

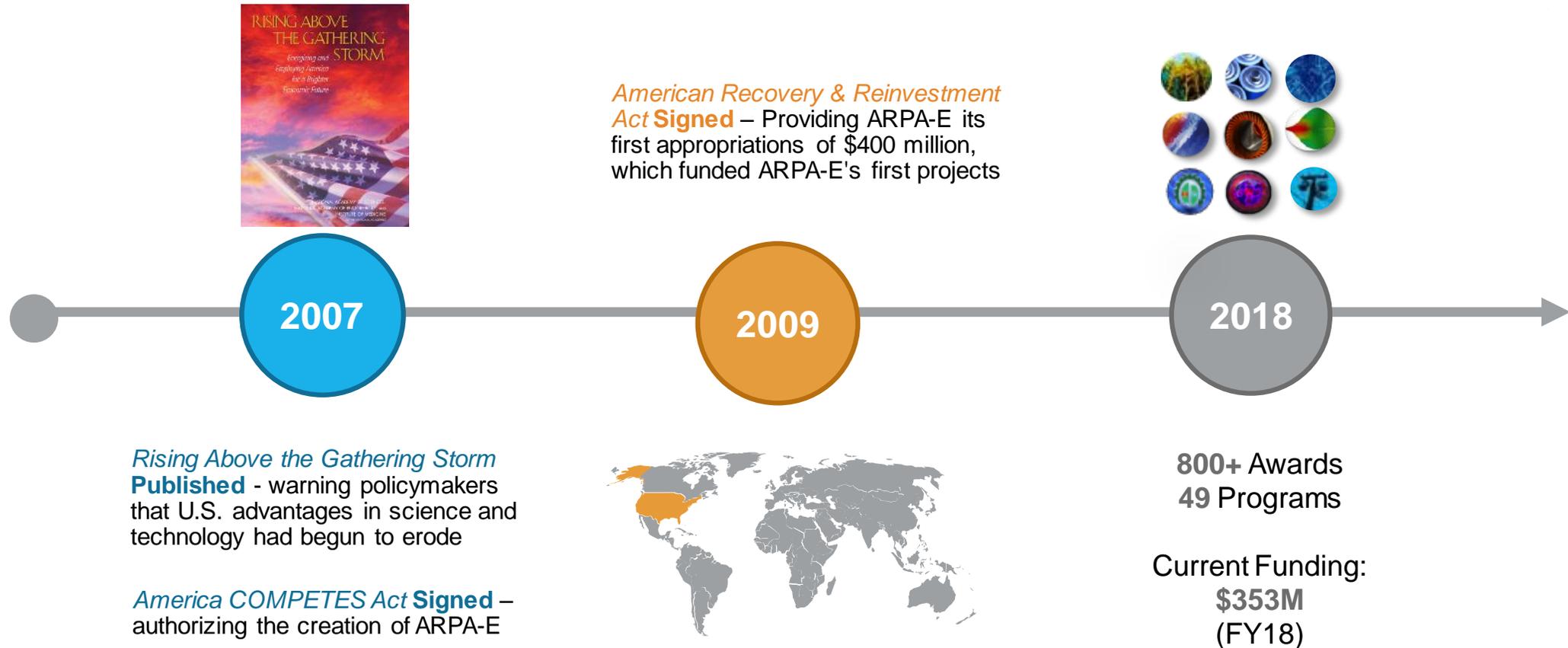
Jennifer Gerbi
Associate Director for Technology

ARPA-E



History of ARPA-E

In 2007, The National Academies recommended Congress establish an Advanced Research Projects Agency within the U.S. Department of Energy to fund advanced energy R&D.



ARPA-E Mission

Mission: To overcome long-term and high-risk technological barriers in the development of energy tech



What Makes an ARPA-E Project?



IMPACT

- ▶ High **impact** on ARPA-E mission areas
- ▶ Credible path to market
- ▶ Large commercial application



TRANSFORM

- ▶ Challenges what is possible
- ▶ **Disrupts** existing learning curves
- ▶ Leaps beyond today's technologies



BRIDGE

- ▶ Translates science into breakthrough technology
- ▶ Not researched or funded elsewhere
- ▶ **Catalyzes** new interest and investment



TEAM

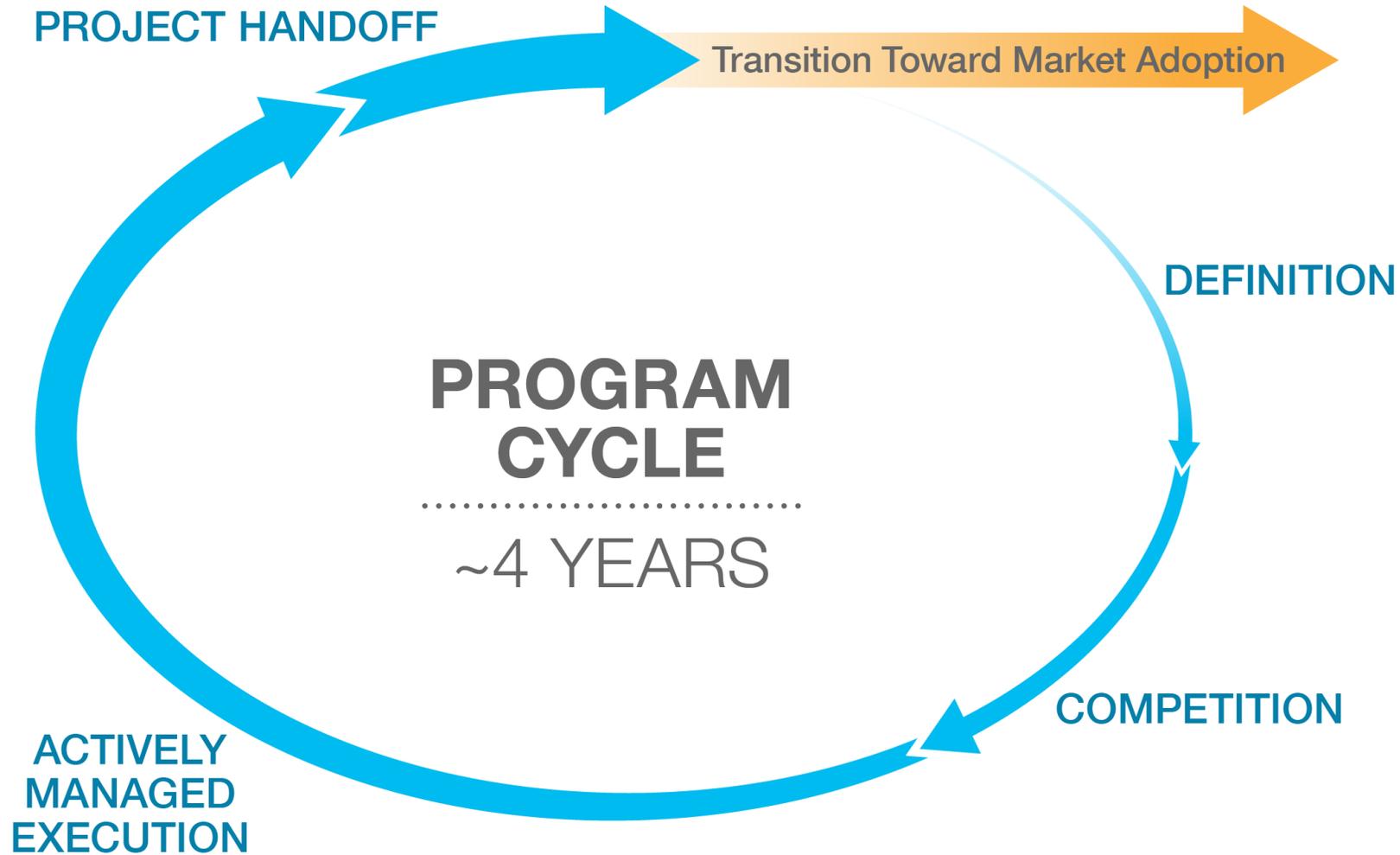
- ▶ Comprised of best-in-class people
- ▶ Cross-disciplinary skill sets
- ▶ Translation oriented



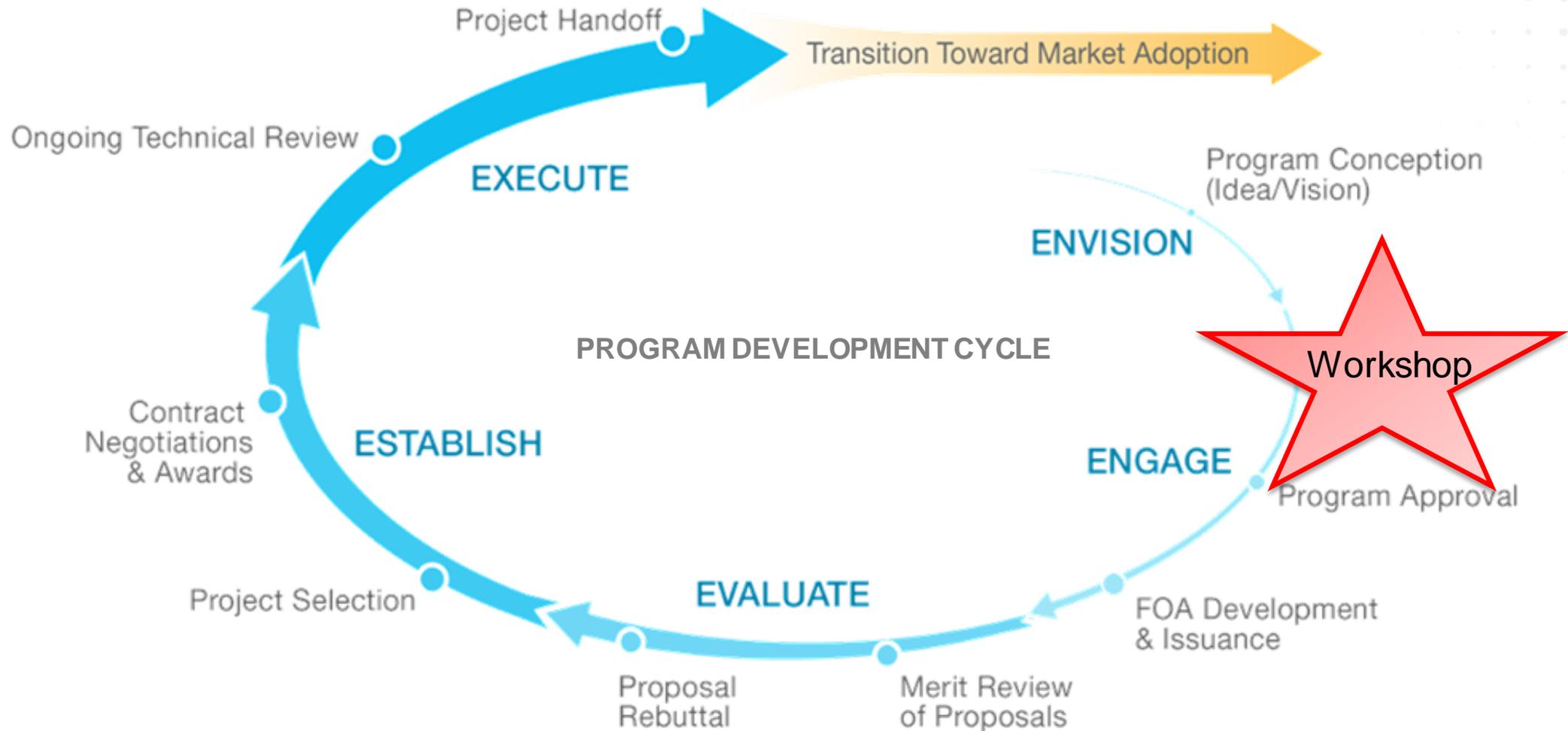
If it works...

will it matter?

Technology Acceleration Model



Technology Acceleration Model



Tech To Market Approach



SCOPE

Provide strategic market insights necessary to create innovative, commercially relevant programs

MANAGE

Manage project teams' T2M efforts through T2M plans and jointly developed milestones

ADVISE

Support project teams with skills & knowledge to align technology with market needs

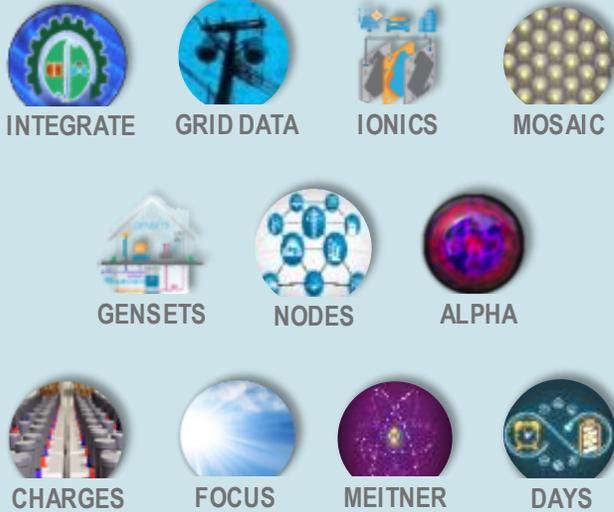
PARTNERSHIPS

Engage third-party investors and partners to support technology development towards the market

ARPA-E Program Portfolio

Active

ELECTRICITY GENERATION & DELIVERY



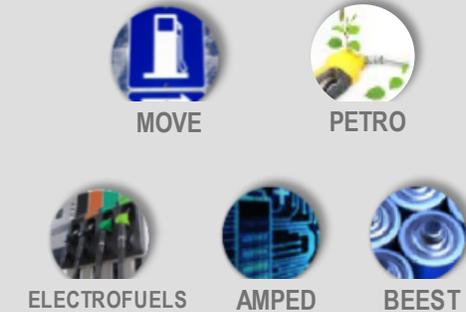
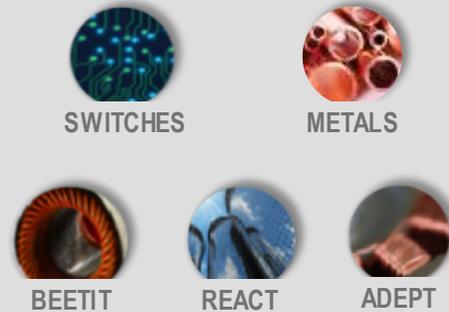
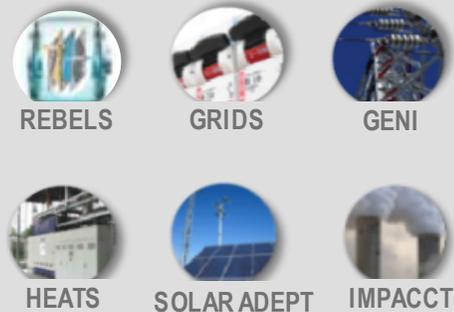
EFFICIENCY



TRANSPORTATION



Alumni



OPEN 2009, 2012, 2015 & 2018 Solicitations
Complement Focused Programs

ARPA-E Impact Indicators

Since 2009
ARPA-E has
provided

\$2 billion

in R&D funding to
more than **800 projects**



145 Projects have
attracted more than

\$2.9 billion

in private-sector follow-on funding



76 projects

have formed
**new
companies**



131 projects

have **partnered**
with other
government
agencies
for further
development



2,489

peer-reviewed
journal articles
from ARPA-E
projects



346 patents

issued by U.S.
Patent and
Trademark Office



ARPA-E Could be the Hallmark of Your Career

PROGRAM DIRECTOR



- ✓ Program development
- ✓ Active project management
- ✓ Thought leadership
- ✓ Explore new technical areas

TECHNOLOGY-TO-MARKET ADVISOR



- ✓ Business development
- ✓ Technical marketing
- ✓ Techno-economic analyses
- ✓ Stakeholder outreach

FELLOW



- ✓ Independent energy technology development
- ✓ Program Director support
- ✓ Organizational support



CONTRIBUTE TO A
BETTER ENERGY
FUTURE



COLLABORATE WITH
OTHER EXPERTS

Learn more and apply:
www.arpa-e.energy.gov/jobs

JOIN OUR INNOVATIVE
STARTUP CULTURE



WORK IN DIVERSE
TECH AREAS





U.S. DEPARTMENT OF
ENERGY

<https://arpa-e.energy.gov>