

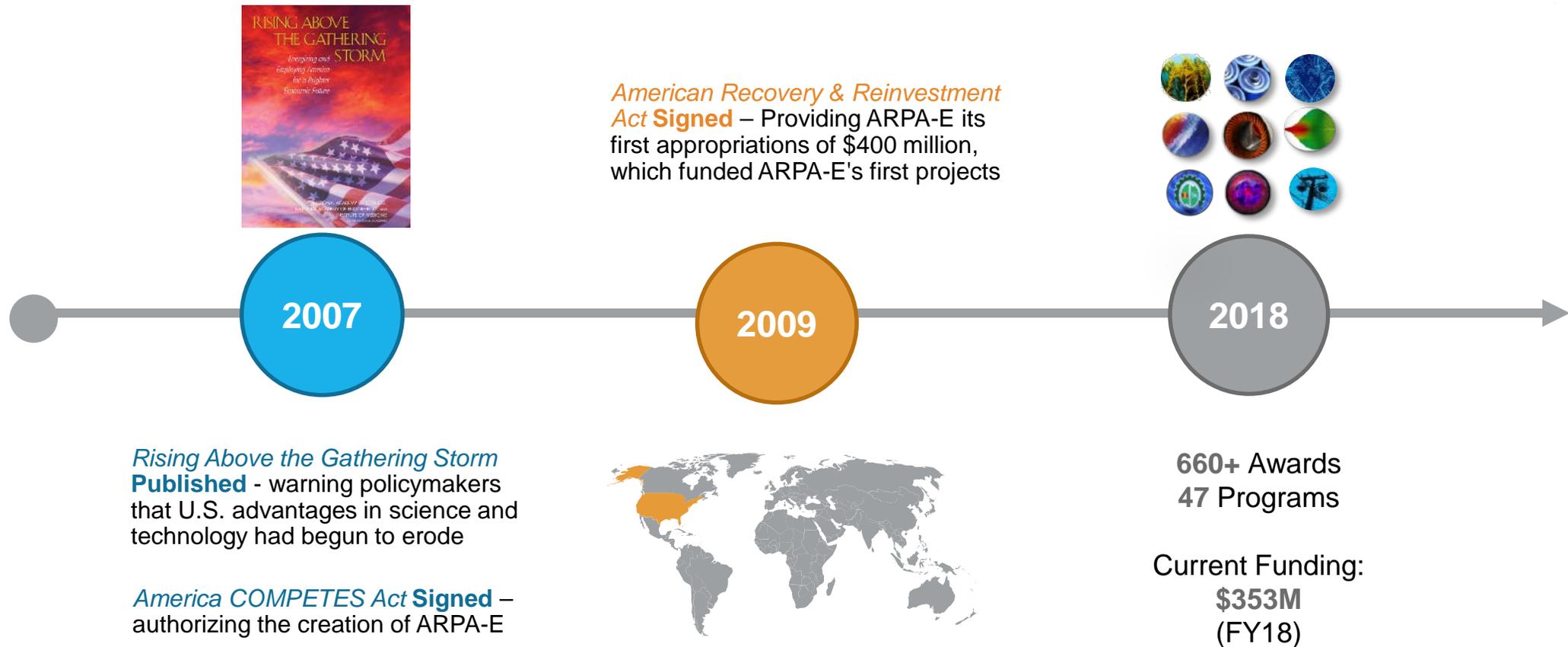
U.S. Department of Energy Advanced Research Projects Agency-Energy (ARPA-E)

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www.arpa-e.energy.gov

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 technologies



Built on DARPA foundation, but with key differences...



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

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 Impact Indicators

Since 2009
ARPA-E has
provided

\$1.8 billion

in R&D funding to
more than **660 projects**



136 Projects have
attracted more than

\$2.6 billion

in private-sector follow-on funding



71 projects

have formed
**new
companies**



109 projects

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



1,724

peer-reviewed
journal articles
from ARPA-E
projects



245 patents

issued by U.S.
Patent and
Trademark Office



INNOVATING TODAY, TRANSFORMING TOMORROW



“The CEO of my company asked if he hadn’t given me a big enough sandbox to play in. I told him ARPA-E offered me a beach.”

—Joe Cornelius, ARPA-E Program Director



U.S. DEPARTMENT OF
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