

WHO IS EOMAP?



Private high-tech company



Focusing on satellite data analytics and SaaS solutions



Specialised on aquatic & marine environments, +1000 contracts



Serving engineering companies, governments, and academia



+30 employees

+40% turnover growth in 2021



Why Water Quality from Space

The challenge: Sampling is *local, time and cost intensive*

More & affordable data for better decisions required

Holistic economic and ecological assessments

E.g. data on
Susp. Sediments
Eutrophication
Toxic Algae Blooms

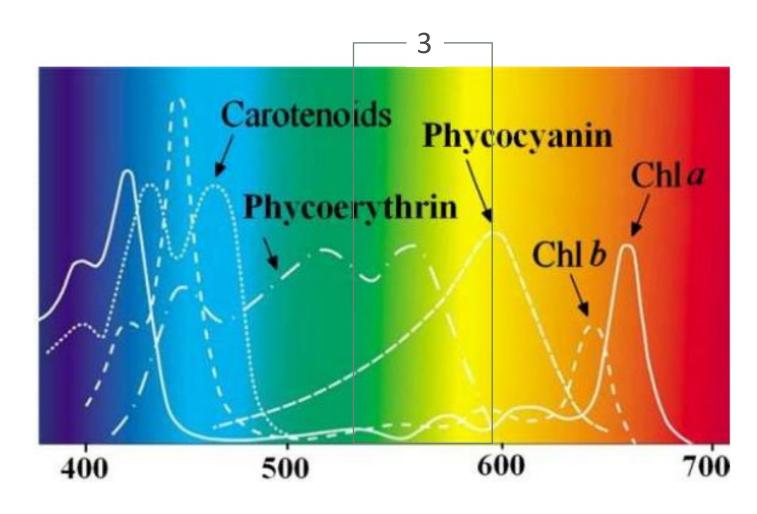


How to detect Cyanobacteria

Specific spectral absorption

Sensor-generic detection and quantification approach





From: https://www.wageningenur.nl/en/show/Natural-food-colorants-from-microalgae-1.htm

after: Zimmermann 1991, modified



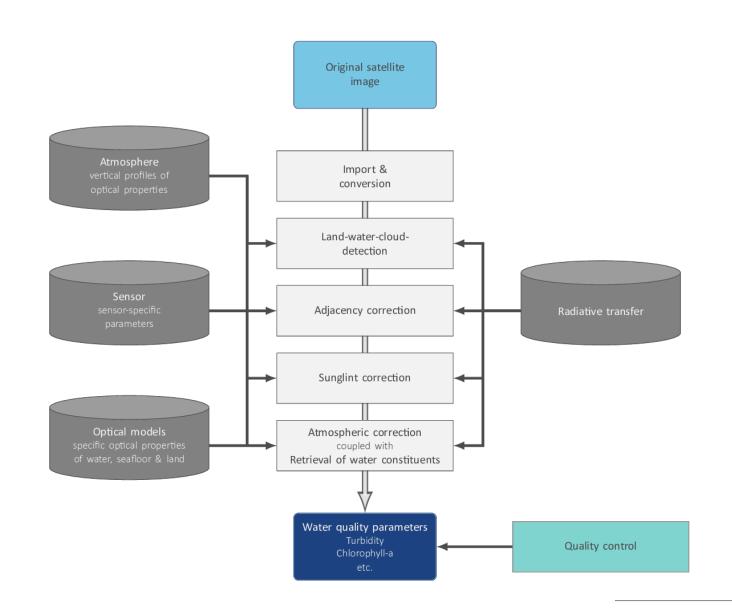
EOMAP data analytics

Fully sensor-agnostic

Fully physics-based

In commercial routine operations since 2006







USE CASE OJÓS AND DOWNSTREAM RESERVOIRS

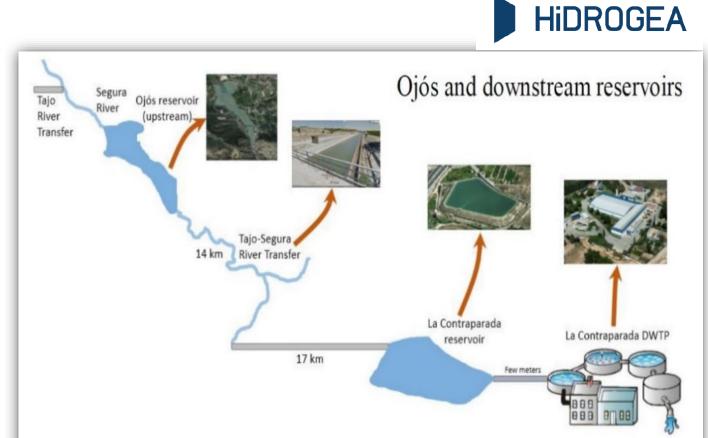
SURFACE WATER SUPPLY FOR MURCIA METROPOLITAN REGION







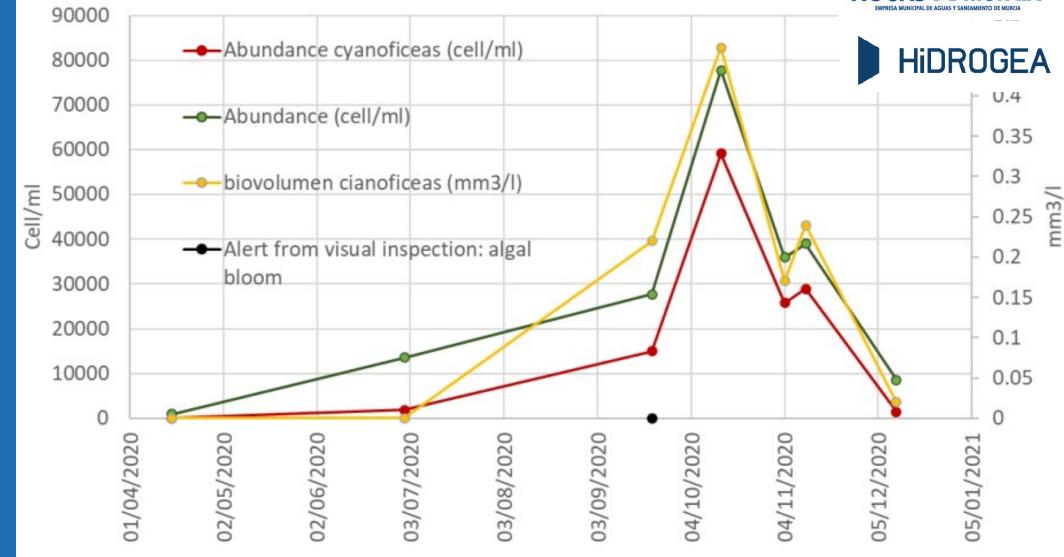




How does EO match?



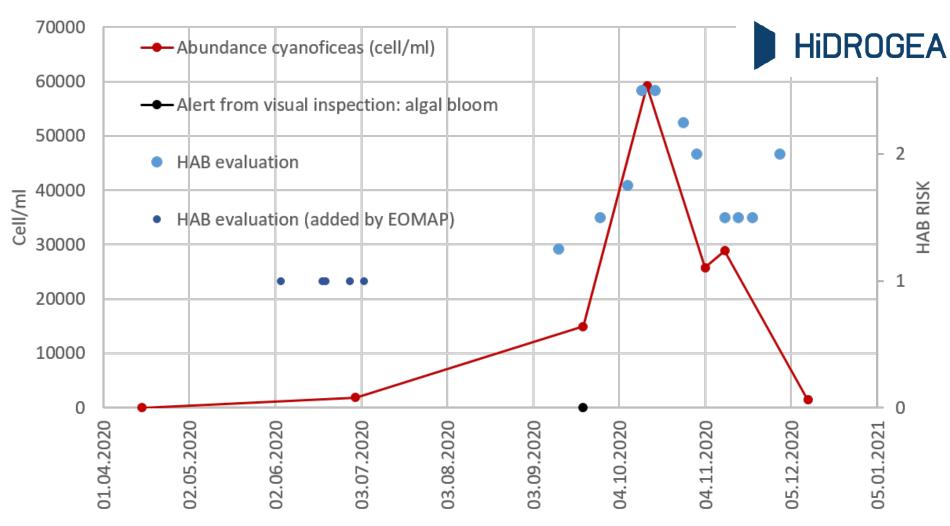




How does EO match?







EOMAP data of practical help?



Am Mittwoch (21.07.21) erreichte das Gesundheitsamt die Meldung, dass ein Hund nach einem

HARMFUL ALGAL MONITORING MANDICHOSEE

"HIGH" TEMPORAL RESOLUTION



Dog passed away
Prohibition

21. July
22. July

20. July

BAYERN

23.07.2021, 13:36 Uhr

Blaualgen: Hund stirbt nach Bad im Mandich

Nach einem Aufenthalt im Merchinger Mandichosee ist ein Hund gestorbe
Vermutlich eine Blaualgen-Vergiftung. Schon vor zwei Jahren war dort die
Hunde manchmal gefährliche Gattung "Tychonema" festgestellt worden.

Von Matthias Lauer

Im Mandichosee in Landkreis Aichach-Friedberg wurde vor zwei Jahren die ehe
Blaualgengattung "Tychonema" festgestellt. Seitdem stehen große Information
Verschlucken einer größeren Menge an Blaualgen kann gefährlich sein, insbeso
und Kleinkinder.

Wasserprobe bestätigt Blaualgen

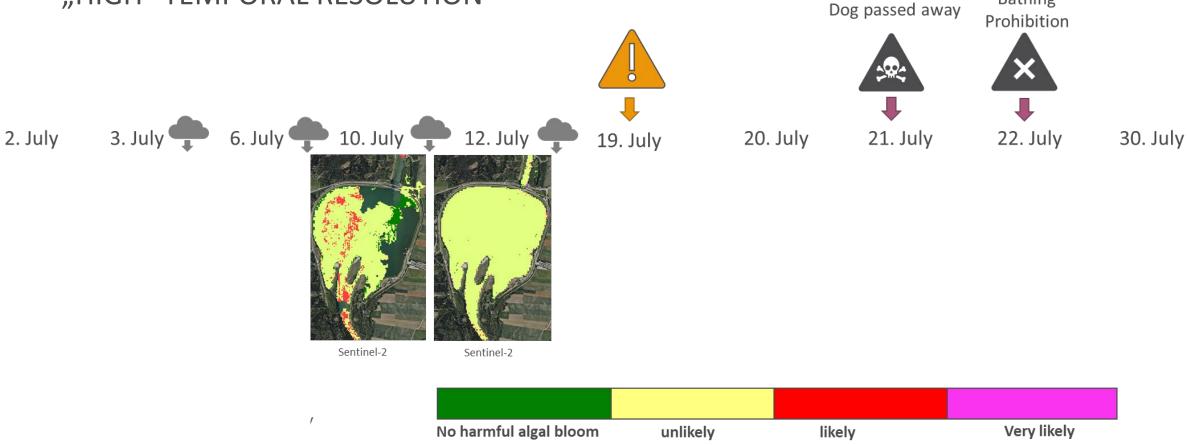
Am Mittwoch (21.07.21) erreichte das Gesundheitsamt die Meldung, dass ein Hu



30. July

HARMFUL ALGAL MONITORING MANDICHOSEE

"HIGH" TEMPORAL RESOLUTION

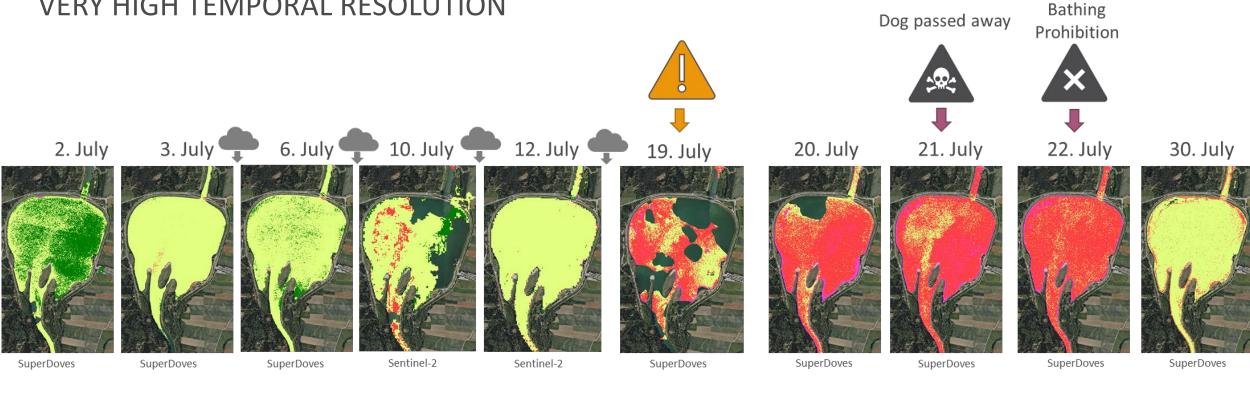




Bathing

HARMFUL ALGAL MONITORING MANDICHOSEE

VERY HIGH TEMPORAL RESOLUTION



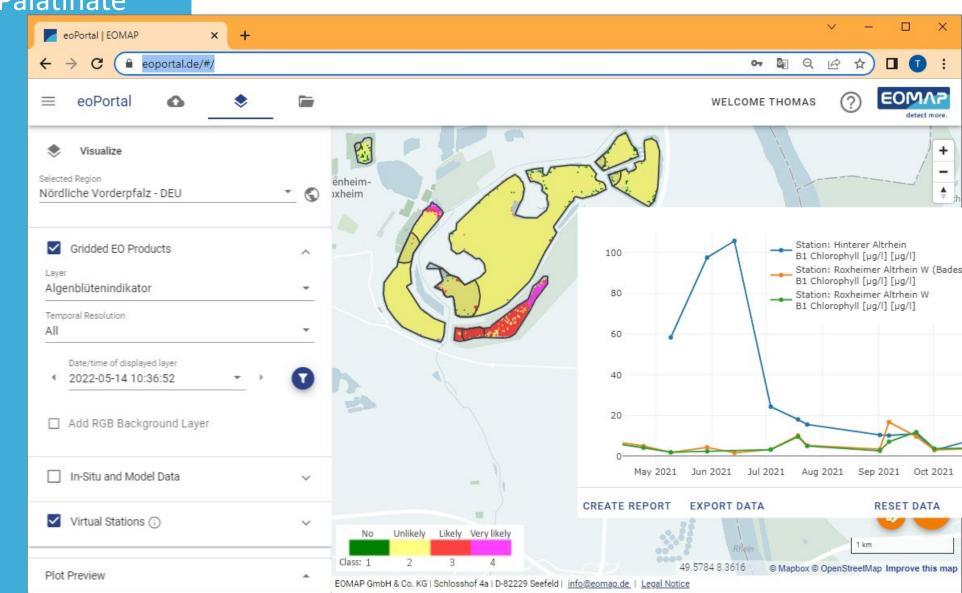
Data Sources:

PlanetLabs SuperDoves, 3m spatial, daily Sentinel-2A/B, 10m spatial, every 5 days



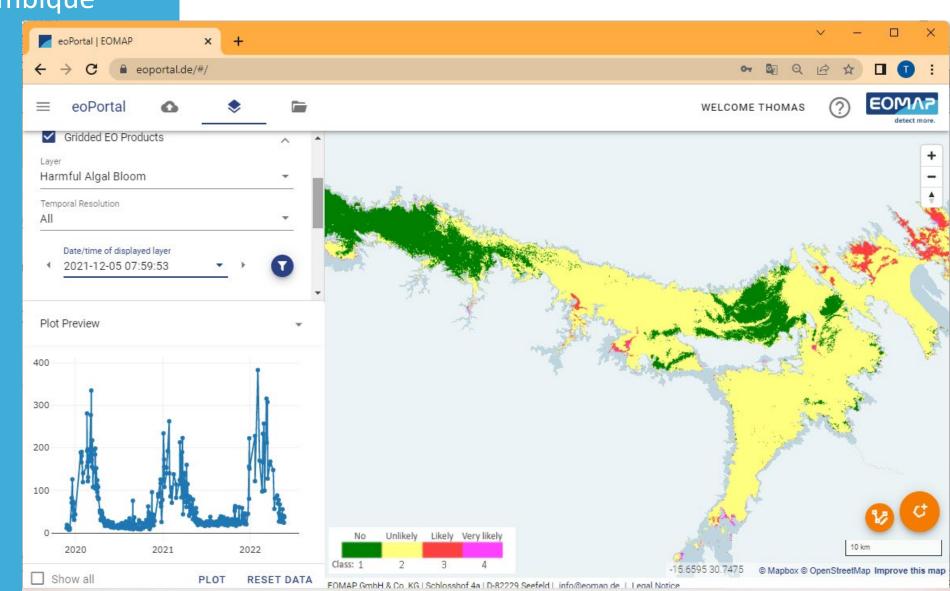
Routine operations:

Env. Agency Rhineland-Palatinate

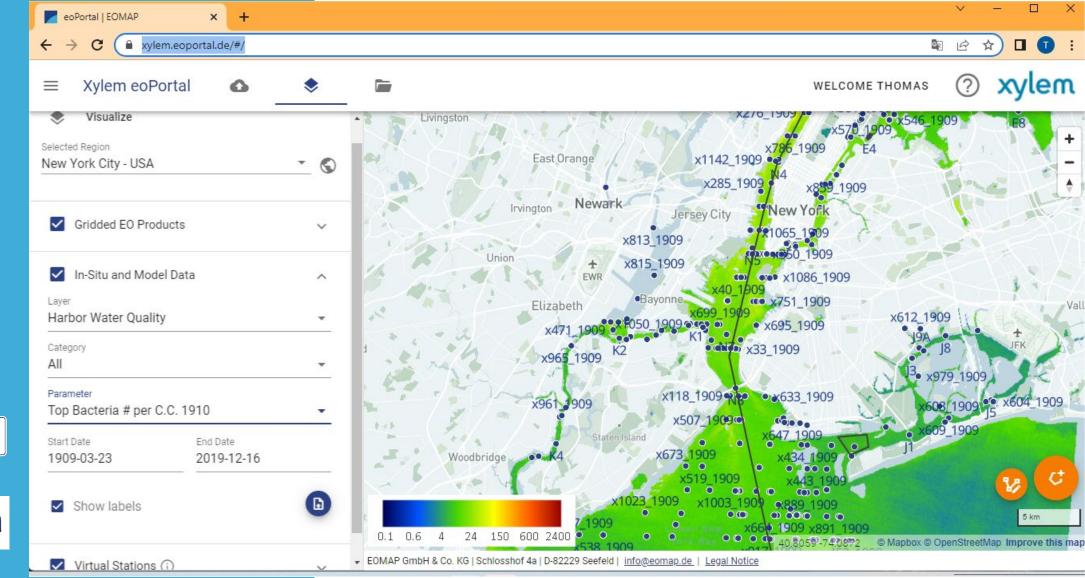


Routine operations:

Cahora Bassa CHB Mozambique



How to integrate & scale up?









Emergency? High-Res?



Daily high-res at global level



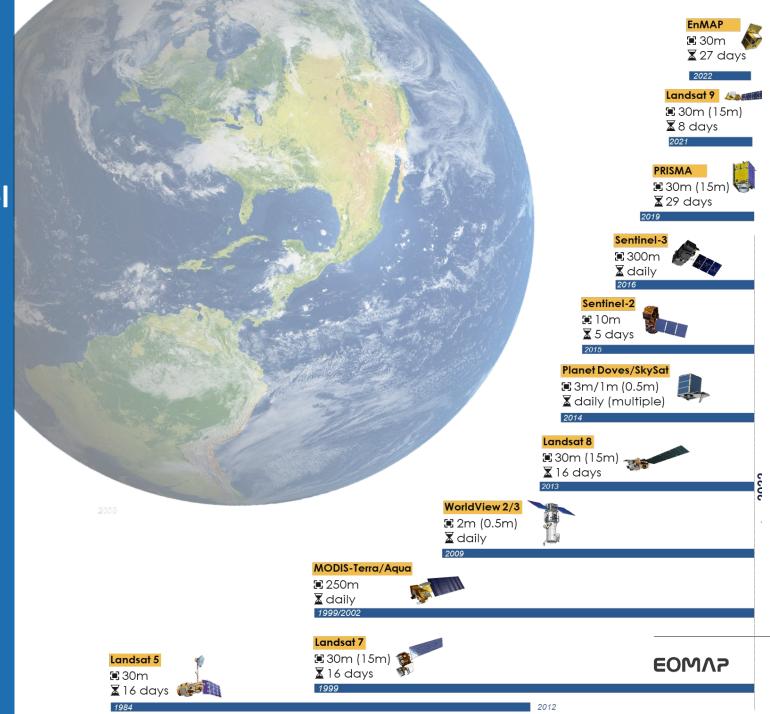
Accurate, timely, affordable



User self-adapted



Easy access, scalable



Global need for water-related data & solutions

Data on- & to demand (self-scalable)

Industry driven process to further innovate and scale

Market acceptance and growth now

Open positions 2022: eomap.com/jobs



EOMAP HQ in castle Seefeld near Munich

