MAPTHECLOUDS

Alexa Cristina

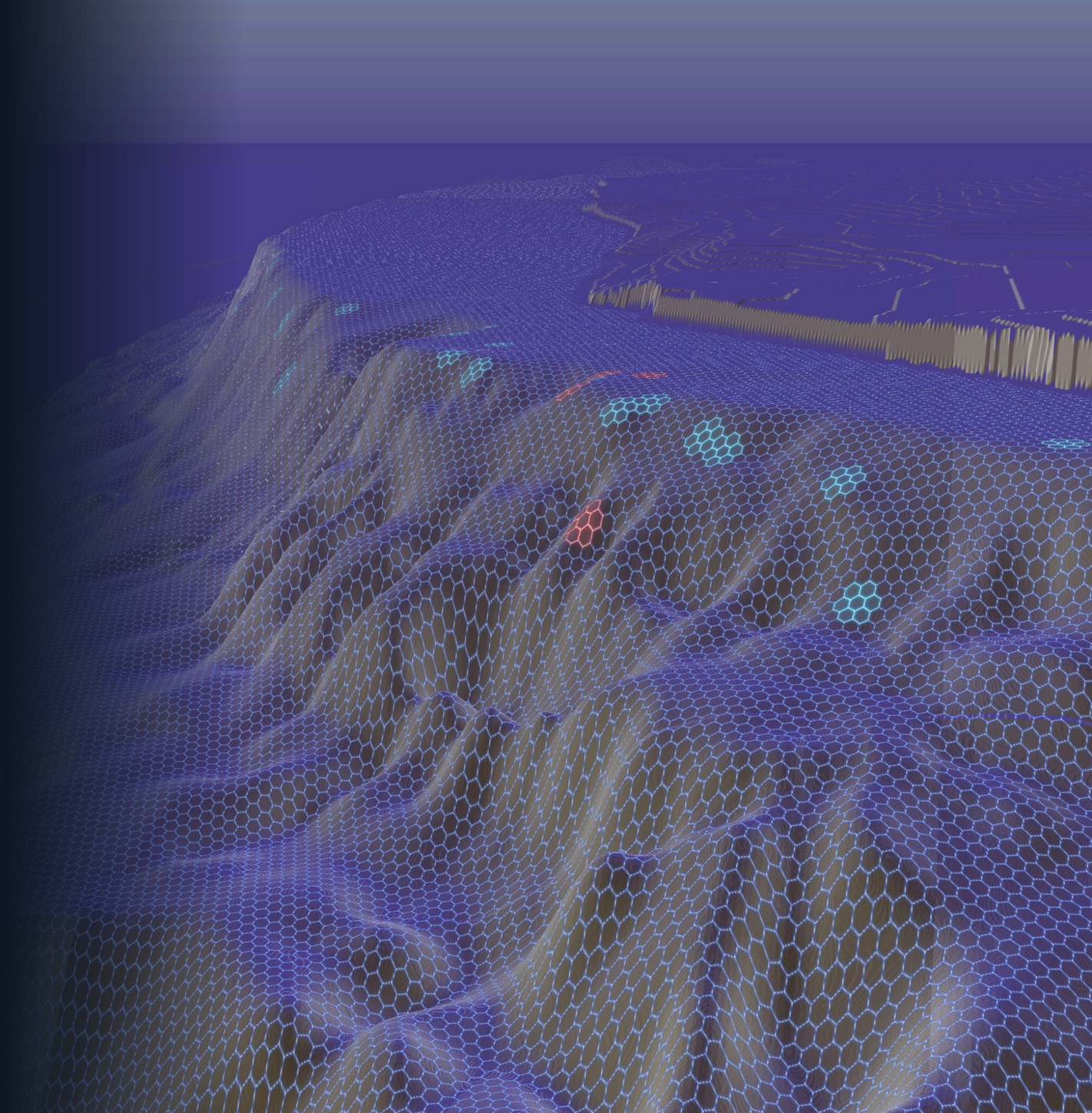
Senior Geospatial Developer

Interactive maps, spatial data platforms and 3D in the browser

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Capabilities deck 2026



Spatial data platforms.
3D maps in the browser.
Maps that fit into what you already have.

I turn large, messy spatial data into maps people can read, from a global view down to a single record, and I build them to stay fast in production.







WHO I AM

From classic cartography to real-time 3D

I have spent **18+ years** with maps: cartography and GIS first, then web maps, then 3D in the browser. I work where data, design and performance meet.

The map has to be accurate, fast, and clear to someone who has never opened a GIS package. Outside client work I build my own experiments, like the ones on the left, to keep learning in public.

Based in Romania, working remotely with teams in the US and Europe.

The track record

Most of my clients prefer to stay unnamed, so instead of logos, here is what can be checked publicly.

18+
years in cartography, GIS and web mapping

100%
Job Success on Upwork, Top Rated

29
projects delivered on Upwork

2M+
companies served on one production map platform

15+
months in production for a 3D marine platform

100/100
days of the #100DayMapChallenge, completed

How I work

01

Short discovery

I look at your data and your current site first, often before the first call, so we talk about real problems.

02

Written scope

Phases, deliverables and a fixed or capped price, agreed before any work starts.

03

Visible progress

A working preview early on, then small increments you can review, not one big reveal at the end.

04

Clean handover

Code, accounts and documentation stay in your name, so another developer can pick it up.

I work as a senior contractor. When you write, you talk to me, not to an account manager.

What I build

From a single map added to an existing website to a full spatial data platform, with the data work, the frontend and the hosting handled in one place.

MAPS AND 3D

- Interactive web maps (MapLibre, Mapbox GL)
- 3D maps and terrain (Three.js, WebGL)
- Custom map styles and basemaps
- Map integration into existing sites and CMS
- Scrollytelling and guided map tours

DATA AND PLATFORMS

- Spatial data processing (QGIS, PostGIS)
- Data pipelines for millions of features
- React dashboards with map views
- APIs and databases (GraphQL, PostgreSQL)
- Hosting and edge caching (Cloudflare, AWS)

PERFORMANCE

- Audits of slow or broken web maps
- Vector tiles and PMTiles delivery

SECTORS SO FAR

- Environment and climate, marine, energy
- Culture and heritage, real estate, events

Selected work

Four client projects, shown with the clients' permission and without identifying details.

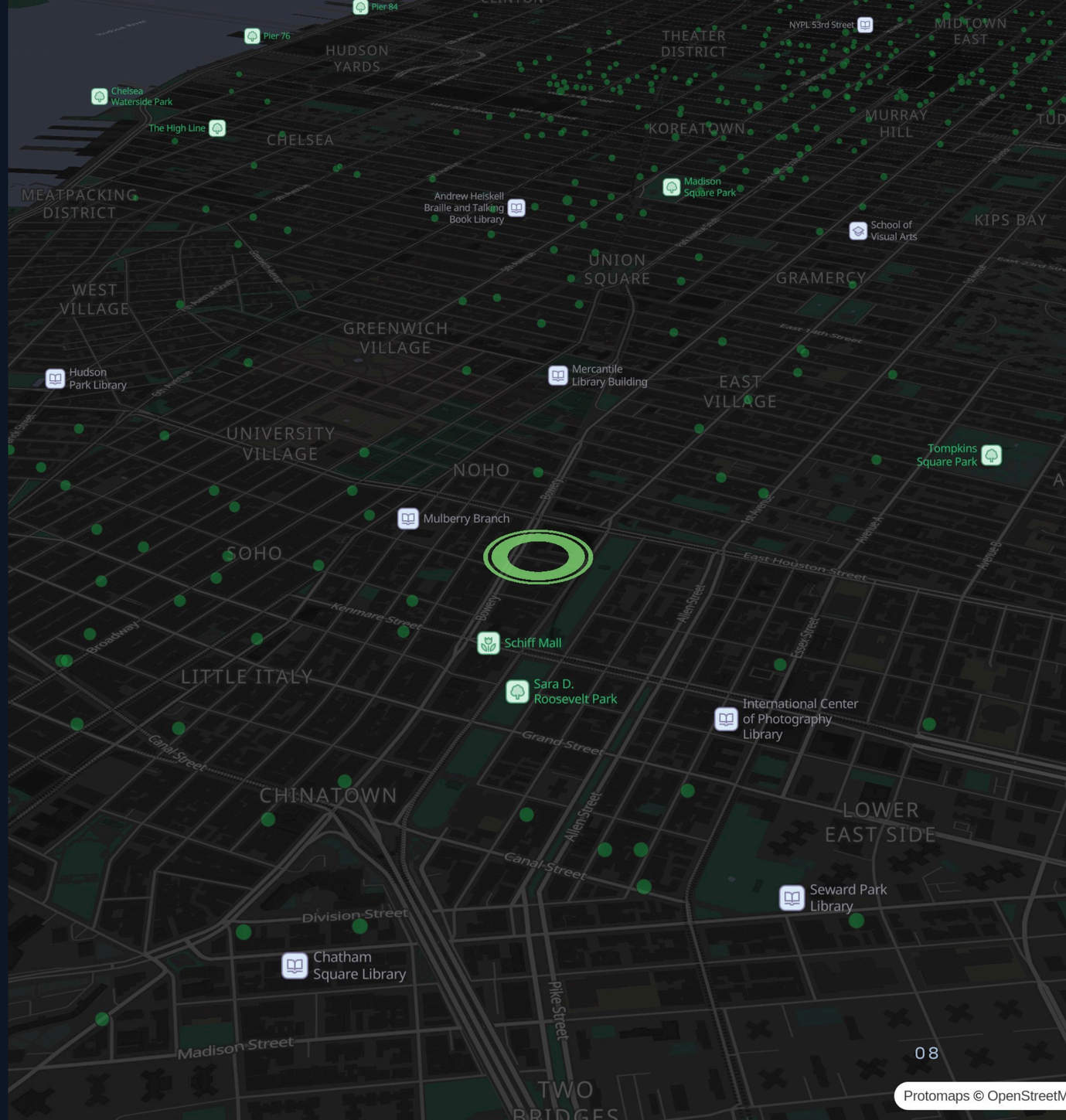
ENVIRONMENTAL DATA PLATFORM

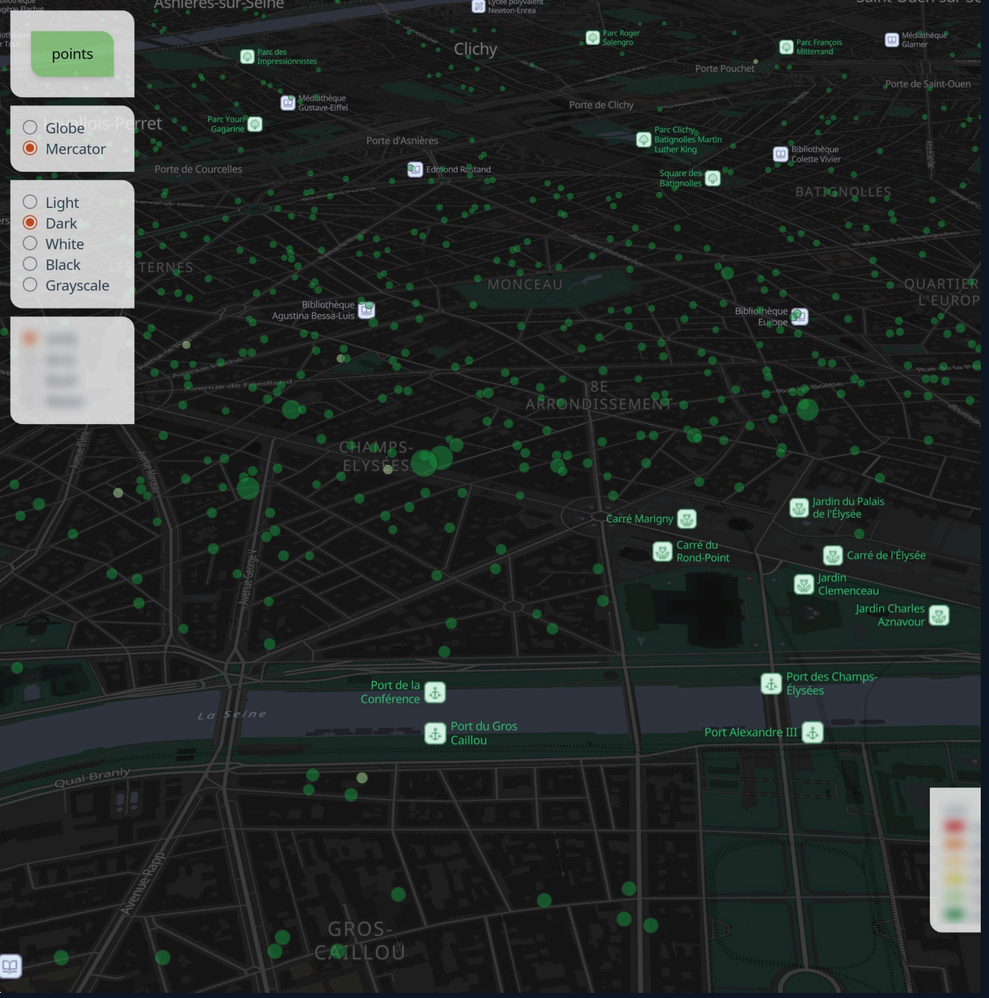
Making 2 million companies' environmental footprint explorable

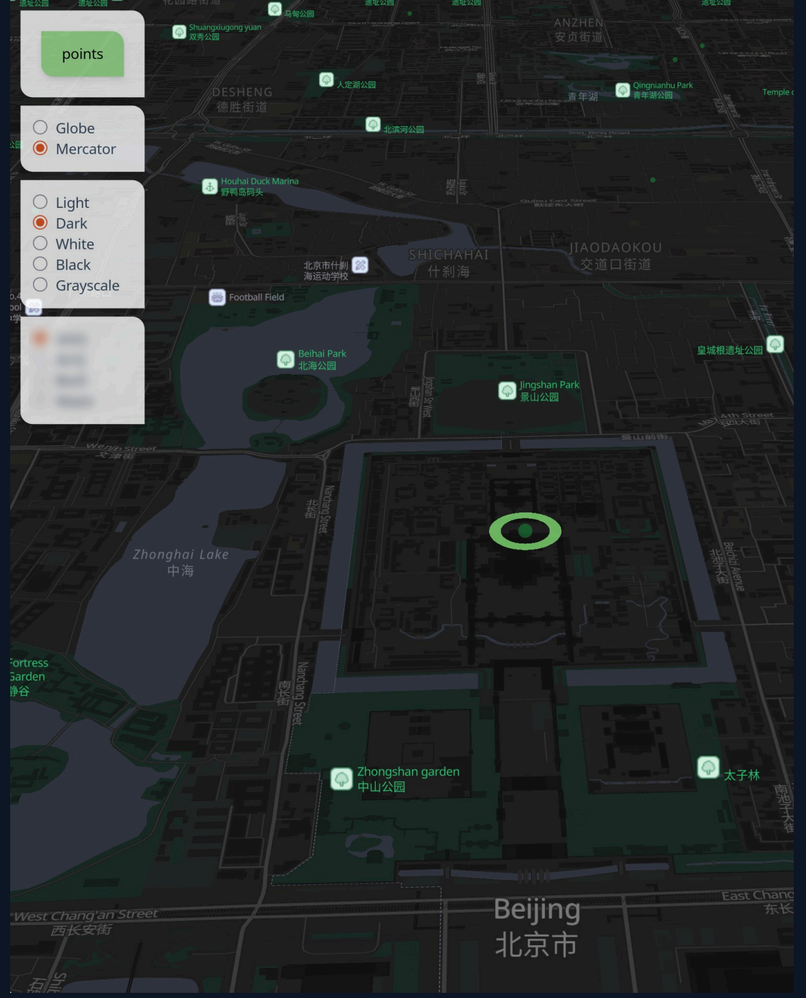
A research organization focused on environmental data had millions of company records and a live website, but no way to explore them on a map. I built the geospatial and frontend layer end to end, from a global view down to a single company, on an open-source stack the organization can afford to run.

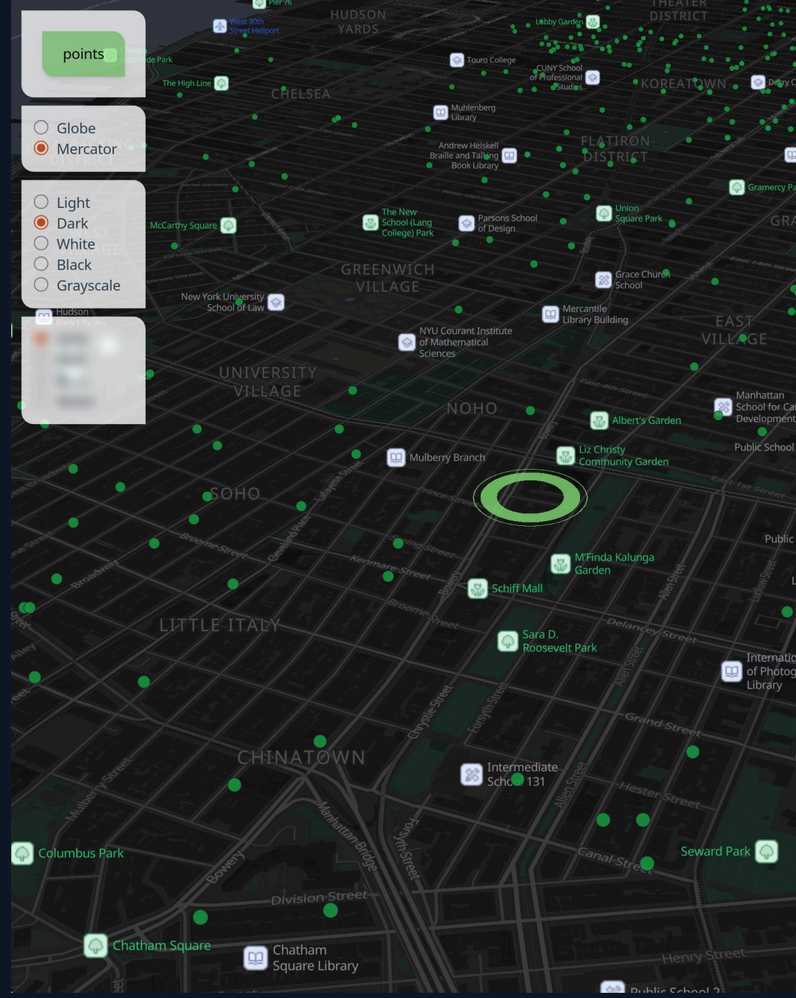
SCOPE	Geospatial architecture, frontend engineering, data pipeline, infrastructure
STACK	MapLibre GL, PMTiles, React, Vue/Nuxt, GraphQL, PostgreSQL, Cloudflare
SECTOR	Environmental research

▶ Watch the 1-min demo









IMPACT

2M+ companies, interactive, in production

Delivered over several phases and extended repeatedly. In the client's words: “Working with Alexa was one of the best decisions we've ever made.”

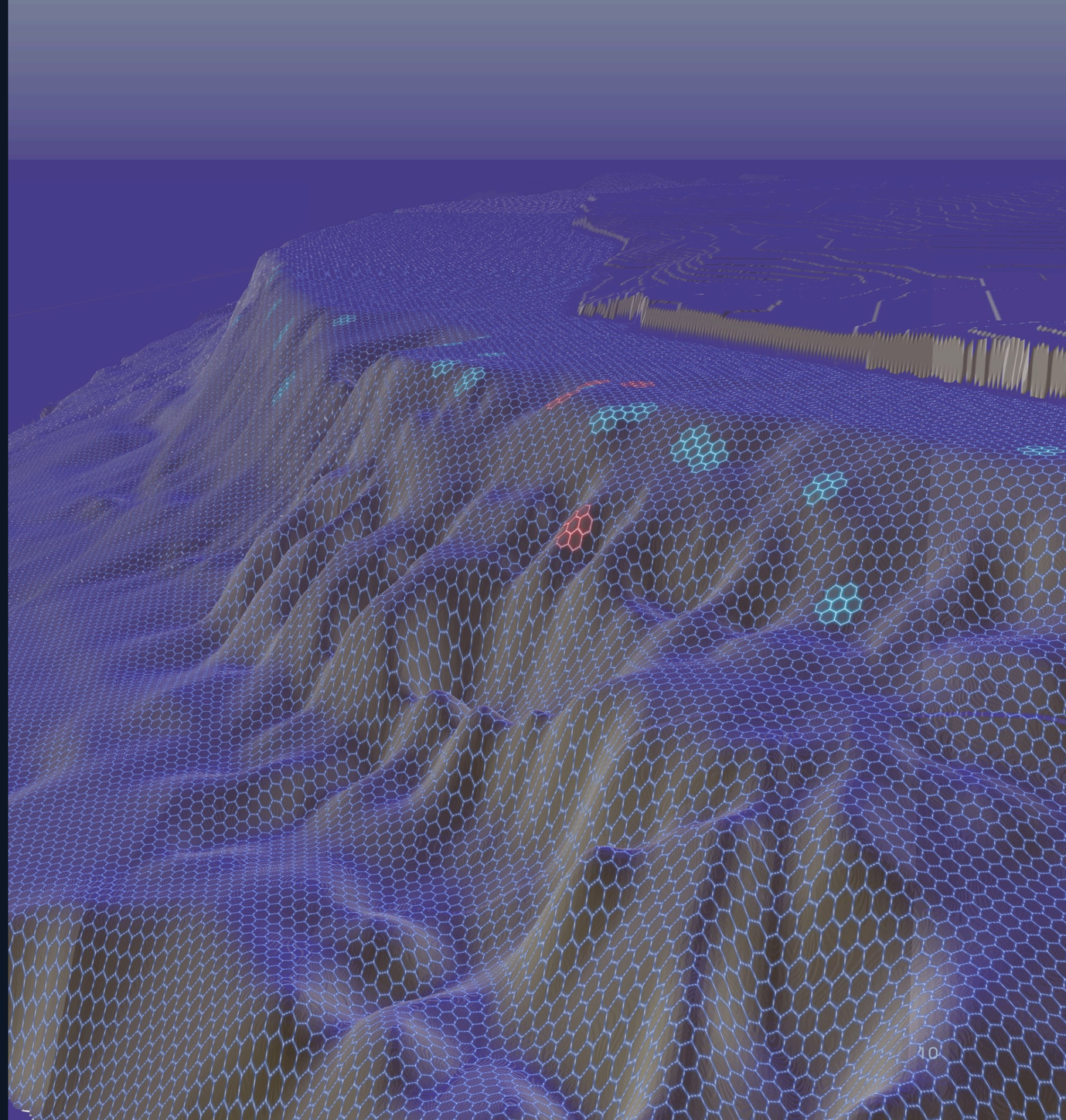
MARINE SPATIAL PLATFORM

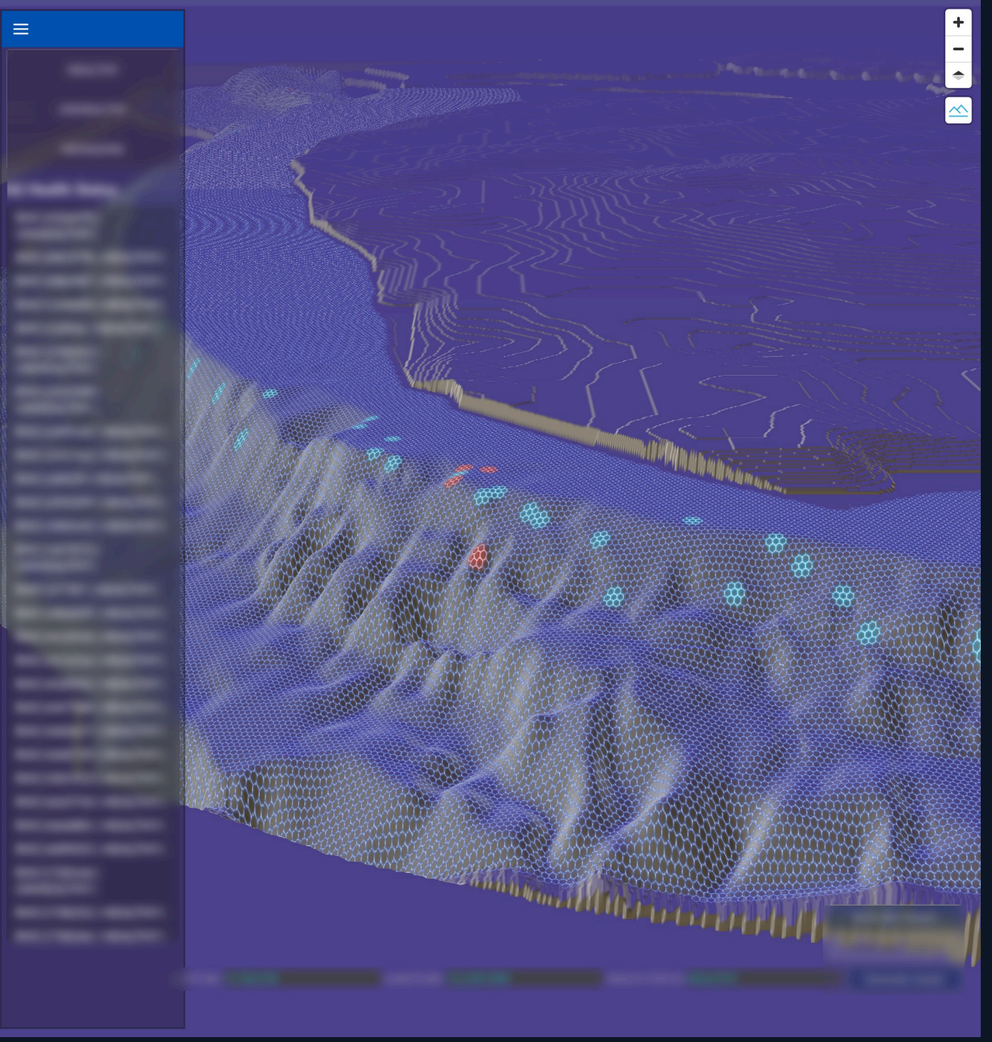
From survey spreadsheets to a living 3D reef

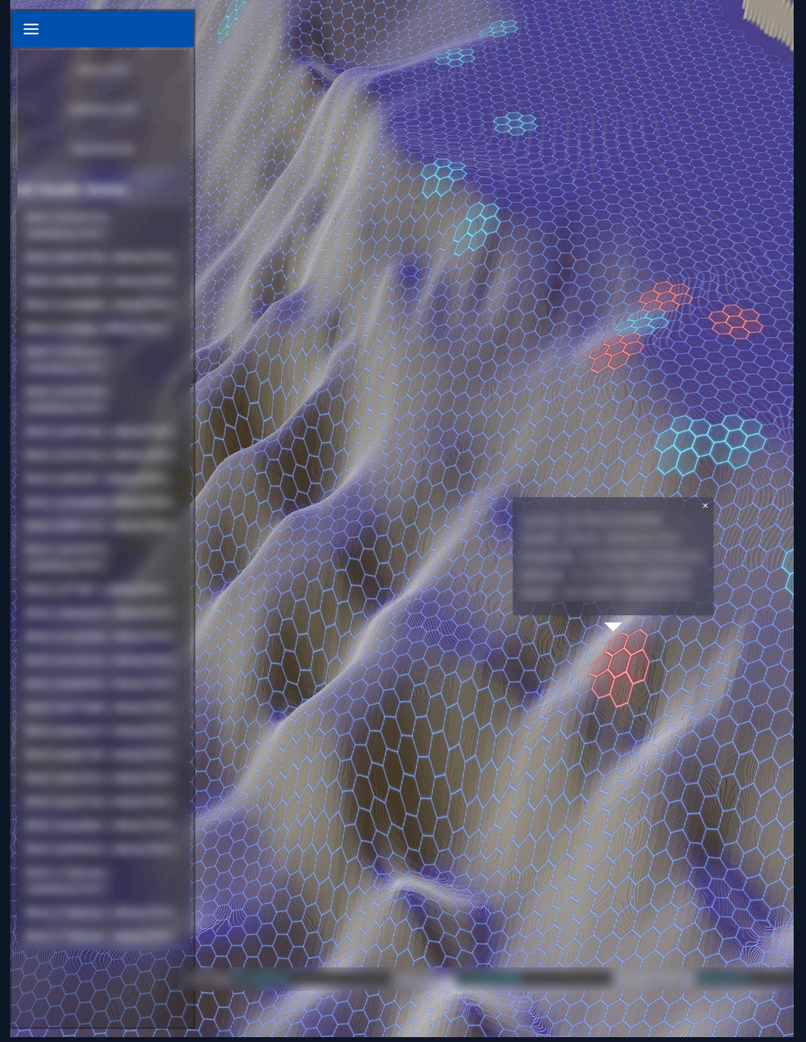
A conservation-focused dive operation surveyed its reef regularly, but the results lived in spreadsheets next to a 3D bathymetry model nobody could explore. I built a platform that puts the survey data on the reef itself, readable by people who will never open a GIS package.

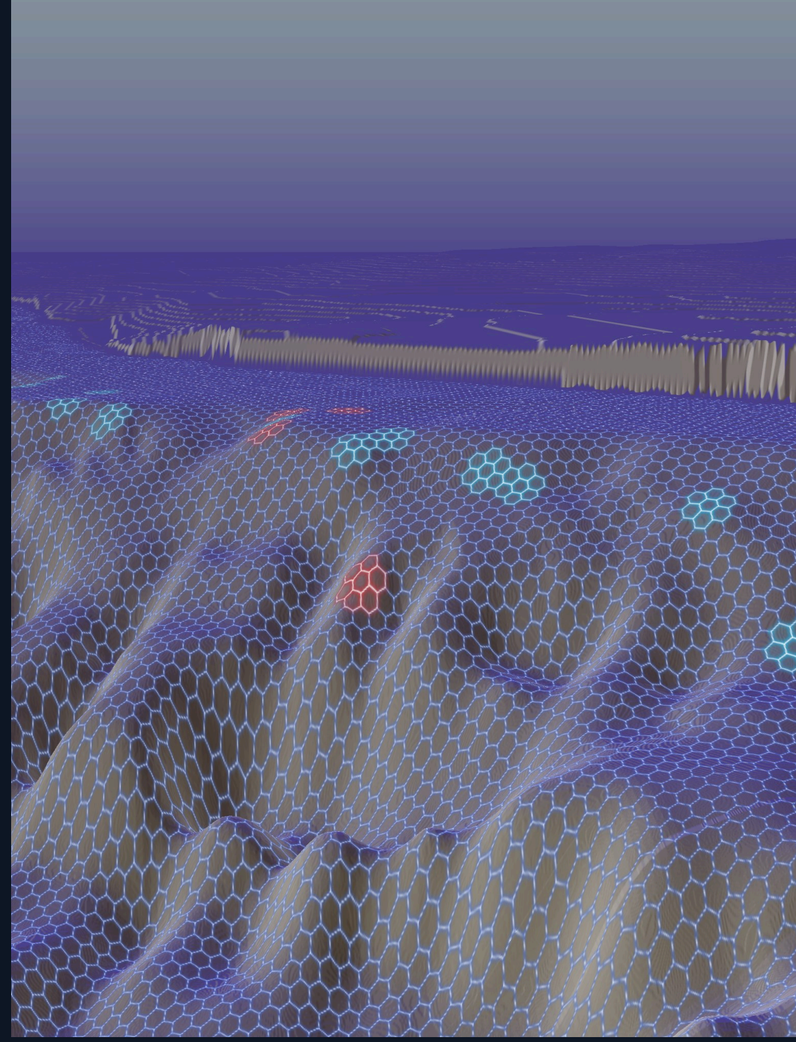
SCOPE	GIS data architecture, 3D web development, hosting
STACK	QGIS, MapLibre GL, Three.js, React, TypeScript, PMTiles, AWS, Cloudflare
SECTOR	Marine conservation

▶ Watch the 1-min demo









IMPACT

15+ months in production

Moving from 3D Tiles to height tiles plus PMTiles kept delivery fast and hosting costs flat. The team updates the data from their own sheets, without a developer.

3D HERITAGE MAP

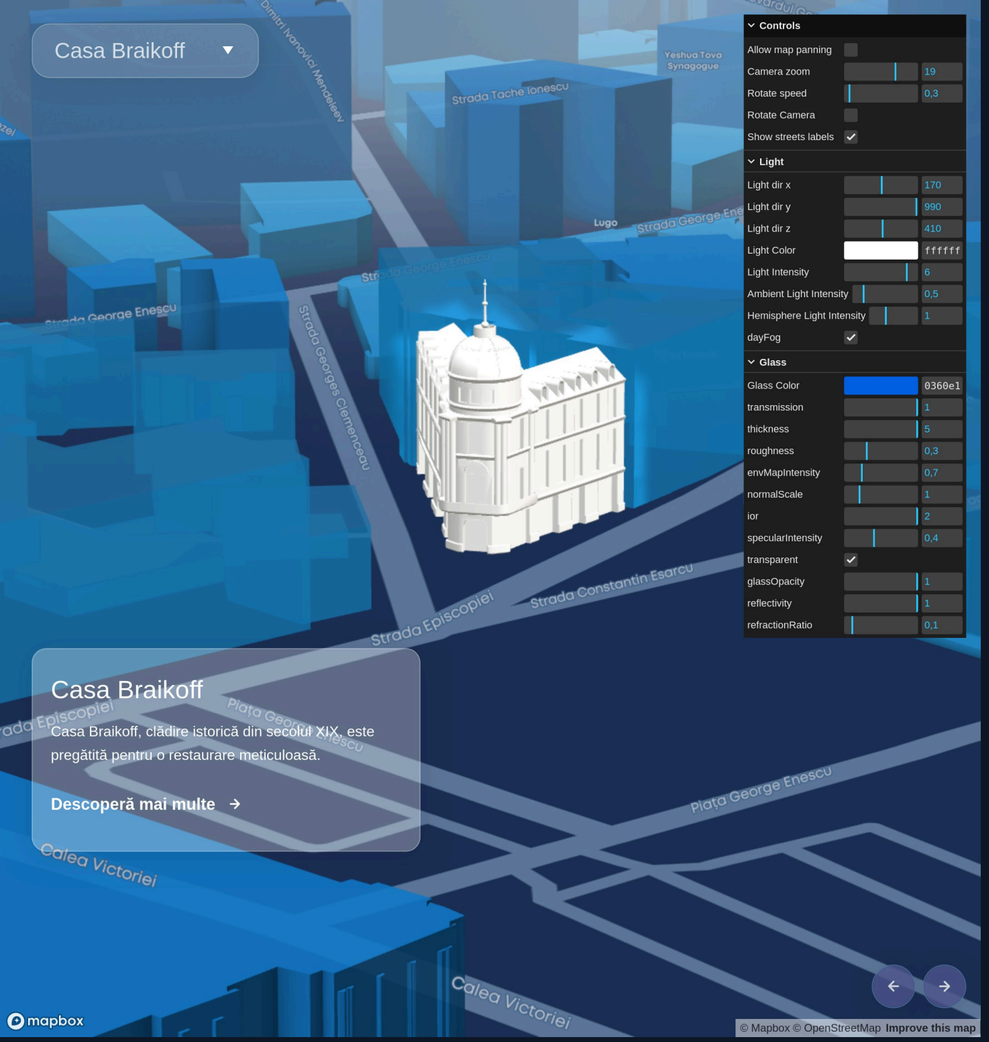
32 landmarks, one living map

A heritage awareness campaign wanted people to see its monuments, not scroll past them. After a paid consultation, I built a custom Three.js layer inside Mapbox GL: about 32 detailed 3D landmarks on the real city map, guided navigation between them, and a build the client embeds in its own CMS.

SCOPE	Technical consultation, 3D web development, CMS integration
STACK	Three.js, Mapbox GL JS, glTF, QGIS, React
SECTOR	Culture and heritage campaign

▶ Watch the 1-min demo









IMPACT

Both phases rated 5.0

“Insightful and practical” for the consultation, “Really cool project, highly recommend” for the delivery. 30+ models, lazy-loaded, at 50+ FPS, as the centerpiece of a public campaign.

CUSTOM FANTASY CARTOGRAPHY

A Norse world on real ground

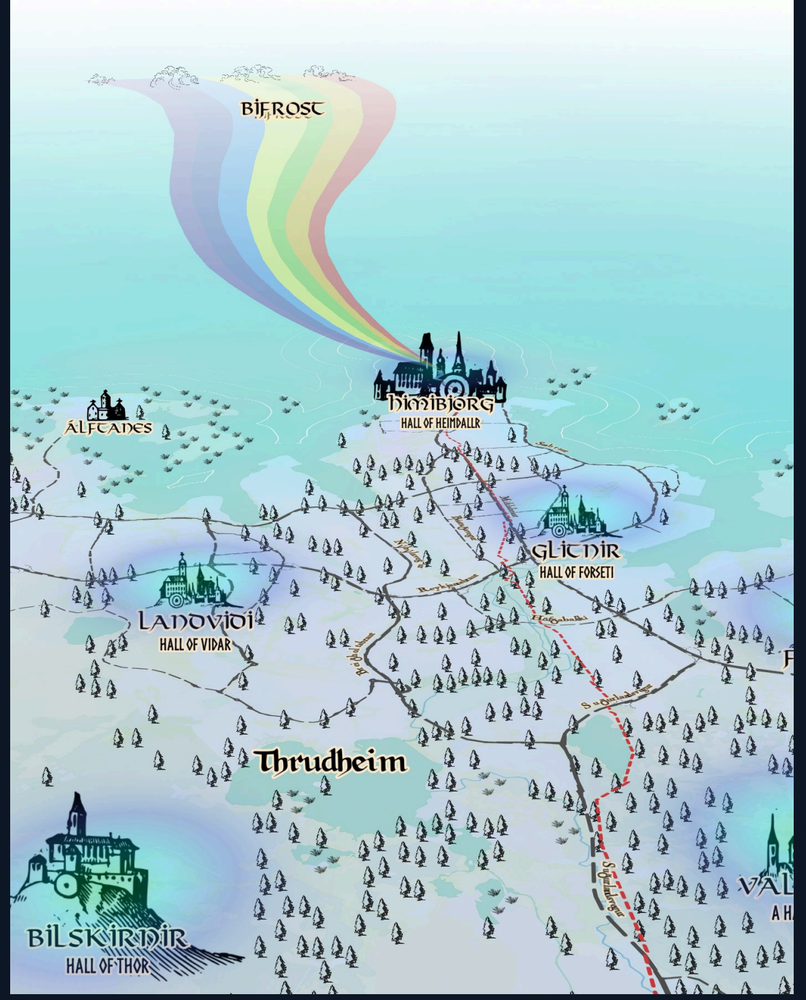
A virtual fitness platform wanted a race route that felt like a journey through Asgard, not a line on a street map. I started with research and a proof of concept, then built the whole map: a hand-crafted fantasy style on real Icelandic terrain, with the route on real coordinates so each runner's progress can be tracked.

SCOPE	Creative direction, cartographic design, data pipeline, web map development
STACK	QGIS, Mapbox Studio, Mapbox GL JS, Directions API, GeoJSON
SECTOR	Fitness and gamification

▶ Watch the 1-min demo









IMPACT

Live as a 26-mile virtual race

Delivered in three weeks, in three milestones, and now in the client's iOS and Android app. Both phases rated 5.0, with the style, data and demo app handed over in the client's own accounts.

Own projects

Maps I build for myself, to test ideas before a client needs them. All four are live, with short videos on mapthecloudsmaps.com/work.



STORYTELLING MAP

In The Clouds

The world's tallest buildings, stacked in blocks on a real map. Featured by the WebGL / WebGPU community.

▶ Watch the 1-min demo



REAL-TIME 3D GLOBE

Inner Fire

Live USGS earthquakes on a 3D globe with a real day and night line.

▶ Watch the 1-min demo

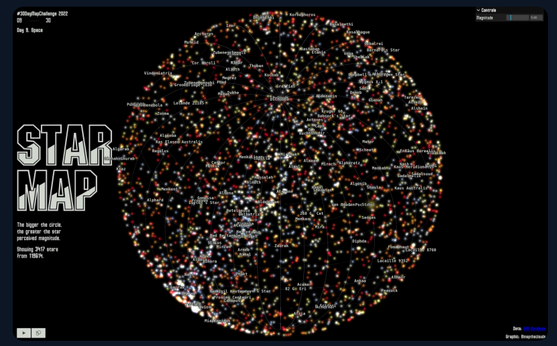


WEB GAME ON A MAP

Biker Santa

A Christmas ride on real roads and real terrain, playable in the browser.

▶ Watch the 1-min demo



DATA ART MAP

Star Map

119,614 stars drawn as a map of the sky. **Longlisted at the Information is Beautiful Awards 2023.**

▶ Watch the 1-min demo

What clients say

> ”Working with Alexa was one of the best decisions we’ve ever made... a true technical expert in her field.”

Environmental data platform, multi-phase engagement

> ”Really cool project, highly recommend.”

3D heritage map, delivery phase

On Upwork: Top Rated, 100% Job Success, and "Committed to Quality" highlighted by 15 clients.

Recent work: I worked with MOBY for their internal tools in collecting and representing ocean data through a web platform.

Have spatial data your users cannot see yet?

Send me a link to your site or a sample of your data. I will tell you what I would do with it, before we talk about a contract.

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