

Maximizing Impact for Marine Wildlife Conservation











COM S	Pollutio
	We treat it

What we put in

like a dump

Overfishing We deplete fish stocks to the

What we take out

point they cannot recover



Acidification + **Climate Change** We add carbon to the atmosphere that increases water temperature and acidity



Energy





Noise We run loud ship engines that

fish kills

column

Habitat Loss

We urbanize watersheds and

nearshore ecosystems



Eutrophication + Hypoxia We allow agricultural runoff that causes algal blooms and

interfere with animals that

use sound to hunt

Deep Sea Mining Uncharted territory. If we do this poorly, we will destroy deep seafloor ecosystems

STELLER SEA

Eumetopiasjubatus

Its population has declined by more than 60% due to natural & human threats since the 1960s.

HAMMERHEAD SHARK

Sphyrna Mokarran

This species of sharks are critically endangered with population around

200

KEMP'S RIDLEY SEA TURTLE

Lepidochelys Kempii

It is endangered by the rarest and smallest sea turtle.

FIN

Balaenopteraphysalus

The global population of Fin Whale ranges from below

~75,000

HECTOR'S DOLPHIN

Cephalorhynchushectori

the estimated population of hector's dolphins are

10 ENDANGERED OCEAN SPECIES & MARINE ANIMALS

HAWKSBILL TURTLE

Eretmochelys Imbricate

Their population has declined by 80% over the last century.

HAWAIIAN MONK SEAL

Monachusschauinslandi

Only 1,400 Hawaiian Monk Seal remains on the Islands.

GREEN SEA TURTLE

Cheloniamydas

The loss of sandy beaches and careless fishing have reduced their population.

BLUE

Balaenoptera Musculus

The largest living mammal on earth with global population

10,000-25,000

VAQUITA

Phoeocna Sinus

They are the world's smallest and critically endangered cetaceans. There are fewer than 10.





	Factor	Can we influence it?
1	Climate change	X
2	Human behaviour	

PRINCIPLES

Education

Awareness

Community engagement

Citizen science

Story telling

ESG

OUTCOMES

Habitat protection

Pollution control

Sustainable fishing

Ocean acidification reduction

Energy consumption optimisation

Deep sea mining regulation

Climate change mitigation

Marine protected areas

Technolog y

Education Awareness Community engagement Citizen science Story telling

Data & Content

Sensoric data Scientific data Meta information Crowdsourcing

+

Engaged users

Branded web apps Embeds Mobile apps

Increased impact in the real world

Data sources

Mapotic

B2B2C









DATA AGGREGATION

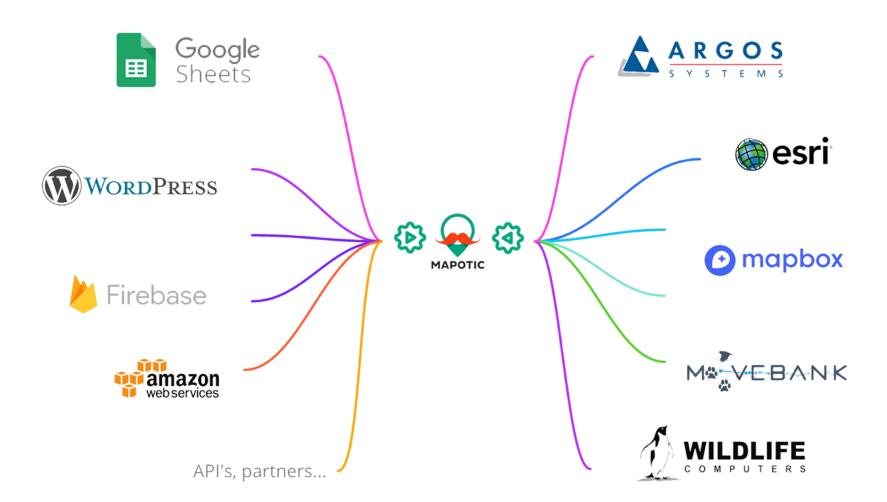
Branded apps

Web & mobile, embeds





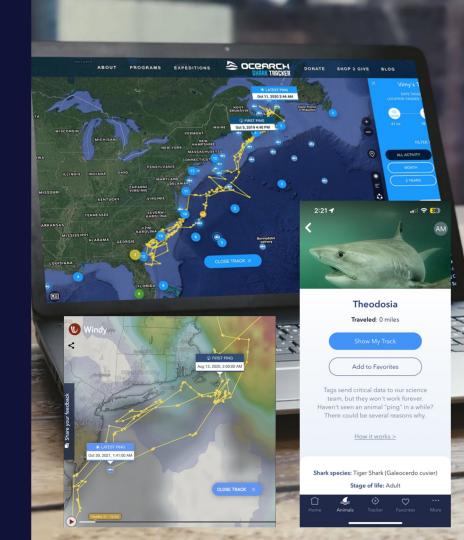
Target audiences



OCEARCH

Globally biggest shark tracking platform

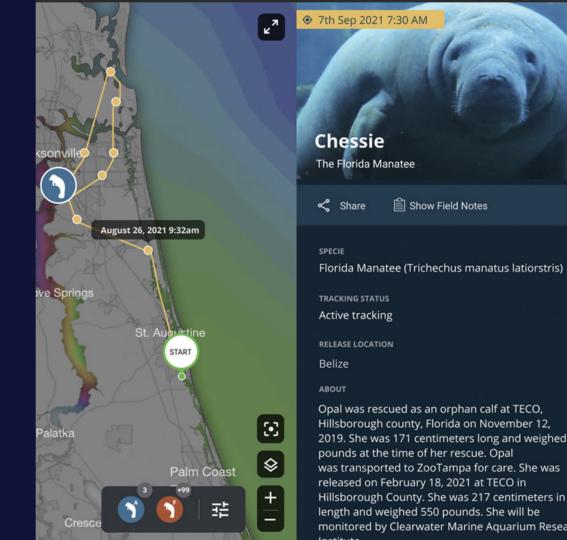
- Tracking data coming from Argos satellite
- Meta information (bio, pictures, attributes) edited in CMS
- ESRI layers, weather data from Windy
- Reached 2M registered users in 12 months
- Publicity in FoxNews TV, USA today, Forbes
- Shark Mary-Lee had 100k followers on Twitter



TRACKING & TELEMETRY

Clearwater Marine Aquarium

- Tracking data via Wildlife computers
- Bios and images via CMS
- Weather data via Windy
- Scientific data and measures from the field via back office
- Hundreds of thousands views monthly



TRACKING & TELEMETRY

FAHLO

Globally biggest shark tracking platform

- Saving wildlife through partnerships with NGOs
- Hundreds of thousands users per month
- 10% of each sale goes to NGO

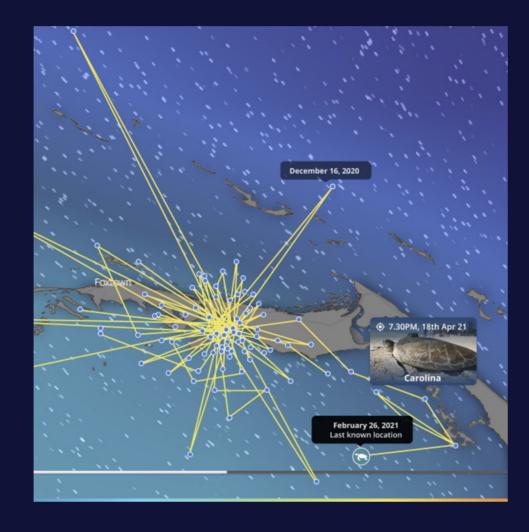


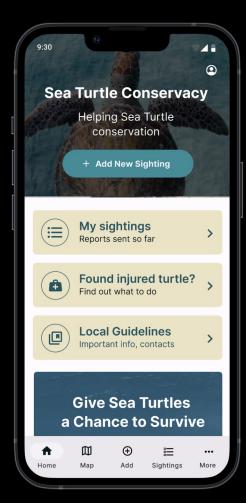
TRACKING & TELEMETRY

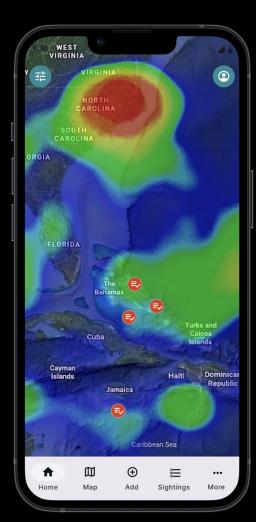
Sea Turtle Conservancy

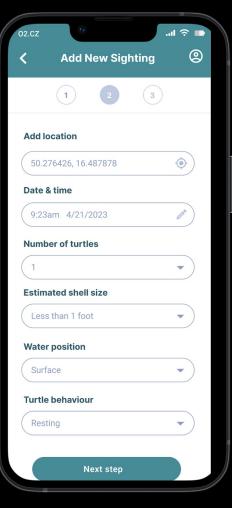
Pioneering NGO founded in 1965 tracked thousands of Turtles

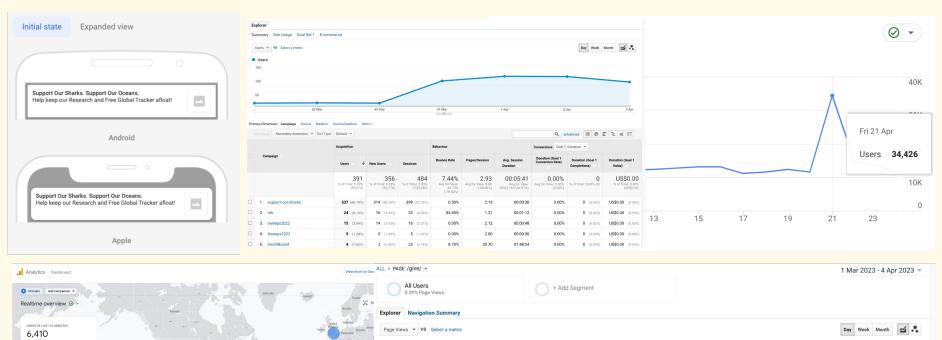
- Embedded maps and mobile app
- Weather data layers
- App helps increase fundraising and donations

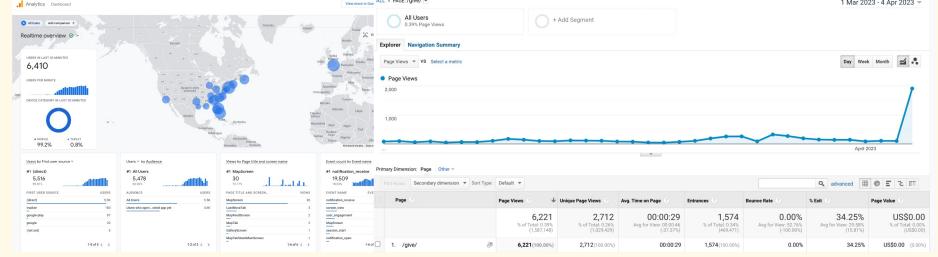














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Maximizing Impact for Marine Wildlife Conservation: Geolocation Data Aggregation and Community Engagement

Ivos will discuss how geolocation data aggregation can help organizations engage communities, attract fans and donors, and make a positive impact on our oceans and the species living in them. We will explore how Mapotic's platform collects data from multiple channels, including IoT and sensoric hardware, and real-time weather maps to create attractive and easy-to-consume web and mobile applications for wildlife monitoring. These apps provide organizations with powerful tools to boost their engagement efforts, stimulate citizen science, promote environmental education, and attract funding for wildlife conservation. The ultimate goal is to help the scientific and environmental community spread their mission, gather more information, and engage more people in sustainability and environmental matters.

¹ Globally largest near-real-time shark tracking portal and mobile app <u>www.ocearch.org</u>

² Main mobile app for tourism in Czech Republic App store, Google play