



Lab Summit

meeting recap





thank you!

Thank you for being a part of e-Lab Summit 2017! Without your participation and perspectives, the collective work advanced at Summit would not have been possible. As you return to your work, we hope that the insights and connections that you made in New Mexico support you in meaningful and actionable ways. We wish you luck in all of your endeavors, and hope to see you at a future e-Lab event!

The e-Lab team





ground rules

you can say **who was there**
and **what was said**
but **not who said what***

Please remember these rules as you share the outputs of your work at Summit, including the contents of this document.

**without their permission*





follow-up

Offers of support from the e-Lab team

Don't hesitate to contact us with follow-up questions, comments, or requests related to e-Lab. For instance, we're happy to:

- make introductions to other Summit participants, e-Lab network members, or RMI staff
- share information on the collaboration frameworks we use (e.g., types of complexity, 4 ways of talking and listening)
- work with you to refine the Summit for 2018
- send copies of RMI reports or other analyses, briefs, etc.
- explore ways for you or your organization to get more involved with e-Lab, including as a full member

Please contact Mark Silberg (msilberg@rmi.org) with any follow-ups.





e-Lab Accelerator

What is e-Lab Accelerator?

e-Lab Accelerator is an invitation-only, four-day working meeting to accelerate high-impact and innovative projects at the electricity system's distribution edge.

Why attend e-Lab Accelerator?

We'll help you unlock opportunities to drive projects forward more effectively, and collaboratively. Specifically, Accelerator will give teams:

- **A structured working session** to make progress on their project or initiative
- **A rich learning experience** featuring experts on the latest thinking on new utility business models and distributed resources in the U.S. electricity sector
- **Tools and training** to conceptualize problems in collaborative and innovative ways
- **New alliances** to form a broader support network with other teams working on similar projects
- **A unique environment** conducive to creativity and breakthrough ideas

Is e-Lab Accelerator for you?

Accelerator teams comprise 5-8 people representing multiple project stakeholders. Successful teams bring together the right combination of vision, experience, knowledge, and commitment to a project that can accelerate change in the electricity system. Projects must be actively under development at varying levels of maturity.

**May 1-4,
2018**

**Sundance
Mountain
Resort,
Utah**



pod topics

Smart Heating Electrification

Infrastructure Planning and New Mobility

Blockchain and Transactive Energy

Rate Design Pathways

Value Stacking for DERs

Distributed Grid Infrastructure

Utility Business Model Pathways

LMI-Focused Utility Business

**your
pod's
recap is
in the
next
section**



Utility Business Model Pathways






Pod objectives and themes

Pod Objectives

Foster collaboration & learning to:

- Review features of the utility business model and options for reform
- Review recent experience with reforms to understand their approaches, progress made, and lessons to learn
- Identify where there are needs and opportunities to advance the adoption of business model reforms in our individual and collective work

Themes from our work

- Treatment and balancing of risk
- whose risk
financial, technology, environment, ops
 - Pace of innovation vs regulatory
 - What are viable new earnings pace
opportunities
 - Need for value creation not opposed to utility profit
 - Difference in theory to practice
 - Need for testing and learning (pilots?)
 - Stakeholder engagement/process
 - Different perspectives on what is a prudent grid investment
- 

New distribution system functions explored

Planning

- Scenario-based engineering analysis
- DER Interconnection Studies
- DER Hosting Capacity Analysis
- DER Locational Value Analysis
- Integrated T&D Planning

Operations

- Design-build and ownership of dist. grid
- Outage restoration and distribution maintenance
- Physical Coordination of DER Schedules
- Coordination with ISO at T-D Interface

Sticky notes include: Planning for DER, DER Interconnection, DER Hosting Capacity, DER Locational Value, Integrated T&D Planning, Design-build and ownership of dist. grid, Outage restoration and distribution maintenance, Physical Coordination of DER Schedules, Coordination with ISO at T-D Interface, System Access, DER Hosting Capacity, DER Locational Value, Integrated T&D Planning.

Customer Relationships

- Marketing of programs and service options
- Billing
- Customer Service

Sticky notes include: Marketing of programs and service options, Billing, Customer Service, Auto Opt-out, Innovation, Technology Integration Customer Service.

Market Facilitation

- Sourcing Dist Grid Services
- Dispatch DER-provided Grid Services
- Aggregation of DER for wholesale participation
- Transactions at Dist-level energy markets
- Reliability and Settlements inter-DER services

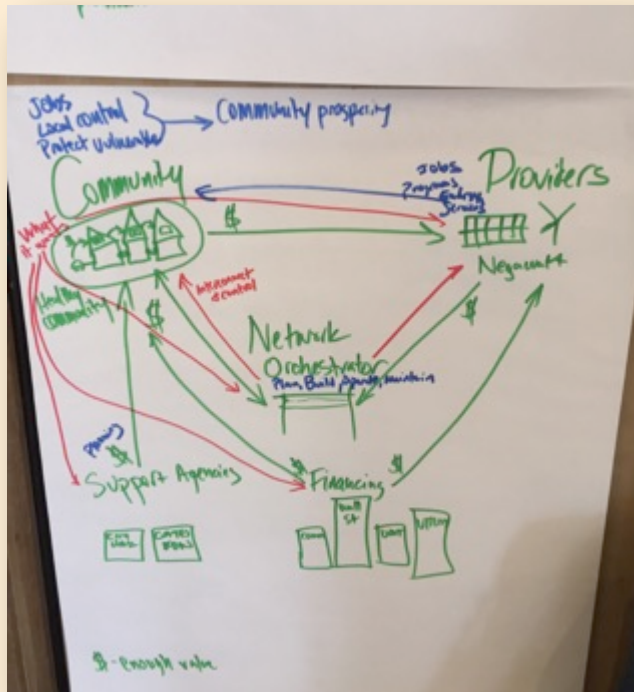
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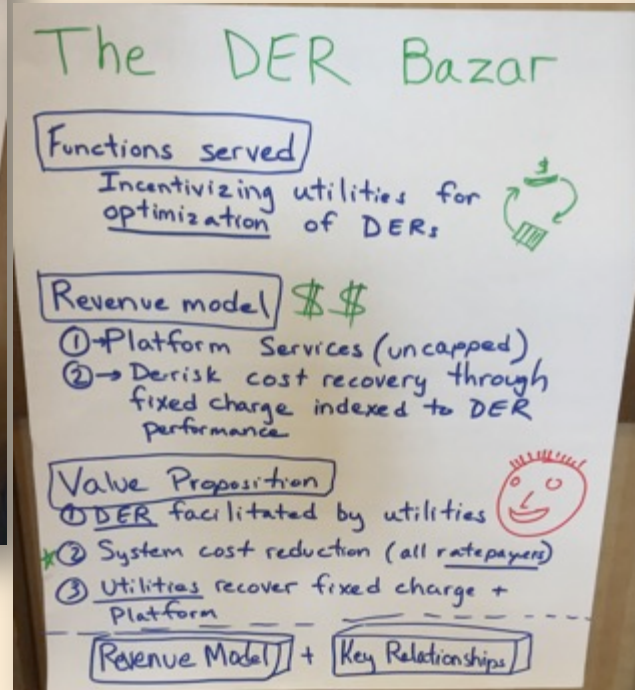
Three biz models prototyped



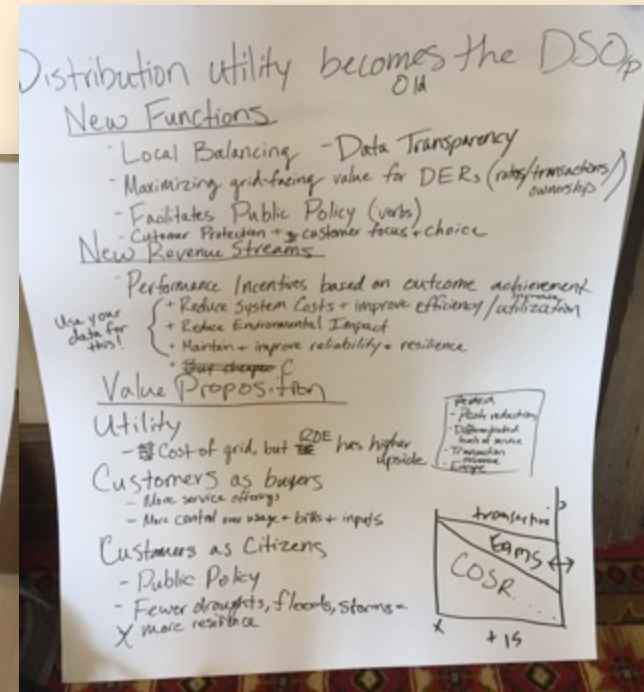
Community-scale Utility Future



Fixed Fee for DER Optimization



Distribution System Optimizer





Why Summit?

You cannot stay on the summit forever; you have to come down again. So why bother in the first place? Just this: What is above knows what is below, but what is below does not know what is above. One climbs, one sees. One descends, one sees no longer, but one has seen. There is an art of conducting oneself in the lower regions by the memory of what one saw higher up. When one can no longer see, one can at least still know.

~ Rene Daumal





thank you!

