Climate and natural hazards risk, resilience, and adaptation services

We help you understand your risks, prepare and bounce back from the impacts of climate change, extreme weather events and other natural hazards.

Most businesses, public agencies, and utilities know they must act now to prepare for the impacts of climate change and natural hazards such as earthquakes, flooding, extreme heat, and wildfires. National studies indicate that hazard preparedness and mitigation investments can save up to $13 in recovery costs for every $1 invested. However, identifying where to begin and how to invest your limited resources can be overwhelming. With many potential risks and solutions, where do you prioritize your investments? And how do you balance competing needs and objectives?

Haley & Aldrich helps prepare communities, buildings, and infrastructure for an uncertain future by anticipating risks and vulnerabilities, identifying strategies to address them, and working with partners to prioritize their needs and objectives, to create an actionable road map for investment. With this approach, you can protect and adapt your most critical assets, maintain operational continuity, reduce recovery time, and support community resilience.

We work with partners to establish a shared understanding of your unique resilience, vision, goals, and objectives. We look at the critical functions and operational needs of your facilities, infrastructure, and systems — as well as the people and communities served — to understand the potential impacts they could experience due to climate-driven and

geological hazards. Our team of experts then guides you to tailor mitigation and adaptation strategies to your specific needs, goals, and risk tolerance. We develop a framework to guide implementation, including phased improvements, capital investments, monitoring, and maintenance, leveraging external funding to advance resilience priorities.

Talk to our service experts

Adam Tucker

Senior Vice President, Sustainable Business Practices

Daniele Spirandelli

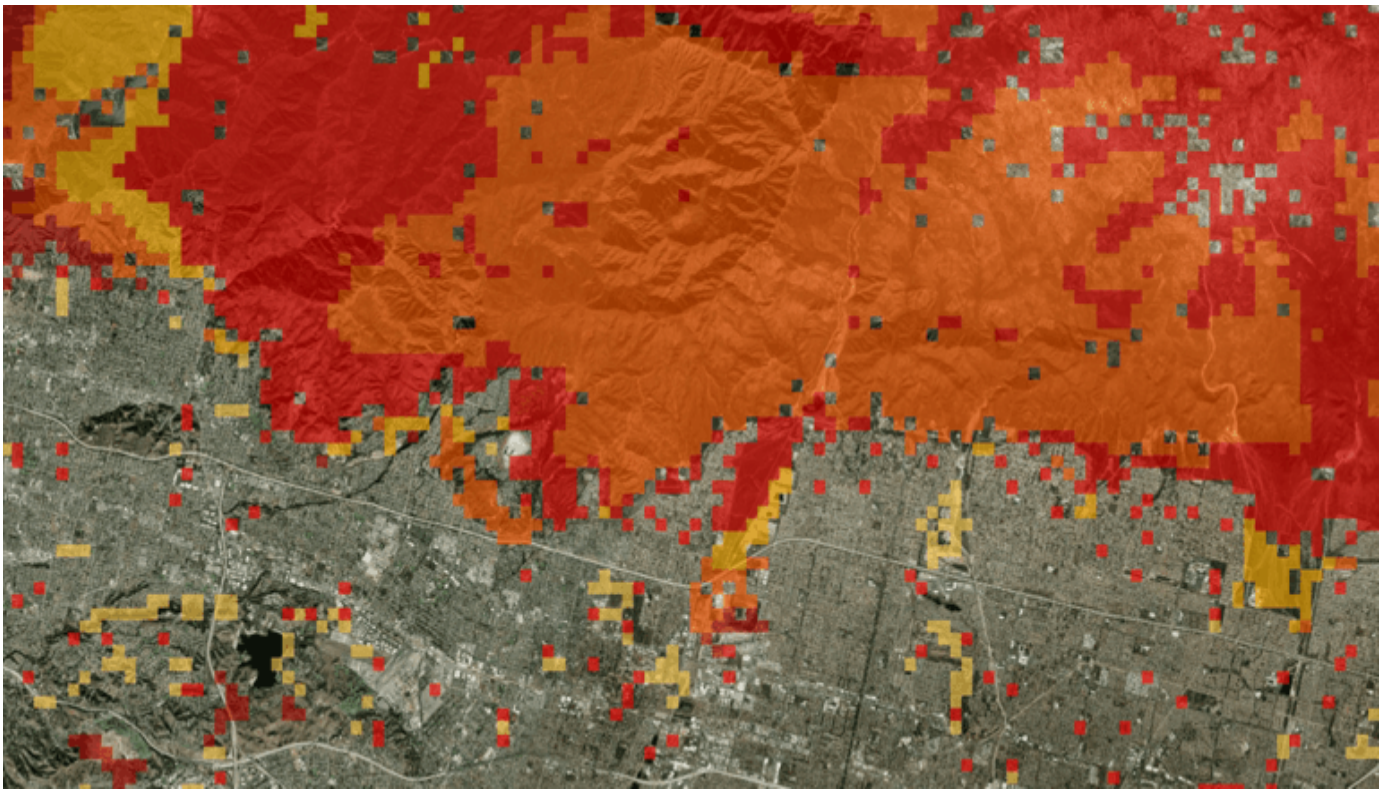
Senior Associate, Climate Resilience Specialist

Laura Hanson

Senior Resilience Project Manager

Service highlights

- Climate vulnerability assessments for coastal hazards including sea level rise, flooding, erosion
- Cascadia Subduction Zone earthquake and tsunami risk assessment, engineering, and planning
- Wildfire vulnerability assessments and modeling
- Multi-hazard risk and vulnerability assessments
- Physical and transition risk assessments
- Property resilience assessment
- Business continuity risk assessments
- Climate adaptation planning and resilience strategies
- Hazard mitigation planning and engineering solutions for transportation infrastructure, water and wastewater systems, Watersheds and water resources, and energy systems
- Mitigation planning and engineering solutions for private firms and campuses



Burn probability data for the LA/San Bernardino area near the mountains to the north.

Leveraging data, technical expertise, and stakeholder input to help you achieve your resilience goals

Haley & Aldrich's planning and engineering experts lead complex, cutting-edge resilience efforts nationwide. Clients entrust us with protecting their most important priorities: communities, livelihoods, and essential infrastructure. For example, we led a risk assessment for the Oregon Department of Energy to evaluate statewide energy systems' vulnerability to wildfires, floods, earthquakes, tsunamis, and storms, incorporating future climate projections. In California, we worked to identify wildfire risk to rail infrastructure — information that will inform disaster preparation and long-term planning. For a nationwide client, we conducted a natural hazard risk and business impact assessment for a portfolio of sites to reduce business continuity risk and protect livelihoods.

These resilience engineering projects exemplify what we do best: integrate data, science, technology, and relationship-building to strengthen the built environment and help people and businesses thrive. Our approach is scalable from individual facilities to infrastructure systems, communities, and investment portfolios. We support clients throughout the entire process from planning and risk assessment to funding, design, construction, and monitoring.

Haley & Aldrich provides consulting services for resilience engineering, serving clients in:

- Aerospace
- Education, healthcare, and cultural institutions
- Energy
- Environmental trusts
- Government infrastructure
- Industrial and manufacturing
- Mining

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- Real estate developers