



Cascadia Resilience Center

Illuminating the Best Scientific Knowledge for Long-Term Resilience

A non-profit collaboration of the
International Centre for Earth Simulation (ICES)
and *Metanoiaa*

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The Cascadia Resilience Center (CRC) will combine advanced visualization tools with high performance computing to create predictive scenarios for assessing risks across the Cascadia Region. Such risks will include disruptions to the climate, the environment and society. The CRC is a collaborative research hub that will engage the general public as well as private, university and governmental partners spanning Cascadia.

Through improved modeling, simulations, and visualizations, the following outcomes will be realized:

- Strategic and tactical scenarios that contribute to a safer and more resilient society, that help prepare for and avoid future threats and disasters;
- Public education about climate and environmental change, and related impacts on societal health and public safety;
- Protecting lives and reducing economic losses (through a more comprehensive understanding of risk, vulnerability, and prevention).

The CRC will gather regional and relevant global data sets from research partners that include state universities, national laboratories, government agencies and technology companies. The goal is to create integrated simulations of future regional change – visual stories that will both point to latent risks as well as to investment opportunities.

The Center's innovative approach will embrace open collaboration. It will deliver high-value, big-data, scientific modeling and visualization services in support of the research efforts of our partner network. Output will be provided in open access channels for both policy makers and the general public.

Funding will be derived from grants and fee-for-service contracts. CRC's advanced scenario planning tools will deliver significant value to three distinct groups:

- Governmental and private sector planners – to improve public policy decisions around growth, health and safety;
- The general public – to advance eco-literacy and improve knowledge of regional change;
- Entities that manage risk, assets, and critical infrastructure – to enhance future asset valuations through integrated forecasting models.

The Cascadia Resilience Center initiative will stimulate broad civic engagement in the design of thriving communities, which are needed in this period of epic global change.

Learn more at <http://www.icesfoundation.org/Pages/CustomPage.aspx?ID=97>