

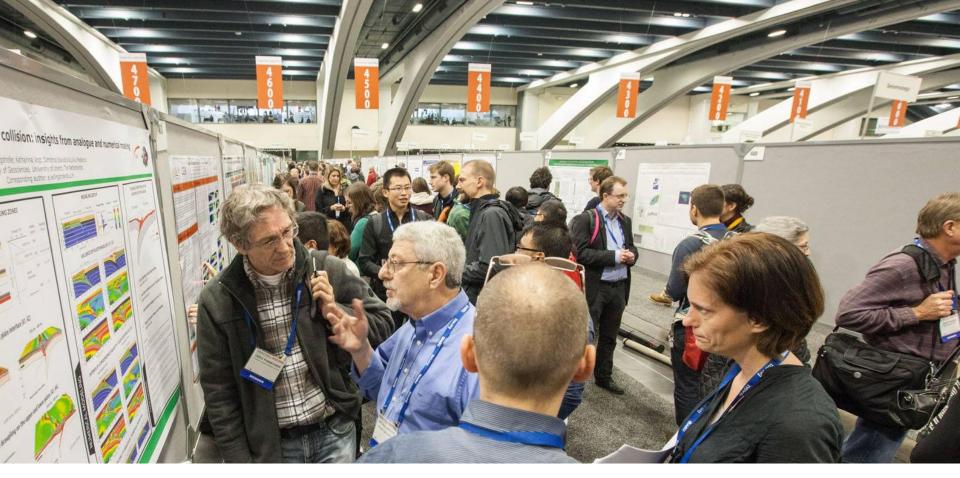


Call For Solutions

- For Earth and Space science data that advances community priorities
- Projects done with community partners
- Winners receive \$15,000 in Amazon Web Service
 Credits to move their solution to the cloud
- Winners featured at an "unhackathon" to share codesign strategies
- **Deadline:** 16 October (+2 weeks)
- www.thrivingearthexchange.org/sharingsolutions







We promote discovery in the the Earth and Space Sciences







for the benefit of humanity





Community Science



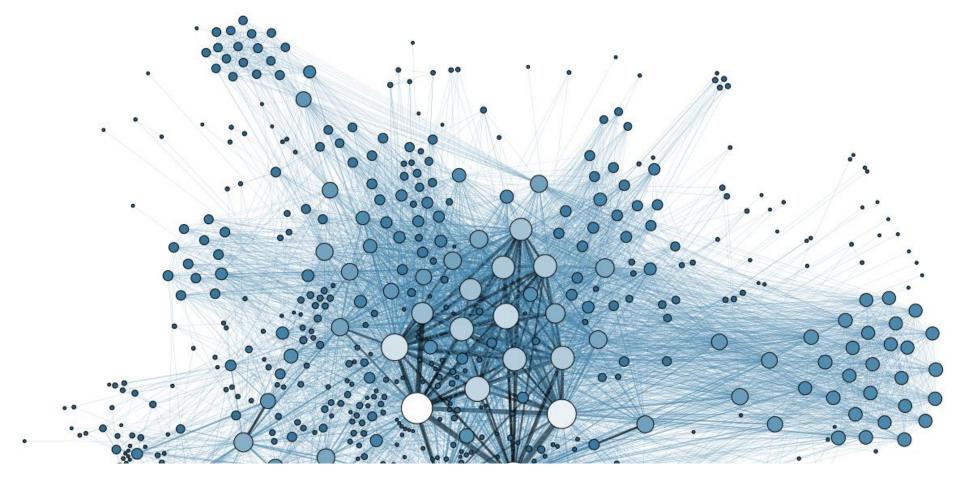




Last Mile







Exchange



Powered by AGU



Exchange, connecting scientists, community leaders and sponsors providing resources that **Sponsors** help them build and share local solutions **Solutions** with Solve **Impact** Share **Community** Leaders Scope New Match Research Questions **@AGU** AGU.ORG **Scientists** 8



Integrating Met Data for Improved Water Management

Barren River, KY

Learning from Pilots

What we learned	How we responded
Connecting with community groups is time intensive; not all are ready for TEX	Work with partners who can introduce us to TEX-ready groups
Many, but not all, AGU scientists have the right skills for community work, even if they haven't done it	Identify scientists with strong collaborative skills and provide modest coaching
Community groups want partners first, solutions second	Focus on matching, then help teams leverage tools, solutions, and resources
Community priorities and academic rewards can be misaligned	Make TEX work pro-bono; define scientist role carefully

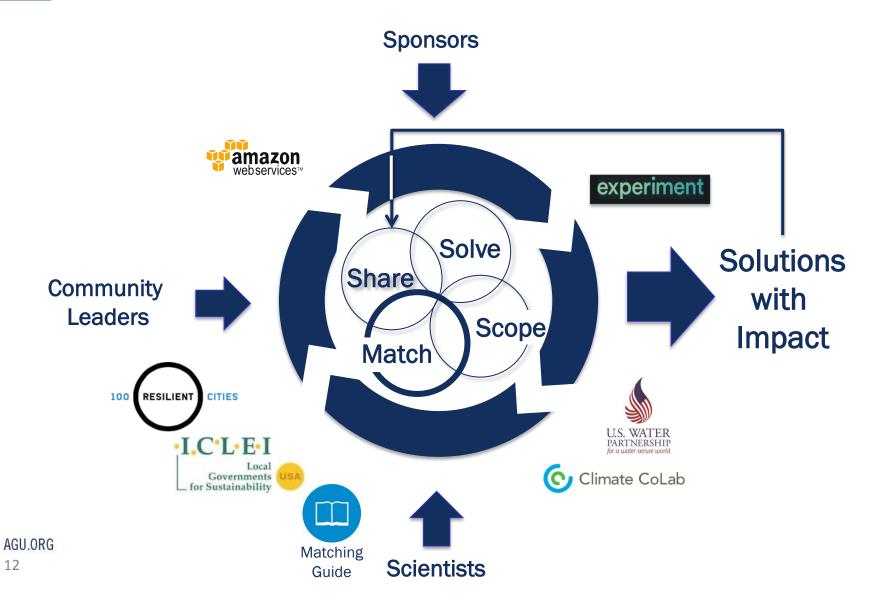


2014-2016: Scaling Up

- Develop partners that expand TEX's reach and offerings
- Start with Match: Help community groups and scientists connect and complete impactful projects
- Use high-touch interaction with people to design infrastructure people can use more independently



Partners Extend TEX Capability





Partners to help us *Match*

Washington DC: heat-resistant development

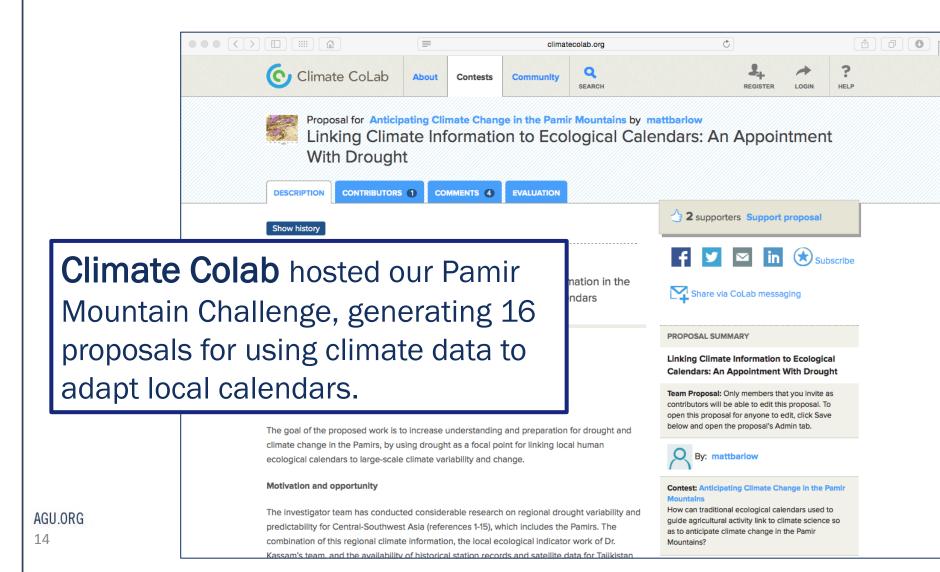
Granite City IL: engaging community members in air quality monitoring

Horn of Africa Regional Environmental Center looking for remote sensing expertise to guide water and land use management



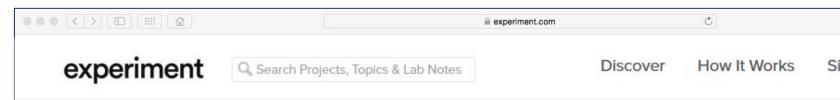


Partners to help TEX projects scope @AGU and solve





Experiment.com: Crowdfunding to help TEX projects *solve*



Investigating Indoor Air Quality in Northeast Denver

By Ashley M. Collier, George Ware, PG Iwasaki, LaShonn Billingsley, Debbi Main, Raj Pandya, and Brian Fauver

Backed by Gail Ryan, Denny Luan, Billy Williams, Janice Johnson, Ricardo Piedrahita, Brian Amstutz, Mary McAfee Sealing, Alexa Capareda, Benjamin Fuoss, Kenneth Krueger, Rajul Pandya, Gina McAfee, George Ware, Vidyut Pandya, Brian Fauver, and 20 other backers >

Denver neighborhoods and University of Colorado researchers are **crowdsourcing** to raise money to test new low-cost methods to test for leaked dry cleaning chemicals



\$4,250

Raised

100%

Funded on 8/26/

Amazon Web Services: Cloud Services to *share* TEX solutions











Sample Projects



Tools to enable citizens to collect air quality data and identify pollution hot spots.



Using climate model data to help city planners mitigate future heat vulnerability.



Water decision tools that use local mesonets



Competitive Solutions:

- Development team includes city or community member(s)
- Address a local need
- Use Earth and space science data or models
- Make a measurable Impact.
- Are relevant to other communities
- Development team has the capacity to work in the cloud
- One winner for best student-led team



The Judges

J.R. Killigrew ICLEI USA

James Pizzuto
University of Delaware

Vijay Raghavan Cisco

Yang Hong
University of Oklahoma and Tsinghua University













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- D' - L-

Brad Dispensa

Kathleen Bogan

Amazon Web Services

Information System

National Integrated Drought

Mahmud Farooque University of Arizona

