Visualizing data to build climate resilience

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The Challenges

1. We live in a world of overwhelming data – or sometimes no data at all.
2. We contend with fragmented resources, websites and platforms.
3. We’re missing critical feedback mechanisms.
4. Climate datasets are not user-friendly.
5. Data from many sectors are required for resilience planning.
Building Resilience Through Data

Goal of the public-private partnership

To make it easier for people around the world to find and access data for climate adaptation and resilience planning

The Platform

The Partnership
The Partnership

- Sharing data, technology, and technological expertise;
- Serving a networking and facilitation role;
- Interoperability across different data products and platforms;
- Developing products and guidance;
- Supporting applications use and testing

Coordination & Core
- World Resources Institute
- Future Earth
- United States Global Change Research Program

Public Sector
- NOAA
- NASA
- Sonoma County Climate Resilience Team
- Group on Earth Observations

NGO & Academia
- American Society of Adaptation Professionals
- Collider
- EcoAdapt
- SIP
- Intelligent Ecosystems Institute
- KITE
- ISCAR
- Pepperwood Preserve
- Resilience Brokers

Private Sector
- Acclimatise
- Adaptation International
- Amazon Web Services
- Azavea
- CARTO
- Climate Resilience Consulting
- Coastal Risk Consulting
- Descartes Labs
- Earth Knowledge
- Esri
- Forum One
- Google
- Microsoft
- RPS
- The Weather Company
- Vizonomy
PREPdata Features

**EXPLORE** | Find, visualize, and overlay datasets

**INTERACT** | Create and share custom graphs and charts

**CUSTOMIZED DASHBOARDS** | Monitor indicators of interest for specific geographies

**STORIES** | Share insights and use case studies with global community

**RESOURCES** | Find a variety of climate resources
Explore: Discover climate, physical, and socioeconomic data
Downscaled climate scenarios with projections for two greenhouse gas emissions scenarios: RCP 4.5 and RCP 8.5.
Downscaled Climate Data: Derived Indicators from NEX-GDDP
Upload & Interact with Local Data

Explore

Climate
How is climate changing?

TEMPERATURE
Average Low Temperature, Average High Temperature, Heating Degree Days, Cooling Degree Days, Average Temperature

PRECIPITATIONS
Cumulative Precipitation, Dry Spells

EXTREME EVENTS
Fires (VIIRS), Landslide Potential, Extreme Heat Days, Extreme Precipitation Days
Interact: Create and share custom maps, graphs, and charts
Customized Dashboards: Data, indicators & Stories for climate resilience
Climate Change Knowledge Portal: Embedding PREP into local knowledge transfer
What’s next for PREP Partnership?

• Bringing new partners into leadership roles
• Re-engaging Working Groups and further developing the platform
• Develop a business model
• Future Earth working to support 2 new staff
What’s next for PREPdata?

- Potential applications in additional states in India, and new applications in Africa
- Expanding municipal and county use in the US
- Expanding data collection and improving interoperability
- More partners contributing data and tools
PREPdata + Climate Explorer

- Improve usability
- Increase interoperability of climate resilience tools
- Establish shared vocabulary between resources within resilience ecosystem
Thank you!

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For guidance on using PREPdata, to suggest datasets, or to provide feedback on the platform, contact:

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