

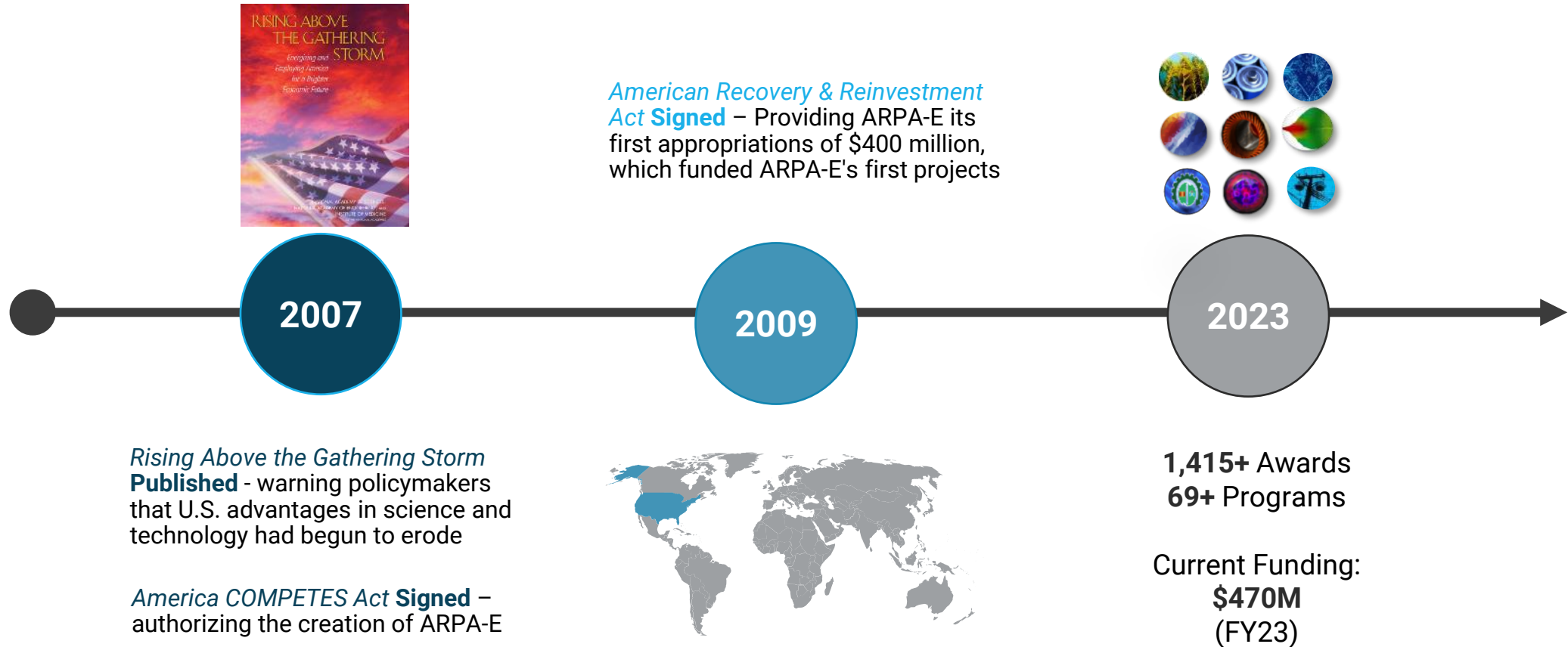
Transformational Energy Storage for Planes, Trains and Ships

Introduction to ARPA-E

Dr. David Tew, Deputy Director for Technology (Acting)

May 9, 2023

History



Mission



REDUCE
imports



REDUCE
emissions



IMPROVE
efficiency



IMPROVE
radioactive waste
management



IMPROVE
energy infrastructure
resilience

Impact

Since 2009
ARPA-E has
provided

\$3.27 billion

in R&D funding to
more than **1,415 projects**



200 projects

have attracted more than

\$11 billion

in private-sector follow-on funding



131 companies

formed by
ARPA-E projects



26 exits

market valuations worth

\$21.8 billion

from mergers, acquisitions, and IPOs



281 projects

have **partnered with**
other government
agencies

for further development



6,257

peer-reviewed
journal articles
from ARPA-E
projects



934

patents

issued by
U.S. Patent and
Trademark Office



289

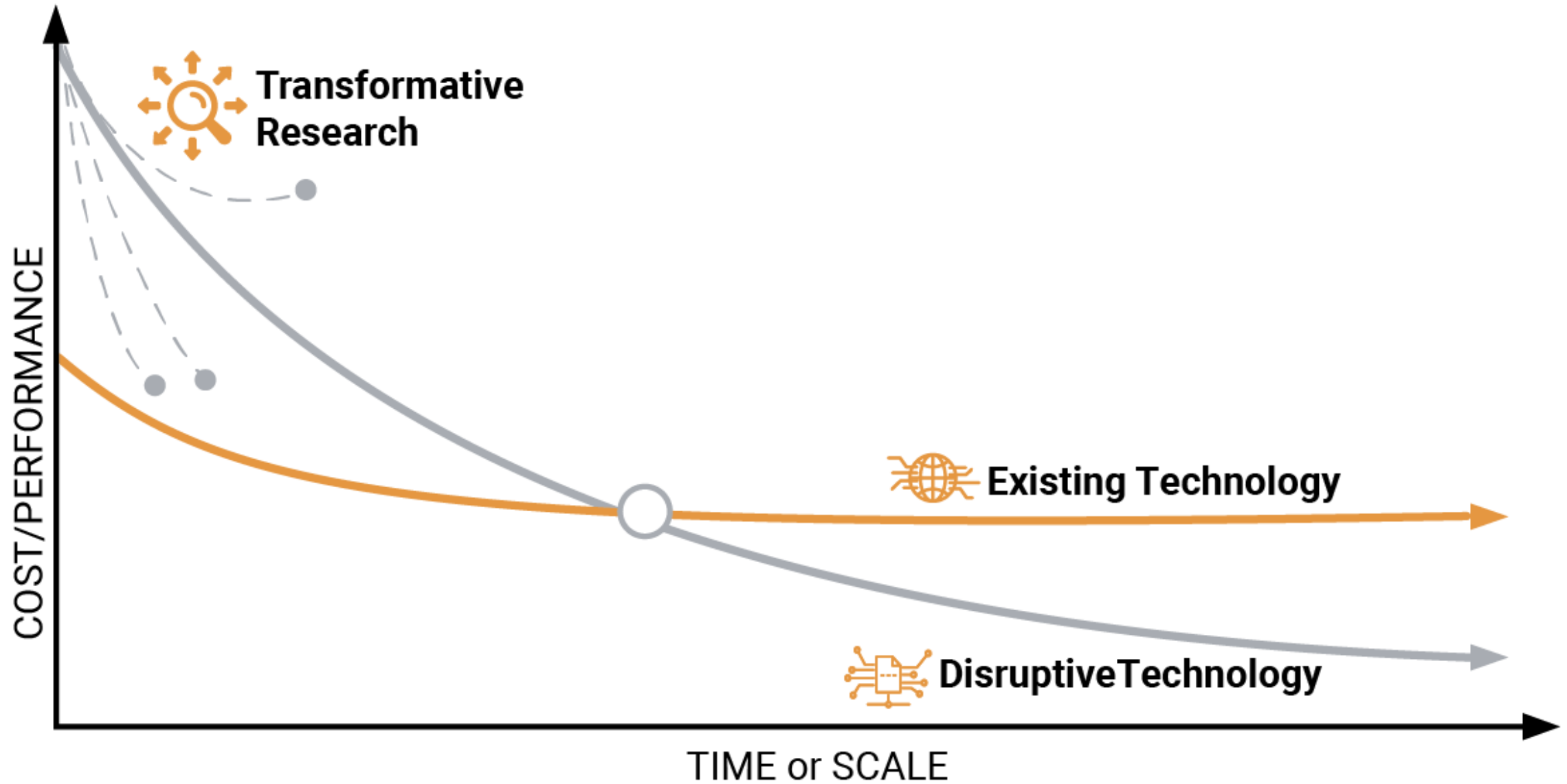
licenses

reported from
ARPA-E projects



As of September 2022

Technology Investment Approach



Risk



ARPA-E
Focused Programs
& Other DOE R&D

SCALEUP

Office of Clean Energy Demonstrations (OCED)

Loan Programs Office (LPO)

Project Finance

Venture Capital

Investment



Technical Risk Reduction



Product Development

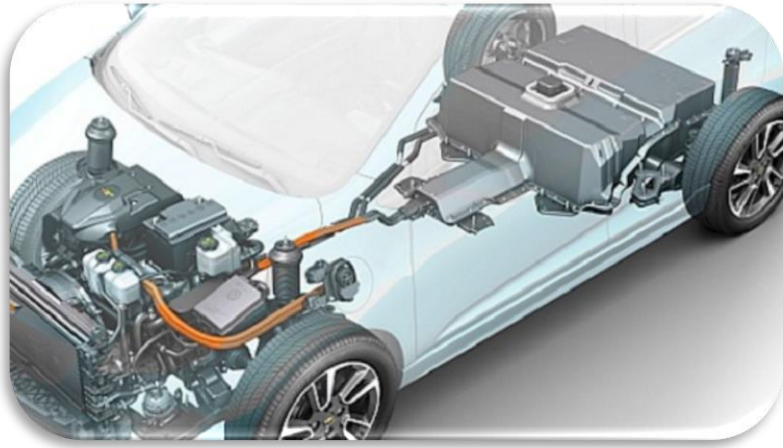


Market Validation



Establish Track Record

SCALE / MATURITY



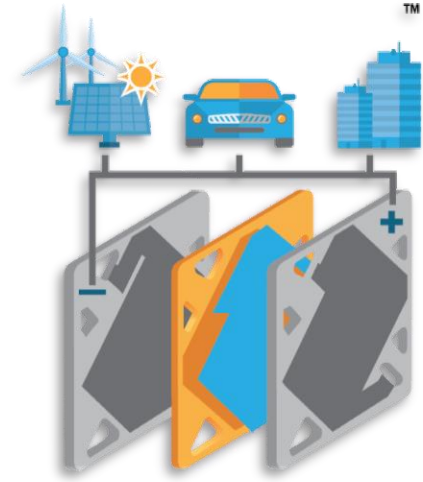
BEEST

Batteries for Electrical Energy Storage in Transportation



RANGE

Robust Affordable Next Generation Energy Storage Systems



IONICS

Integration and Optimization of Novel Ion-Conducting Solids

100 Projects | \$250M Funding

(>\$4B in Follow-On Funding)

Join the Team that is Transforming the Energy of Tomorrow



Program Directors | Technology-to-Market Advisors | Fellows

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