



Nature-Based Solutions



PACIFIC INSTITUTE

CHALLENGE

It is estimated that more than half of the world's wetlands have been lost since 1900. In nearly every water basin around the world, the quality and quantity of water is in decline.

Nature-based solutions use or mimic natural processes to meet societal and environmental needs. By **restoring, protecting, and managing key ecosystems**, including forests and wetlands, we can provide more water for local communities and improve the quality of that water. Nature-based solutions also increase biodiversity and reduce atmospheric greenhouse gas concentrations.

RESPONSE

The Pacific Institute is increasing the use of nature-based solutions. We **develop leading-edge guidance and tools** to make it easier for non-profit organizations, public-sector agencies, businesses, utilities, and communities, to implement and invest in these solutions. These solutions support climate-resilient water systems in communities and ecosystems, while reducing the severity of climate change. Additionally, our work informs policies at the regional, state, national, and global level.

“Collaborating with the Pacific Institute and partners to identify specific remote sensing datasets that are appropriate for incorporation into the next stage of the NBS Benefits Explorer is helping both our organization advance the research and utility of tools such as this.”

—**Stephenie L. Granger**
Manager, NASA Western Water Applications Office



PRIORITIES

Biodiversity Benefit Accounting

The Pacific Institute, along with LimnoTech, The Nature Conservancy, and Second Nature Ecology and Design are collaborating to develop standardized methods for reporting the biodiversity benefits of corporate water stewardship activities. This will provide guidance on prioritizing activities for ecosystem improvements and monitoring their biodiversity benefits. A shared understanding of biodiversity benefits encourages companies to adopt water stewardship activities across sectors.

Salton Sea Revitalization

The Pacific Institute has played an active role conducting critical research at the Salton Sea for more than 27 years, writing reports and articles highlighting the ecological and economic costs of a shrinking lake. We assess the impacts of increased water-use efficiency and declining inflows with a focus on playa exposure, dust emissions, and public health.

The Pacific Institute promotes the construction of wetland habitat to benefit at-risk species and diminish the amount of dust blowing off exposed lakebed. The Pacific Institute's research and advocacy has led to more than half a billion dollars of state and federal Salton Sea funding, the recent commissioning of 2,000 acres of wetland habitat, and the establishment of the Salton Sea Conservancy, the first new conservancy in California in 15 years.

Nature-Based Solutions and You

When you support the Pacific Institute, you advance nature-based solutions and the many benefits they enable.

Your gift will:

- Support more climate resilient communities and ecosystems, while reducing the severity of climate change.
- Provide leading-edge guidance and tools to make it easier for non-profit organizations, public-sector agencies, businesses, utilities, and communities to implement and invest in these solutions.
- Fund national assessments that highlight case studies and offer frameworks.
- Improve degraded ecosystems, help sequester carbon, and manage the effects of climate change.

We invite you to support nature-based solutions and create climate-resilient water today.

To learn more and take action:

- **Contact:** Nicole Wickenhauser, Chief Growth Officer, at nwickenhauser@pacinst.org
- **Visit:** <https://pacinst.org/our-impact-areas/nature-based-solutions/>
- **Donate:** pacinst.org/support/



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REIMAGINING WATER FOR A CHANGING WORLD

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