



CHANGING WHAT'S POSSIBLE

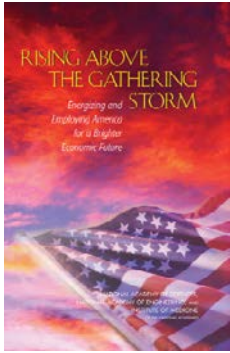
Advanced Research Projects Agency-Energy (ARPA-E)

Patrick McGrath
Acting Deputy Director for Technology
ARPA-E

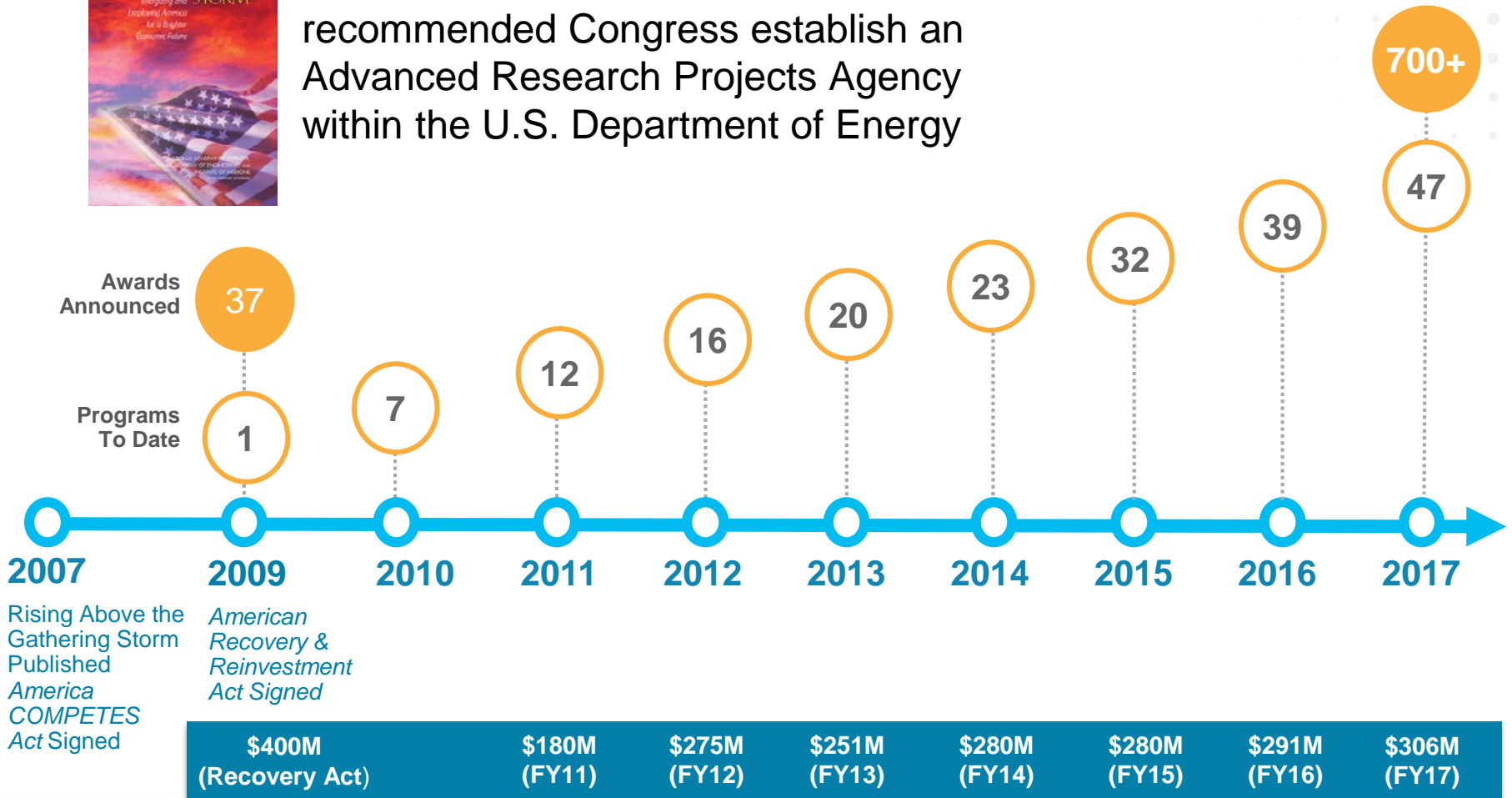
February 13, 2018

www.arpa-e.energy.gov

A Brief History of ARPA-E



In 2007, The National Academies recommended Congress establish an Advanced Research Projects Agency within the U.S. Department of Energy



Rising Above the Gathering Storm Published
America COMPETES Act Signed

American Recovery & Reinvestment Act Signed

ARPA-E Mission

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

←  **Ensure U.S. Technological Lead & U.S. Economic and Energy Security** →

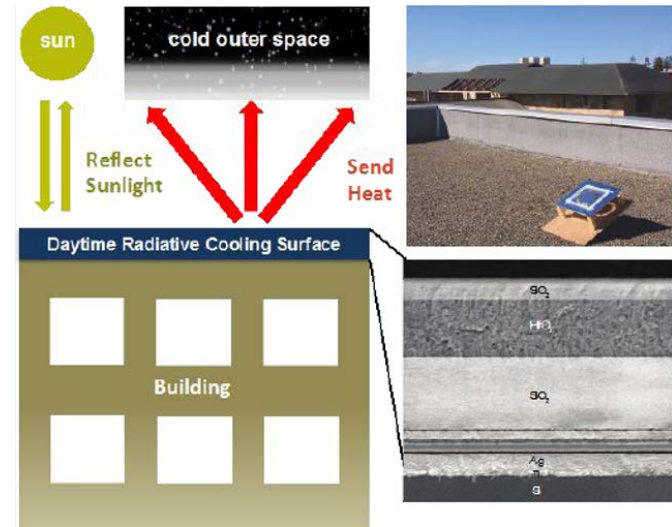


Means:

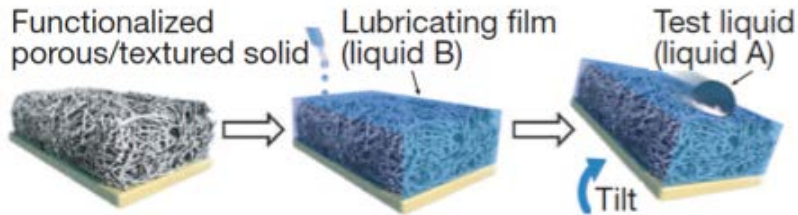
- ▶ Identify and promote revolutionary advances in fundamental and applied sciences
- ▶ Translate scientific discoveries and cutting-edge inventions into technological innovations
- ▶ Accelerate transformational technological advances in areas that industry by itself is not likely to undertake because of technical and financial uncertainty

A small sampling of what we do

Makani



*Stanford/
SkyCool*



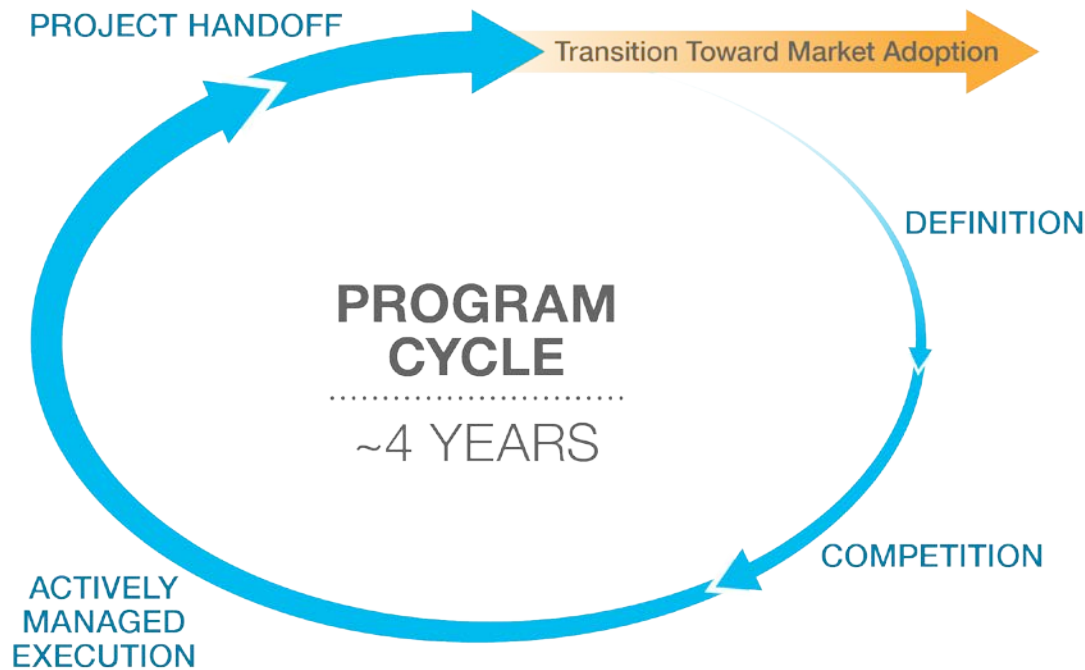
Harvard/SLIPS Technologies



*Foro
Energy*

Where do ARPA-E programs come from?

ARPA-E Program Directors



If it works...
will it matter?



U.S. DEPARTMENT OF
ENERGY

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