UNIVERSITY OF CALIFORNIA, BERKELEY

INCREASING DATA ACCESSIBILITY AND CLIMATE RESILIENCE PLANNING SUPPORT THROUGH CAL-ADAPT

PRINCIPAL INVESTIGATOR: **Maggi Kelly,** Professor, Department of Environmental Science, Policy and Management

PROJECT GRANT $824,853.00 Duration: 30 Months	PRIORITY RESEARCH AREAS ☑ Increasing Data Accessibility and Planning Support for State, Local, and Regional Climate Change Planning

Research supported by the State of California has provided high quality, peer-reviewed data and scientific analysis of climate-related factors such as sea level rise, inland flooding, storms, wildfire, and extreme heat events, which can be integrated into locally relevant climate action plans and adaptation strategies through the Cal-Adapt web application. The goal of the proposed project is to leverage the state's ongoing investment in Cal-Adapt to broaden the scope and data available in Cal-Adapt so that it can more effectively support resilience efforts beyond the energy sector. The proposed project will build upon the tool's existing rich data, easy-to-use dynamic visualization tools, and interactive and dynamic web architecture.

PARTNERS:	➢ Greenlining Institute ➢ Local Government Commission ➢ United States Geological Survey ➢ Eagle Rock Analytics
RESEARCH ACTIVITIES	The user-oriented research approach begins with needs assessment outreach efforts to a broad range of user groups. The team will facilitate user-needs assessment workshops and webinars to identify new datasets to incorporate onto Cal-Adapt and new features and develop targeted tools. Feedback will be aggregated to guide the development of new data tools. A user-centered website design approach will be employed to foster collaboration throughout the development process to build effective and easy-to-use web applications.
FACILITATES GREENHOUSE GAS EMISSIONS REDUCTIONS:	The enhancements to Cal-Adapt described here will help achieve the state's statutory energy goals by providing needed actionable information on climate change consequences on California's communities, natural resources, and infrastructure. Through the easy-to-use visualizations and data accessibility, complex climate datasets can be made available to stakeholders in a format that is easily understood.
BENEFITS DISADVANTAGED AND LOW INCOME COMMUNITIES:	Key partners will help to identify and reach out to organizations who may benefit from information about climate change on a local level. Workshops targeting community-based organizations in disadvantaged communities will help participants understand climate change science and how to use Cal-Adapt and other local climate tools. Researchers will build new outreach and training modules for local communities and individuals to implement Cal-Adapt's data and tools to help incorporate climate change information into community planning.
ENGAGEMENT ACTIVITIES	Provide communication and outreach between the scientists who are producing new climate change information and users of the information. Convene an Advisory Committee to advise on new tools, data services, and visualizations. Key collaborators will help lead the effort to identify and reach out to appropriate organizations and individuals who may benefit from information about climate change on a local level. Conduct a comprehensive series of community engagement workshops designed to introduce users to the data, tools, and capabilities in Cal-Adapt, and to elicit feedback on what additions and enhancements would improve usability. Produce webinars and presentations throughout each phase of the project. Train users to successfully apply the platform in their climate resilience and adaptation efforts.