







AI REVOLUTIONIZES WEATHER FORCASTING

2022

FourCastNet Earth-2 Initiative



2022

GraphCast



2023

ClimaX



2025

Aardvark







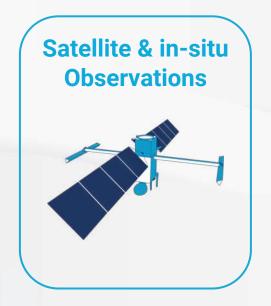
x1000 faster!

than Numerical Weather Prediction (NWP)

WHAT MAKES US DIFFERENT?

Expert AI model

rather than Global Ocean





Cutting edge machine learning





Ocean Data

needed for

dedicated application

ABOUT AMPHITRITE



SPIN-OFF **RESEARCH LABS**









15 EXPERTS

OCEANOGRAPHY
SATELLITE DATA
AI & COMPUTER VISION
SOFTWARE DEV.



AWARDS





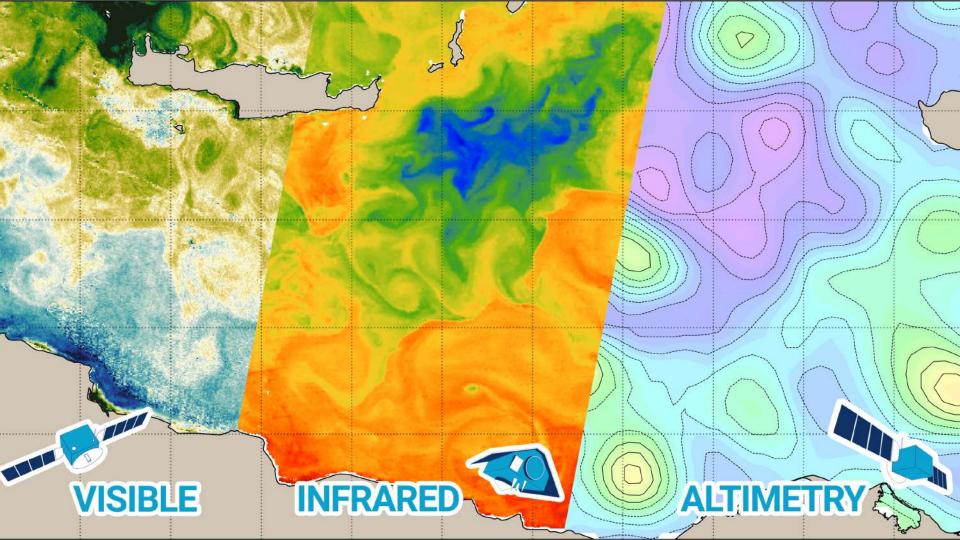


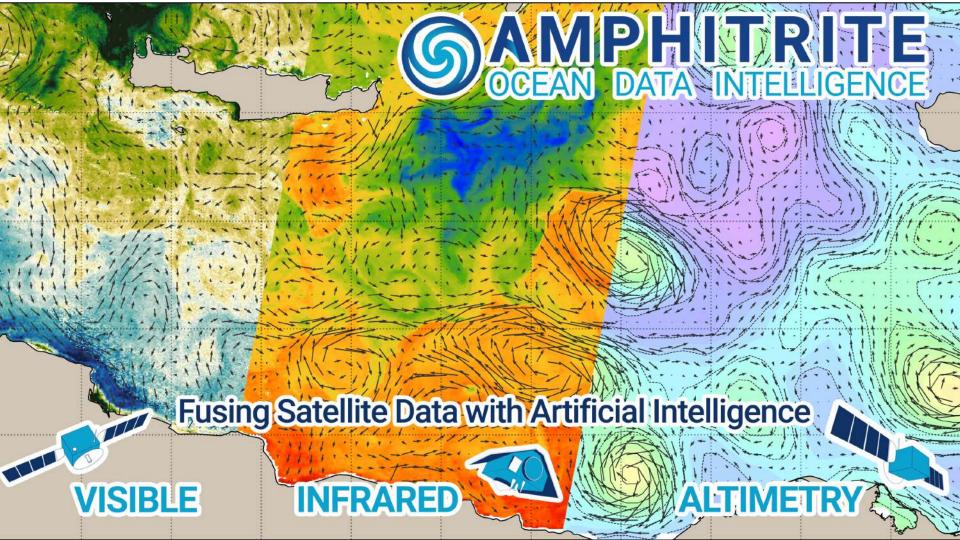






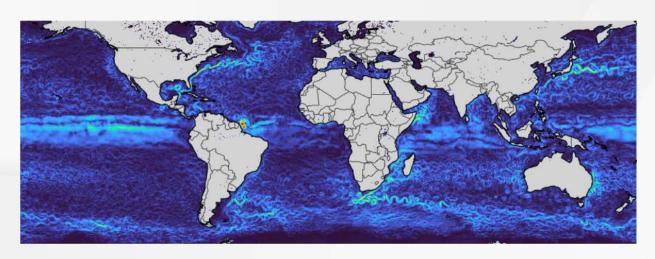
OUR INNOVATION FOR GREEN SHIPPING SATELLITE DATA-DRIVEN MODEL AI COMPUTER VISION







HIGH RESOLUTION & HIGHLY RELIABLE



Global coverage

3-4km resolution (1/30°)

Every hour (with tides)

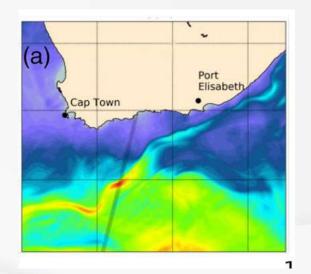
14 days forecast

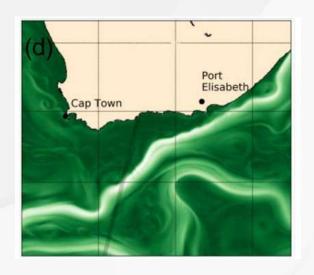
10 years historical data

Fast API



NEXT R&D Developments: HIRES-WAVES



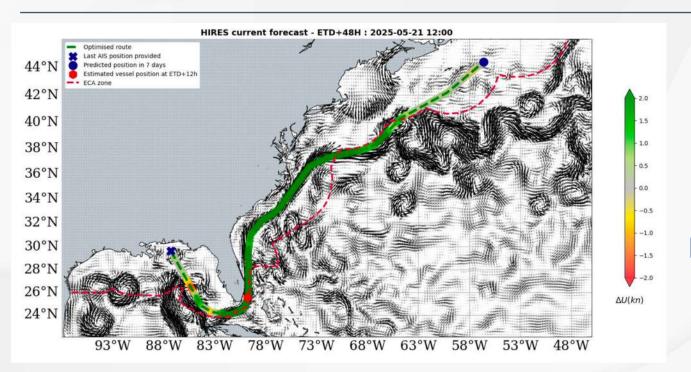


Wave Current

Interactions lead to local intensification



USE CASE: Transatlantic voyage (optimized route)





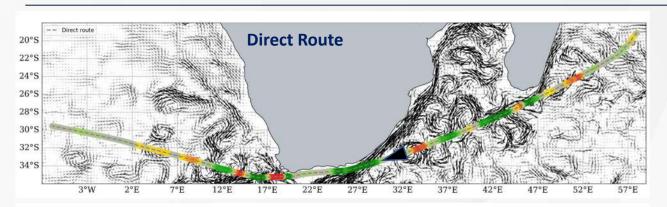
Small changes
in the trajectory
to stay
in the Gulf-Stream

9% both time & fuel savings!

during five days

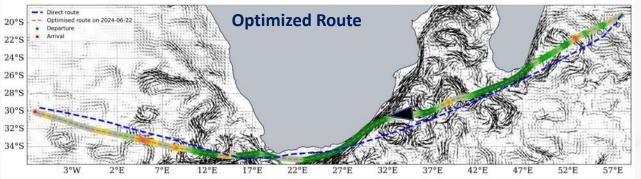


FINE-SCALE ROUTING: NEW ROUTING MODE!









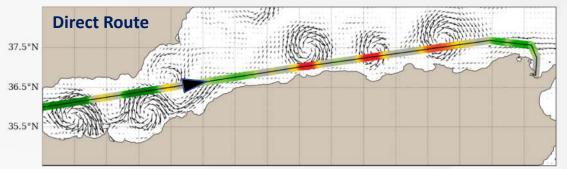
Small changes in the trajectory

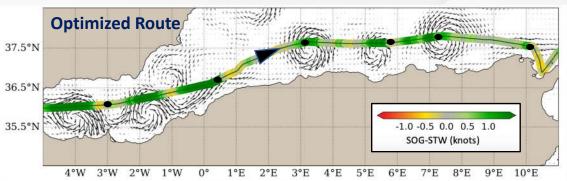
Up to 8-9%

Gains only on currents!



SHORT TERM OPTIMAL ROUTING: NEW ROUTING MODE!







Small changes in the trajectory

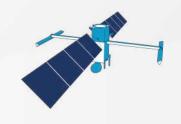
Fuel cuts up to 4%

optimal for

SHORT-SEA SHIPPING







High quality ocean data via multi-satellite Al fusion



API for all routing systems
Easy data transfer to solution provider



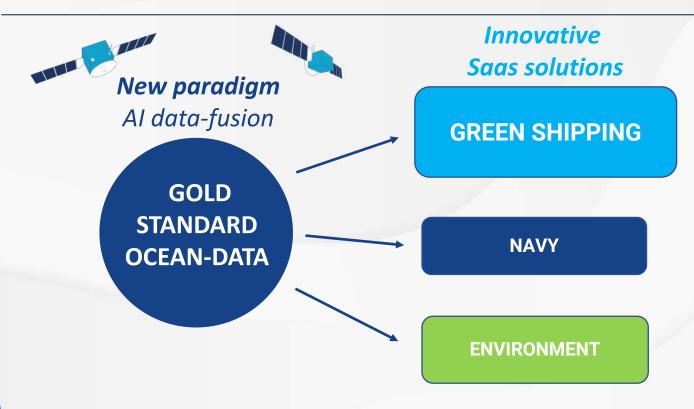
Short-term optimal routing up to 4-16% gains in fuel & CO₂



Accurate STW for vessel performance monitoring



SEVERAL APPLICATIONS: AI-DATA FUSION FOR OCEAN-TECH





OUR PARTNERS and/or **CLIENTS**























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