





Argonne accelerates science and technology for U.S. prosperity and security.



Pivotal discoveries





STRUCTURING INNOVATION

Framework for Innovation

Models of Public-Private Partnerships
Chain Reaction Innovations
Clean Tech Economy Coalition
MachH2

The Role of Culture

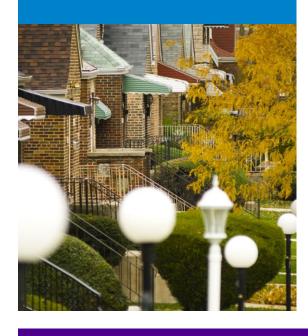
Regional Economic Development Playbook





FRAMEWORK FOR INNOVATION

COMMUNITY



SCIENCE AND ENGINEERING



PARTNERSHIPS



STEM WORKFORCE



CULTURE















Lab-Embedded Entrepreneurship Program

Science is the bedrock on which innovations will deliver a more sustainable, prosperous, and equitable nation and world.

Annual cohorts in clean energy, climate tech, and critical industries of the future

Two-year fellowship enables innovator to focus on tech and business development

Research funding supports technical work at Argonne to de-risk startup technology





OPENING NATIONAL LAB DOORS TO U.S. ENTREPRENEURS

Resources for innovators

- Mentoring by national lab scientists
- Use of existing facilities, unlocking tremendous public assets
- Access to regional innovation ecosystems

Flexibility

 Open science environment provides time and space for pivots

Diversity, Equity, Inclusion, & Accessibility

 Address systemic barriers to who can be or who self-identifies as a STEM entrepreneur



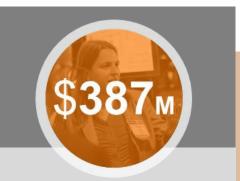
CHAIN REACTION INNOVATIONS BY THE NUMBERS



Years in operation



Past and present innovators



Follow-on funding



Jobs created by CRI start-ups



Founders from underrepresented groups





CLEAN TECH ECONOMY COALITION

Only Illinois finalist for the EDA's Build Back Better Regional Challenge

Represented \$150-\$200M opportunity

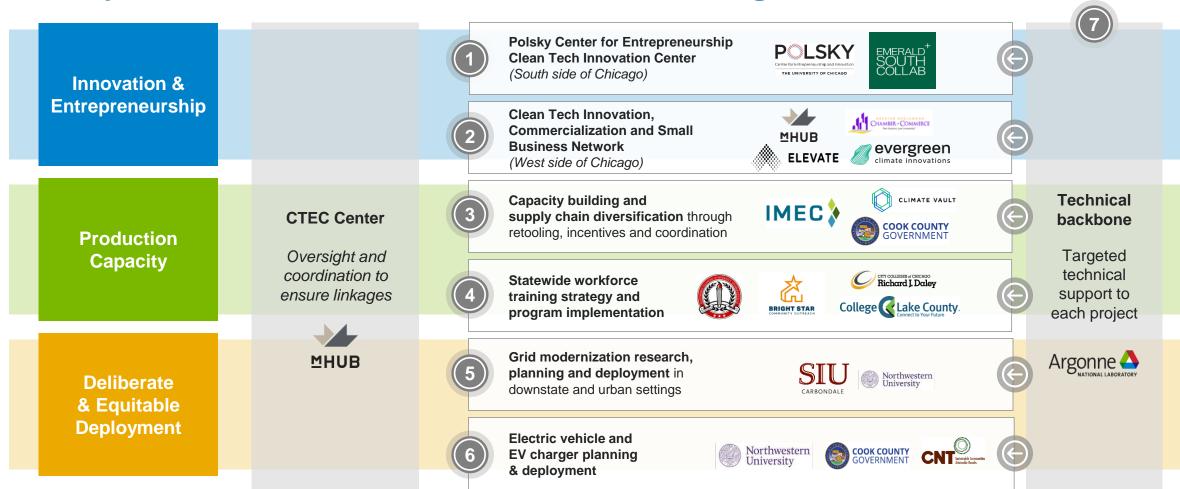
Coalition continues moving forward with state investment

Bold, transformational vision for economic growth

By 2035, Illinois is a national leader in **energy infrastructure** (producing products and services that advance energy transmission, distribution, storage, and management capabilities) across the world, and is advancing efficient clean energy use through a modernized grid.

THE 19-MEMBER COALITION FOR BBBRC

Led by mHUB, a hardtech and manufacturing innovation center







THE MIDWEST ALLIANCE FOR CLEAN HYDROGEN



The Midwest Alliance for Clean Hydrogen (MachH2) is a multistate coalition of public and private entities representing every phase in the hydrogen value chain to produce clean, carbon-free hydrogen. The alliance submitted an application to the DOE to develop a regional clean hydrogen production and distribution hub in the Midwest; a billion-dollar opportunity.

THE ALLIANCE INCLUDES A CROSS-SECTION OF



Carbon-free energy producers



Clean energy developers



Hydrogen technology providers



Utilities



Major manufacturers



Leading hydrogen technology development and deployment institutions



World-class universities



National labs

MachH2's hub will seek to maximize existing energy infrastructure and utilize the region's abundant nuclear and other carbon-free energy resources, such as wind and solar, to create clean hydrogen.

Major regional hydrogen value-chain partners

In-place H2 offtake

customers

Energy Feedstock

- Renewables (wind)
- Nuclear
- Fossil fuels

End-Uses

- Electrical power generation
- Industrial
- Transportation
- Other (agricultural)

Production **Technologies**

- Electrolysis
- Thermal conversion

Connective Infrastructure

- H2 pipelines
- H2 carriers
- Above ground H2 storage
- H2 fueling stations

H2 technology RD&D expertise from leading National Labs and technology deployment organizations









Leading research universities supporting workforce development and entrepreneurship



















Minority-serving Institutions (MSI) and **DAC-serving institutions**



Northwestern

University









Local CBOs, non-profits, and government agencies





























Original equipment manufacturers/ vendors



Bloomenergy





















CULTURE OF INNOVATION

Innovation is embodied in Argonne's core values







Argonne's Implementation Playbook offers a framework for a national lab seeking to engage with its regional innovation ecosystem and local communities

