

# **Cyclotron Road**

A new pathway for hard energy technology innovation





#### Innovation today

# The age of "lean" innovation



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## **BERKELEY LAB**

#### The challenge

# Get "lean" or get lost...



Cleantech funding by stage. Source: PWHC/NVCA Thompson Reuters report

Quarter

## BERKELEY LAB

The Cyclotron Road model

## Let the nation's best energy innovators "spin in" to Berkeley Lab



## **BERKELEY LAB**

#### **Pilot overview**

# The first cohort



Dan Riley and Jared Schwede



Steven Kaye



Raymond Weitekamp





Kendra Kuhl, Etosha Cave



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#### Progress from pilot program

## The Cyclotron Road pilot, by the numbers



8 innovators selected from 150 registered applicants in a three week application window

4 weeks to first experiments with Berkeley Lab

20+ Berkeley Lab scientists have supported the projects

Projects have avoided millions in R&D capital expenditures and raised \$5 million in follow-on funding



### Progress from pilot program

## The Cyclotron Road pilot, by the numbers



funding

## BERKELEY LAB

#### Goal: build an ecosystem

## Drive impact by aligning key stakeholders

#### Innovators

A custom-built home to pursue breakthrough innovation with mentored support and a higher chance of commercial success



#### **Berkeley Lab**

A new mode to drive impact, expose scientists to industry and entrepreneurship, and create an allstar alumni network in the private sector







#### **Private Sector**

A pipeline of top talent and technologies that will be the industry's next breakthroughs and leaders

Support the best innovators

**Department of Energy:** 

and get higher yield of mission-aligned commercial outcomes



**BERKELEY LAB** 

### Cyclotron Road v2.0

## **Pilot Lessons Learned**

Validation:

- ✓ We can attract high-caliber "all-in" innovators
- ✓ We can facilitate "win-win" collaborations with Lab scientists
- ✓ Projects can leverage modest program support to attract more funds

**cyclotron**road

✓ Public and private sectors both enthusiastic to engage

Challenges:

- IP/HR constraints for Cohort teams
- Programmatic constraints for the program



#### Cyclotron Road Public Private Partnership Structure

# Positioning innovators for impact



Recruiting the next cohort

# Second cohort semifinalist visit: fostering new connectivity



**BERKELEY LAB** 

The experience of seeing the facilities that were open to us with or without admission to Cyclotron Road was quite informative. **Startups are always looking for resources to grow, and LBL was one we had no idea existed** (and probably would not if Cyclotron Road interviews did not take place)."

"

"

His technology is both cutting edge and very relevant to our mission. Furthermore, **it represents a capability that we lack, and can be very useful** for the future development of synthetic biology.

**Future vision** 

# A network of embedded accelerators driving impact in hard technology



## **BERKELEY LAB**



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