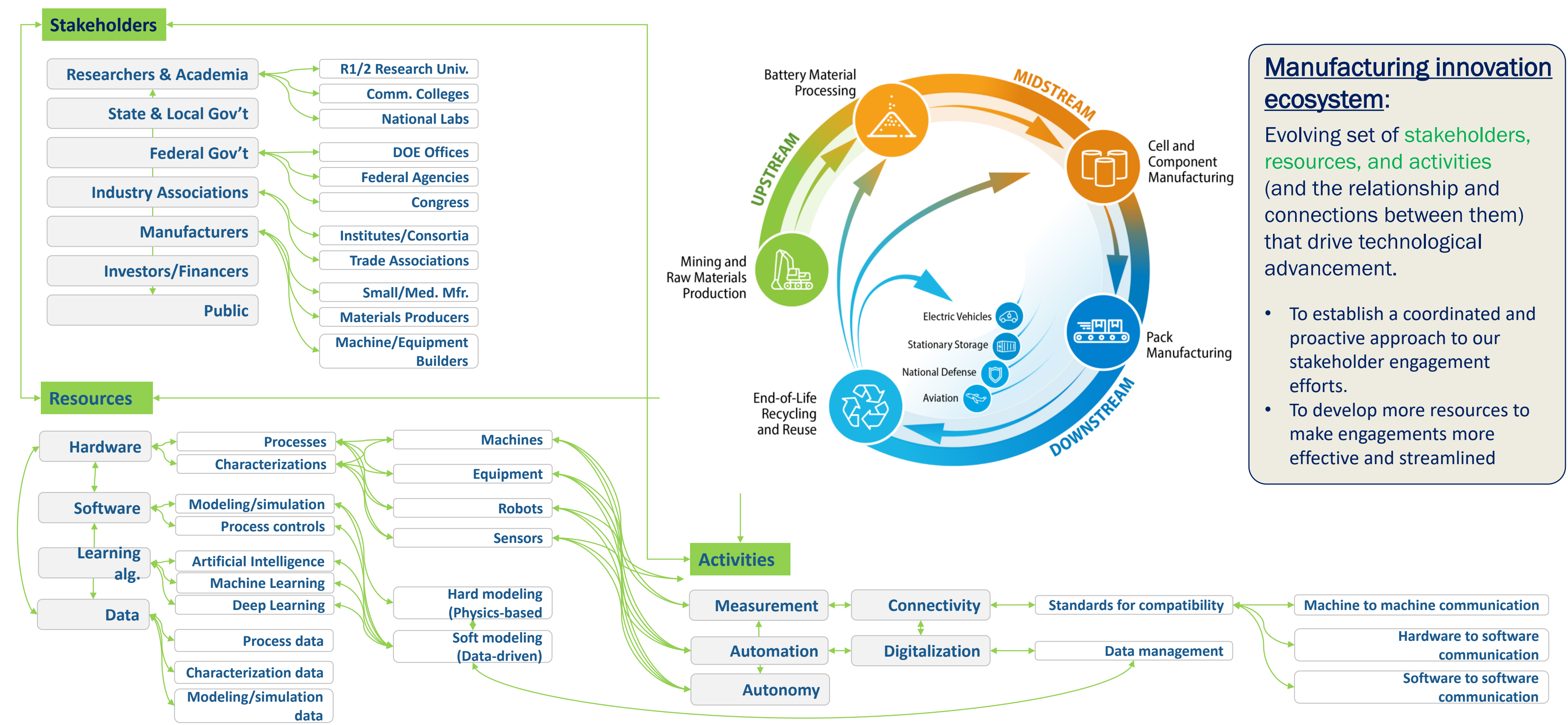
**U.S. Department of Energy Invests \$61 Million to Fund 31 Applied Research, Development and Demonstration Projects to Advance Clean Manufacturing**

SEPTEMBER 7, 2023

For more information, visit AMMTO website:  
<https://www.energy.gov/eere/ammto/advanced-materials-manufacturing-technologies-office>



# Impact of AMMTO: Building the Manufacturing Innovation Ecosystem for Energy Storage



# Future State

**Harnessing collaboration** through manufacturing RD&D laboratories.

**Accelerating scale-up of storage/conversion technologies** by:

- Building confidence in the use of manufacturing technologies;
- Developing technical standards to assess the scalability and manufacturability of storage/conversion technologies; and
- Promoting the use of platform manufacturing technologies by sharing knowledge through the innovation ecosystem.

