PREPdata
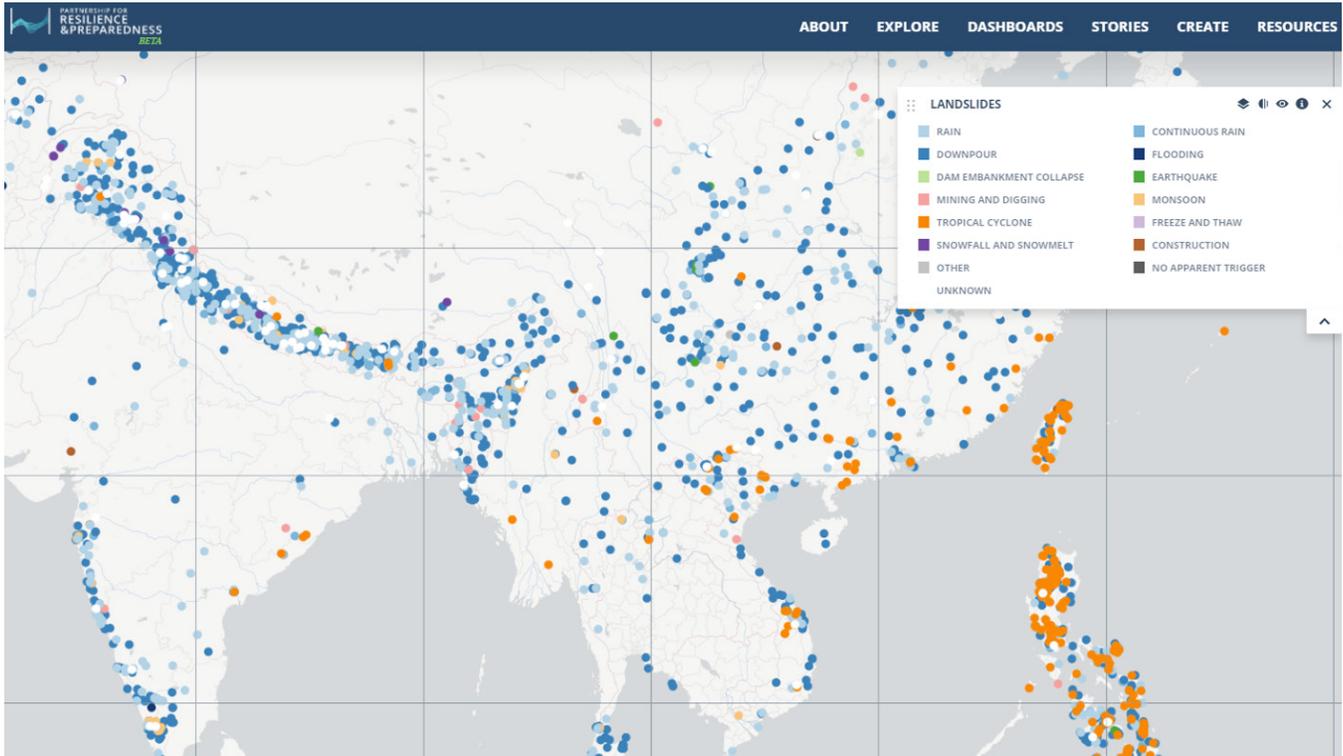## Visualizing data to build climate resilience

THE CHALLENGE: Decision-makers are grappling with tough questions in a changing climate. Should city officials in the Caribbean update building codes to climate-proof infrastructure against storm surges from monster hurricanes like Maria or move to higher ground? Should farmers in drought-prone regions of sub-Saharan Africa adopt more efficient irrigation systems or switch to climate-resilient seeds? Should an Indian company struggling with high energy costs and power outages triggered by rising temperatures invest in more affordable renewable energy systems or relocate its factory to a cooler climate?

To begin answering these questions, decision-makers, from urban planners to corporate executives, need reliable, comprehensive data. But a confusing and oftentimes overwhelming landscape of datasets, platforms and tools frustrate their efforts to plan for climate change. In navigating the many resources available, users typically encounter information that is too complex or technical to understand, conflicting datasets, inconsistent time frames and formats, and outdated static, PDF-style reports. As more and more platforms come online, there is a growing disconnect between data providers and users, meaning that the information that adaptation planners need is not always collected or readily available.

PREPDATA: PREPdata is a free, open source data platform that provides the accessible, curated data that decision-makers need to analyze vulnerability and build climate resilience. It allows users to **easily access** highly credible climate, physical and socioeconomic datasets from sources like NASA, NOAA, USGS, ESA and more; map them to **visualize** a specific region's vulnerability; track the indicators most relevant to their work on **customizable dashboards**; request that data providers add new tools or datasets to PREPdata; and **share their stories** with adaptation practitioners around the world. The platform's wide-ranging datasets include extreme weather events, precipitation, drought and flood risks, social vulnerability, coastal energy facilities, landslides, sea level rise, global urban heat island effect, reservoirs and dams, global cropland extent and more.

Visit prepdata.org

THE PARTNERSHIP: PREPdata is an initiative of The Partnership for Resilience and Preparedness (PREP), which was formed in 2016 around a simple principle — the belief that everyone should have access to actionable climate, physical and socioeconomic data. Today, PREP brings together over 30 partners from leading government agencies, research institutions and technology companies. We empower communities, governments and businesses around the world to build resilience to climate change by improving access to data, creating best-in-class tools and helping decision-makers and practitioners navigate the increasingly complex resilience planning landscape.

PREP IN ACTION: In 2018, the Partnership will work with partners at city, state and national levels across the globe to use PREPdata to plan for climate change. For example, we will support the Madhya Pradesh and Uttarakhand state governments in India to implement their climate adaptation strategies by building their capacity to analyze vulnerability with PREPdata, creating individualized dashboards to help officials track climate hazards and gathering feedback to enhance the platform for users across India. The Partnership plans to undertake similar projects with adaptation practitioners and decision-makers around the world, particularly in the Global South, to refine PREPdata and better serve a broad community of users.

Current PREP Partners

GOVERNMENT: National Oceanic and Atmospheric Administration (NOAA), the National Aeronautics and Space Administration (NASA), Department of the Interior (DOI), the US Global Change Research Program (USGCRP) and the Sonoma County Climate Resilience Team.

NGOS: American Society of Adaptation Professionals (ASAP), The Collider, Earth Science Information Partners (ESIP), EcoAdapt, Future Earth, Group on Earth Observations (GEO), OSCAR Project, Pepperwood Foundation, Stockholm Environment Institute (SEI), and SysTem for Analysis, Research & Training (START), World Resources Institute (WRI) and the York Institute for Tropical Ecosystems (KITE group).

PRIVATE SECTOR: Acclimatise, Amazon, Azavea, CARTO, Coastal Risk Consulting, Descartes Labs, Earth Knowledge, Environmental Systems Research Institute (ESRI), Forum One, Google, Intelligent Ecosystems Institute (IEI), Microsoft, Vizonomy, Vizzuality and The Weather Company, an IBM Business.

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