

CalCharge: Moving technology to market

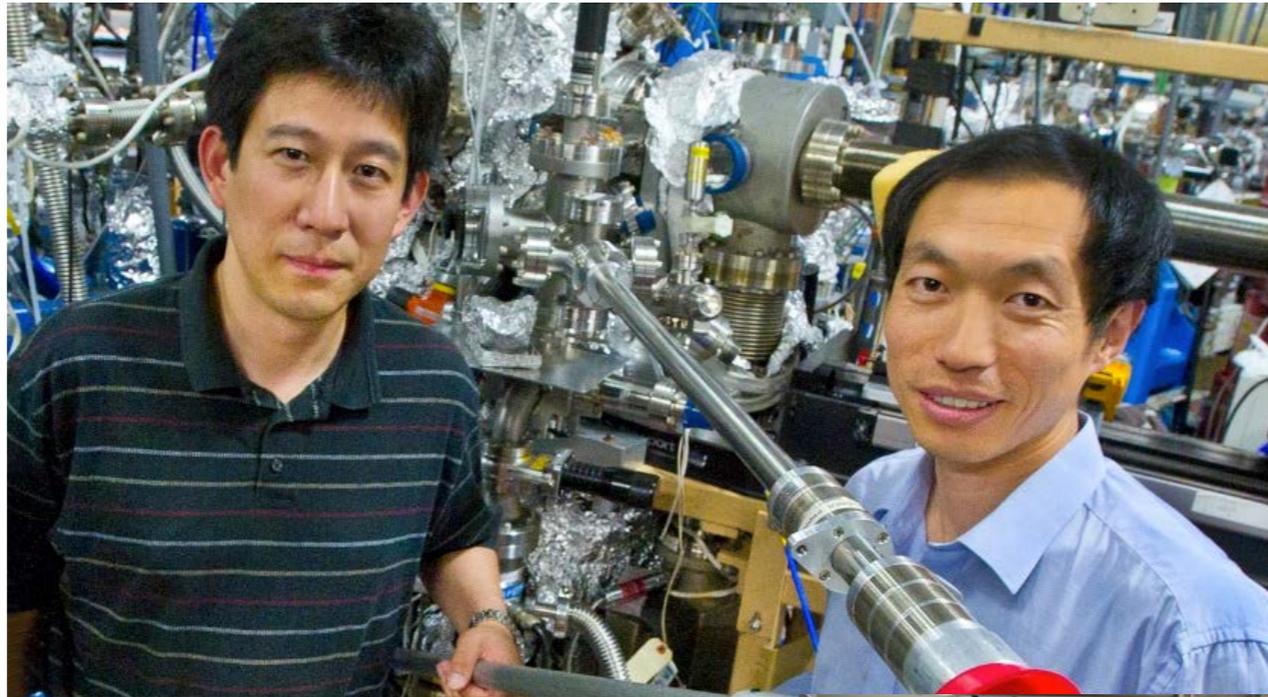


Venkat Srinivasan
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Lawrence Berkeley National Lab

Outline

- The challenge of working with National Labs
- The California battery ecosystem
- CalCharge: A public-private partnership to accelerate technology development
- CalCharge program areas and impact
- Process to work with Berkeley Lab
- Bay Area Battery Summit: Bringing together thought leaders in industry and academia

National Lab assets: People and equipment



How can industry to take advantage of these assets? Fast?

Critical Mass and Global Impact

- California has one the largest and most dynamic concentrations of the energy storage sector in the world
- With an outsized impact on industry and market development globally

- More than 120 energy storage companies are located in California
- But no “center of gravity”



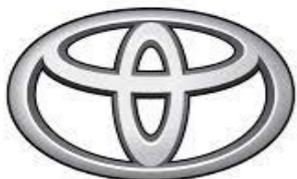
CalCharge: A public-private partnership



Working Together to Energize a Sustainable California



CalCharge



CalCharge Program Areas

Accelerating from innovation to installation

Technology Acceleration

- CRADA (Berkeley Lab, SLAC)
 - Streamlined
 - Proprietary research

Pre-Commercialization Support

- Advanced Manufacturing Roadmap

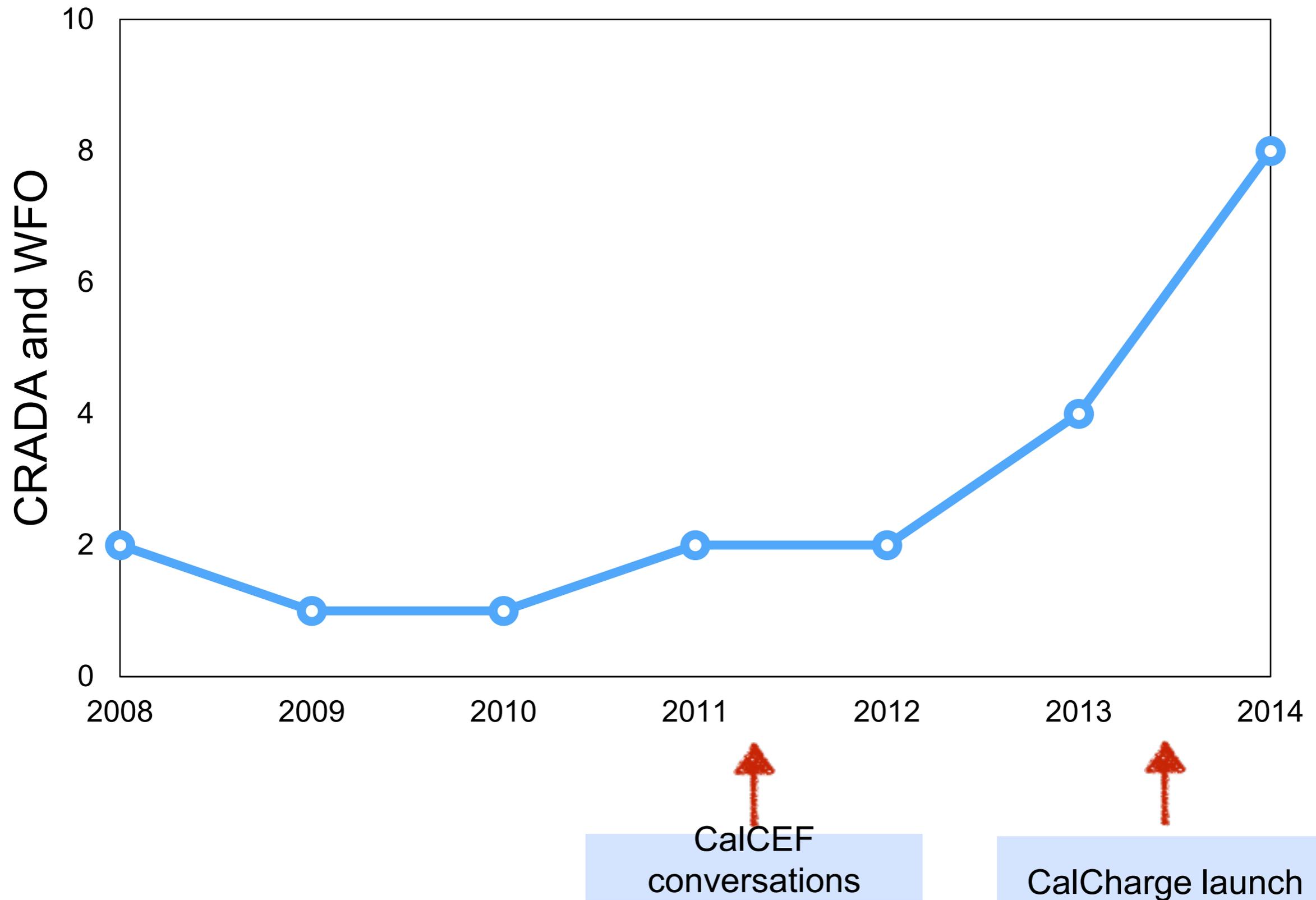
Professional Development

- First MSE in Batteries with SJSU

Ecosystem Facilitation

- IBEW-NECA Energy Storage Standard and Certification Development

We are expanding our industry engagement



Some examples of CalCharge engagement

Funded research



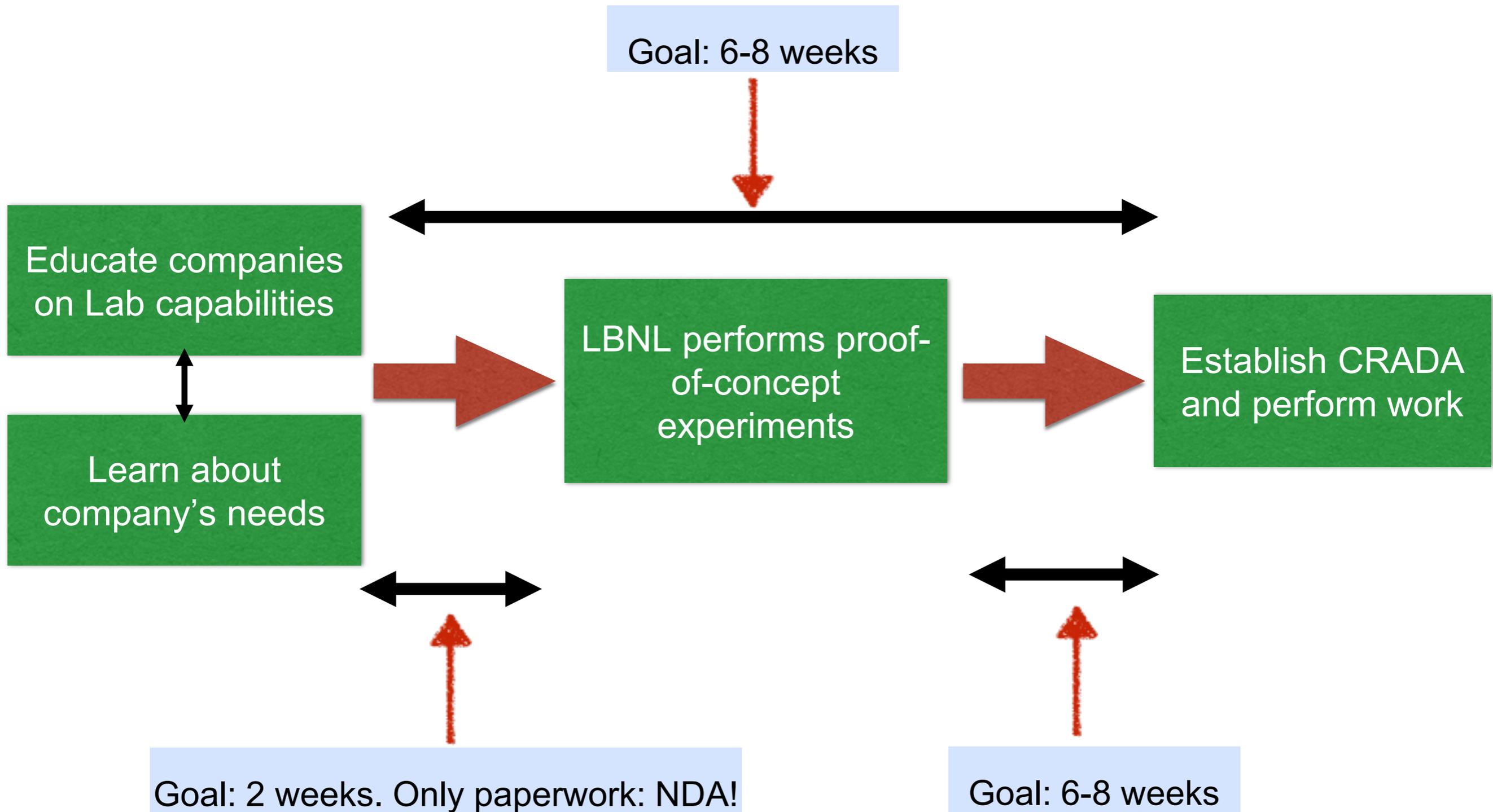
“Embed” researcher



Joint proposals



Process to work with Berkeley Lab



We have accelerated access to Berkeley Lab

2015 Bay Area Battery Summit

The Energy Storage Landscape: Challenges and Opportunities

November 3, 2015



- A total of 232 attendees
 - 140 industry attendees
- Talks and panels addressing the intersection of technology, markets, and policy
- Poster and networking session
- Outcome: White paper summarize state of the art and key recommendations

Organized by:



2015 Bay Area Battery Summit

Transforming the energy infrastructure:

Eight recommendations for widespread deployment of batteries in vehicles and the grid



Danny Kennedy



Julie Blunden



Ted Ko



George Crabtree

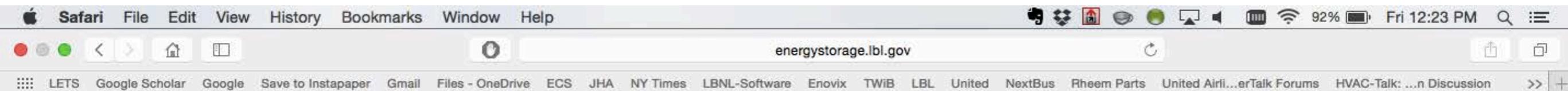


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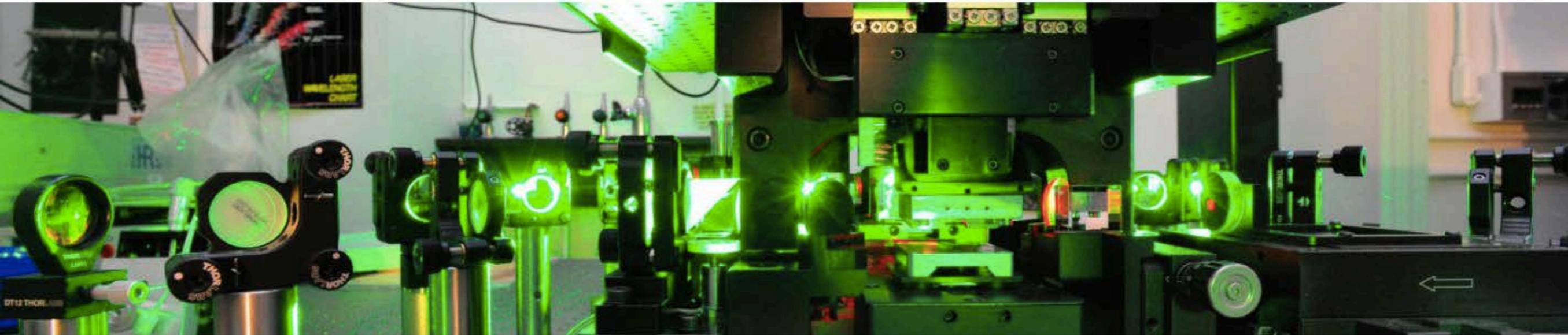
Bart Riley

To learn more visit: <http://www.energystorage.lbl.gov>



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Research. Innovation. Collaboration. Ecosystem.

Energy storage is a cornerstone of the global transition to a clean energy economy. Our mission is to increase the frequency and intensity of impactful collaborations and to accelerate innovative research between Berkeley Lab and companies working in the energy storage space.

Research



Innovation

