

SCIENTIFIC PARTNERSHIPS ENABLING RAPID RESPONSE (SPERR)

June 4, 2015

Presentation to the Subcommittee for Disaster Reduction

Roadmap for today

Overview of the SPERR project & approach

Present proposed solution: the Science Action Network

Feedback, Discussion & Questions

How might we enable greater scientific collaboration before, during, and after large environmental crises?



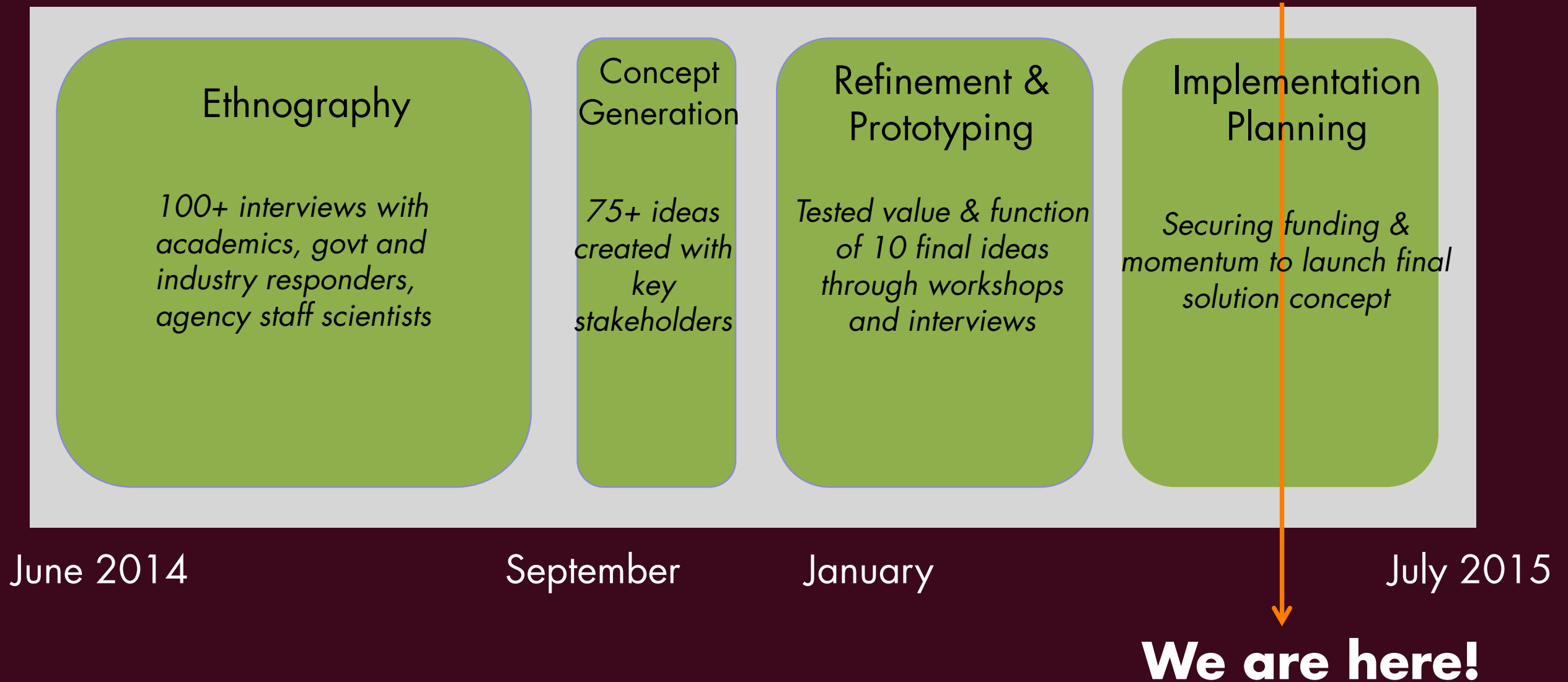
Core Advisory Team

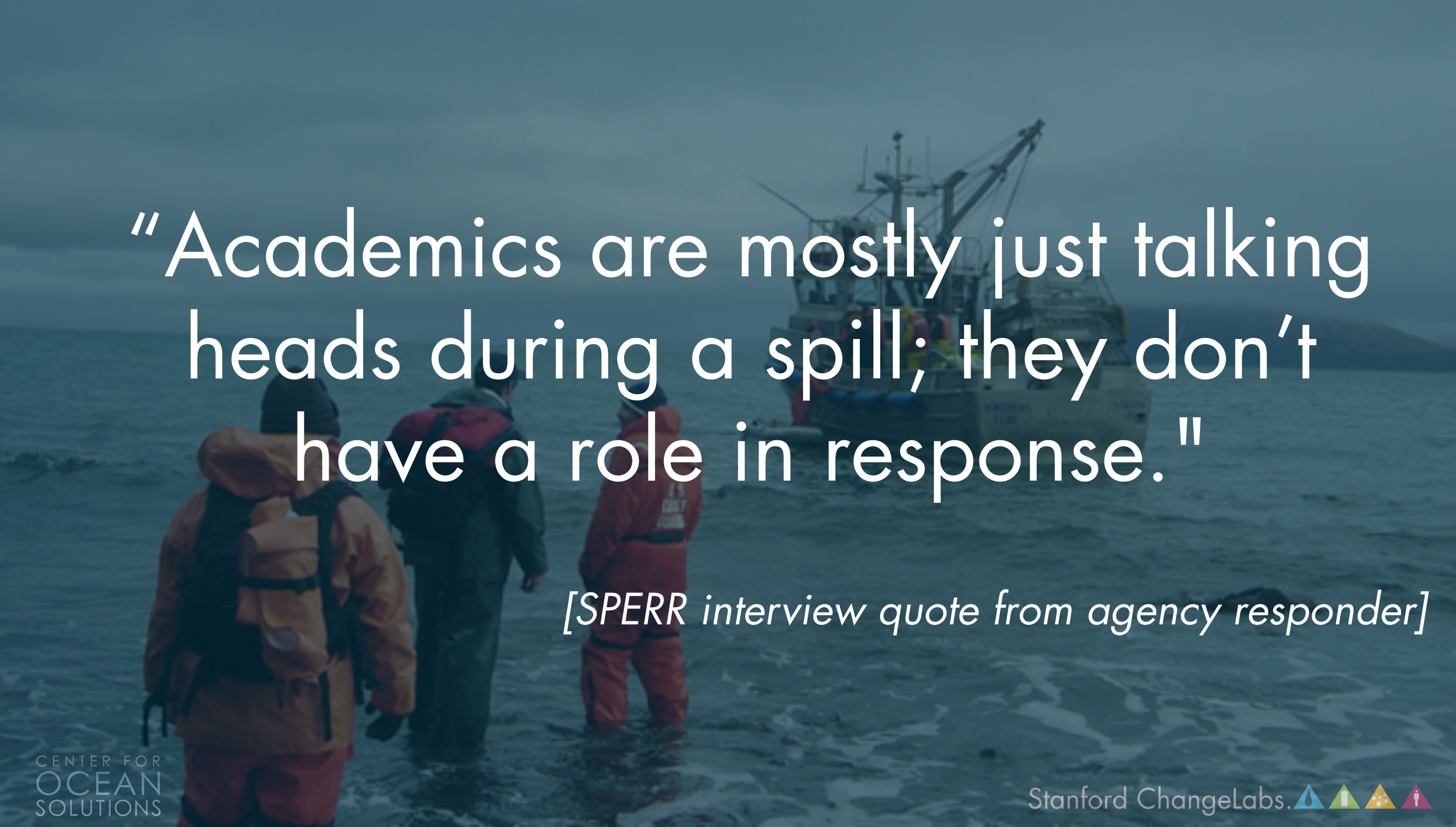
Jane Lubchenco
Thad Allen
Dana Tulis
Dave Westerholm
David Kennedy
Steve Murawski
Chris Reddy
Marcia McNutt

Implementation Team

Debbie Payton
Scott Lundgren
Gary Machlis
Kris Ludwig
Nancy Kinner
LaDonn Swan
Bob Haddad

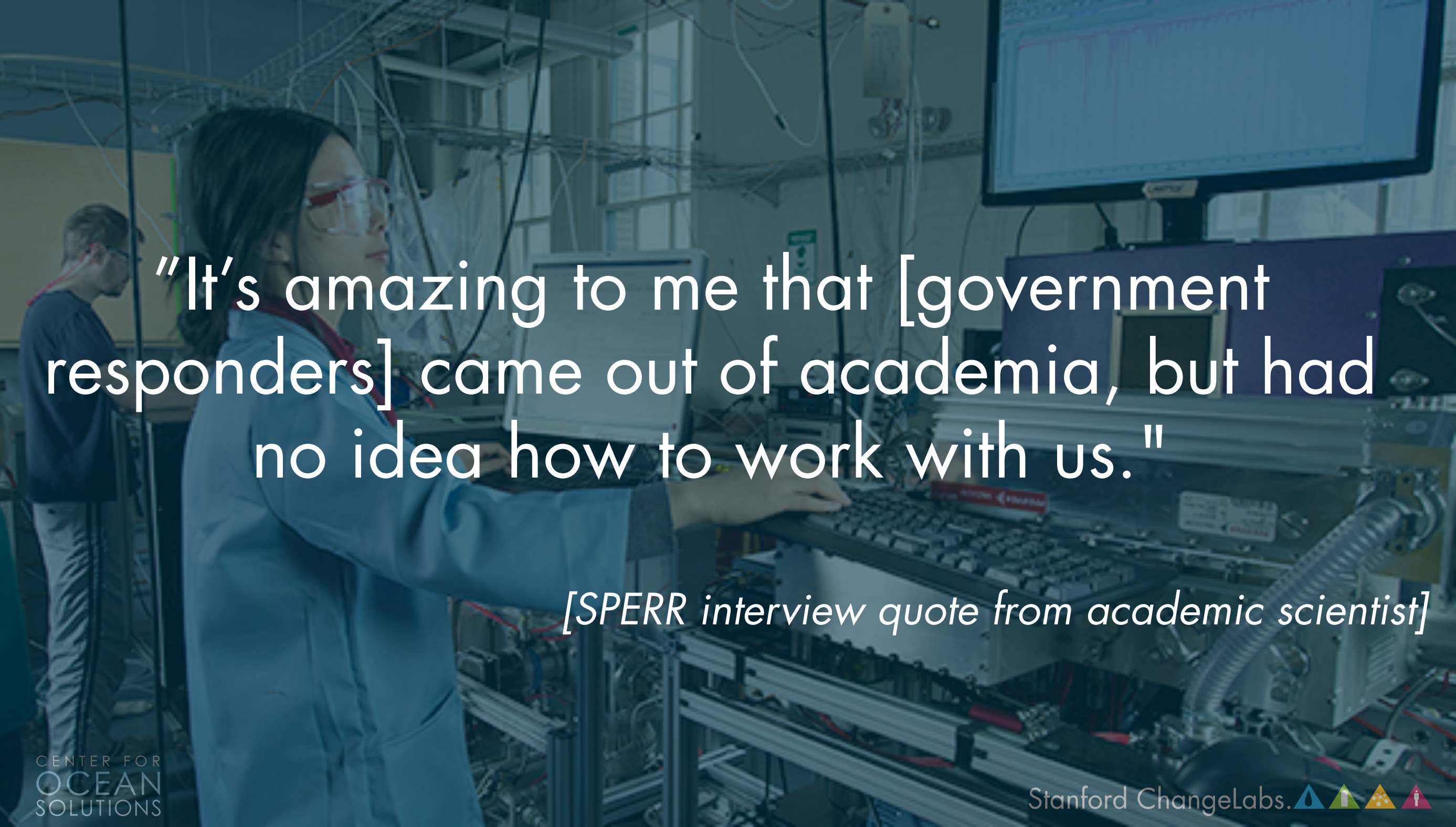
Our Process





"Academics are mostly just talking heads during a spill; they don't have a role in response."

[SPERR interview quote from agency responder]

A woman in a white lab coat and safety glasses is working at a computer in a laboratory. She is looking at the screen and has her hand on the keyboard. In the background, another person is visible, and there are various pieces of equipment and cables.

"It's amazing to me that [government responders] came out of academia, but had no idea how to work with us."

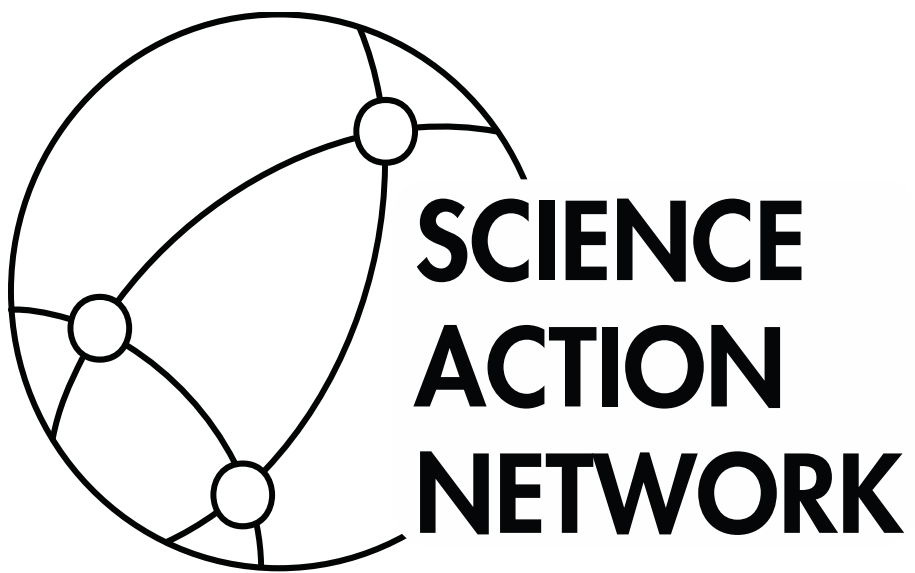
[SPERR interview quote from academic scientist]

An Effective Solution Must...

Build trust & credibility

Create genuine mutual value & understanding

Catalyze relationships to prepare for the “unknown unknowns”



Science for decision making

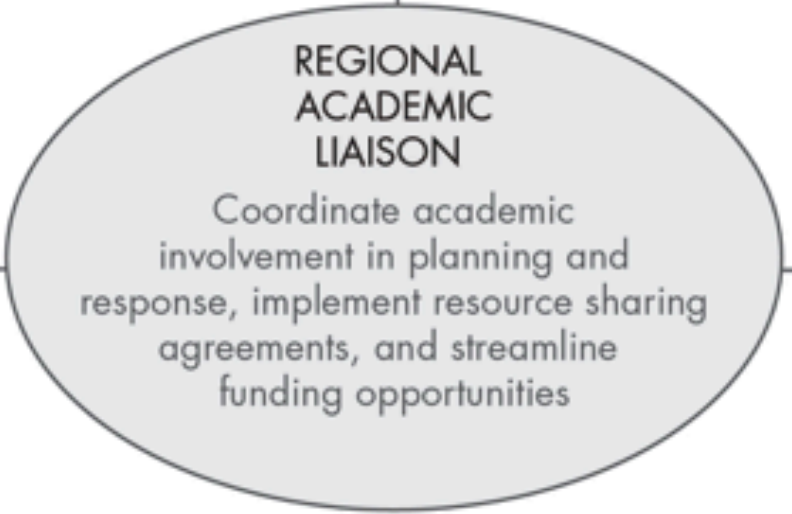
Novel, interdisciplinary partnerships

Cross-disaster, cross-sectoral learning



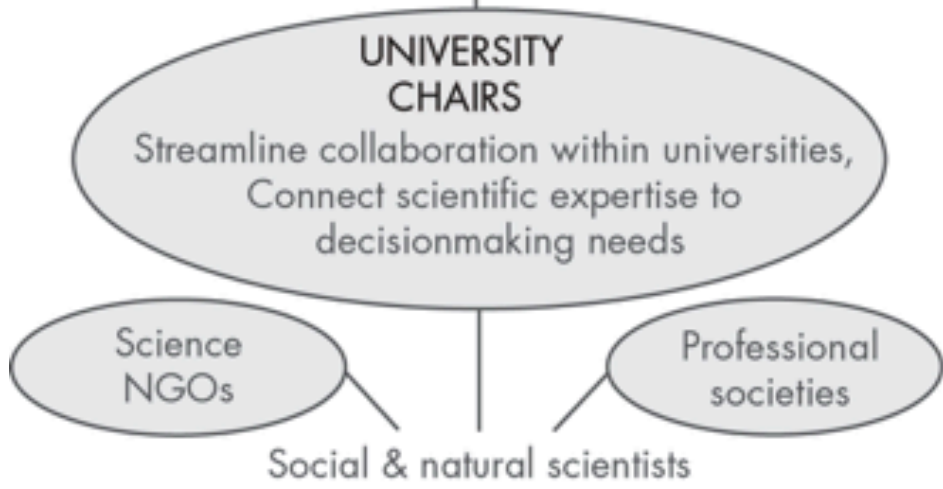
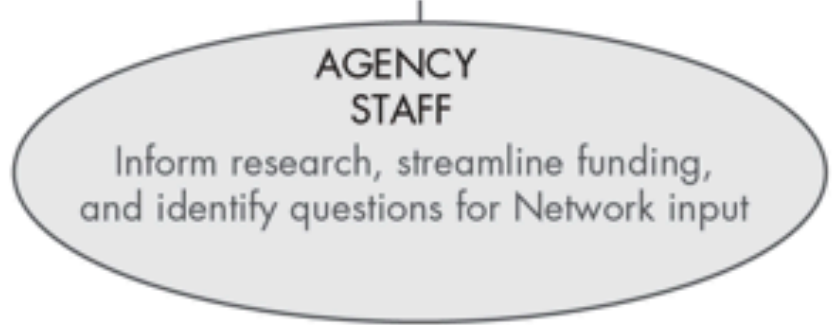
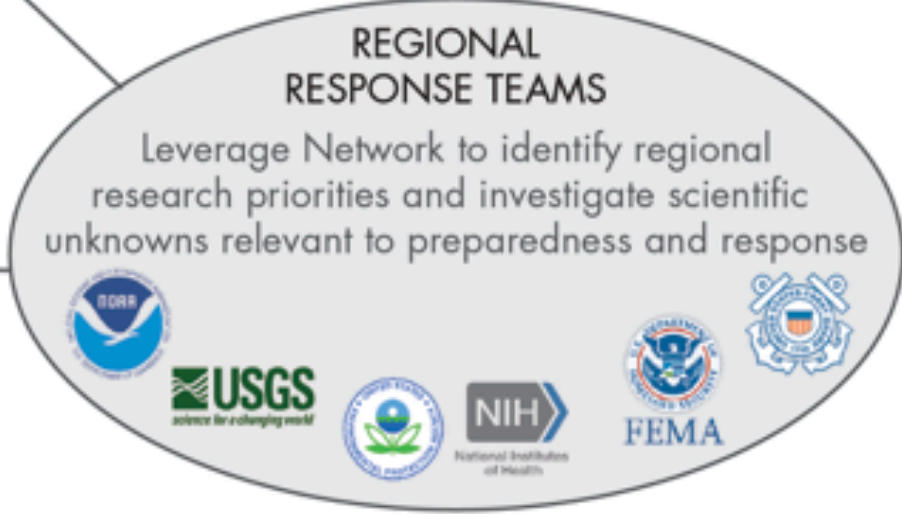
Value Created: Increased cross-disaster learning and scientific exchange

Value Created: Increased access to resources and social recognition for research



Value Created: Increased agency-academic trust and shared norms

Value Created: Increased access to scientific expertise and improved local credibility





VALUE CREATED FOR RESPONDERS

Increased scientific expertise to minimize uncertainties in planning

Decreased time & stress spent on irrelevant scientific inquiries during response

Access local knowledge & credibility

Cross-hazards learning for social & natural science needs

VALUE CREATED FOR ACADEMIC SCIENTISTS

Strengthened research portfolio

Improved site, sample, and data access

New cross-hazard research partnerships
and funding opportunities

Window into decision-making & research
applications across hazard types

CURRENT FOCUS

- » Refine the Science Action Network
- » Build visibility and momentum
- » Secure funding and institutional support to launch a 16-month pilot

CONNECT WITH US

Lindley Mease

lamease@stanford.edu

Theo Gibbs

ayelen@stanford.edu

www.sperr.us

@SPERR_