



U.S. DEPARTMENT OF STATE  
BUREAU OF OVERSEAS BUILDINGS OPERATIONS

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# Climate Security & Resilience Program

November 9, 2023

# Overseas Buildings Operations

OBO manages the U.S. Department of State's building program and sets worldwide priorities for the planning, acquisition, design, construction, operation, maintenance, and disposal of overseas property.



# 287 OBO Diplomatic Locations



# Portfolio

**287**      **Locations**

**25,098**   **Domestic & Overseas Assets**  
9,387 Government-owned  
15,710 Leased

**16,561**   **Residences**

**897**      **Office Buildings**

**\$75.2B**   **Portfolio Replacement Value**

**83M SF**   **Gross Square Feet of Space**

**16,500**   **Culturally Significant Objects & Artworks**



# OBO's Goals

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## **- SECURITY -**

Enhance the security, safety, and functionality of facilities and residences for overseas personnel.

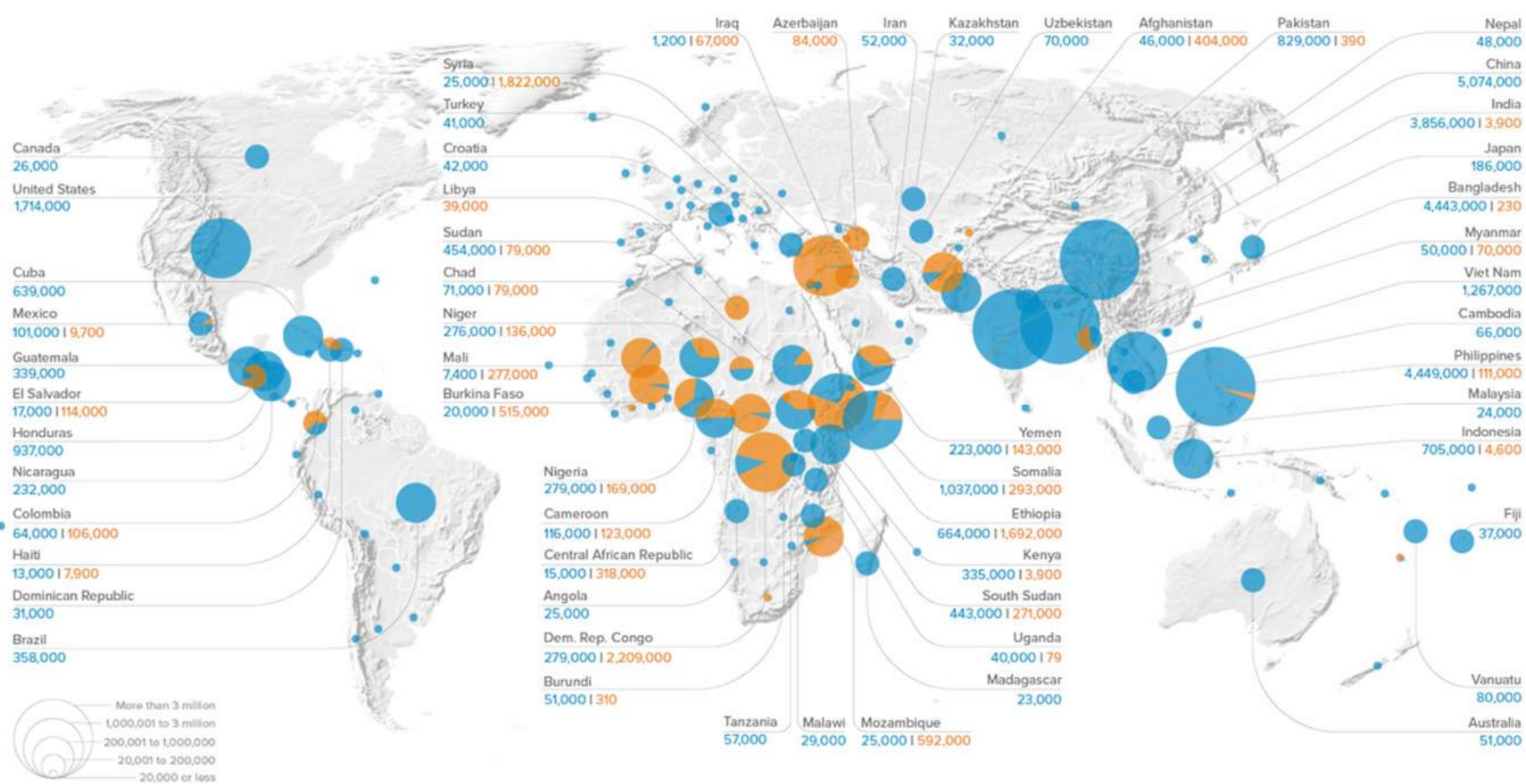
## **- RESILIENCE -**

Provide industry-leading resilient facilities that represent the nation and support personnel in achieving U.S. foreign policy objectives

## **- STEWARDSHIP -**

Promote continuous improvement facilitated by a culture of optimizing people, processes, and supporting technology.

# 2020 Displacements



**40.5m Total Displacements**  
9.8m | 30.7m

30.3% of World Total  
East Asia & Pacific  
0.186m | 12.063m

27.4% of World Total  
East Asia & Pacific  
6.788m | 4.299m

11.8% of World Total  
The Americas  
0.238m | 4.528m

5.9% of World Total  
Middle East & North Africa  
2.076m | 0.341m

0.8% of World Total  
Europe & Central Asia  
0.085m | 0.234m

## Earthquakes: Port-au-Prince, Haiti (2010) – M7.0



# Tropical Cyclones: Hurricane Irma in Havana, Cuba (2017)





# Flooding: Djibouti (2019)



## Natural Hazard Exposure and Vulnerability



Most posts have experienced a natural hazard in the past 15 years.

Experienced

148



Concerned

109

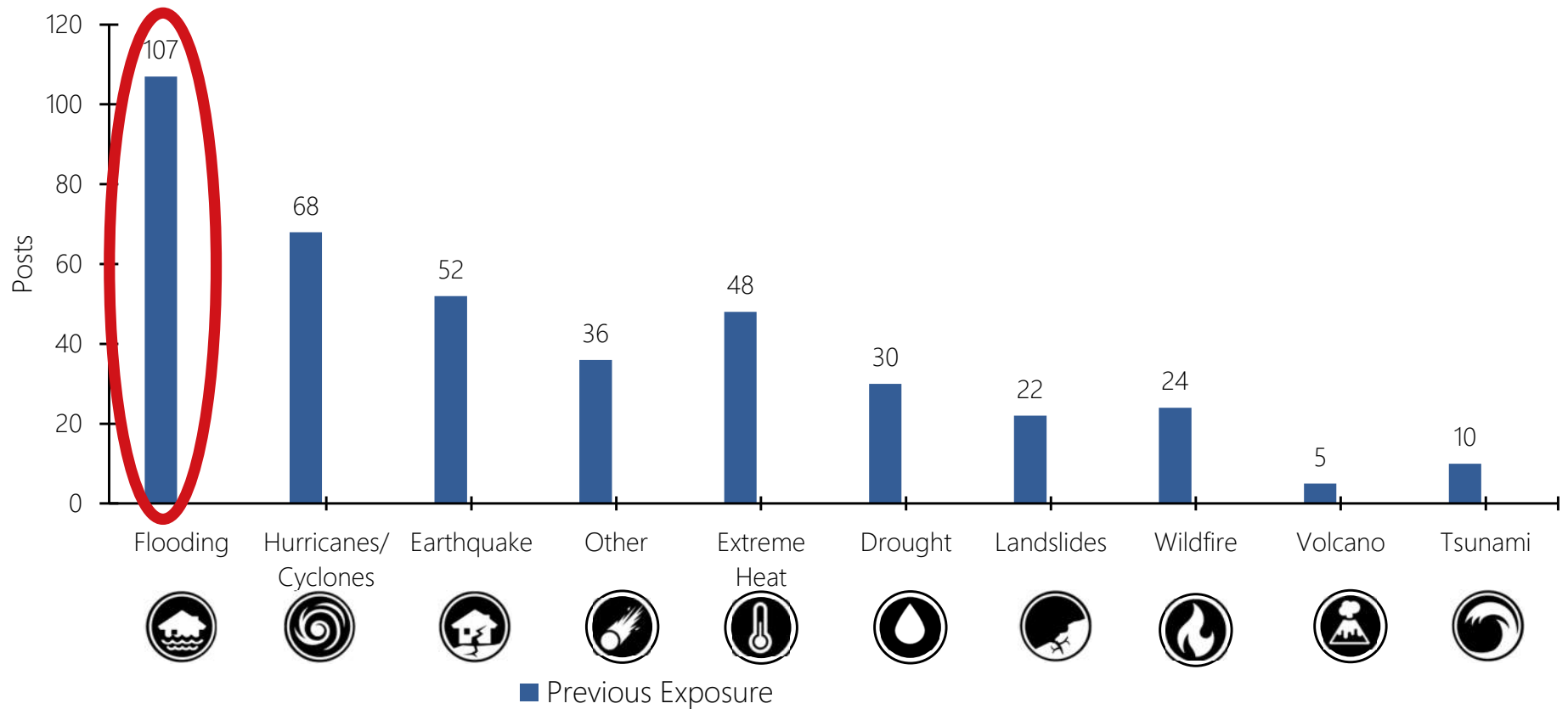


Disrupted

70

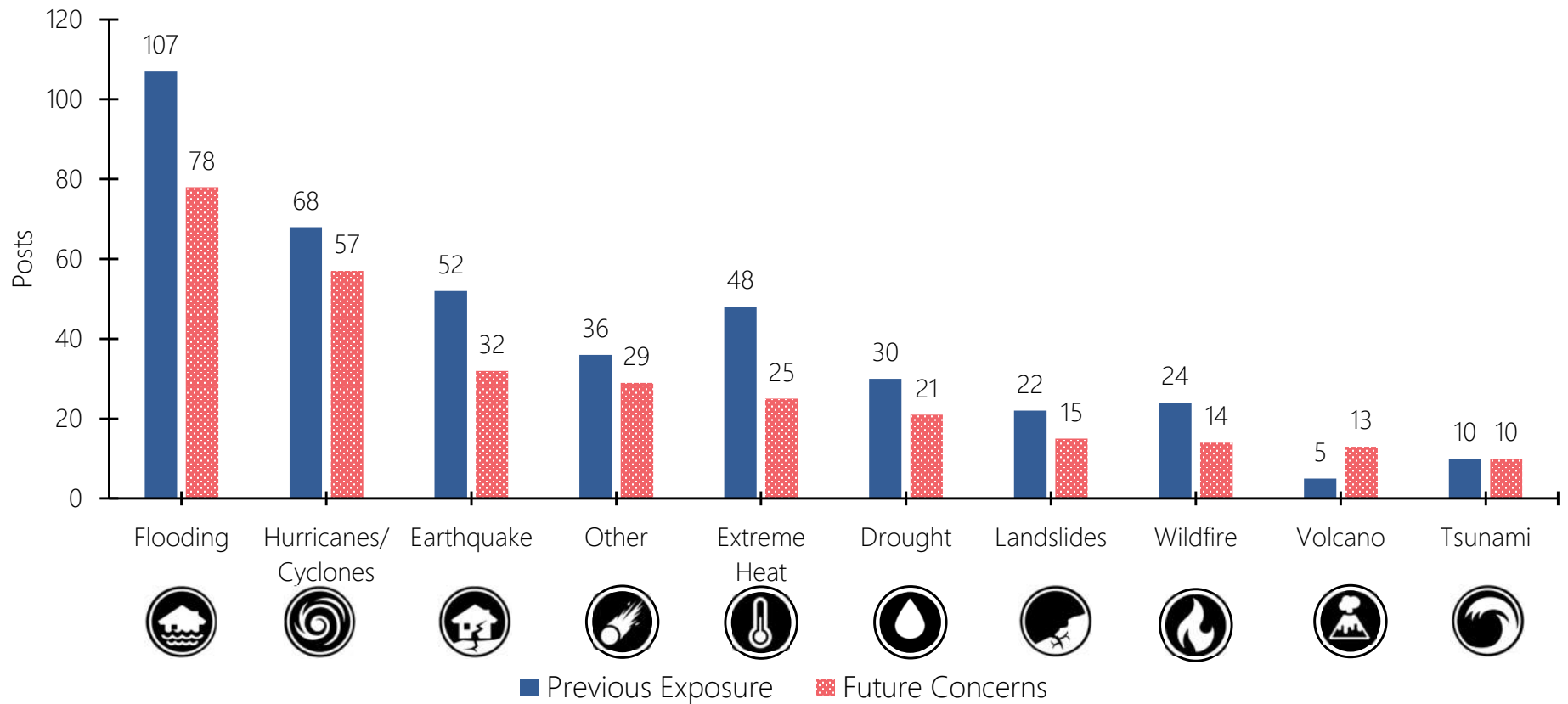


# Posts have already been exposed to many types of natural hazards.



2022 Greening Diplomacy Initiative Survey

# Posts are consistently less concerned with future natural hazards, even if they have previously been exposed to natural hazards.

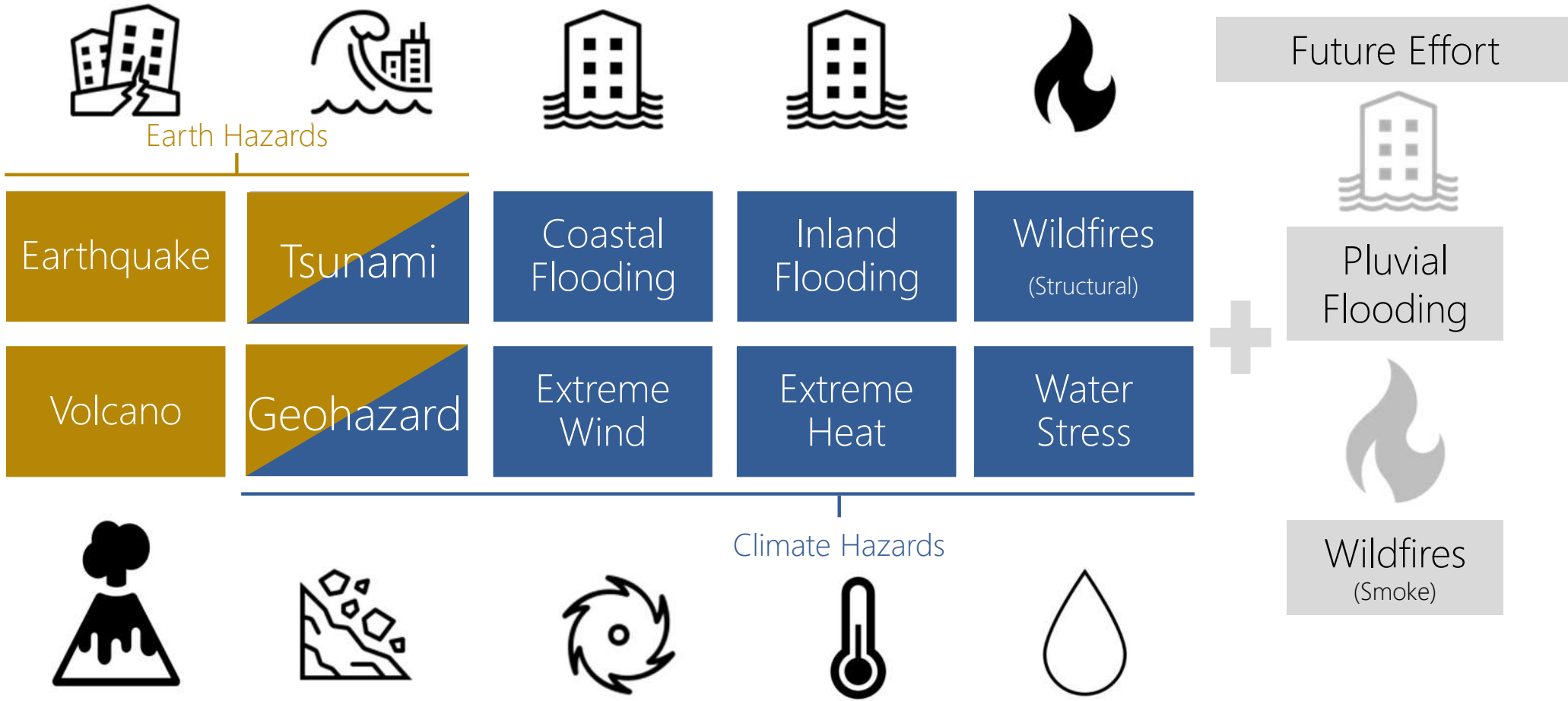







## CS&R Data and Projects

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# The CS&R Program facilitates adapting State's missions and reducing impacts from natural hazards (different from climate "mitigation").



# Our data stems from three approaches:

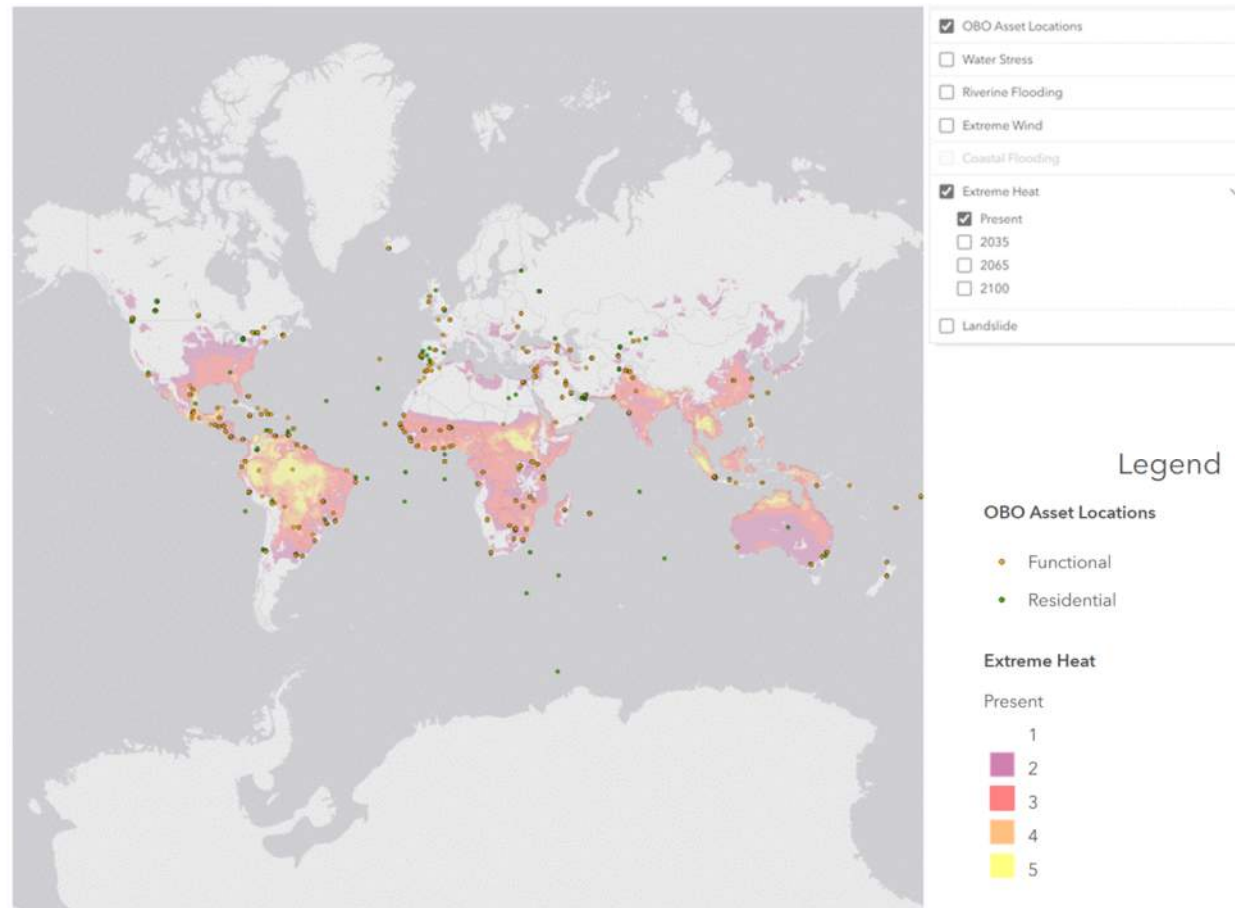
Public Data Sources	Interagency Collaborations	Interagency Agreements and Contracts
 <p>WORLD RESOURCES INSTITUTE</p> <p>THE WORLD BANK</p> <p>GVR Global Assessment Report on Disaster Risk Reduction</p> <p>NOAA NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION U.S. DEPARTMENT OF COMMERCE</p> <p>NASA</p>	 <p>NASA</p> <p>USAID UNITED STATES AGENCY FOR INTERNATIONAL DEVELOPMENT</p> <p>DEPARTMENT OF DEFENSE UNITED STATES OF AMERICA</p> <p>ENVIRONMENTAL PROTECTION AGENCY UNITED STATES</p> <p>NATIONAL GEOSPATIAL-INTELLIGENCE AGENCY UNITED STATES OF AMERICA</p> <p>Smithsonian</p> <p>NIH NIEHS</p> <p>CDC CENTERS FOR DISEASE CONTROL AND PREVENTION</p>	 <p>USGS science for a changing world</p> <p>NOAA NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION U.S. DEPARTMENT OF COMMERCE</p> <p>DEPARTMENT OF DEFENSE UNITED STATES OF AMERICA</p> <p>GEM GLOBAL EARTHQUAKE MODEL working together to assess risk</p> <p>Contractor support</p>



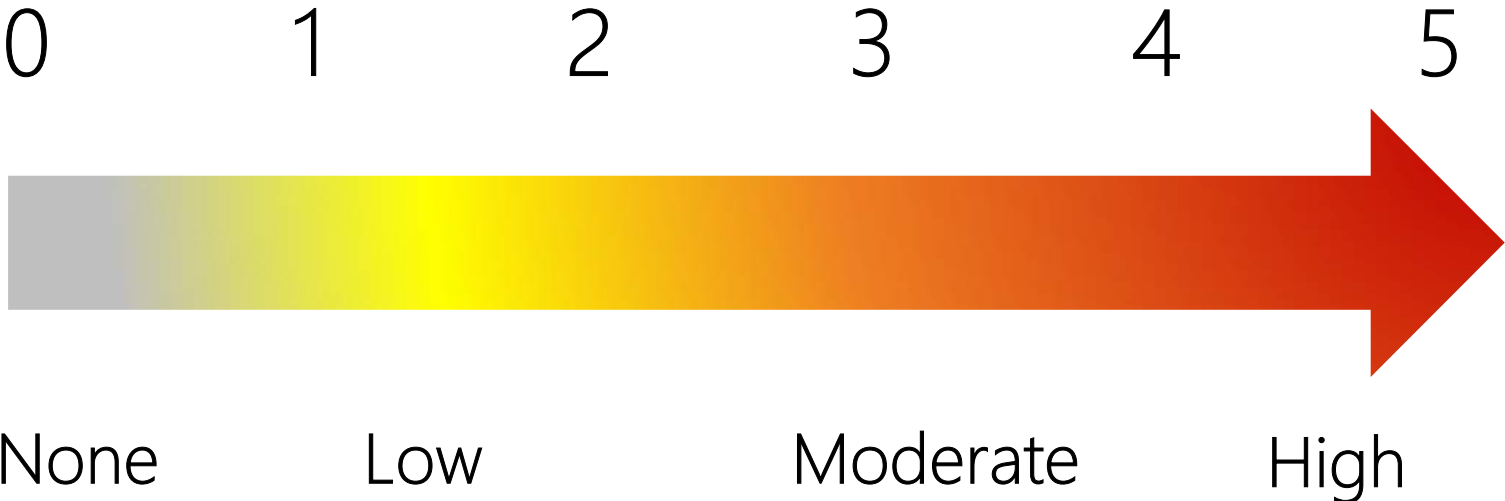
# The CS&R Dashboard provides coarse overviews of global hazard exposures with climate projections.

## ex. Extreme heat:

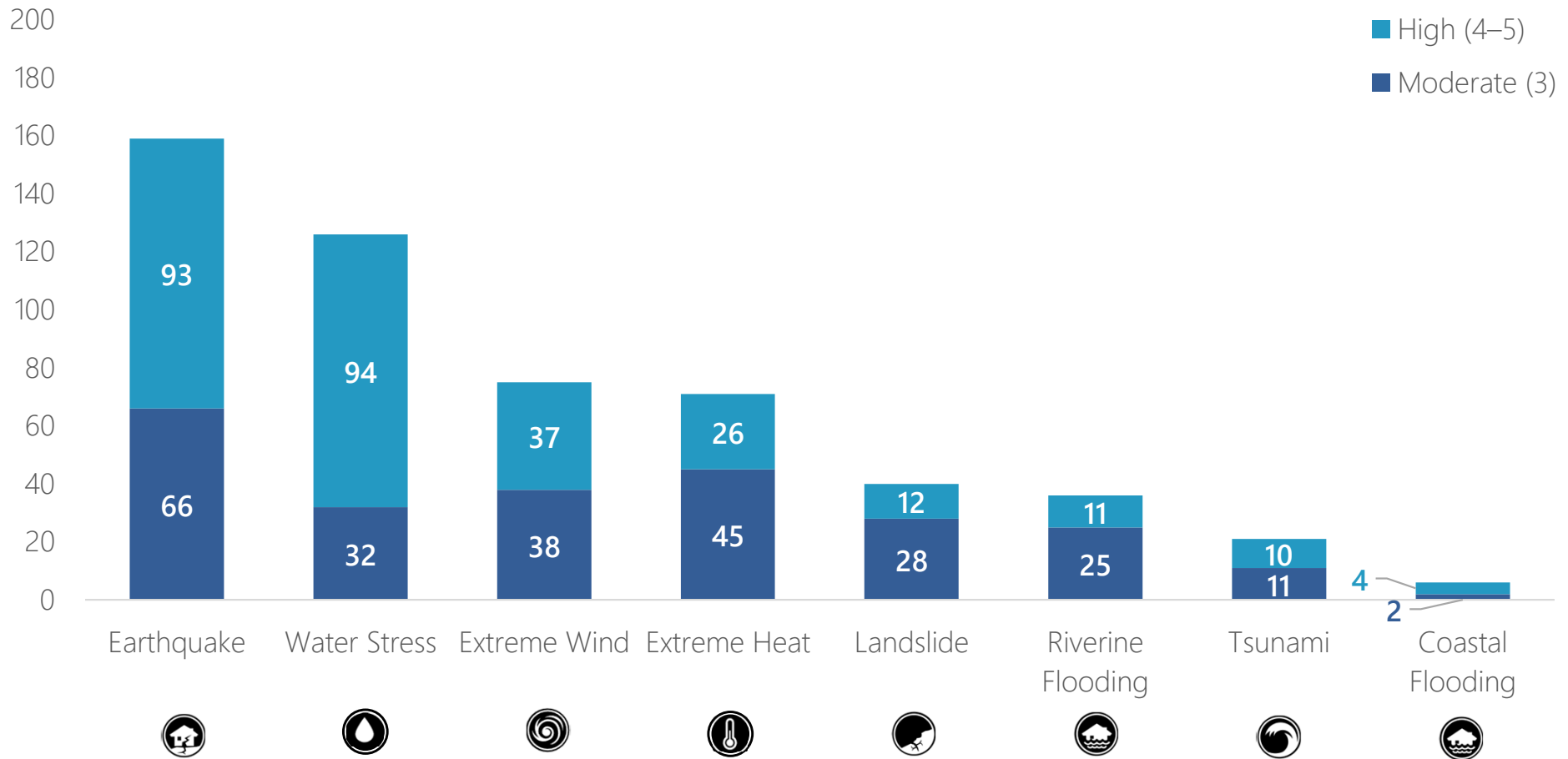
- Present
- 2035
- 2065
- 2100



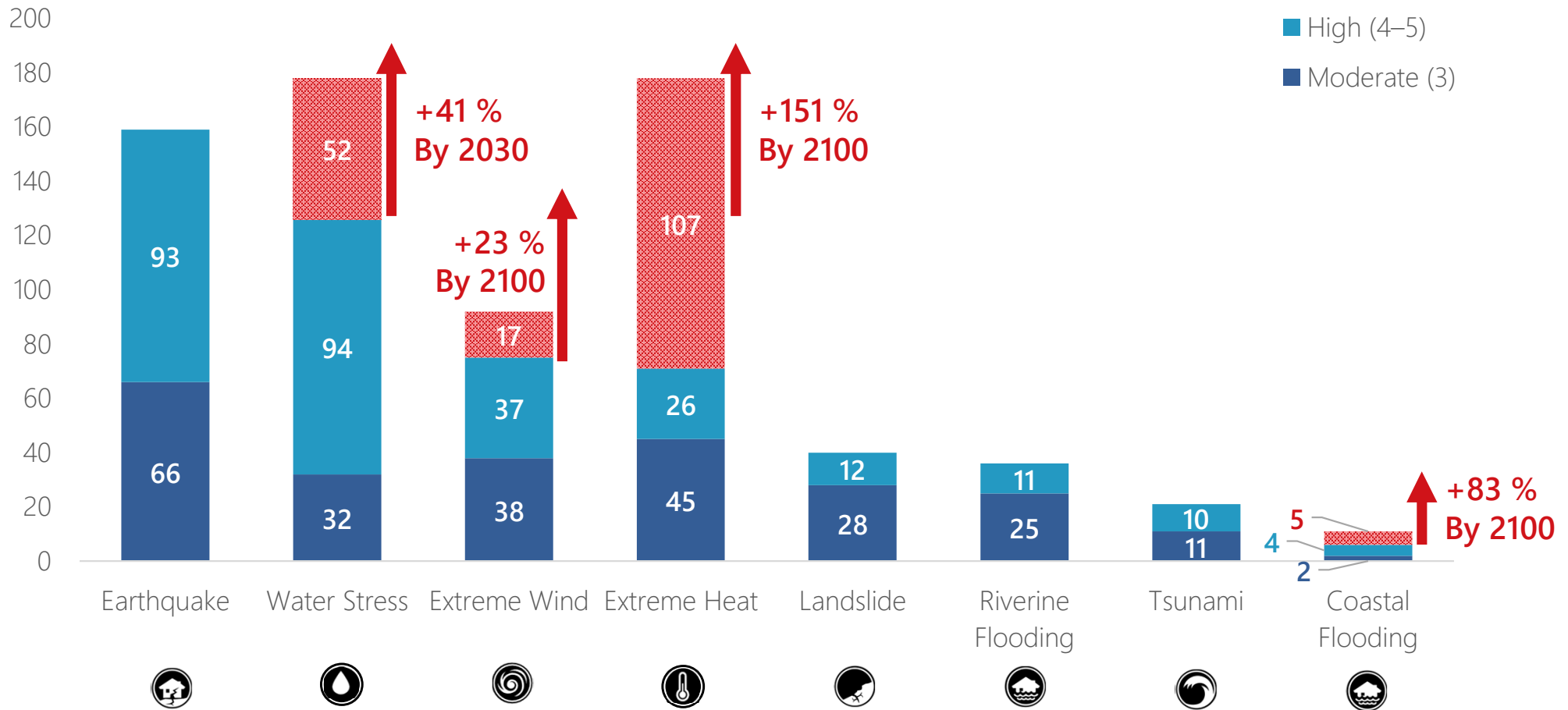
The CS&R Program normalizes post hazard exposure on a 0-5 scale.



# We are most concerned about posts that have moderate or high exposure.



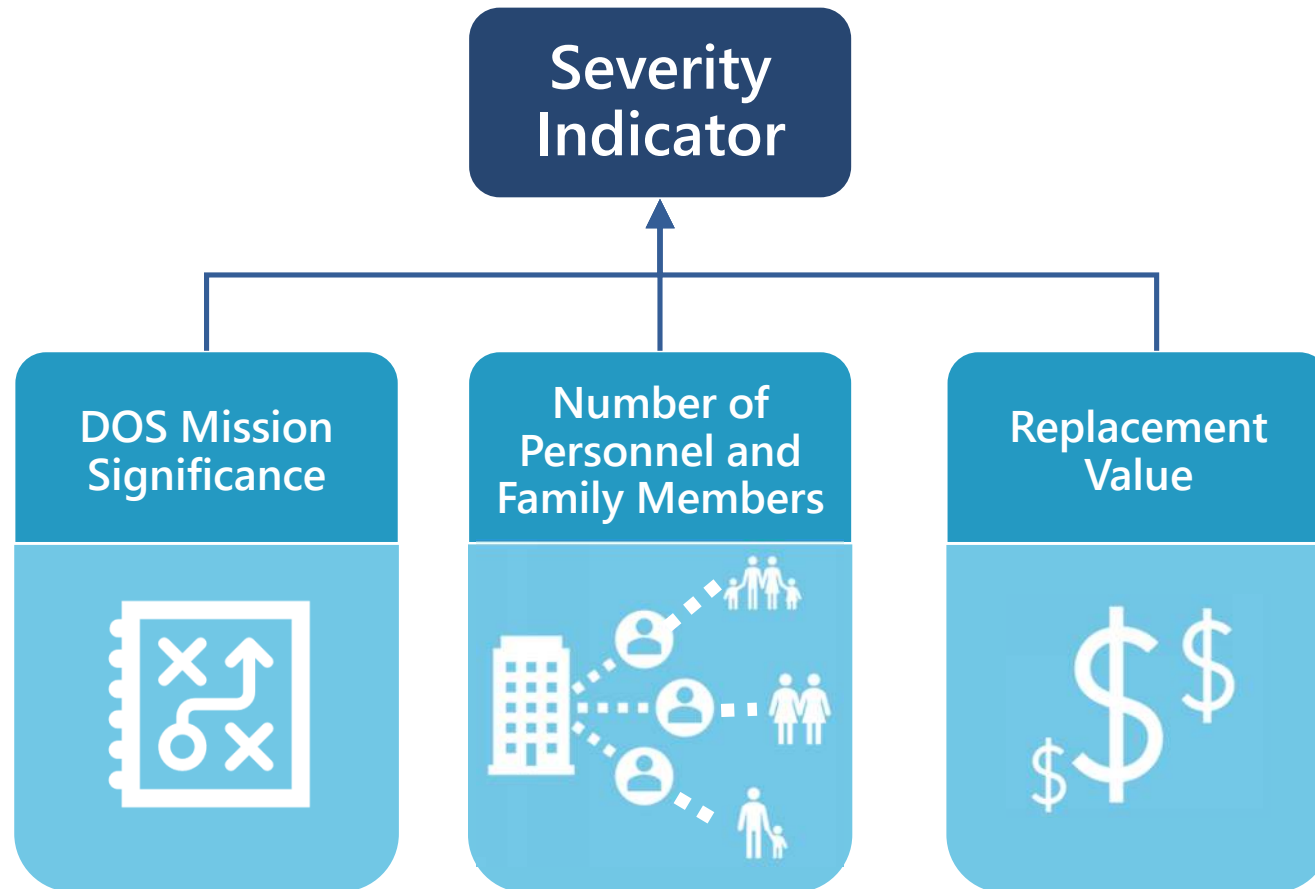
# More posts will have moderate or high hazard exposures in the future due to climate change.



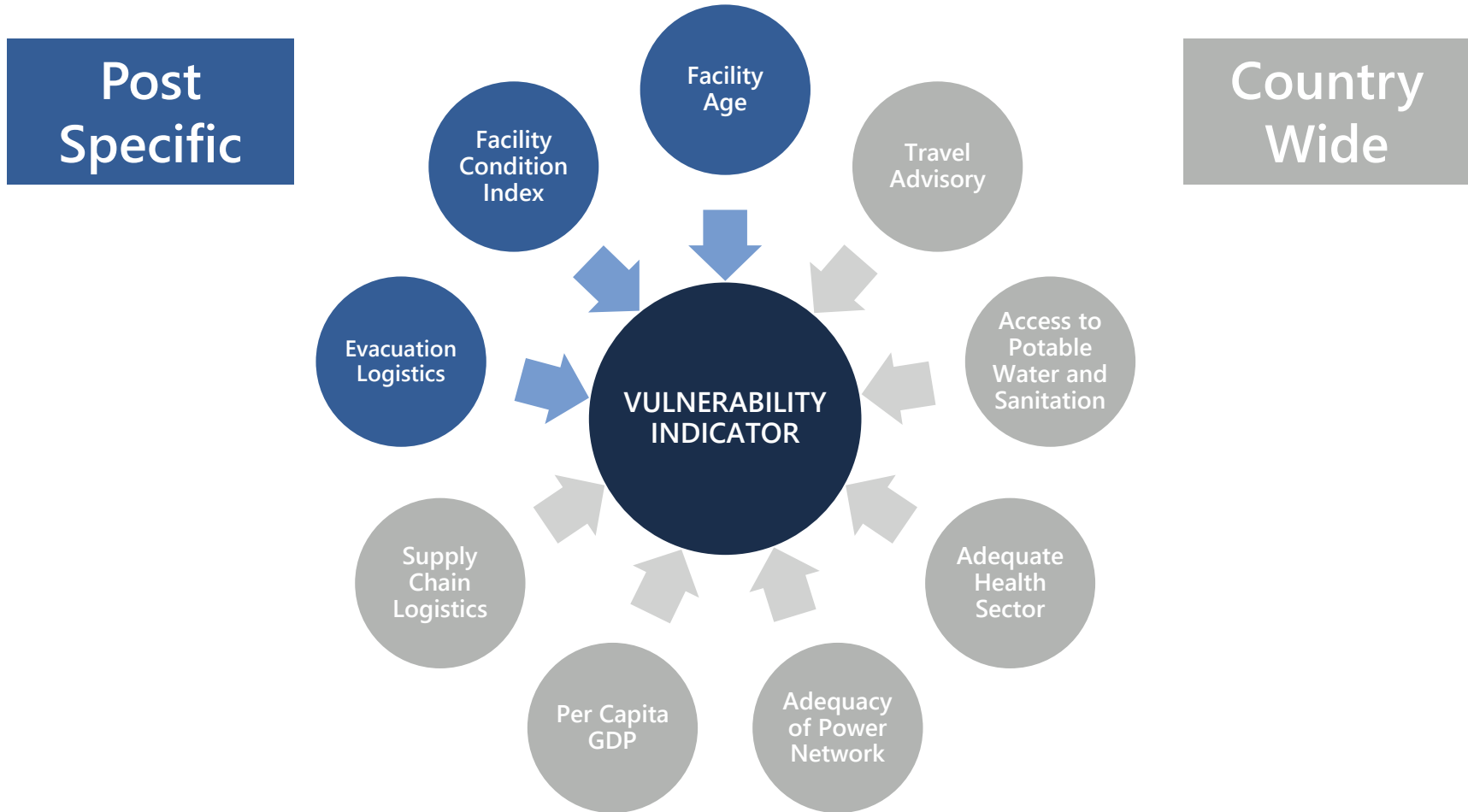
# We Calculate a Risk Score for Each Post – Screening Level Prioritization



We use a severity indicator based on the post's significance, number of people, and replacement value.



# We use a vulnerability indicator based on post-specific and country-wide factors.



The final risk score is composed of the preliminary risk score and the vulnerability multiplier.

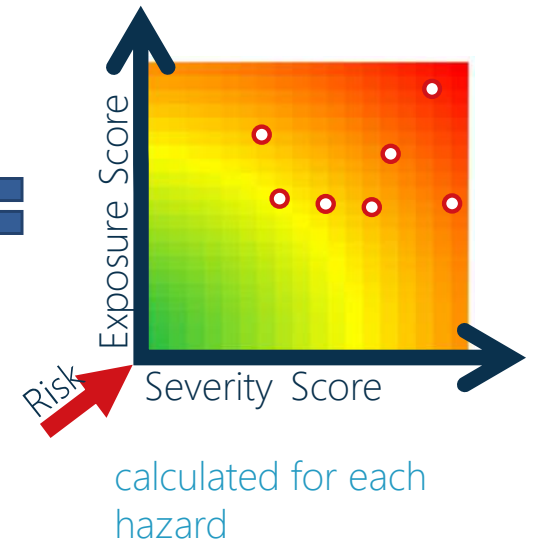
Preliminary Risk Score



Vulnerability Multiplier

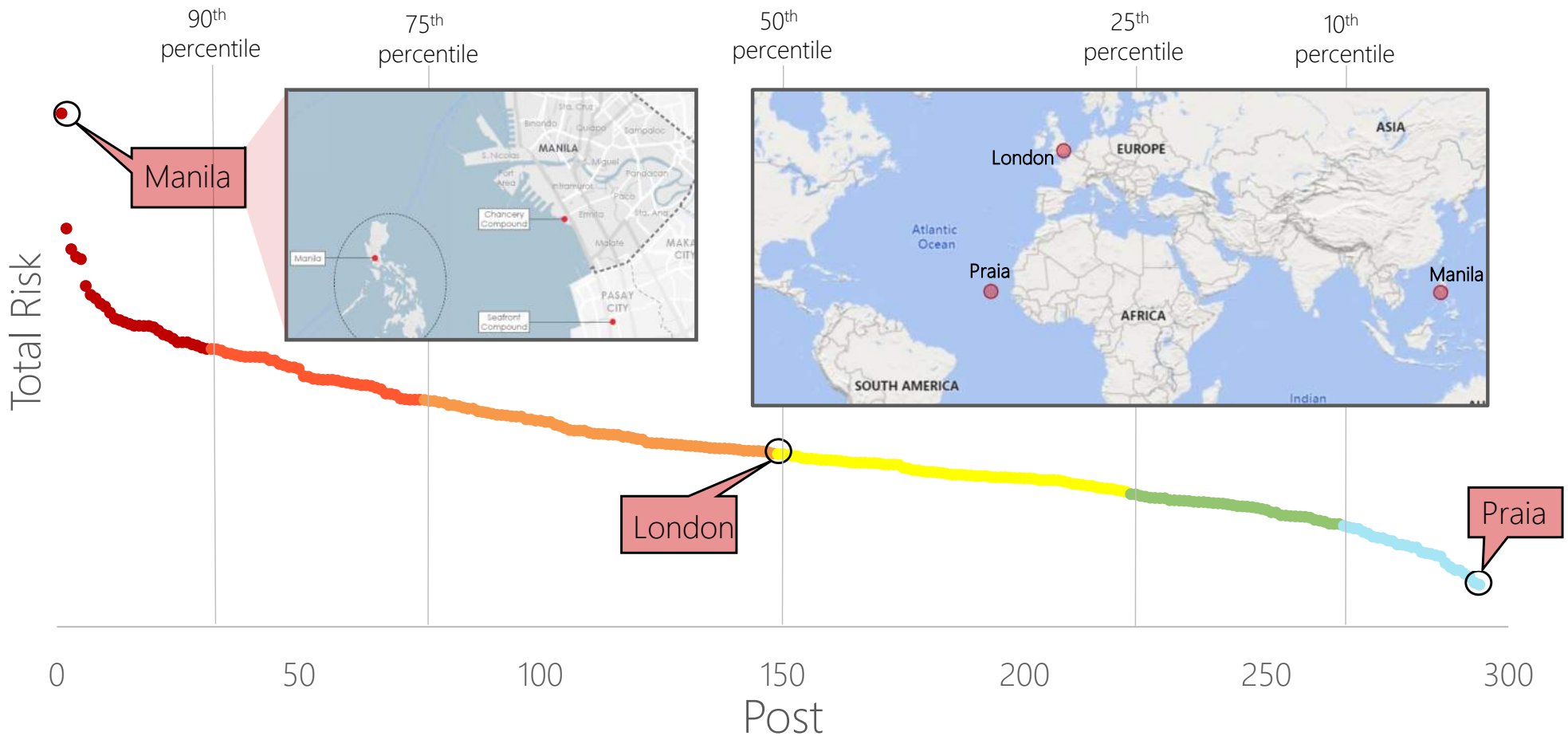


Final Risk Score





# The final risk score provides an objective, relative assessment.\*

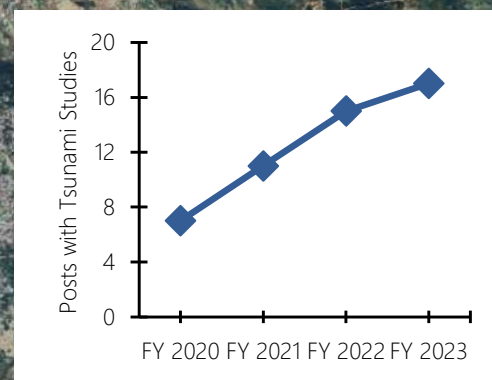
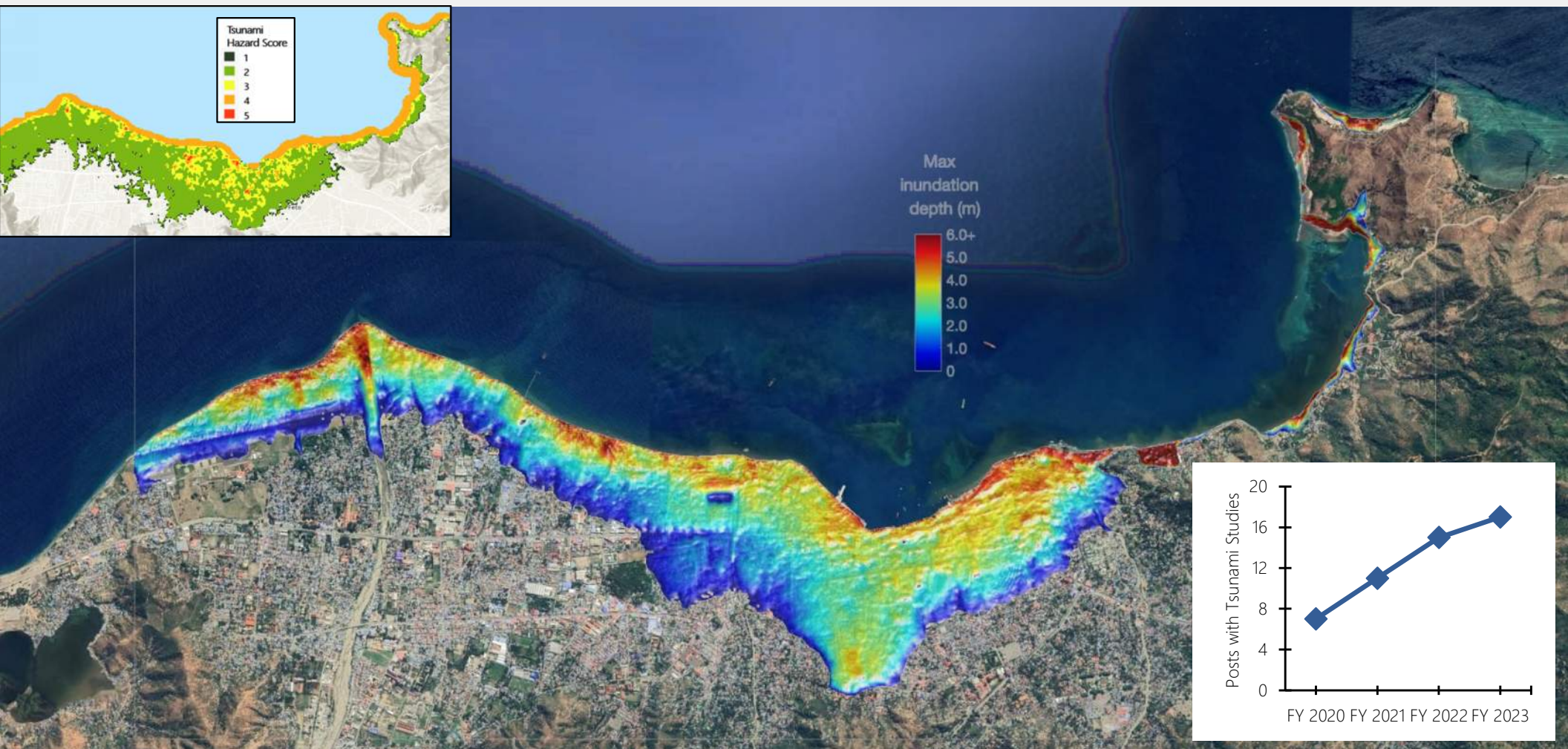
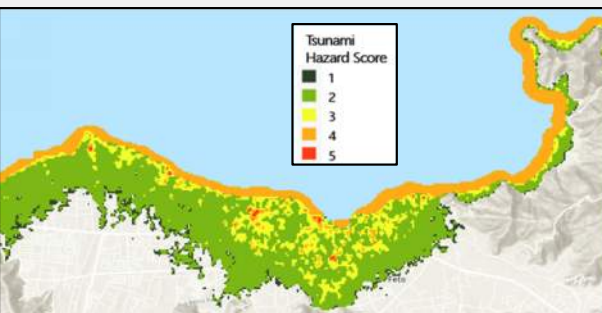


\*this curve does not consider completed, in progress, or planned projects for our posts.

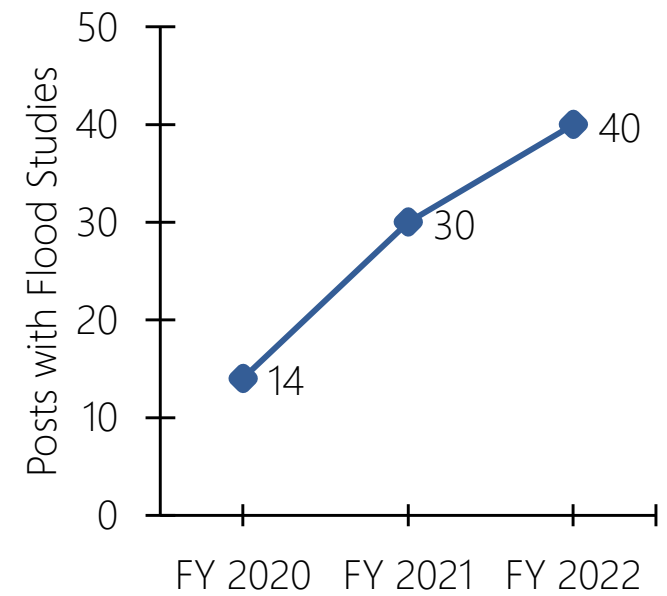
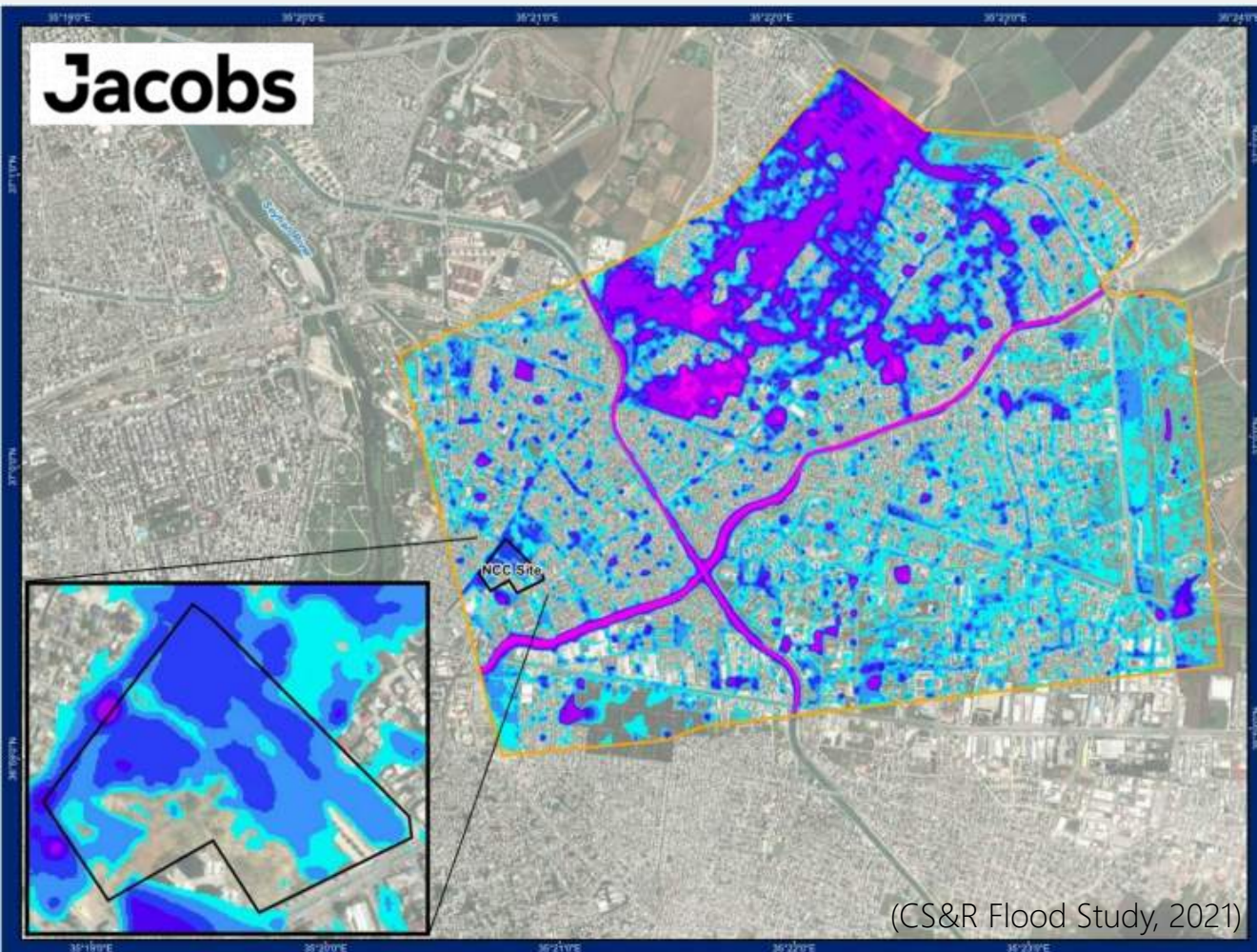
# Post Specific - Detailed Analysis



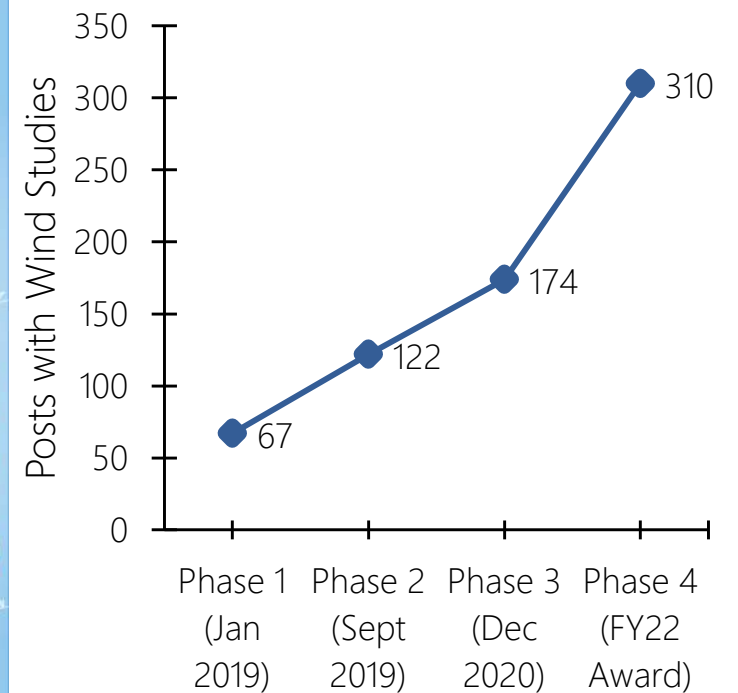
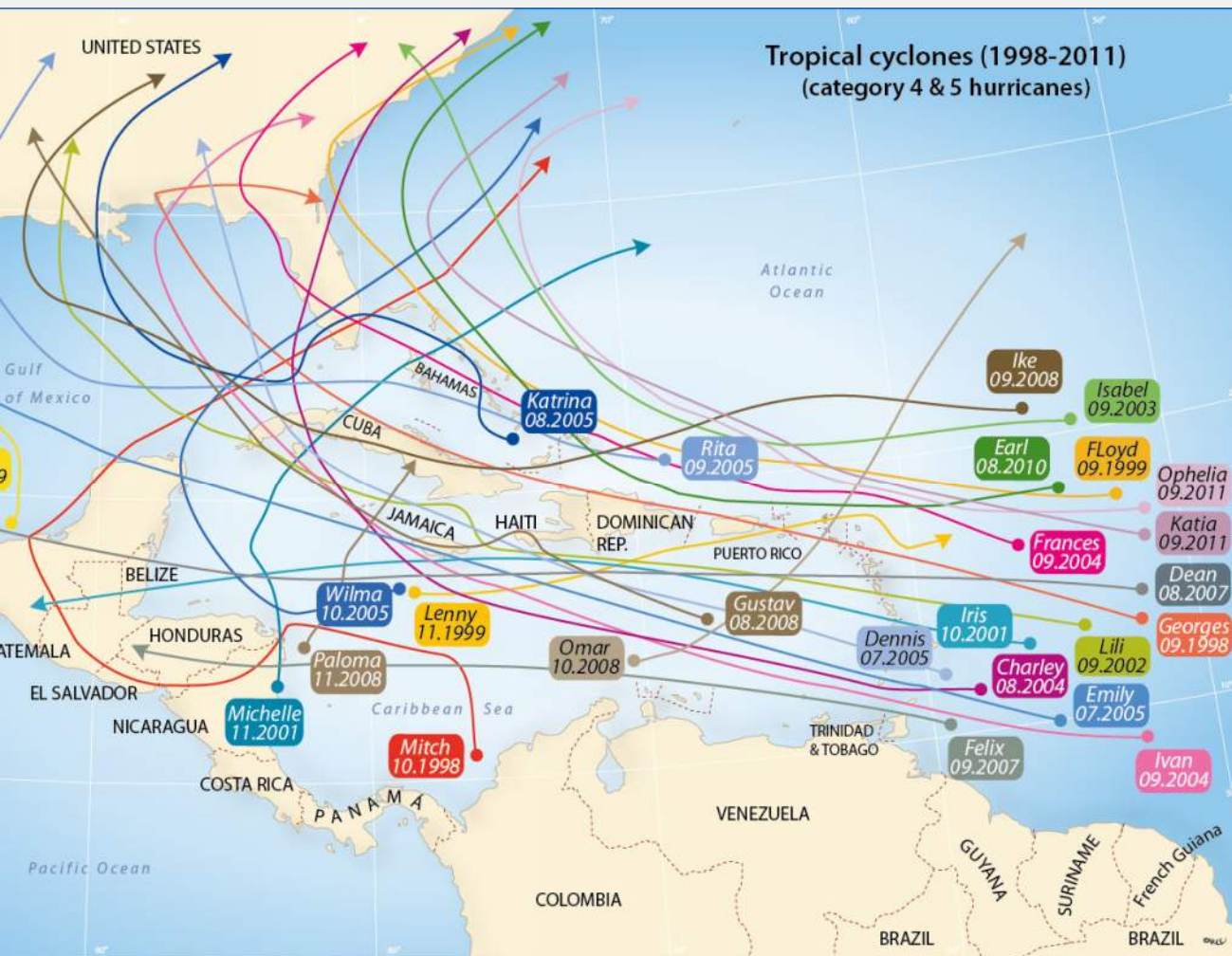
# Post Specific High resolution Tsunami Maps



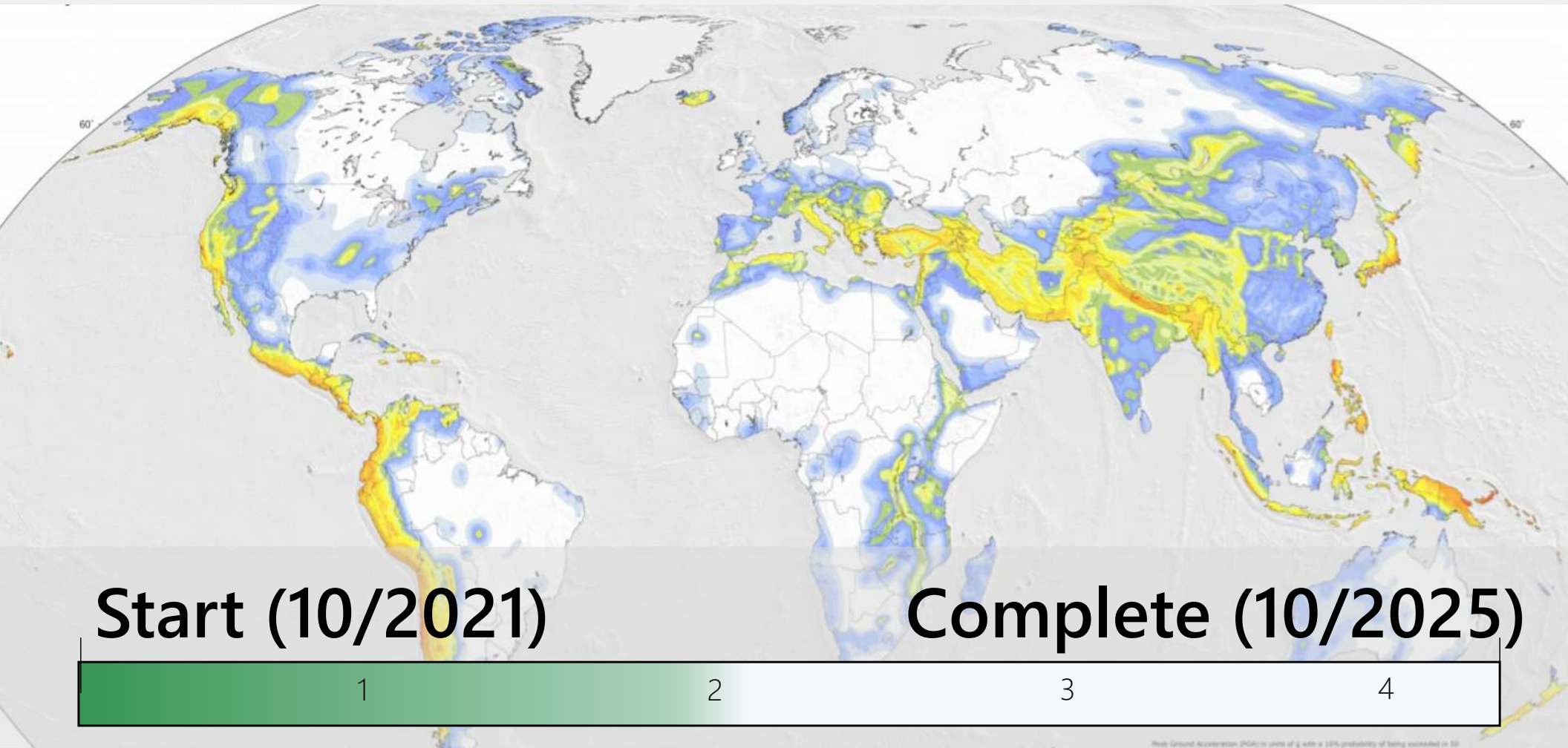
# Post Specific Flood Studies (high-resolution)



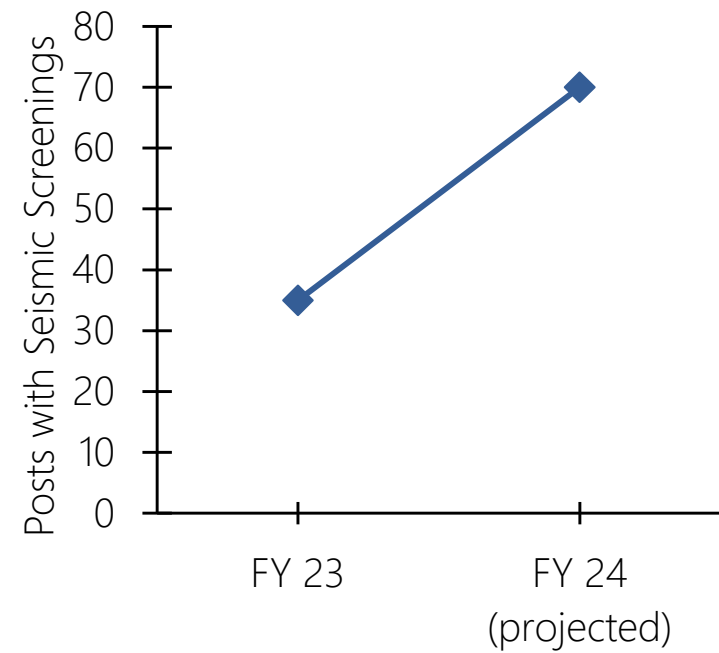
# Post Specific Wind Speeds



# Portfolio Seismicity Update



# Post-Pandemic Residential Seismic Screenings



## How do we use this hazard information?





# CS&R incorporates natural hazard data at many stages of the OBO portfolio lifecycle:

Site Selection



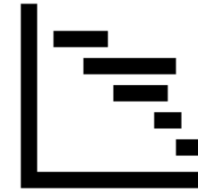
Acquisition



Design



Portfolio  
Management



Emergency  
Planning



CS&R collaborates with other groups within the State Department.



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# CLIMATE ADAPTATION AND RESILIENCE PLAN

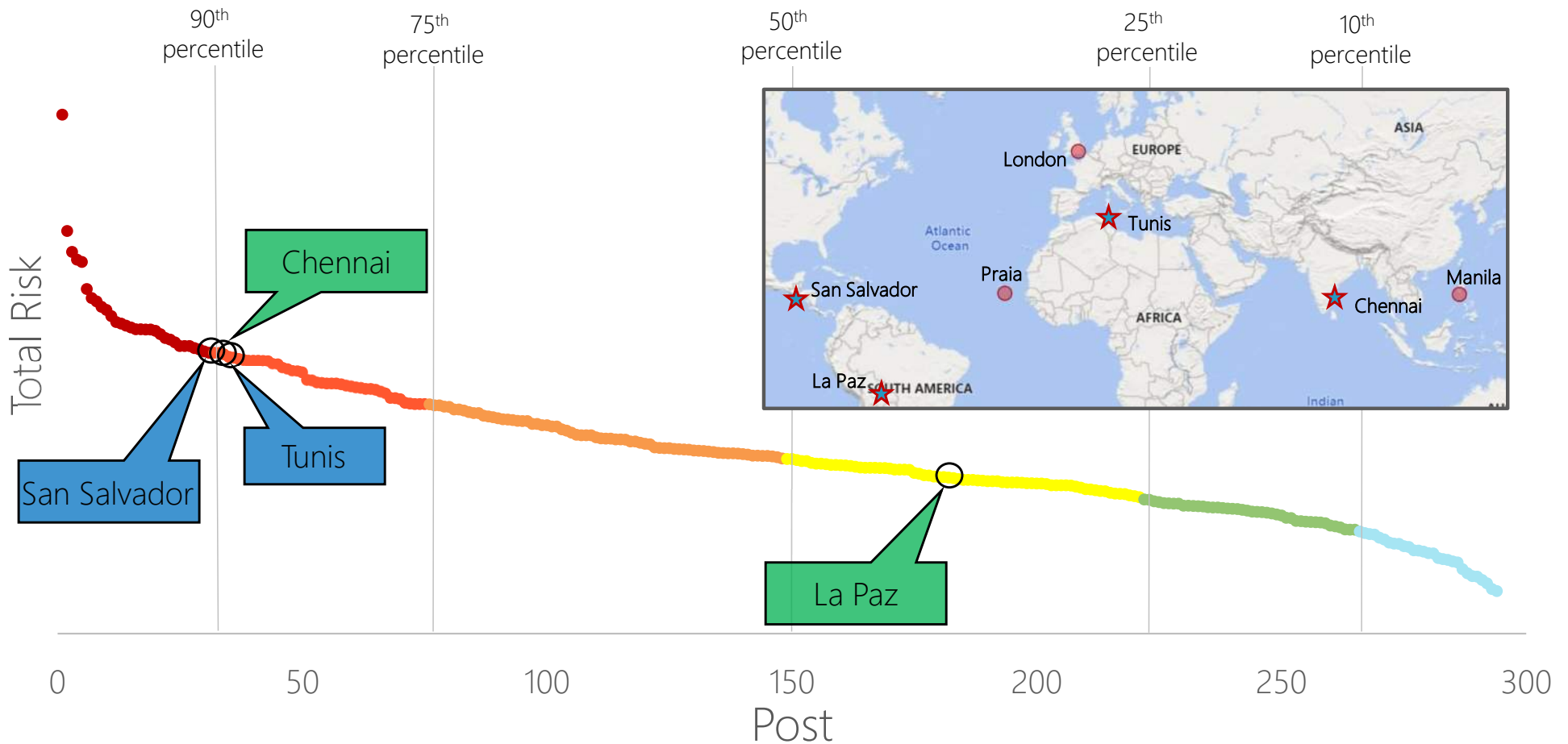
2021



## Other CS&R Work

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# Learning from adaptation pilots, we are working to develop adaptation screening metrics and will assess two more posts.



## Seeking solutions for water stressed posts.



(Ft. Irwin's Hydro Panels, 10/11/2023)

# Development of Natural Hazard Focused Custom Annex Exemplars

EMERGENCY ACTION PLAN  
U.S. Embassy - Overseas Buildings Operations  
SENSITIVE BUT UNCLASSIFIED

IMMEDIATE ACTION GUIDE

IMMEDIATE ACTION GUIDE

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EMERGENCY ACTION PLAN  
U.S. Embassy - Overseas Buildings Operations  
SENSITIVE BUT UNCLASSIFIED

MASTER EMERGENCY CONTACT LIST

MASTER EMERGENCY CONTACT LIST

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EMERGENCY ACTION PLAN  
U.S. Embassy - Overseas Buildings Operations  
SENSITIVE BUT UNCLASSIFIED

DECISION POINTS

DECISION POINTS

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EMERGENCY ACTION PLAN  
U.S. Embassy - Overseas Buildings Operations  
SENSITIVE BUT UNCLASSIFIED

PLANNING GUIDE

PLANNING GUIDE

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# CS&R supports inspections (of posts' portfolios) for occupancy after disasters through the OBO Disaster Response Committee.



**UNSAFE**  
DO NOT ENTER OR OCCUPY  
(THIS PLACARD IS NOT A DEMOLITION ORDER)

This structure has been inspected, found to be seriously damaged and is unsafe to occupy, as indicated below.

Date: \_\_\_\_\_  
Time: \_\_\_\_\_

This facility was inspected under emergency conditions for Special Medical Response, Disaster Response Policy (DSRP), (Jurisdiction)

Inspector ID / Agency: \_\_\_\_\_

Do not enter, except as specifically authorized in writing by jurisdiction. Entry may result in death or injury.

Facility Name and Address:  
Morris Chestnut Air Control Center  
10000 Morris Chestnut Blvd., Jacksonville, Florida



**RESTRICTED USE**

This structure has been inspected and found to be damaged as described below.

Date: \_\_\_\_\_  
Time: \_\_\_\_\_

(Caution: Allowance since inspection may increase damage and risk.)

This facility was inspected under emergency conditions for Special Medical Response, Disaster Response Policy (DSRP), (Jurisdiction)

Inspector ID / Agency: \_\_\_\_\_

Entry, occupancy, and lawful use are restricted as indicated below:

Do not enter the following area: \_\_\_\_\_

That entry allowed for access to contents: \_\_\_\_\_

Other restriction: \_\_\_\_\_

Facility Name and Address:  
Morris Chestnut Air Control Center  
10000 Morris Chestnut Blvd., Jacksonville, Florida



**INSPECTED**  
LAWFUL OCCUPANCY PERMITTED

This structure has been inspected (as indicated below) and no apparent structural hazard has been found.

Date: \_\_\_\_\_  
Time: \_\_\_\_\_

(Caution: Allowance since inspection may increase damage and risk.)

This facility was inspected under emergency conditions for Special Medical Response, Disaster Response Policy (DSRP), (Jurisdiction)

Inspector ID / Agency: \_\_\_\_\_

Inspected Exterior Only

Inspected Exterior and Interior

Report any unsafe condition to local authorities; inspection may be required.

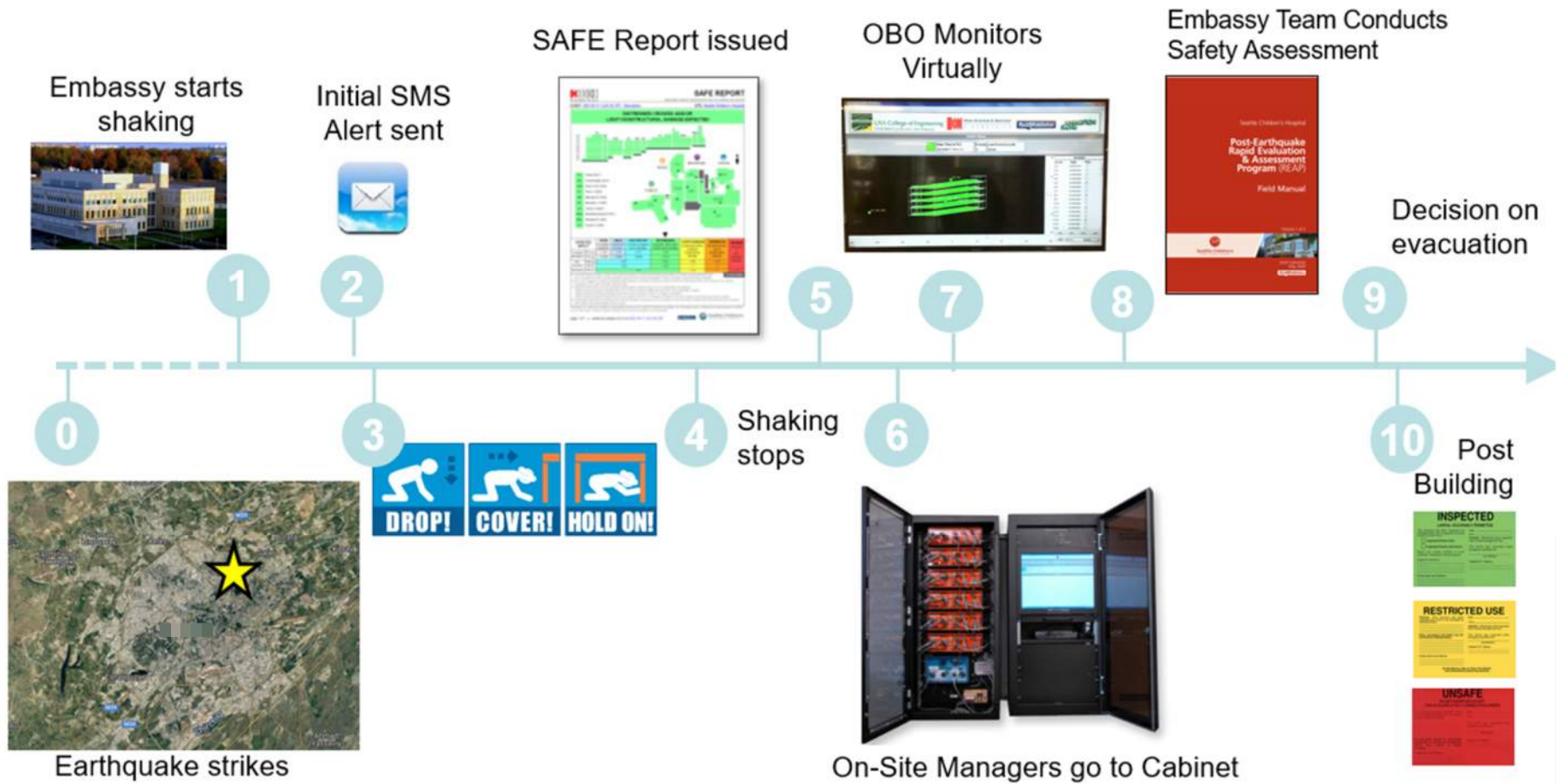
Inspector Comments: \_\_\_\_\_

Facility Name and Address:  
Morris Chestnut Air Control Center  
10000 Morris Chestnut Blvd., Jacksonville, Florida

Port-au-Prince  
Kathmandu  
Mexico City  
Port of Spain  
Tirana  
Adana/Gaziantep

UNCLASSIFIED

# Piloting Seismic Monitoring System (SMS) technology



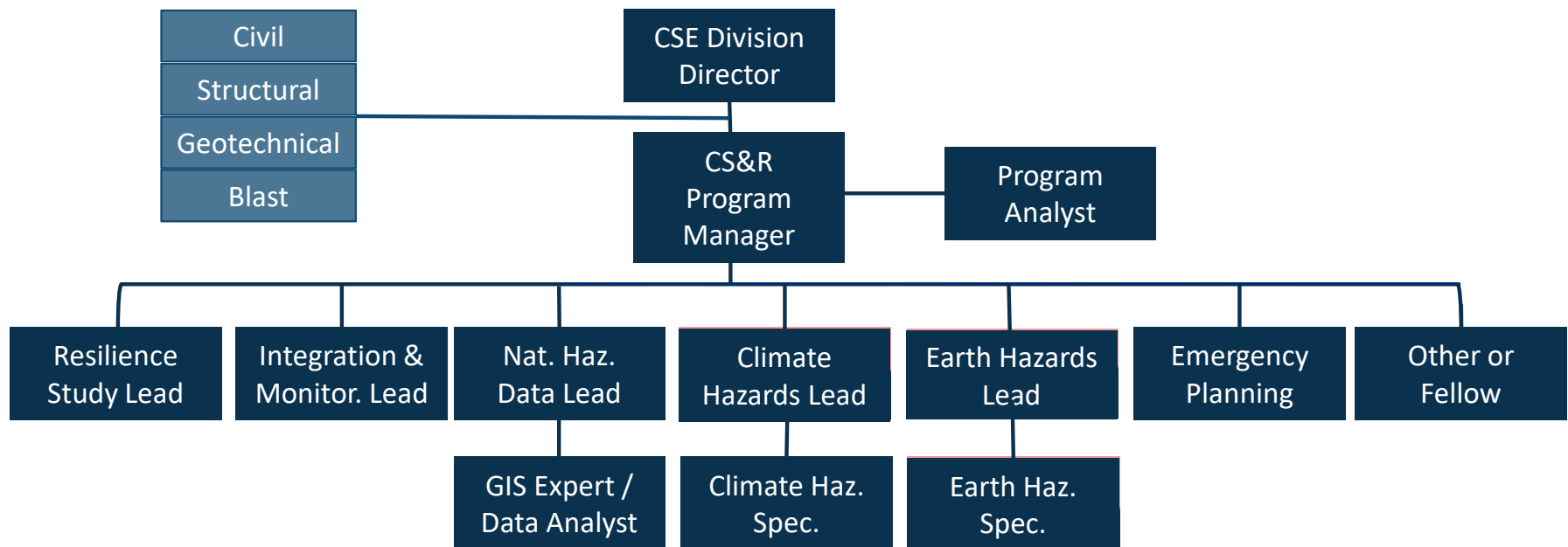




## Organizational Fit

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# Organized in Focus Areas; Compliment CSE Post Engineers



# Support from Program IDIQ Contracts

Current Program IDIQ Contracts	Current Scope
<ul style="list-style-type: none"> <li>➤ ABSG Consulting Inc.</li> <li>➤ KPFF Consulting Engineers</li> <li>➤ Reid Middleton, Inc.</li> <li>➤ Wiss, Janney, Elstner Associates, Inc.</li> </ul>	<ul style="list-style-type: none"> <li>• Structural/earthquake engineering (screening, analysis, design)</li> <li>• Engineering support for issues related to flooding, landslide, tropical cyclones, tsunami, volcano, corrosive environments, and others, inclusive of applicable climate change impacts.</li> <li>• Emergency response support</li> </ul>
Future Re-compete	Potential Future Scope Expansion
<ul style="list-style-type: none"> <li>➤ Anticipated number: 4 IDIQs</li> <li>➤ Expected term: Base + 4 option years</li> <li>➤ Expected total value, per: \$5M+</li> <li>➤ Estimated announcement date: Summer/Fall 2024</li> </ul>	<ul style="list-style-type: none"> <li>• Enhancement of existing strategies and tools</li> <li>• Global climate science dataset development</li> <li>• Detailed natural hazard exposure modeling/mapping</li> <li>• Portfolio natural hazard risk management and data analytics</li> <li>• Post-specific adaptation assessments and strategy development</li> <li>• Remote monitoring</li> </ul>

Support is also obtained from other OBO contracts, as required.

<https://www.state.gov/introductions-presentations-overseas-buildings-operations/#IDIQ>

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OBO-EA@State.gov

[www.State.gov/OBO](http://www.State.gov/OBO)

## WORKING WITH US



Capabilities Conversation  
Information  
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Register a Company  
<https://bit.ly/OBOCapConv>

