Empowering Resilience in Coastal Regions

Members of Team 444:

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Problem Statement

Climate change poses a threat to coastal communities through rising sea levels

Sea level rise endangers livelihoods, infrastructure, and lives in coastal regions, demanding urgent action to protect vulnerable communities and ecosystems.

NAME:

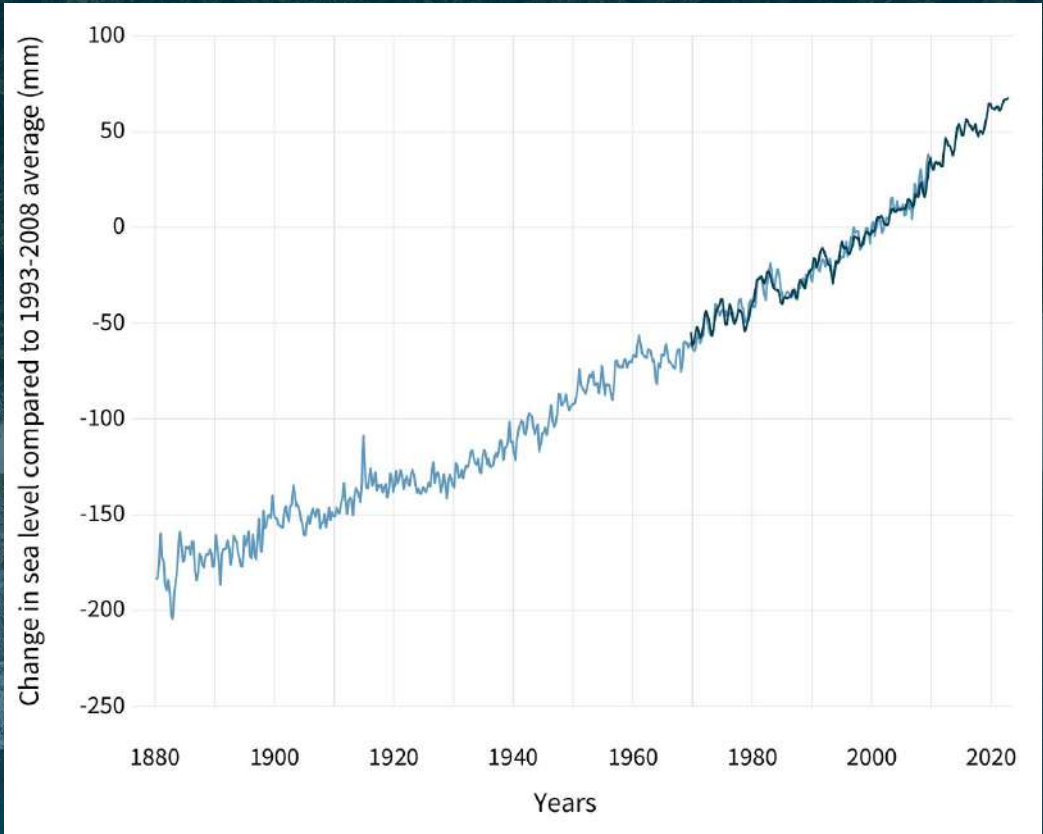Marina Rodriguez

AGE:

25

OCCUPATION:
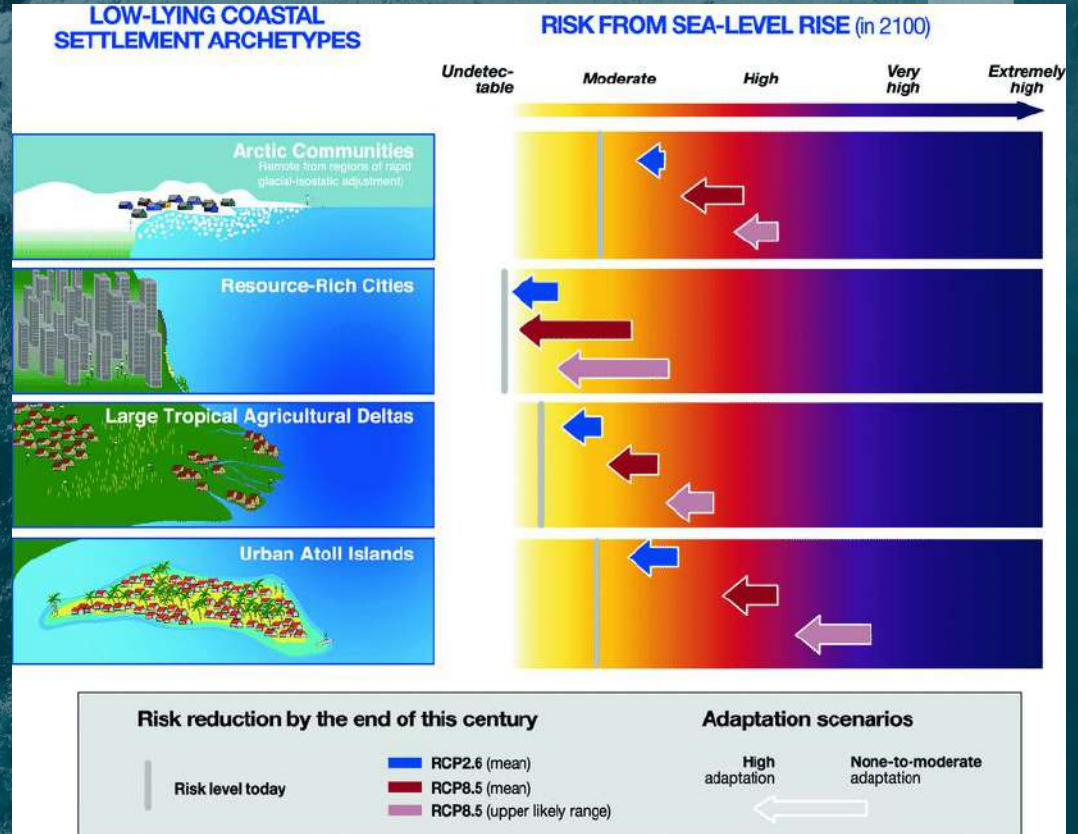
Environmental Studies

BACKGROUND:

Marina grew up in a coastal town where her father, Manuel, has been a fisherman for over 30 years.
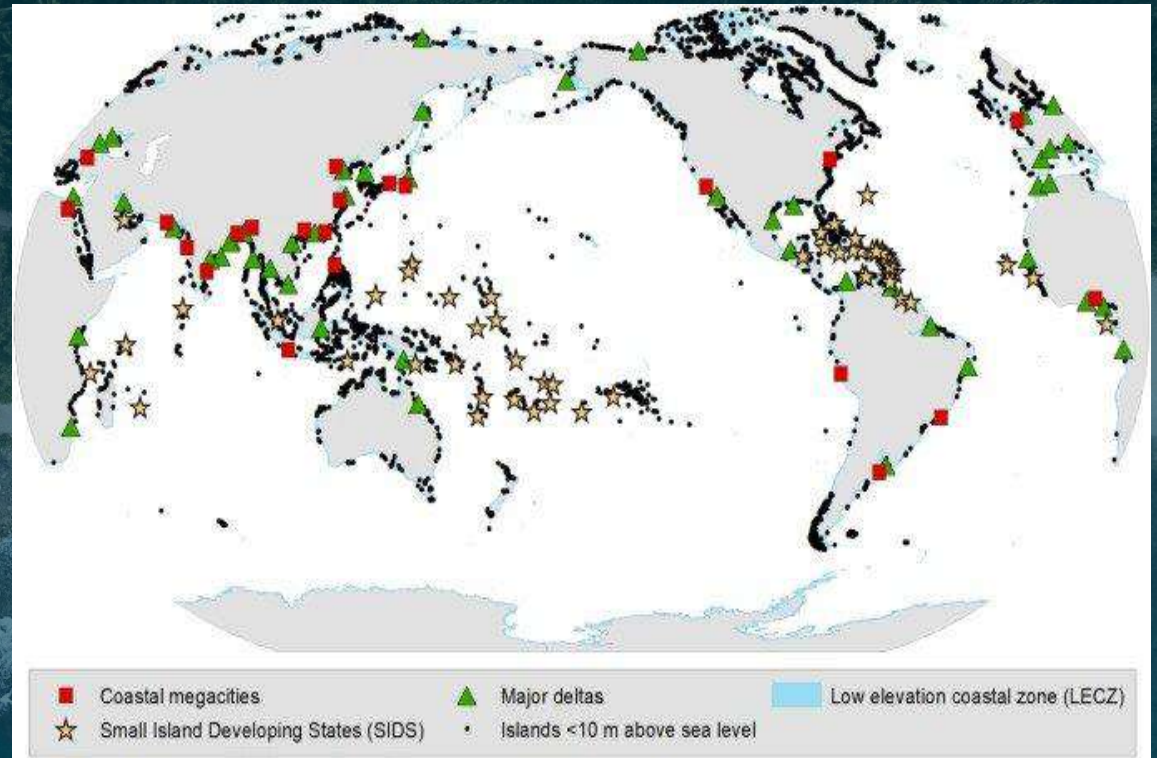
Since 1880, global sea levels have risen by about 8-9 inches (20-23 centimeters).

By 2100, it is projected that sea levels could rise by 1-4 feet (30-120 centimeters), severely impacting coastal areas worldwide.

Islands that are less than 10 meters above sea level are particularly vulnerable to sea level rise.

Coastal megacities

Small Island Developing States (SIDS)

Major deltas

Islands <10 m above sea level

Low elevation coastal zone (LECZ)
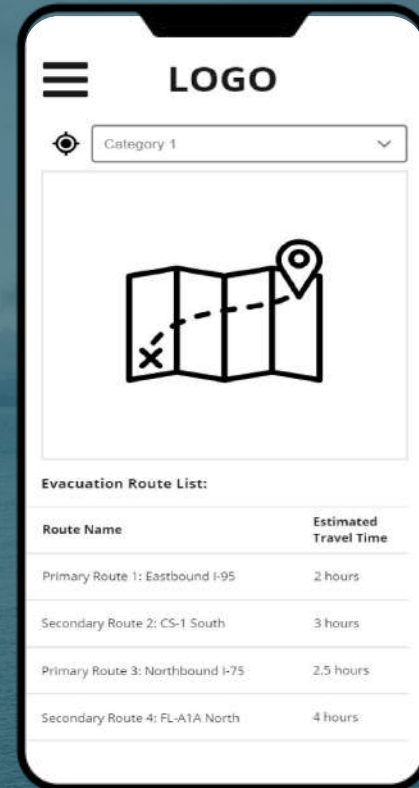
OUR GOALS

Proposed Solution:

Creating a Mobile App for Coastal Communities

Why This Solution?

The mobile app was chosen for its accessibility and scalability, offering real-time updates, evacuation routes, and disaster preparedness tips directly to users' fingertips.

Our Core Mission

Pain Points

- Connectivity Dependency:

  - Pain Point: The wireframes dependency on internet connectivity for accessing real-time updates posed a significant challenge in regions with poor or intermittent network coverage.

- Lack of Offline Access:

  - Pain Point: Absence of an offline mode within the wireframes limited access to critical information during emergencies or when internet connectivity was unavailable.

Recommendations/changes

- Streamlined Interface for Offline Access:

- Recommendation: Redesign wireframes with a simplified interface for the offline mode, enabling easy navigation and clear access to vital information.

- User-Centric Iterations for Offline Usability:

- Recommendation: Conduct further user testing specifically focusing on offline usability to gather feedback and iterate wireframes accordingly.

Future Plans with Funding

Global Reach:
Expand the app's reach beyond initial test regions to encompass global coastal areas. Collaborate with international organizations, governments, and NGOs to make the app accessible and adaptable to diverse geographical and cultural contexts.

Our Core Mission

Why : To Safeguard Coastal Communities Facing Rising Sea Levels.

Why Our Solution Matters:
Our mobile app stands as a beacon of hope, empowering vulnerable coastal communities. By providing real-time updates, evacuation routes, and educational resources.