AVEVAWORLD PARIS



Smart IOT:

Coral Reef and Mangrove Monitoring

In Partnership with



In the Service of the Filipino



C/LIBR8

In the Service of the Filipino









AFI Vision

A Philippines where communities live harmoniously with the environment and citizens are highly involved and engaged in its protection and conservation.



Environment

To preserve and enhance the amazing Philippine biodiversity



Develop and deliver science-based, strategic training programs and materials Establish communities of empowered citizen scientists

Enhance and expand scientific knowledge about PH ecosystems



Community

To uplift the quality of life of communities through prudent and sustainable utilization of natural resources





Advocacy

Empower and engage communities with knowledge, tools and skills to affect change



Individual

To make every Filipino a vigilant steward of the environment



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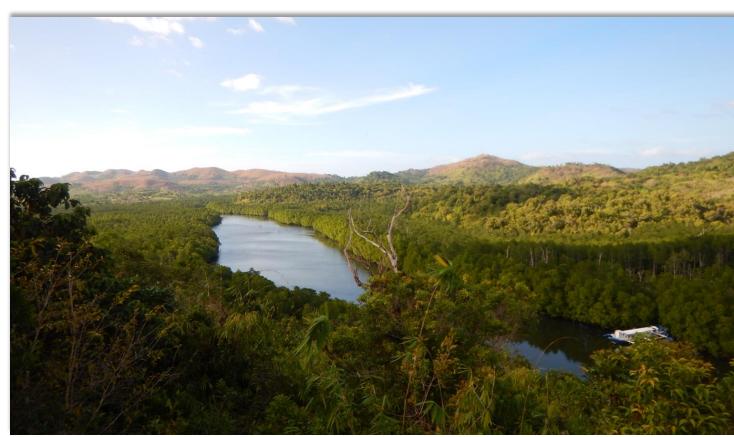
Environmental Initiatives



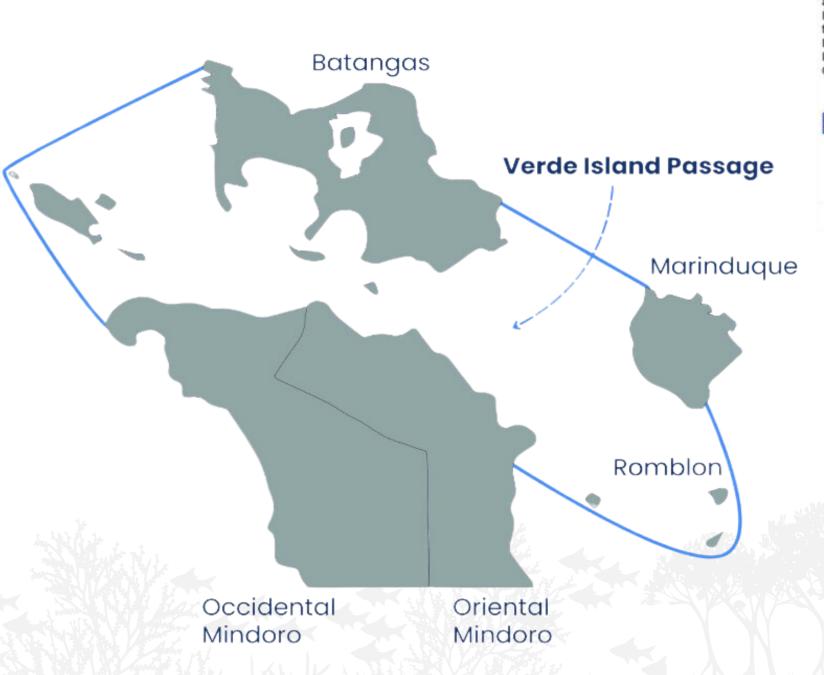


Verde Island Passage















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"Part of the coral triangle, the world's center of marine biodiversity, the **Verde Island Passage** has the highest concentration of marine fish species per unit area."

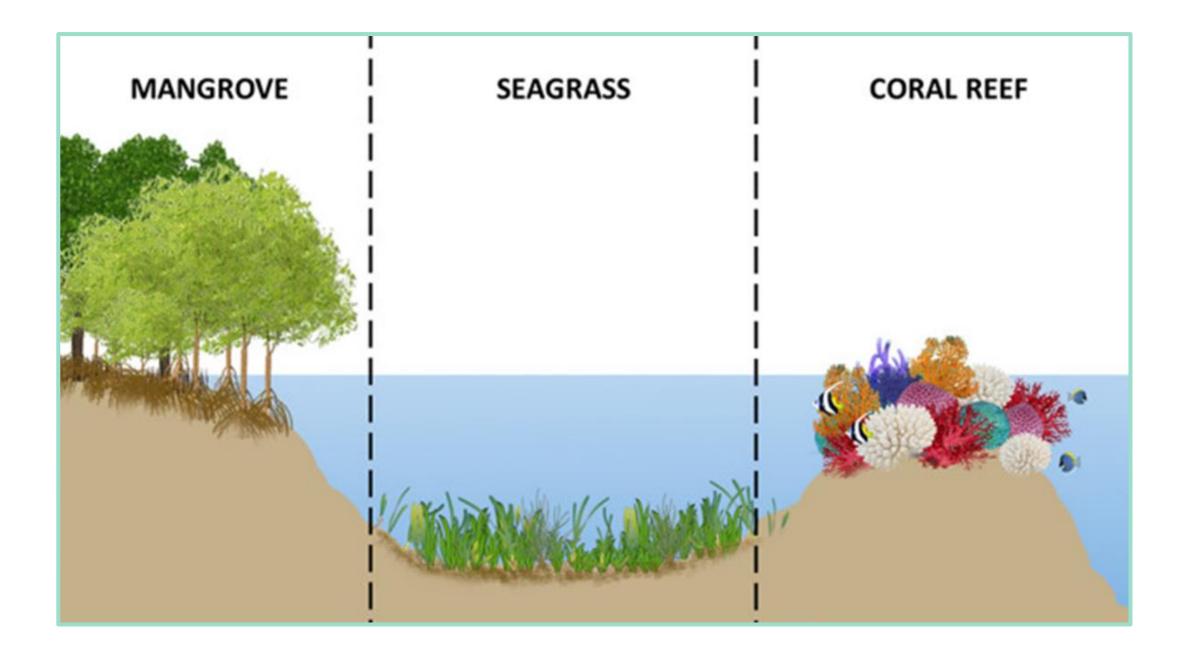


"Identified as a 'Hope Spot' critical to the ocean's health due to the abundance and diversity of its marine species."



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Serves as **feeding**, and **nursery grounds and refuge** for fish and other organisms.



Provides **50**% of the animal protein in the Philippines.













Citizen Science for Communities and Ecosystems

Scientific research with amateur scientists, students and citizens using participatory monitoring, action research, and scientific discovery.



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Stakeholders and Partners

Strengthen Advocacy

Growing Citizen Science

Integration with Programs

Scale through Platform







Citizen Science

















Seagrass



Mangroves

















Br. Alfred Shields FSC Ocean Research Center













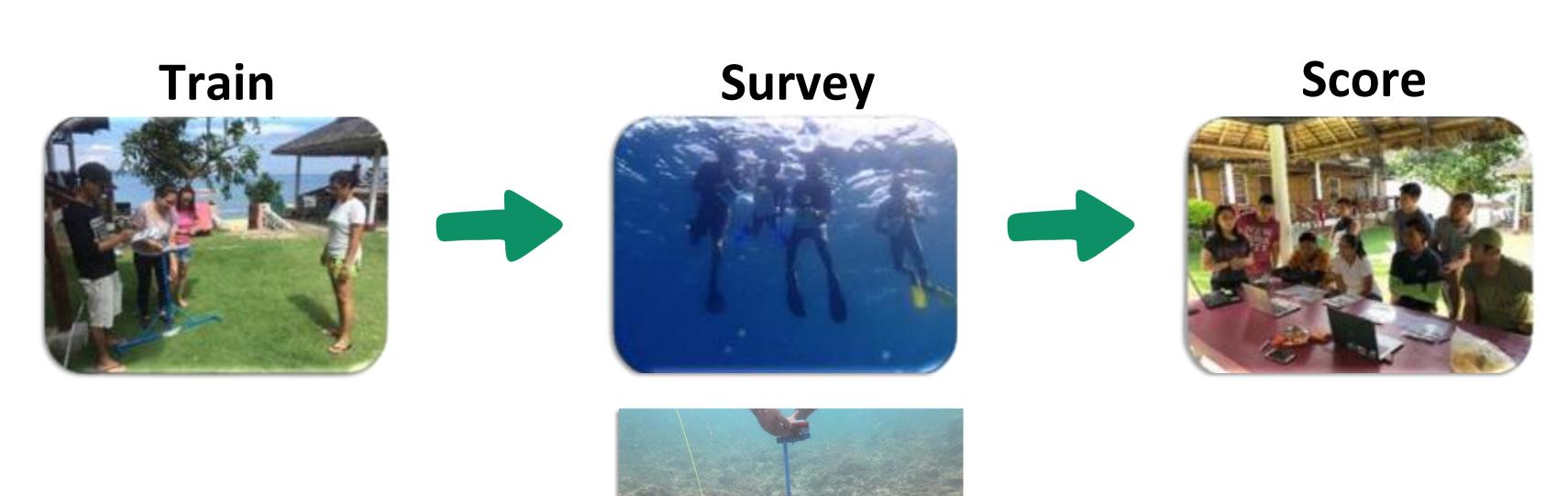






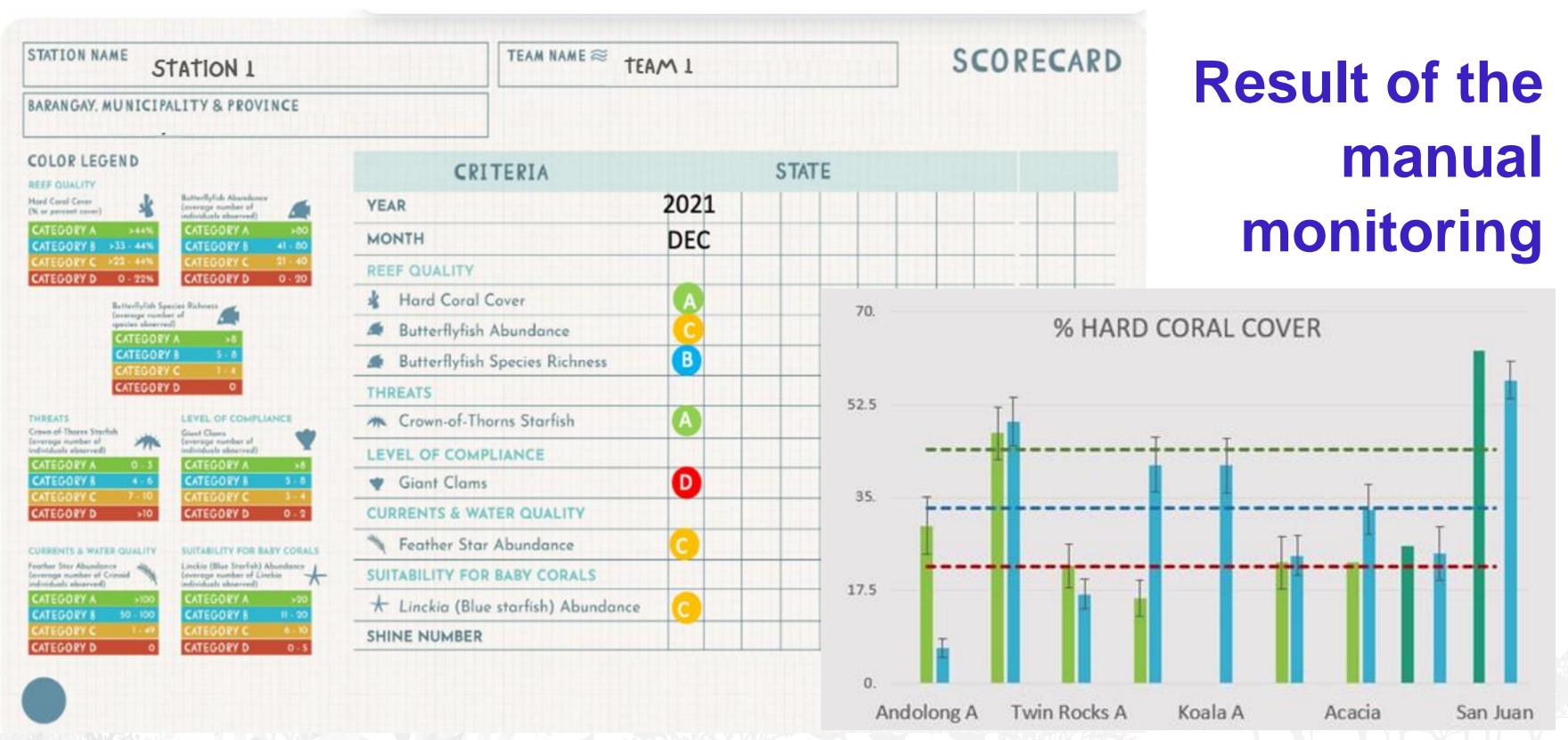


ALWAN Method for Coral Reefs













Mobile Phone Application for Mangrove and Seagrass







Workshop



Survey



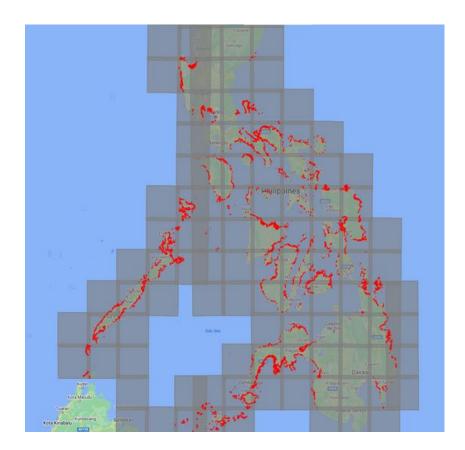
Uploading



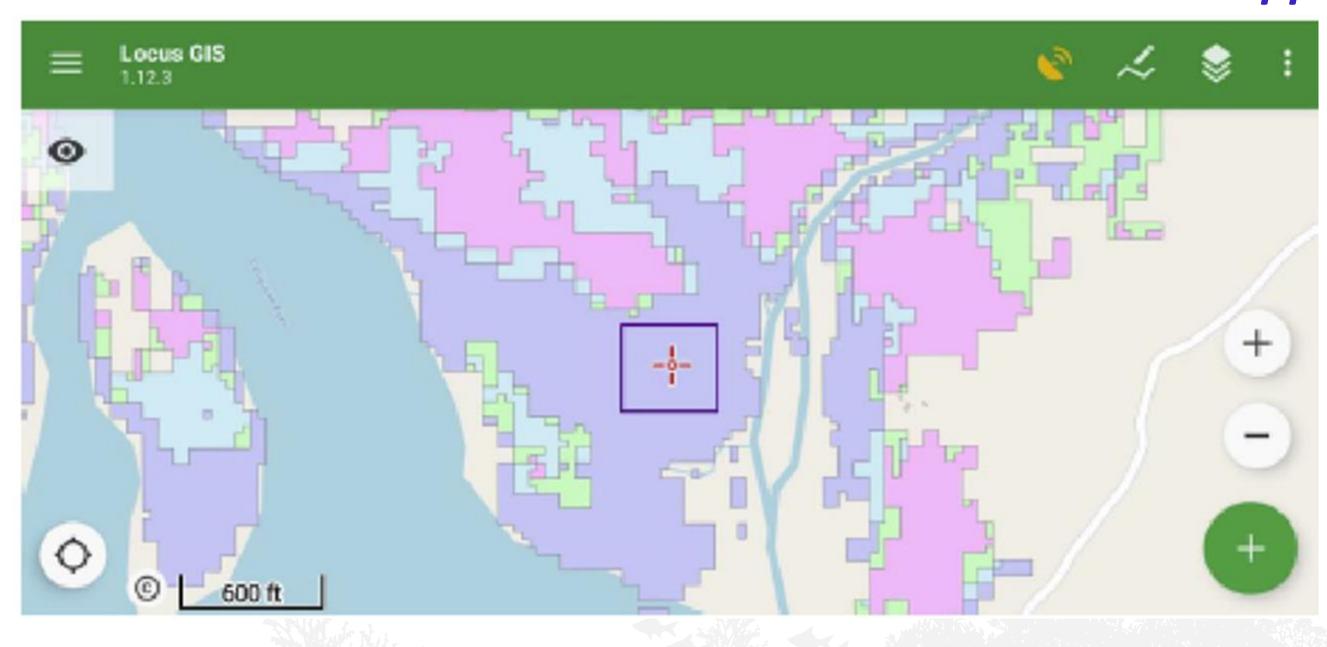
Mangrove Data



Mobile app





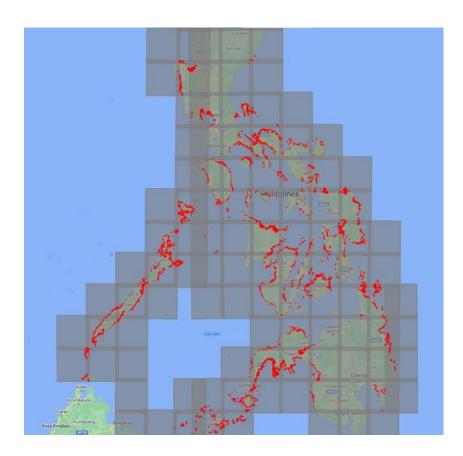


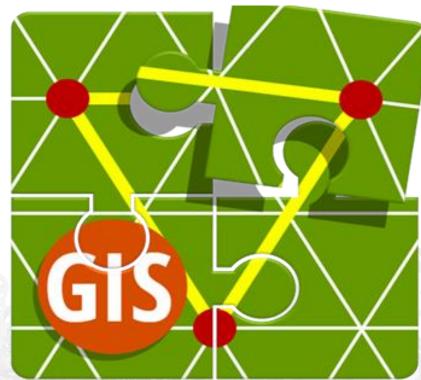


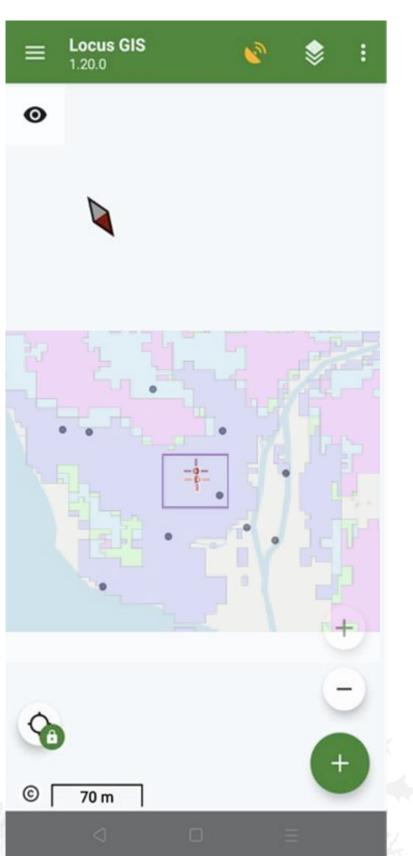
Mangrove Data

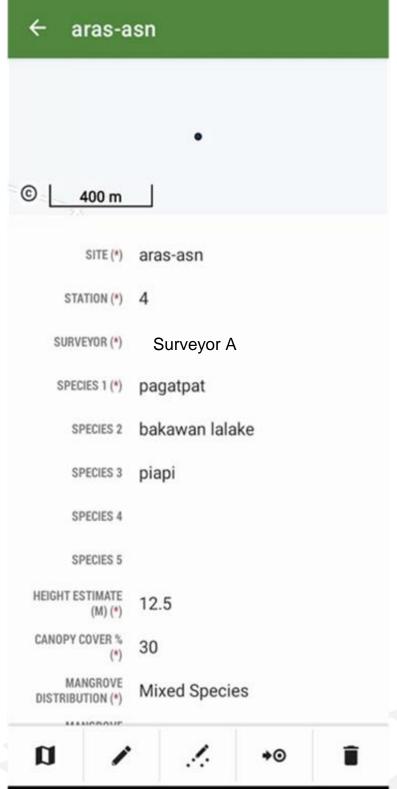


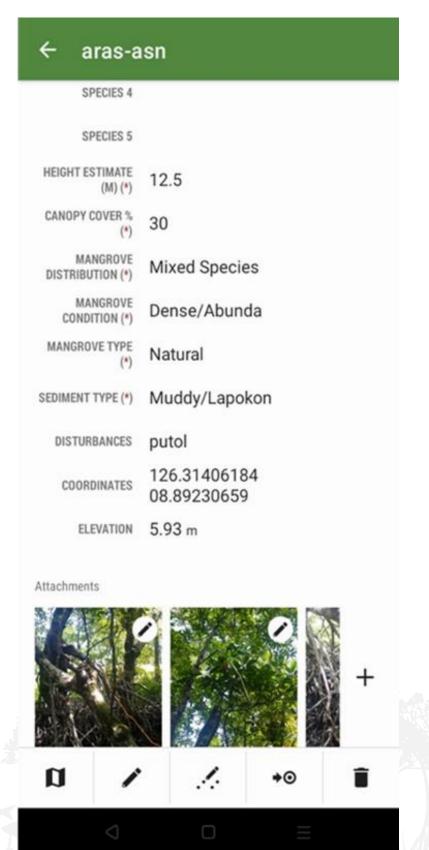
Mobile app













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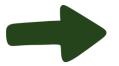
Input



Integrate



Report



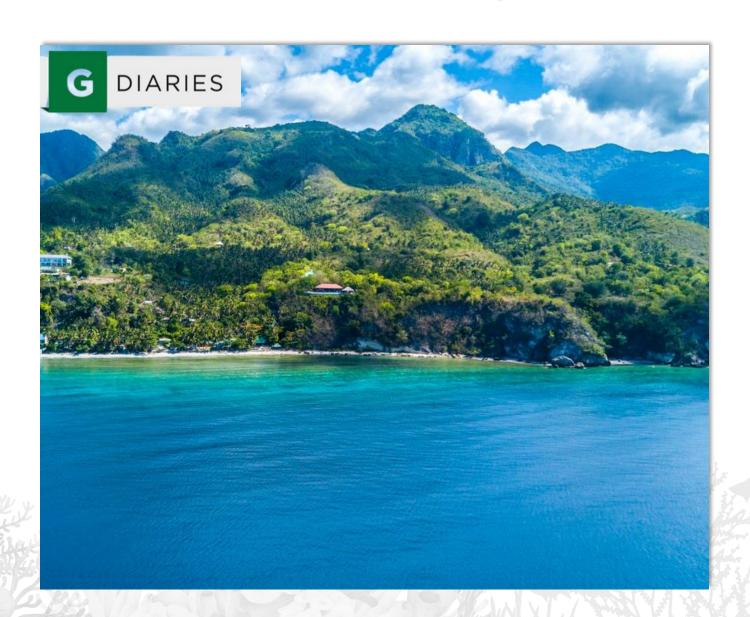
SUSTAIN



C/LIBR8

OUR MISSION

We empower global communities by harnessing data for a sustainable future.















Collaborating with AFI and volunteers









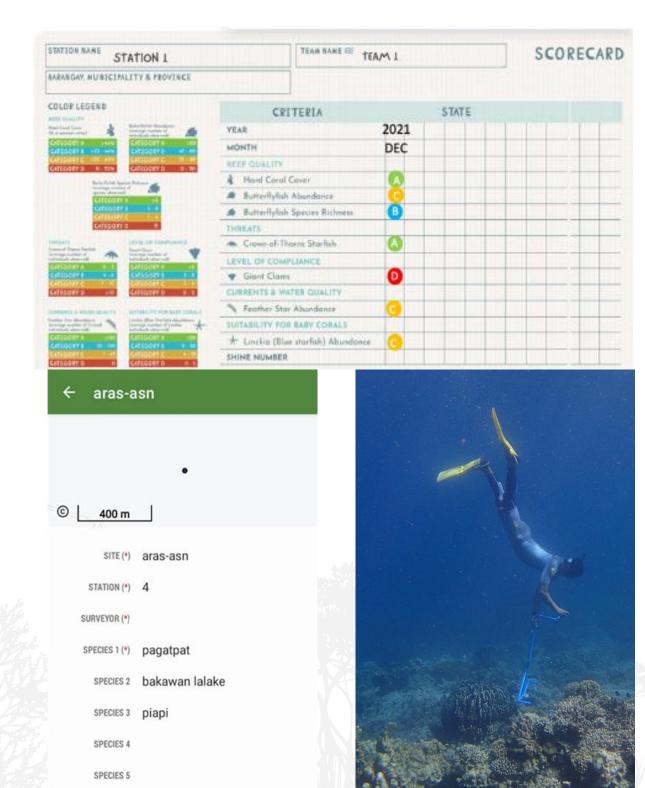
Siloed data repository



No data historization for trending and correlations



Unsafe manual data gathering



Solution Approach



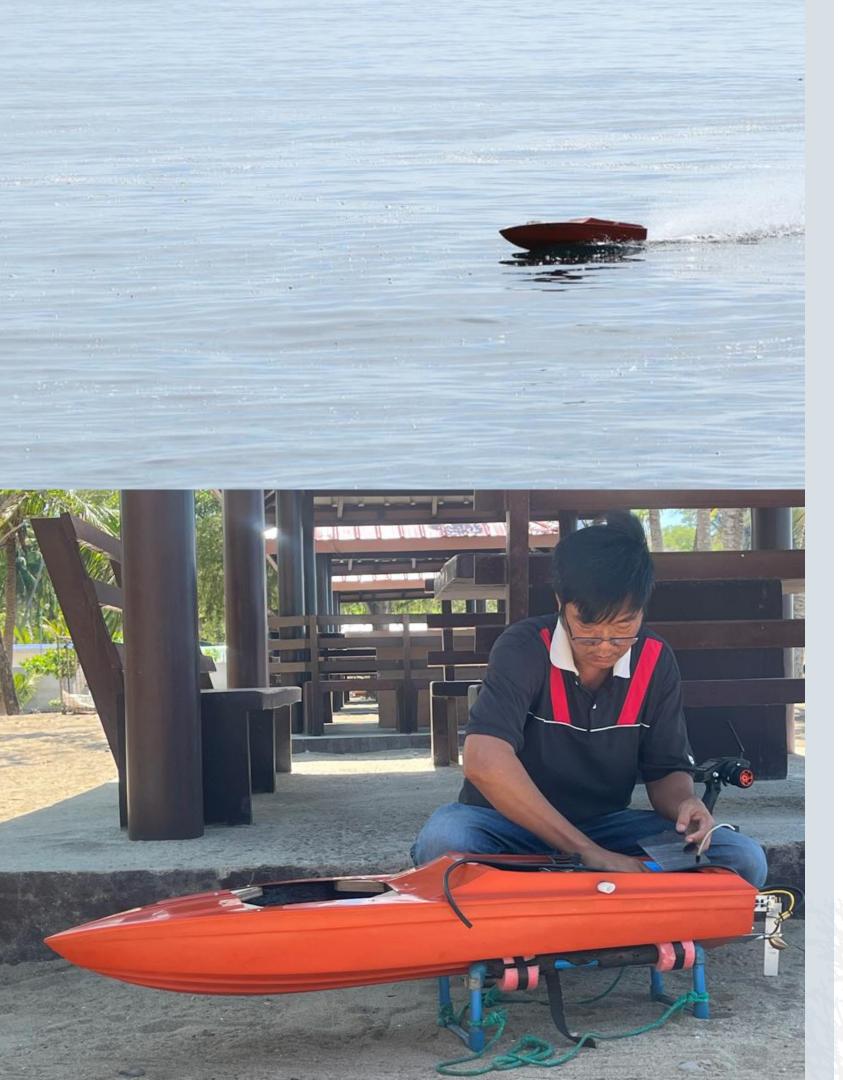






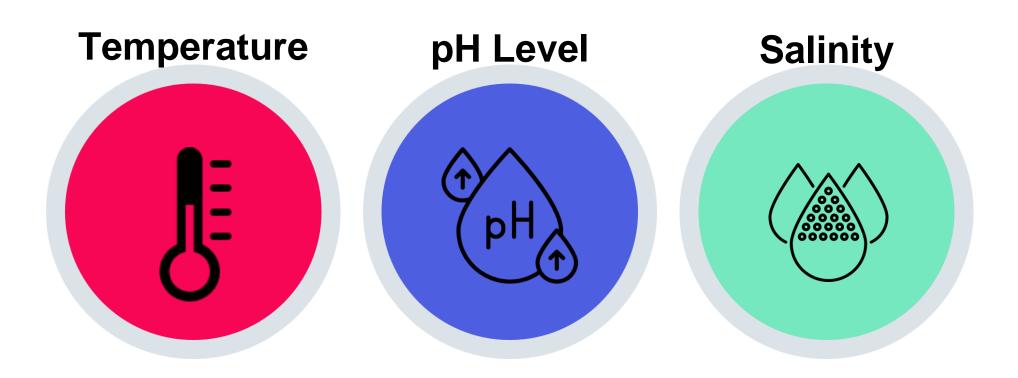
In the Service of the Filipino

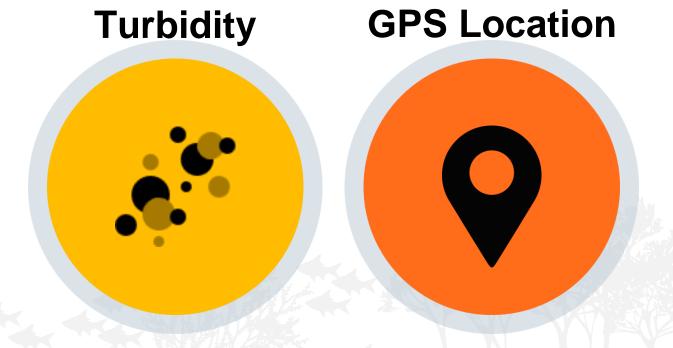






IOT Sensors











08/06/2024

Location: Calapan, Harka Piloto

Coordinate: 13.44085 N, 121.22060 E

Average pH Level: **10.37**

Average Total Dissolved Solids: 2441.23

Average Temperature: 29.46

Average Turbidity: **0.31**



09/06/2024

Location: Naujan

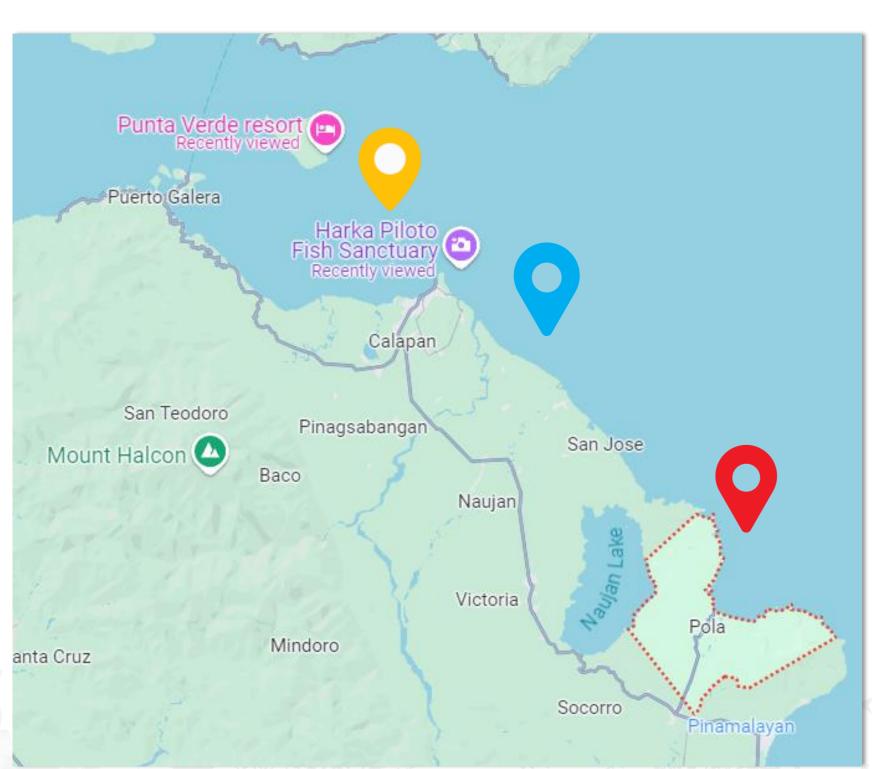
Coordinate: 13.23983 N, 121.42582 E

Average pH Level: 8.36

Average Total Dissolved Solids: 2405.156

Average Temperature: 32.02

Average Turbidity: 0.32





10/06/2024

Location: Pola

Coordinate: **13.22027 N, 121.44451 E**

Average pH Level: **8.41**

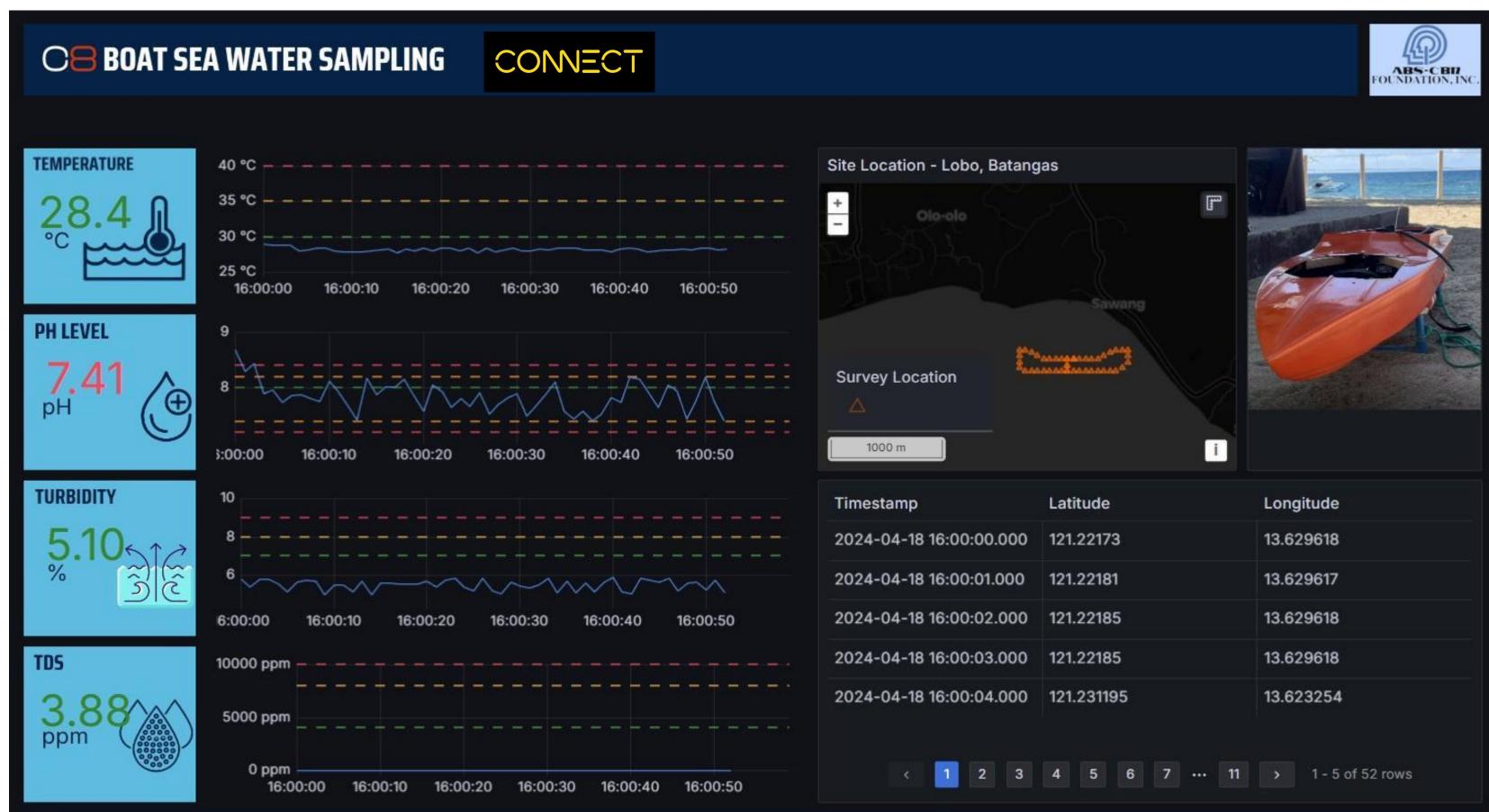
Average Total Dissolved Solids: 2394.36

Average Temperature: 31.76

Average Turbidity: **0.31**

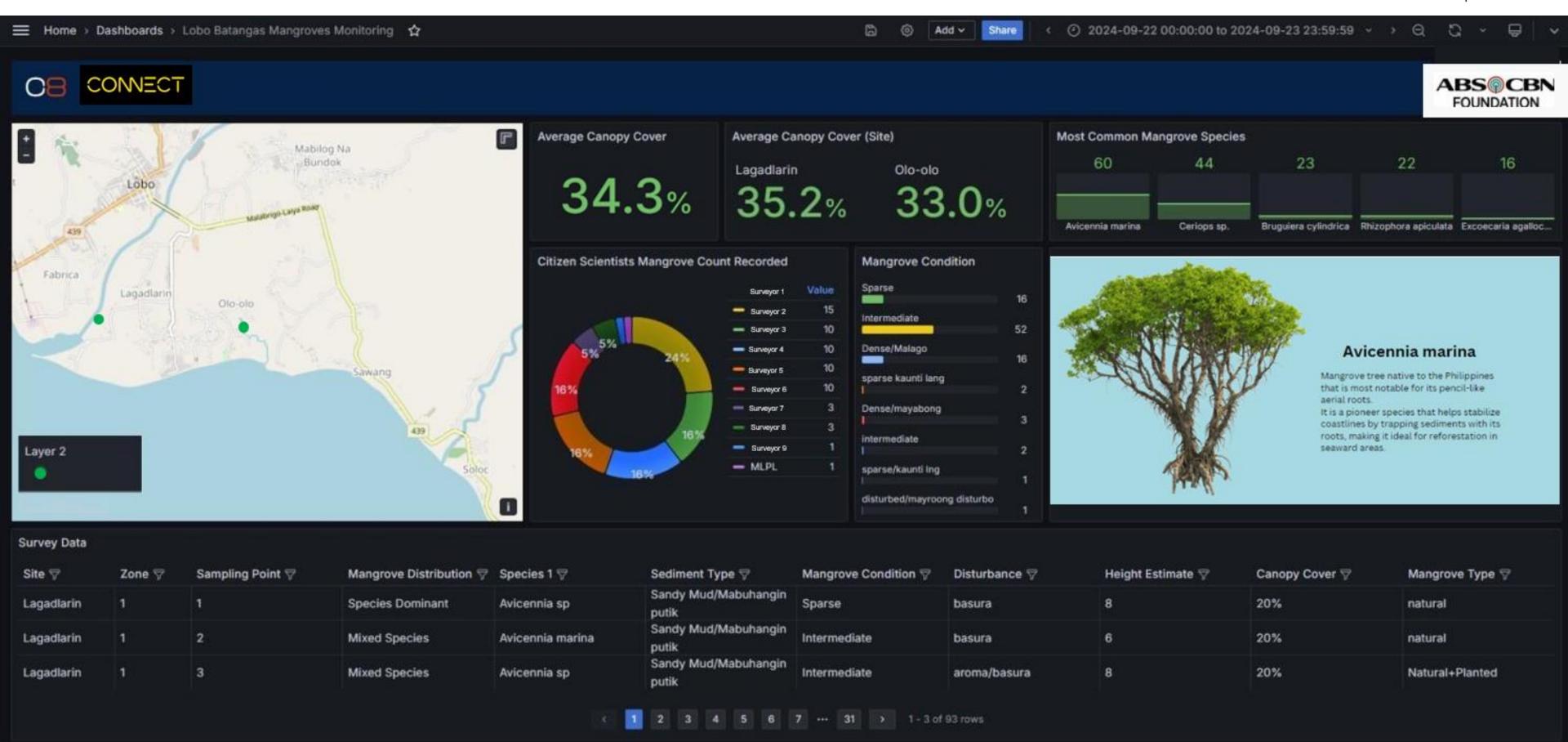


















AFI Future Looking



 Incorporate seagrass data into the dashboard.



 Increase the collaboration among universities, SMEs, communities, sponsors and volunteers, through real time data.

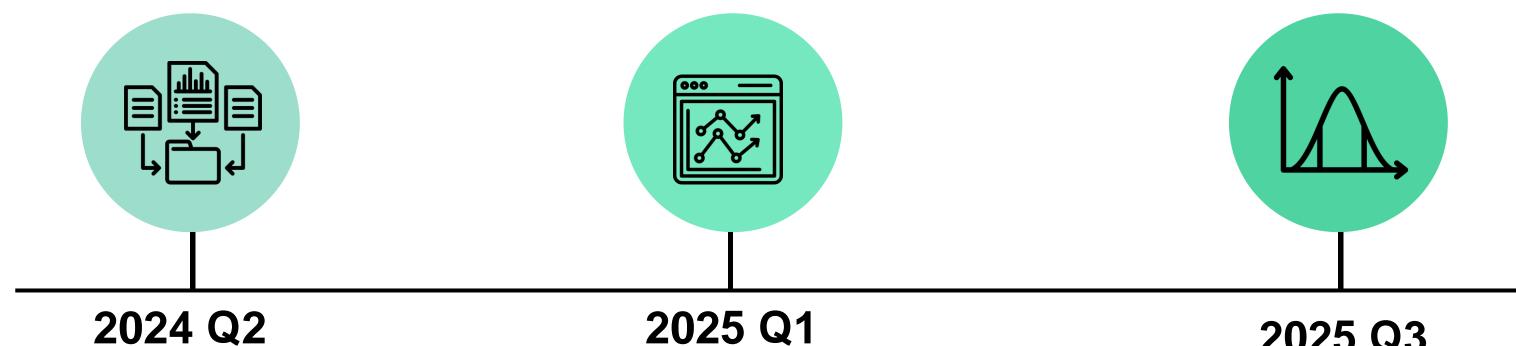


 Inspire different sectors into creating programs and policies that will support and empower marine conservation.



Solution Roadmap





- Boat Version 1
 - Temperature
 - pH Level
 - Salinity
 - **Turbidity**
 - GPS Location
- Ingested / processed mangrove data

Boat Version 2

- dissolved oxygen
 - depth sensors
- Incorporate seagrass and mangrove data
- Consolidate dashboards

2025 Q3

- Data Historization in CONNECT
- Complete dataset
- Calculation of rate of changes, degradation of abnormal patterns.
- Equipping the citizen science in operating the boat.





Shaping a sustainable future with DATA.



Sustainability | Philippines

ABS-CBN Foundation Inc. gets Real Time Data for Coral Reef and Mangrove Conservation

Challenge

- Siloed data repository.
- No data historization for trending and correlation.
- Unsafe manual data logging (in times of calamity, oil spill).

Solution

- Automate real-time data gathering through RC Smart Boat.
- CONNECT Data Services provide a Real Time Dashboard making data accessible to all stakeholders to enable collaboration and make data driven decisions

Results

- As a result of data sharing with stakeholders, 7 municipalities within the Verde Island Passage have access to baseline data for local policy making and comparisons in the event of human or natural disasters.
- Through this collaboration between AFI and Calibr8, we were able to get Special Funding from the private sector to support the needs of this project.



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