

AUGUST 2025

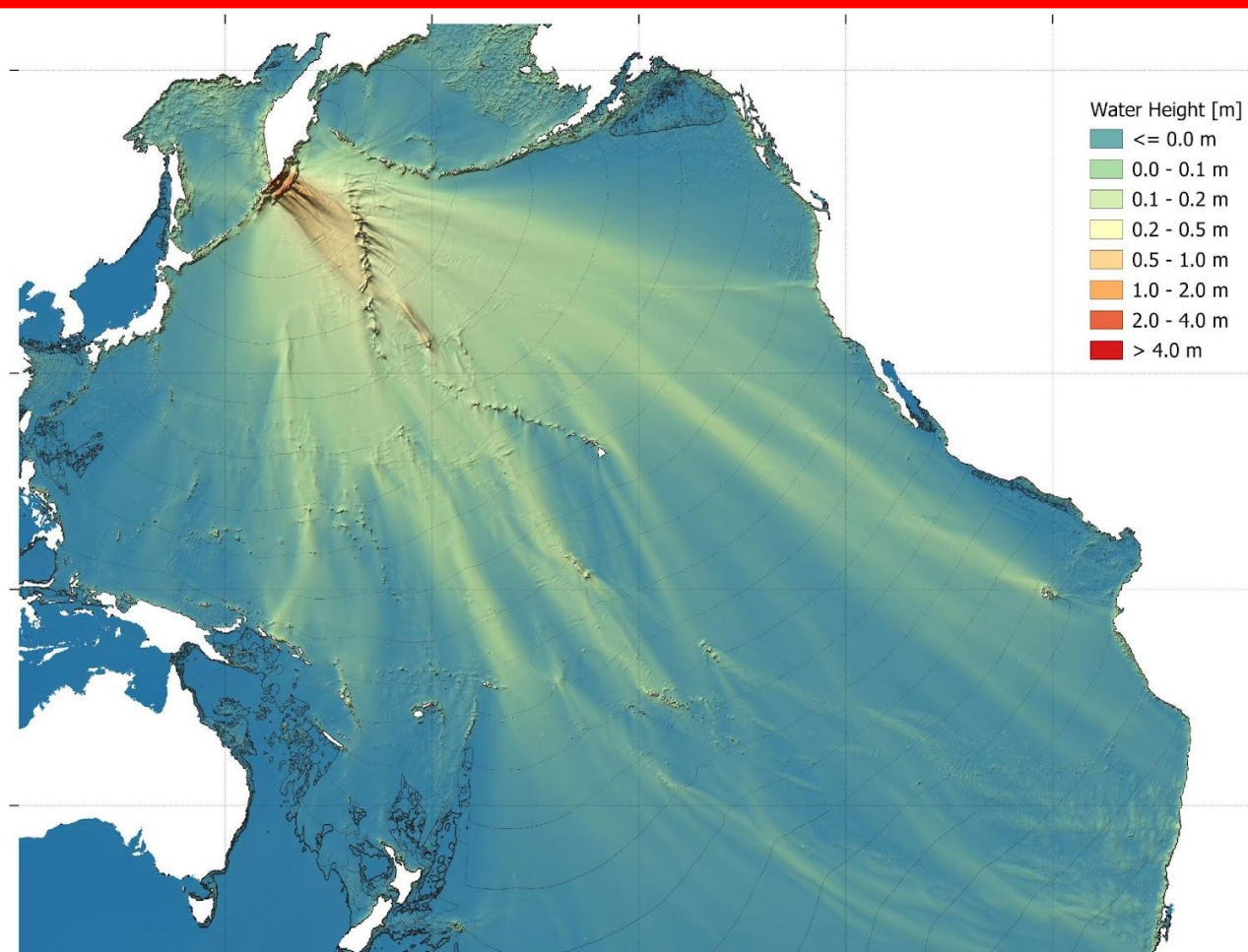



Tourism at Risk

Adapting Destinations to Climate
and Disaster Challenges via
Sustainability & Resilience Tools



James Daniell

CEO
Risklayer GmbH





MINERAL RESOURCES DEPARTMENT
SEISMOLOGY SECTION



To : All Media Outlets

From : Seismology Section

Subject : Tsunami Watch Message 1

Alert Level: Tsunami Watch

Date: 30/07/2025

Time: 01:24 PM

--- FIJI TSUNAMI WATCH STATEMENT (EQ RELEASE NO 457.) ---

THIS STATEMENT IS ISSUED FOR A TSUNAMI WATCH ONLY AND CURRENTLY APPLIES TO ALL COASTAL LOW LYING AREAS OF FIJI.

WE ADVISE THE PUBLIC AND PARTICULARLY ALL RESIDENTS ON LOW LYING COASTAL AREAS TO TAKE NECESSARY PRECAUTION AND BE ON STANDBY AND ALERT FOR THE NEXT AVAILABLE UPDATES.

ALL LOW-LYING COASTAL AREAS ARE TO EXPEREIENCE STRONG AND UNUSUAL CURRENTS AND UNPREDICTABLE SURGES AT THE SHORE.

WE ALSO ADVISE THE PUBLIC TO STAY TUNED TO LOCAL MEDIA CHANNEL FOR FURTHER UPDATES.

THE SEISMOLOGY SECTION OF MRD WILL CONTINUE TO CLOSELY MONITOR THE SITUATION DURING THIS TIME UNTIL THE THREAT IS OVER.

A MAJOR EARTHQUAKE HAS OCCURRED WITH VERIFIED PARAMETERS:

Description	Localisation
✧ Date/Time: 30/07/25 11:24:50 AM	✧ 104 km ESE from Kamchatka Krai, Russia.
✧ Magnitude: 8.7 Mw	✧ Longitude: 160.48 °E
✧ Depth: 74 km	✧ Latitude: 51.64 °N

Tsunami Information

✧ Tsunami Watch Period for the Fiji Group

SEISMOLOGY SECTION
MINERAL RESOURCES DEPARTMENT, FIJI.
PHONE: 2981611 EXT 29955, 29955, 29957
FAX: 2970029/2999910

Emergency alert
Wed, Jul 30, 04:13 pm

TSUNAMI ADVISORY: Strong and unusual currents and unpredictable surges at the shore are expected following a magnitude 8.8 earthquake near Kamchatka, Russia.

Strong currents and surges can injure and drown people. There is a danger to swimmers, surfers, people fishing, and anyone in or near the water close to the shore.

People on boats, live-aboards and at marinas should leave their boats/

Emergency Alert

now

! NDRRC: (10:55AM, 30July25) May banta ng tsunami mula sa dagat na nakaharap sa Kamchatka, Russia. PINAPAYUHAN ANG PUBLIKO NA LUMAYO AT HUWAG MAGTUNGO SA BAYBAYING-DAGAT. PINAPAYUHAN ANG MGA NAKATIRA SA MISOMONG BAYBAYING-DAGAT NA PANSAMANTALANG LUMAYO SA TABING-DAGAT.

Focus Areas

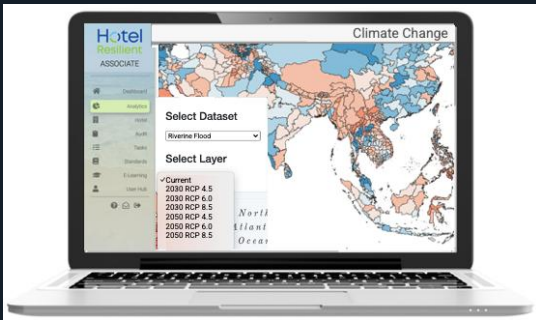
Destination Datasets for Hazard, Exposure and Vulnerability to different perils



Destination Resilience Strategic Planning + Capacity Development



Global Destination Climate and Risk Modelling



Destination Resilience Assessments and Dashboards



Destination Monitoring and Evaluation Framework

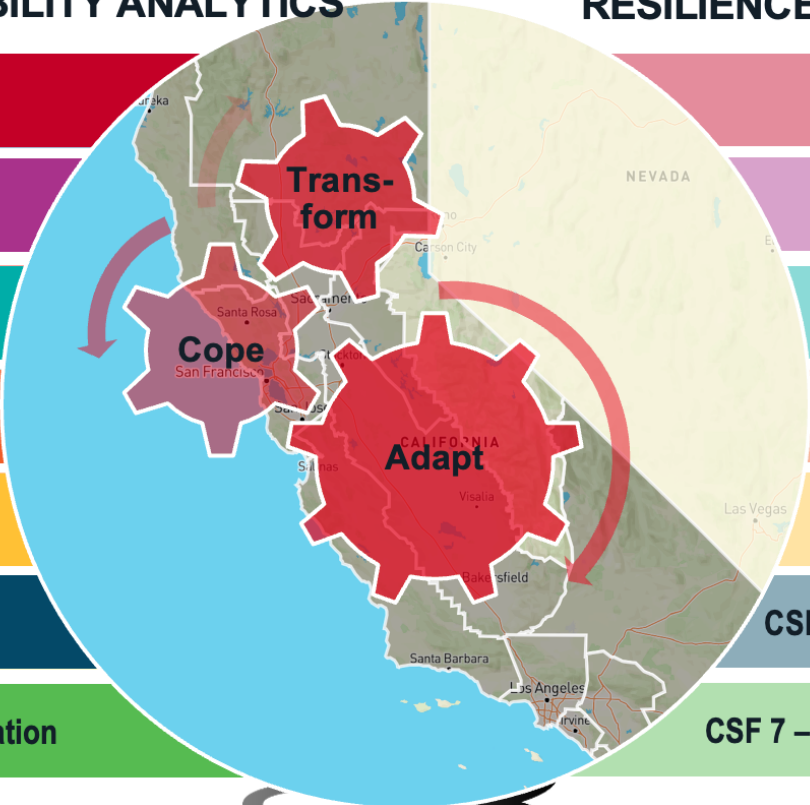
Risk Identification

Understanding Risks

Outcomes

RESILIENCE & SUSTAINABILITY ANALYTICS

- Tourism Risk
- Climate Adaptation and Mitigation
- Emergency Preparedness
- Climate Resilient Infrastructure
- Sustainable Tourism Growth
- Community Resilience
- Environmental Impact and Conservation



RESILIENCE & SUSTAINABILITY SCORECARD

- CSF 1 – Understanding Risks to Tourism
- CSF 2 – Managing Destination Resilience
- CSF 3 – Preparedness & Response
- CSF 4 – Investing in Resilience
- CSF 5 – Sustainable Tourism Growth
- CSF 6 – Community Well-being & Engagement
- CSF 7 – Environmental Awareness & Conservation

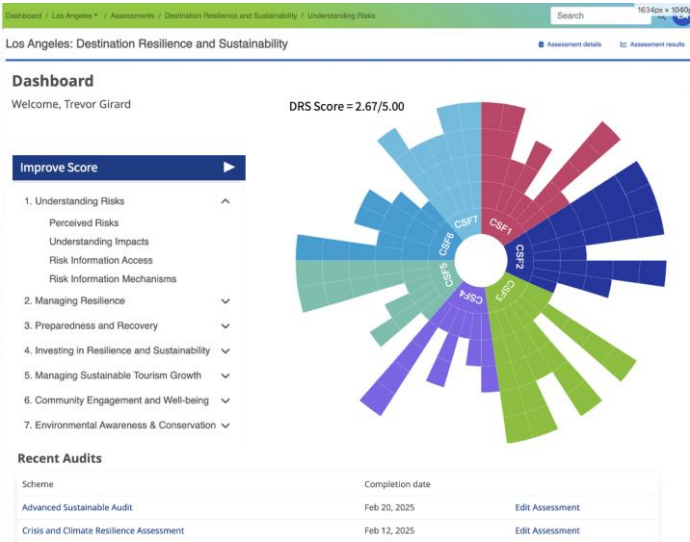
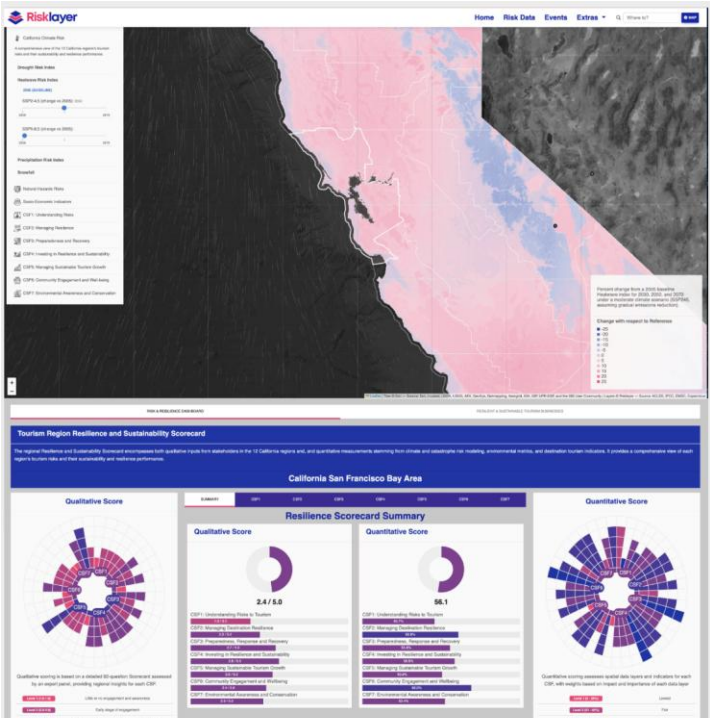
Risklayer Tools and Software Platforms



Destination Resilience and Sustainability Dashboard

Destination Resilience Strategic Planning Tool

Hotel Resilient



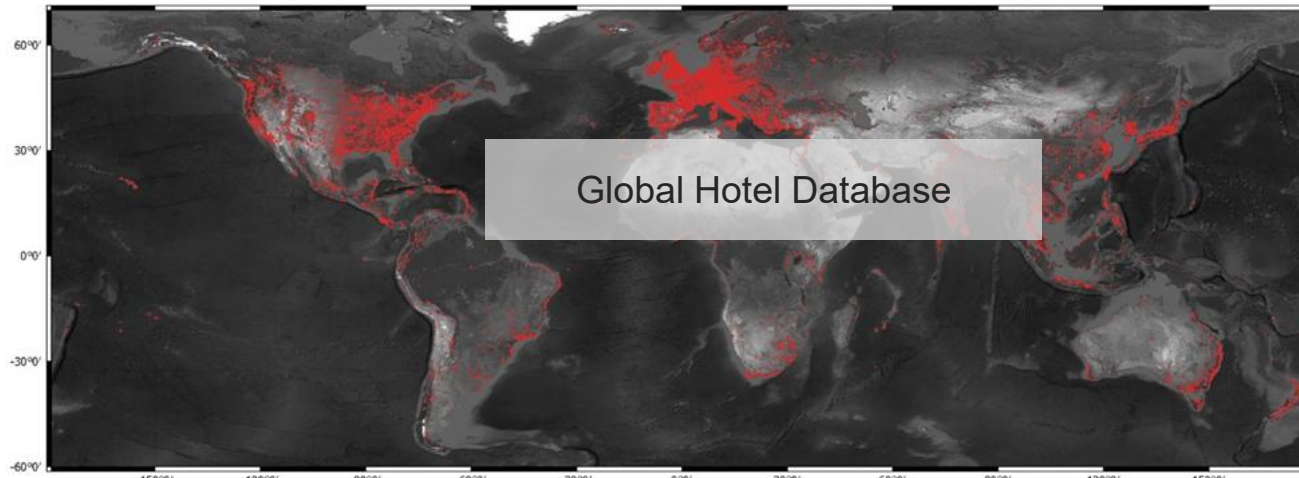
Discover Resilience and Sustainability Analytics and Profiles for 12 California Tourism Regions

Destination Resilience and Sustainability Strategic Planning Tool

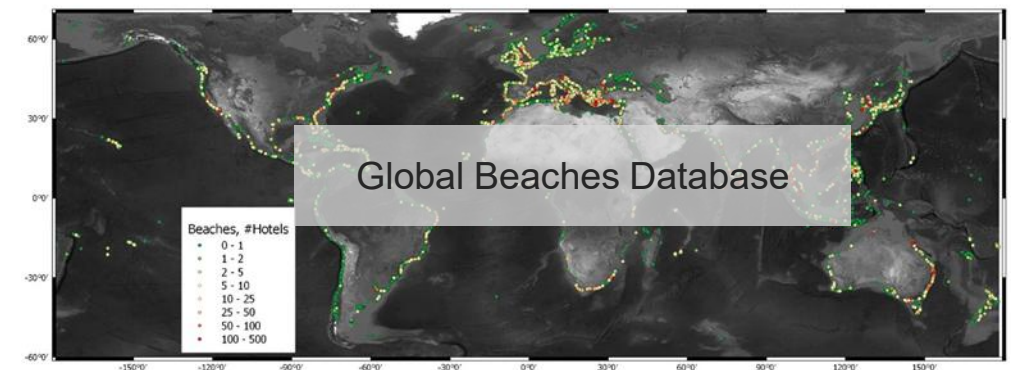
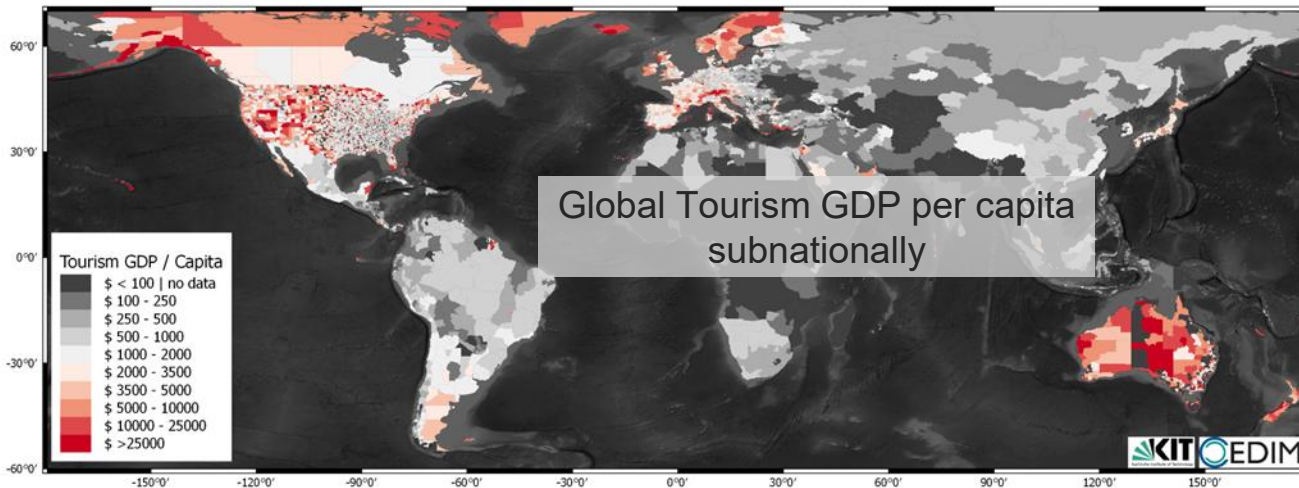
Discover Hotel Sustainability and Resilience Practices and Data

A few examples of our Global Tourism Exposure Databases

Over 1 million hotels, geocoded and footprinted

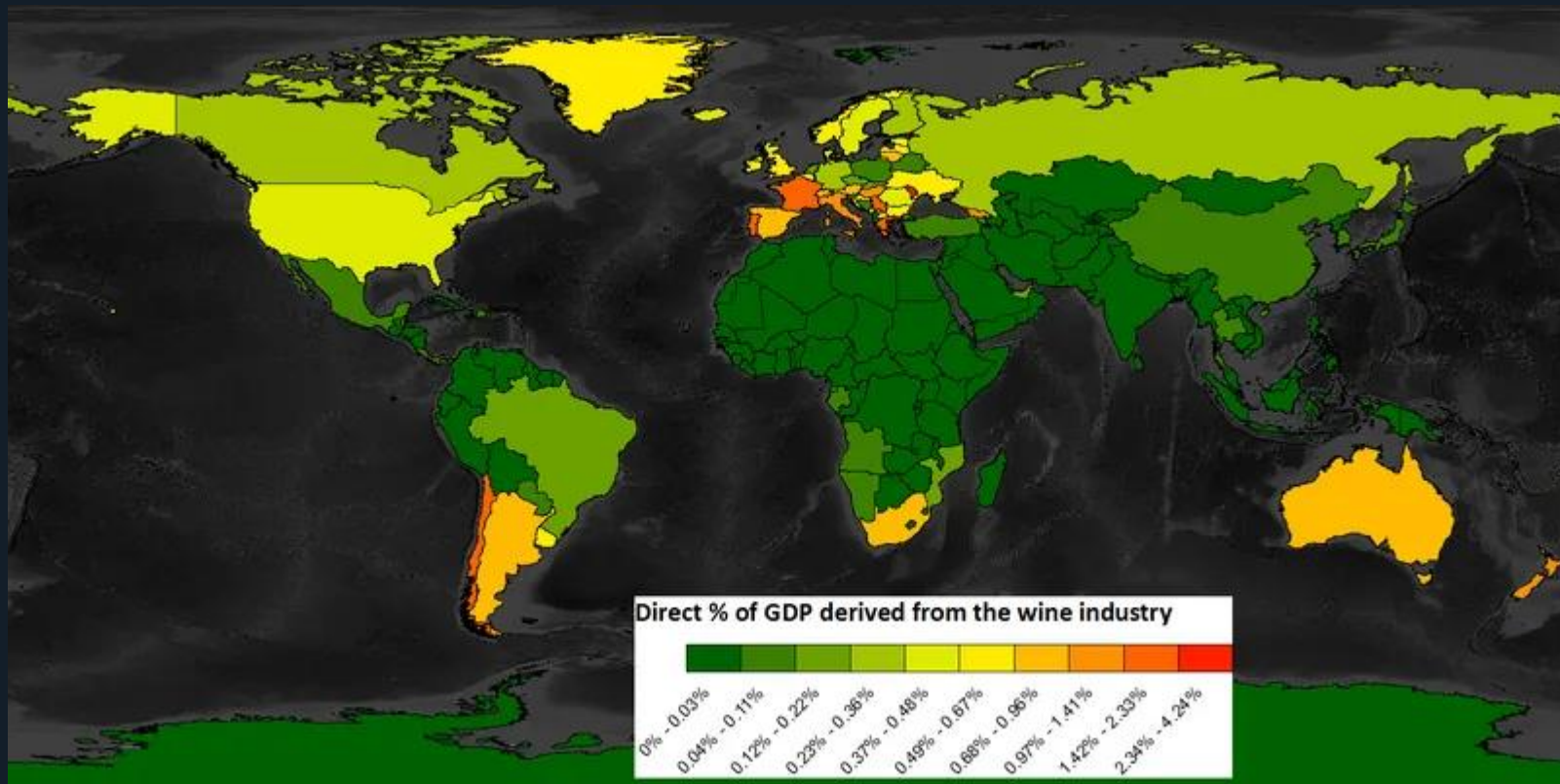


Over 110,000 wineries and around 7500 wine regions are named and geolocated globally through our database.



The First Wine Region Risk Index

- A global risk index for wineries and wine regions – over 143 countries with 7500+ wine regions, \$300 bn direct GDP per year and much more through tourism
- **From wine risk to wine resilient:** Has been used with wineries since to identify risks and provide adaptation options for their vines, capital, employment, cellar door + supply chains



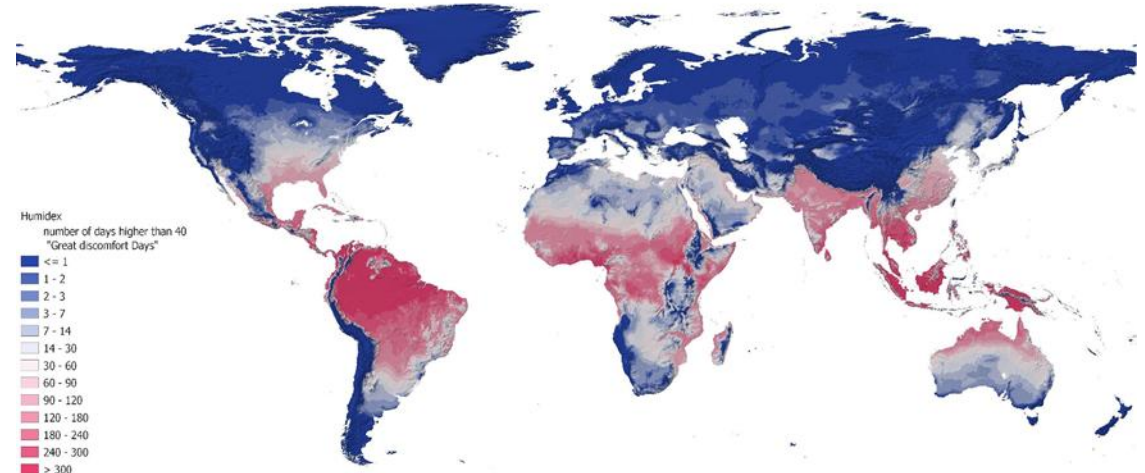
HOWDEN

Forbes



Destination Risk Scan

- A global initiative led by the Travel Foundation, Risklayer and University researchers and of course the destinations themselves!
- First-of-its-kind risk scan that evaluates physical, transition, and systemic risks for tourism destinations and assets.
- Six diverse pilot destinations: Colorado, Dolomites, Queenstown, Canary Islands, Cook Islands, Koh Samui.
- Outcomes will inform a global risk profiling tool for all tourism destinations as inputs to COP30 and Tourism Panel on Climate Change (TPCC)
- Building it upon Risklayer's climate and risk modelling metrics



Climate Risks in Small Island Developing States (SIDS) – Protection Mechanisms

- Diversified Risk Pools: Premiums from different countries are pooled to maximize protection across a region while minimizing the cost
- Umbrella Stop-Loss Programs: Annual losses beyond 10% GDP covered by pre-arranged financial protection (risk-sharing)
 - Annual Premium: USD 314 million
 - Annual Protection: USD 22.6 billion
- Leveraging Donor Support and Capital Markets: USD 10 million annual donor-supported premiums per SIDS can unlock hundreds of millions in annual protection – supporting tourism recovery
- Adaptive Investments such as strengthening natural ecosystem buffers, or better building codes

Gonzalez Pelaez, A., Daniell, J., Douglas, R., Langdale, C., & Narayanan Krishnan, A. (2023). *Risk sharing for Loss and Damage: Scaling up protection for the Global South*. University of Cambridge Institute for Sustainability Leadership. <https://www.cisl.cam.ac.uk/> For COP29

Figure 1: AAL of individual perils per country for 2023 (as % of GDP)

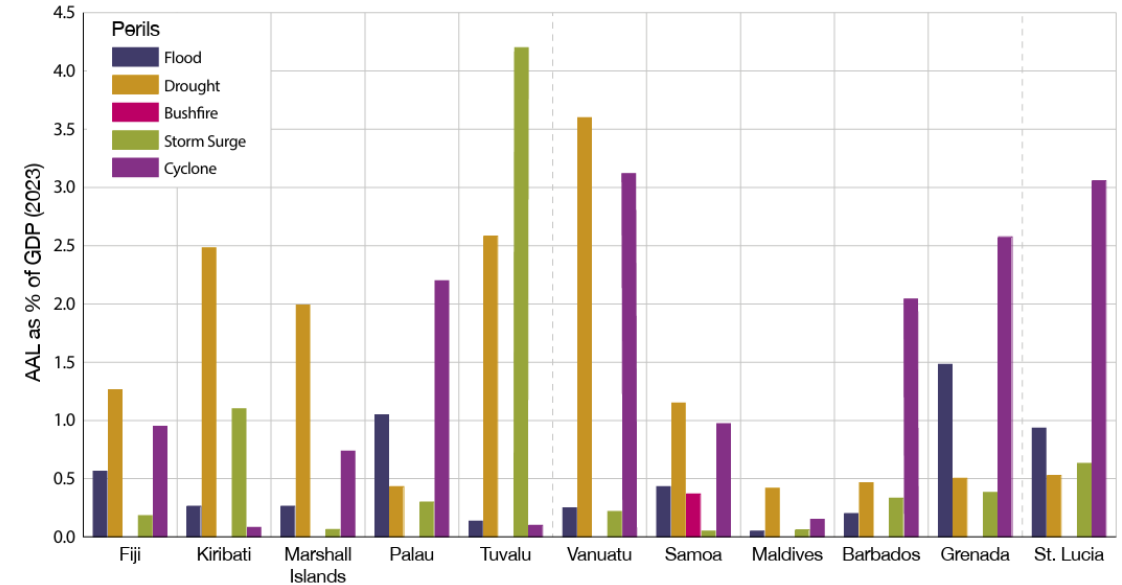
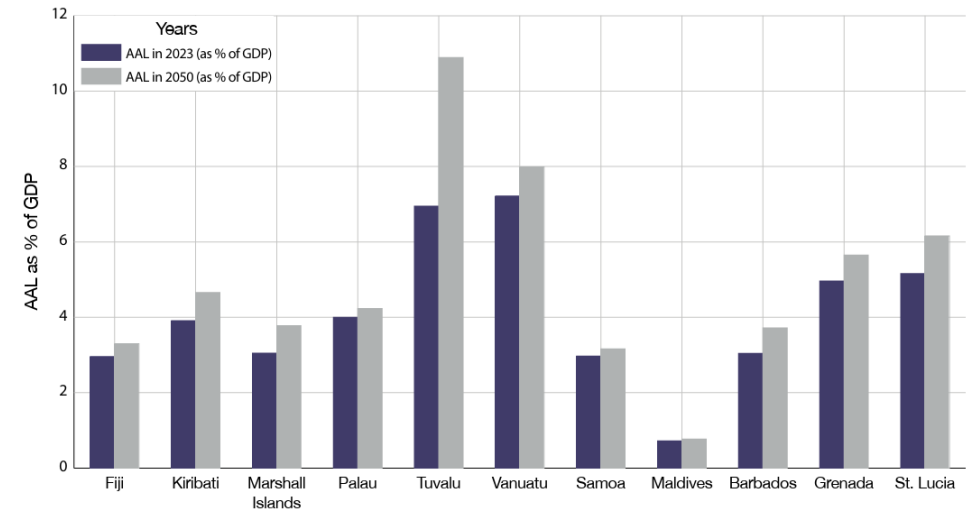
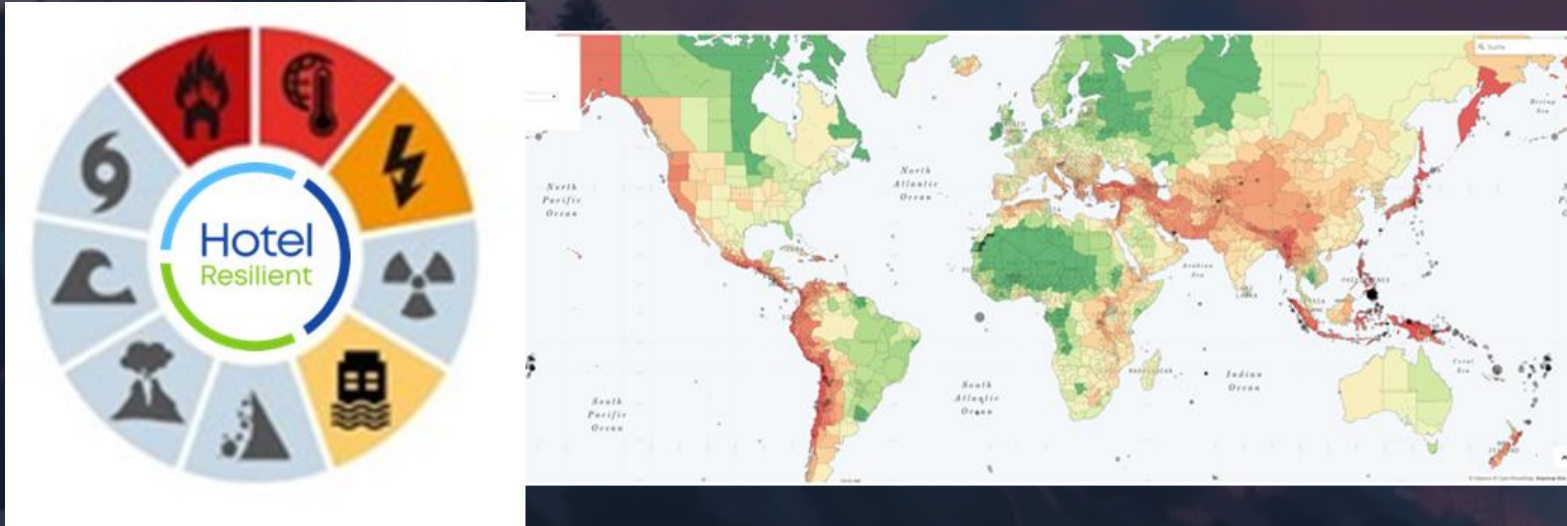


Figure 3: Total AAL per Country for 2023 vs 2050 as % of GDP



Our main efforts so far

- Bridging the Data-to-Action Divide through software, scorecards and tools to quantify risk, resilience and sustainability metrics – **Hotel Resilient**



- Destination **Operational and Capital modelling** to facilitate risk adaptation and screening and build information for insurance-aligned tourism climate risk modelling
- Destination-Wide Risk Pooling, Finance + Socio-economic Innovation to mitigate wildfires, floods, water shortages and other threats to tourism