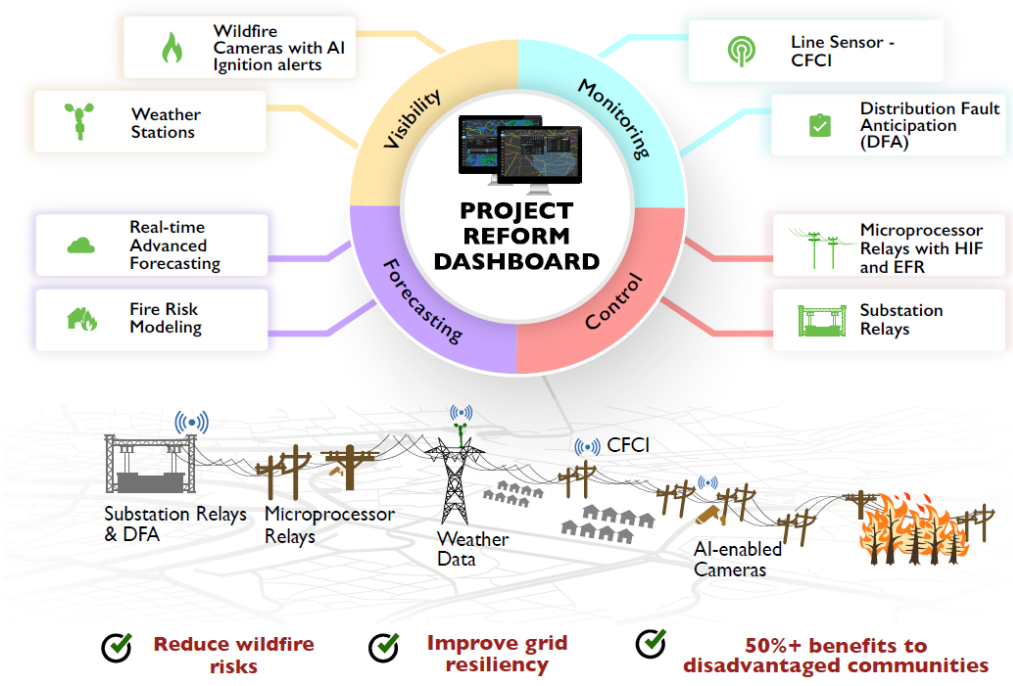


# Project REFORM: Resiliency Enhancement for Fire mitigation and Operational Risk Management





**Key Takeaway:** Project REFORM focuses on enhancing PacifiCorp's control center capabilities by establishing a holistic ecosystem of interoperable technologies that significantly enhance situational awareness to reduce or mitigate wildfire occurrences and improve grid flexibility, reliability, and resiliency. REFORM will include a diverse set of innovative, scalable smart grid technologies such as distribution fault anticipation (DFA) devices, advanced relays with wildfire protection features and communicating fault circuit indicators (CFCI) to analyze real-time system health using disturbance and fault data. REFORM will also enhance situational awareness through sophisticated weather forecasting models and wildfire detection network (WDN) AI-enabled cameras. All systems will be fully integrated to provide a holistic operational dashboard to control center operators, engineers, field operation crews and emergency operation center personnel.



### Expected Benefits

- 5-minute improvement in System Average Interruption Duration Index (SAIDI)
- 4x improvement in advanced forecasting capabilities for wildfire risk management
- Measurable improvement in wildfire risk metrics
- Enable less than 48-hour notification for Public Safety Power Shutoff (PSPS) during wildfire events

### Grid Benefitting Outcomes

-  Enhancing interoperability and data architecture of systems
-  Preventing faults that may lead to wildfire /other system disturbances
-  Improving the visibility of the electrical system to grid operators
-  Anticipate and mitigate the impacts of extreme weather

### DOE funds and PacifiCorp cost share

- DOE funds = \$50M
- PacifiCorp cost share = \$53M
- Total project cost = \$103M

### Partners and Key Personnel

**PacifiCorp:**  
Principal Investigator: *Rohit Nair*  
SCAN, CFCI: *Blake Wayment*  
Relay PM: *Kevin Schiedler, Alex Vaz*  
Wildfire Detection: *Cara Glennon-Olsen*  
Relay Eng: *David Heffernan*  
Advanced Forecasting: *Steven Vanderburg*  
DEIA: *Emily Weaver*  
Tribal Engagement: *Christina Medina*  
Emergency Response: *Nora Yotsov*  
Resiliency: *Ryan Harvey*  
Labor Engagement: *Nanette Quitt*

**Sub-recipients:**  
University of Utah – *Dr. Masood Parvania, Dr. Tabitha Benney*  
PSSC Labs – *Mike Gaerttner*  
Pano AI – *Sean Donohue*  
Crater Lake EJATC – *Lance Corley*

**About PacifiCorp:** PacifiCorp serves over 2 million customers across 144,000 sq. miles in California, Idaho, Oregon, Utah, Washington, and Wyoming. As the application's prime recipient, PacifiCorp is in a unique position to demonstrate the benefits of the proposed technology across the western United States on a largely rural and disadvantaged customer base.

# COMMUNITY ENGAGEMENT MODEL & IMPACT



\*Organizations listed in the figure are illustrative; do not represent an exhaustive list

Over 50% Project Benefits Flow to Disadvantaged Communities

