



1st Fish-X Conference - 27 September

Exploring the potential of ocean data technologies for sustainable fisheries management

Panel Discussion - Jean-Pierre Cauzac CLS

:

The Insight platform

EU-Project no.: 101060879

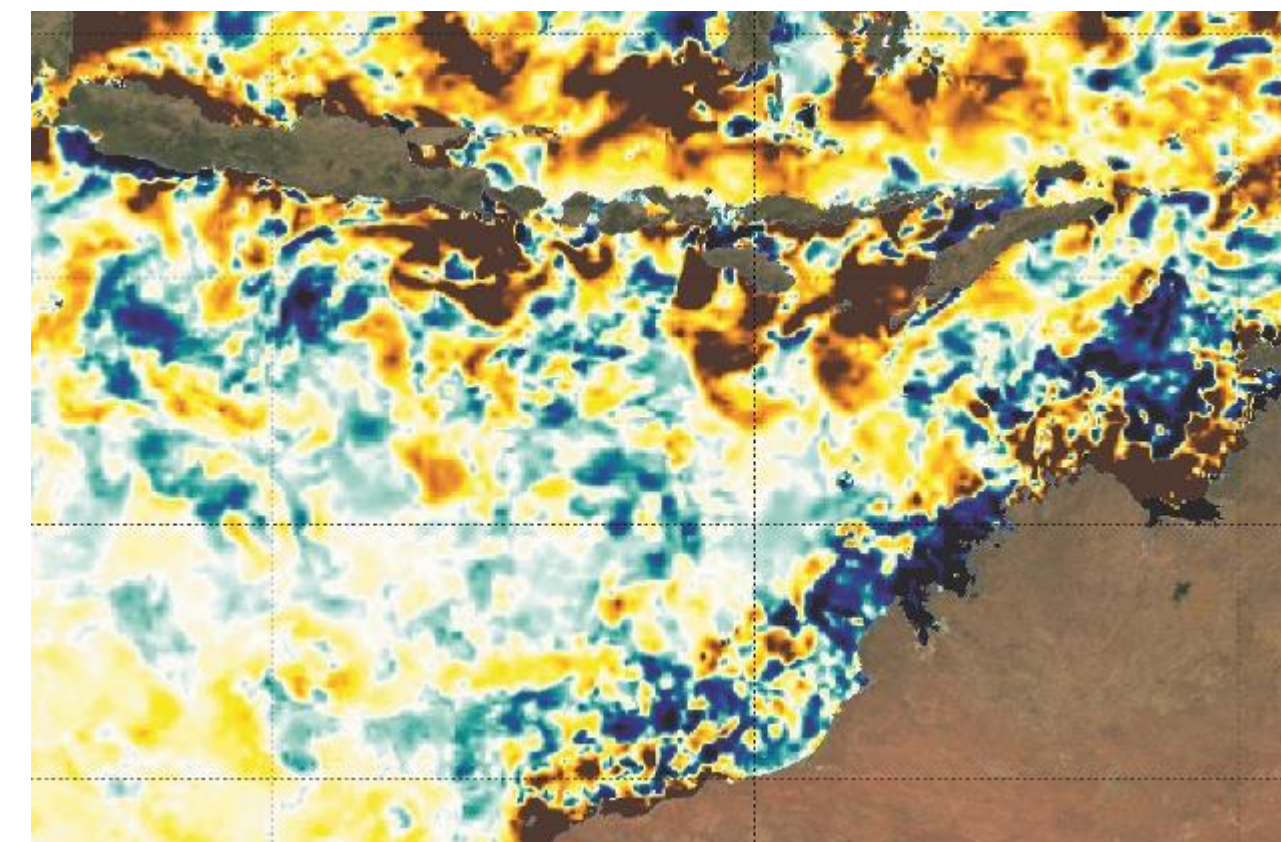
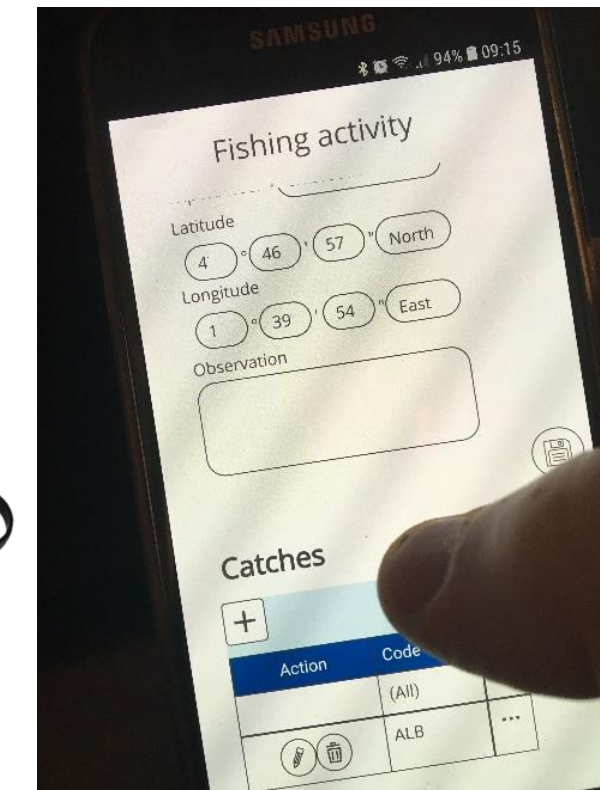
WWF EPO Office, Brussels | 27 September 2023



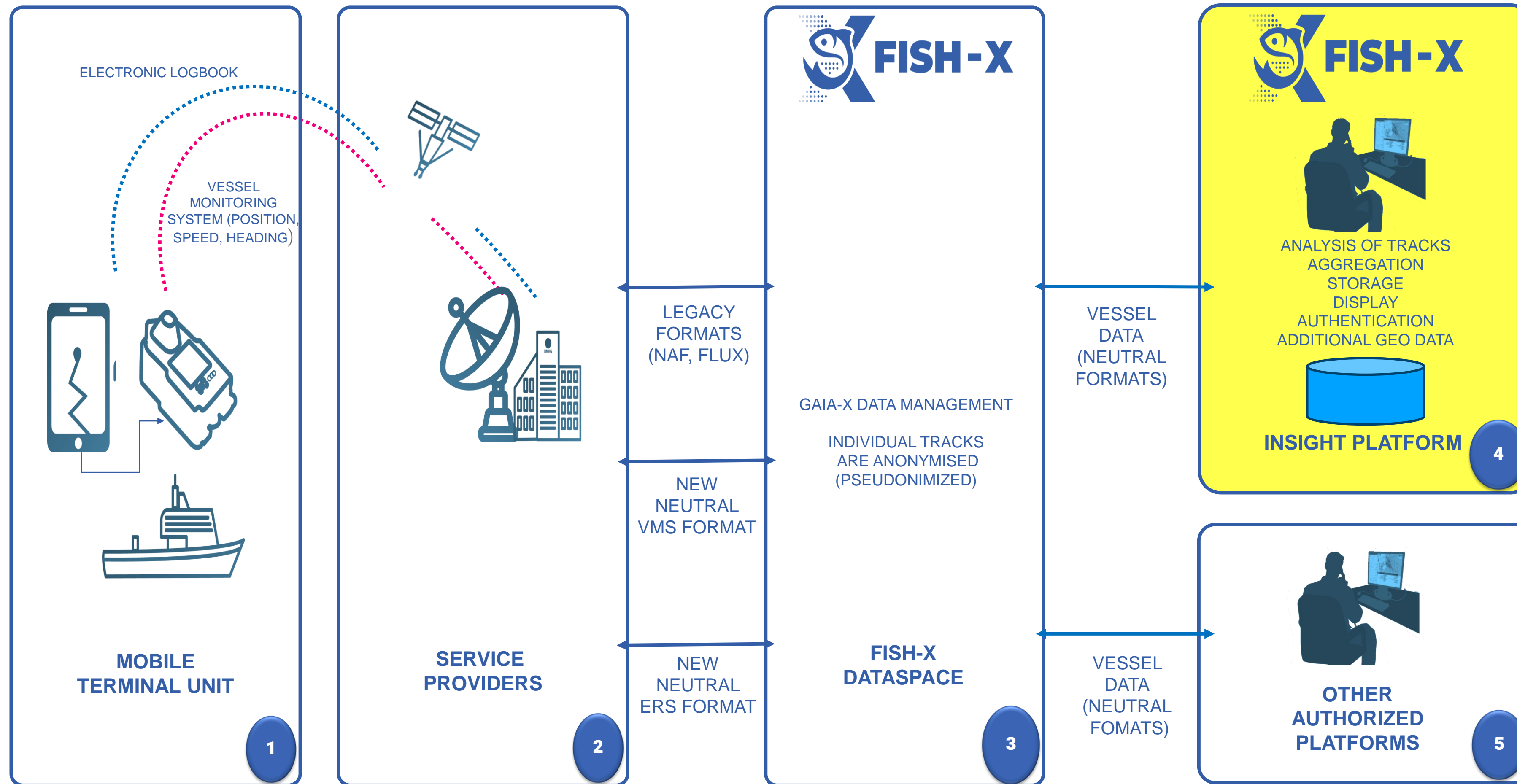
**Co-funded by
the European Union**

CLS company profile

- ❖ **Mission:** to design and operate space based solutions to monitor and understand the planet, and help managing its resources sustainably.
- ❖ **Vessel Monitoring Solutions:** Global leader in VMS for fisheries management
- ❖ **Fishery Monitoring Centers** delivered in 40+ countries and regional organizations (VMS, AIS, radar detections)
- ❖ **Favorability maps** for strategic support to large scale fishing companies - to fish more sustainably and reduce risk of bycatch



Fish-X Insight Platform & dataspace



Fish-X Insight Platform Key Features

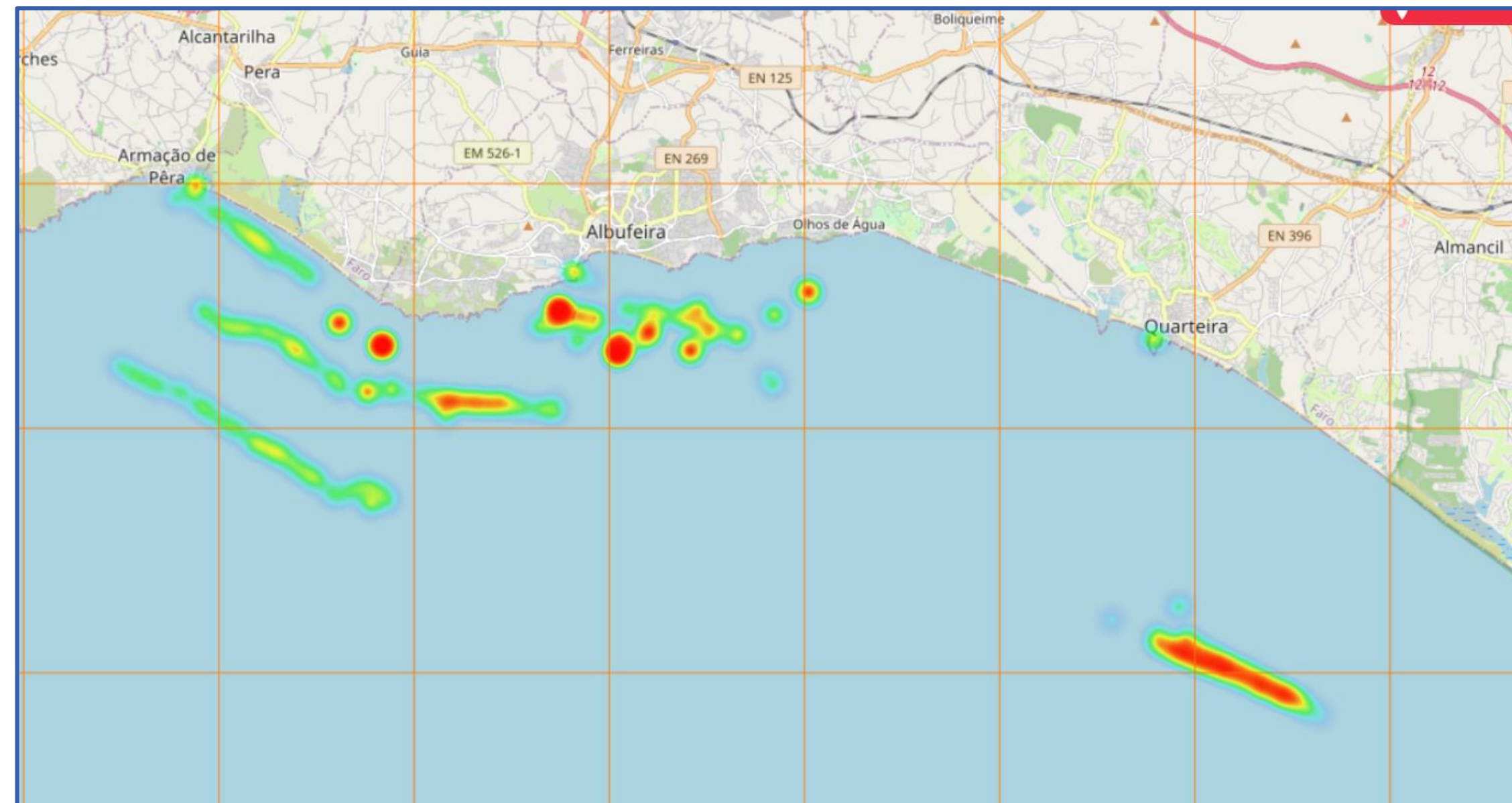


- ❖ A prototype of mapping application to demonstrate added-value of GAIA-X dataspace concept (data ownership, sovereignty, standardized exchange formats)
- ❖ Display Small Scale Fishing vessel activities
- ❖ Open to wide audiences with or without login, not only institutional users, also open for fishers' commercial apps
- ❖ Easy map interface for desktop or tablet or smartphone
- ❖ Display anonymised and aggregated data, not vessel tracks (e.g. cumulated fishing time per area) and protect fishers rights
- ❖ Automatic detection of fishing / non fishing on vessel tracks
- ❖ Indicators to be defined: fishing time/effort per statistical area, etc
- ❖ VMS, ERS, AIS data sets
- ❖ In legacy data formats (NAF, FLUX) and new generic VMS format

Insight v1: End
June 2024

Insight v2: End
November 2024

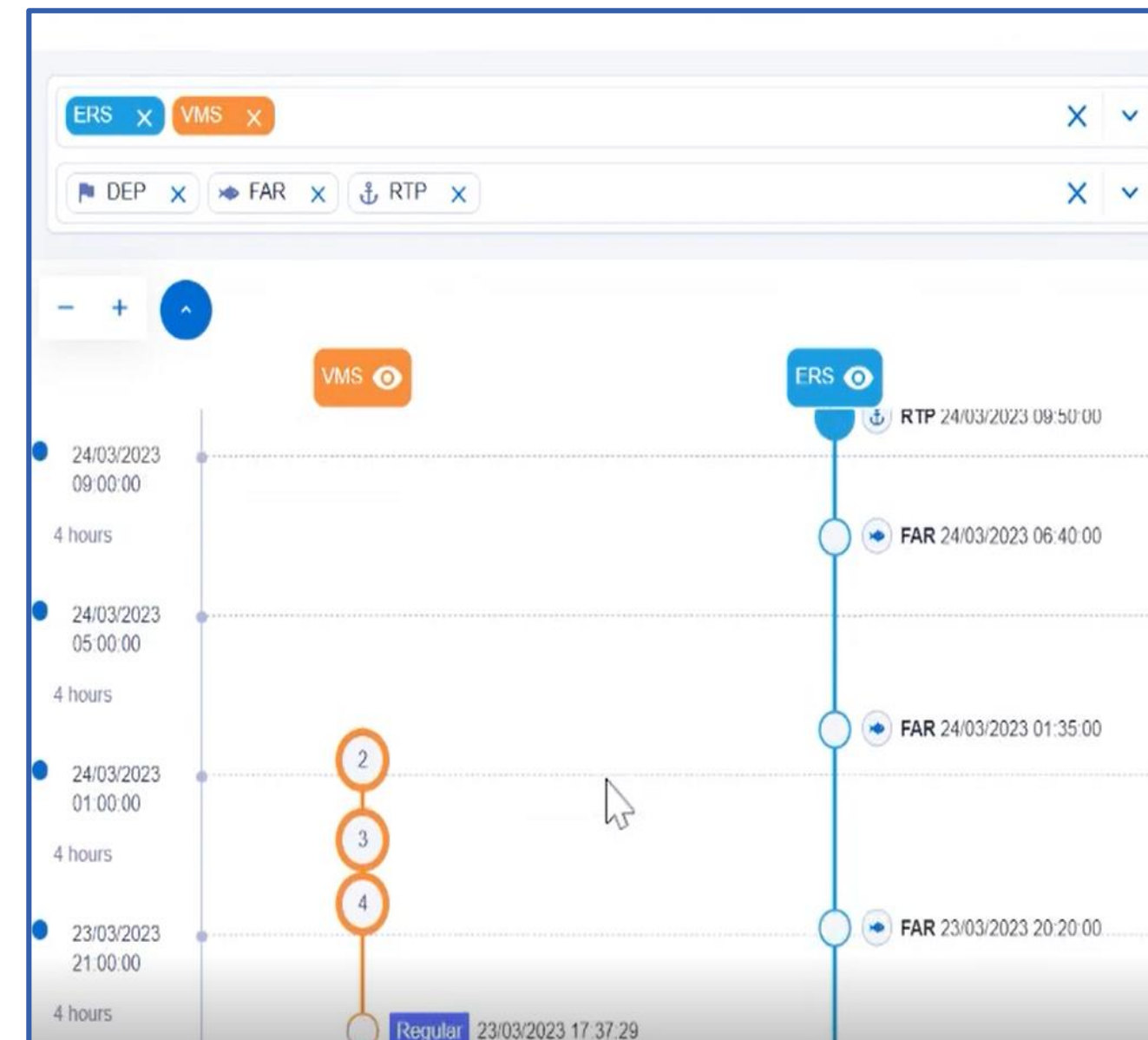
Fish-X Insight Platform (as example only)



Example of aggregated VMS data (demo)

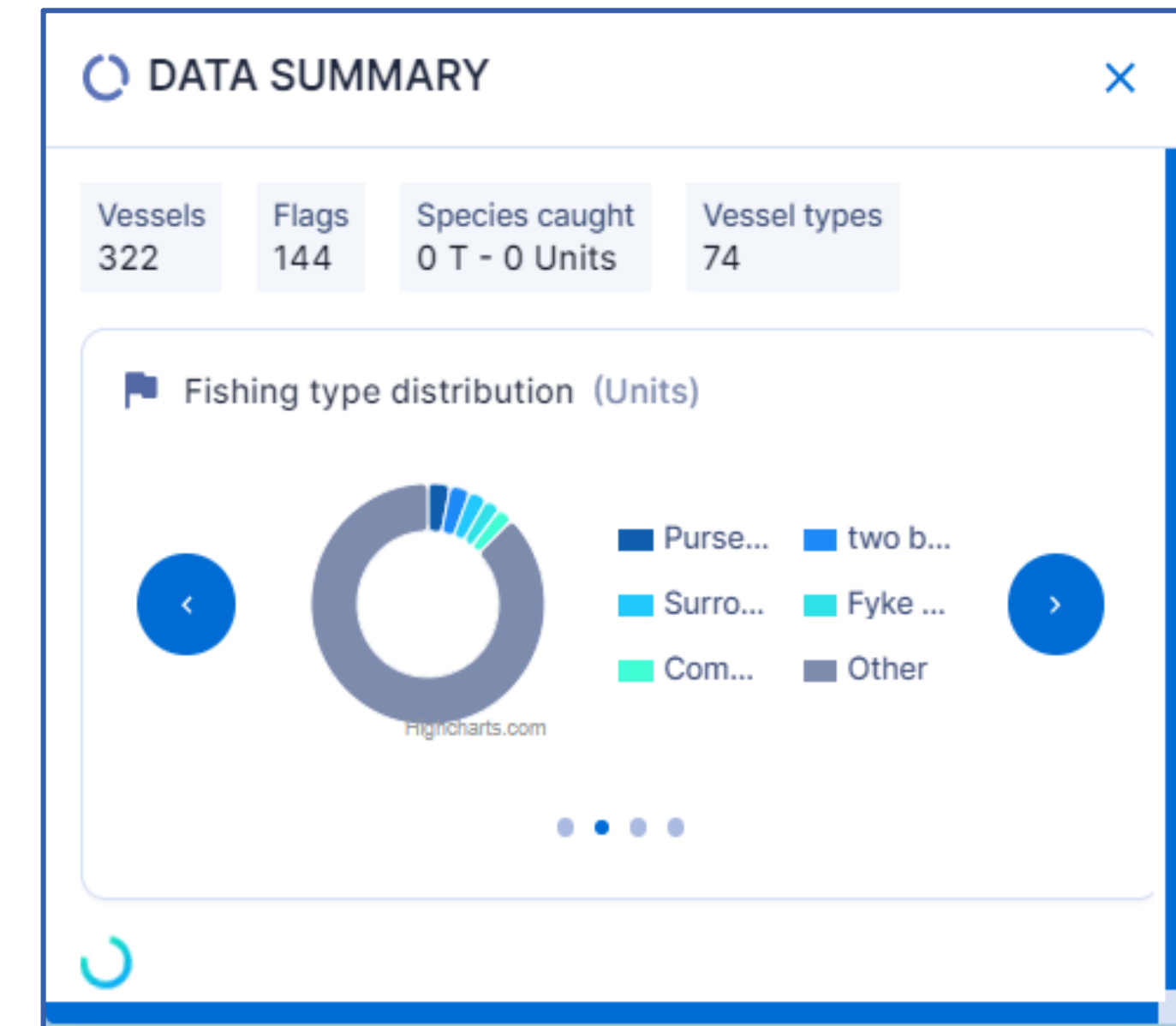
- ❖ Colours indicate cumulated fishing hours
- ❖ Estimation of fishing / not fishing status produced

before aggregation



Time line

- ❖ Understand seasonal activities

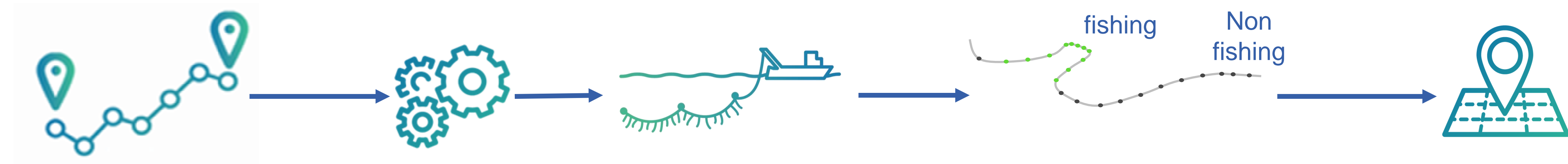


Dashboards

- ❖ By criteria TBD



Fish-X analysis of fishing activity



Digital data sets
(e.g. trajectories)

Pre-processing
(data cleaning)

Fishing gear
identification

Fishing activity
detection
(1 specific model
by type of gear)
- Time fishing
- Time not fishing

Probability map
for fishing
activities and
times



Thank you for your attention, and enjoy the conference!

Get in touch: Jean-Pierre Cauzac – CLS - jcauzac@groupcls.com

www.fish-x.eu | info@fish-x.eu



1st Fish-X Conference - 27 September

Tailor Insight platform & dataspace

Yellow Breakout Session - Jean-Pierre Cauzac CLS

:

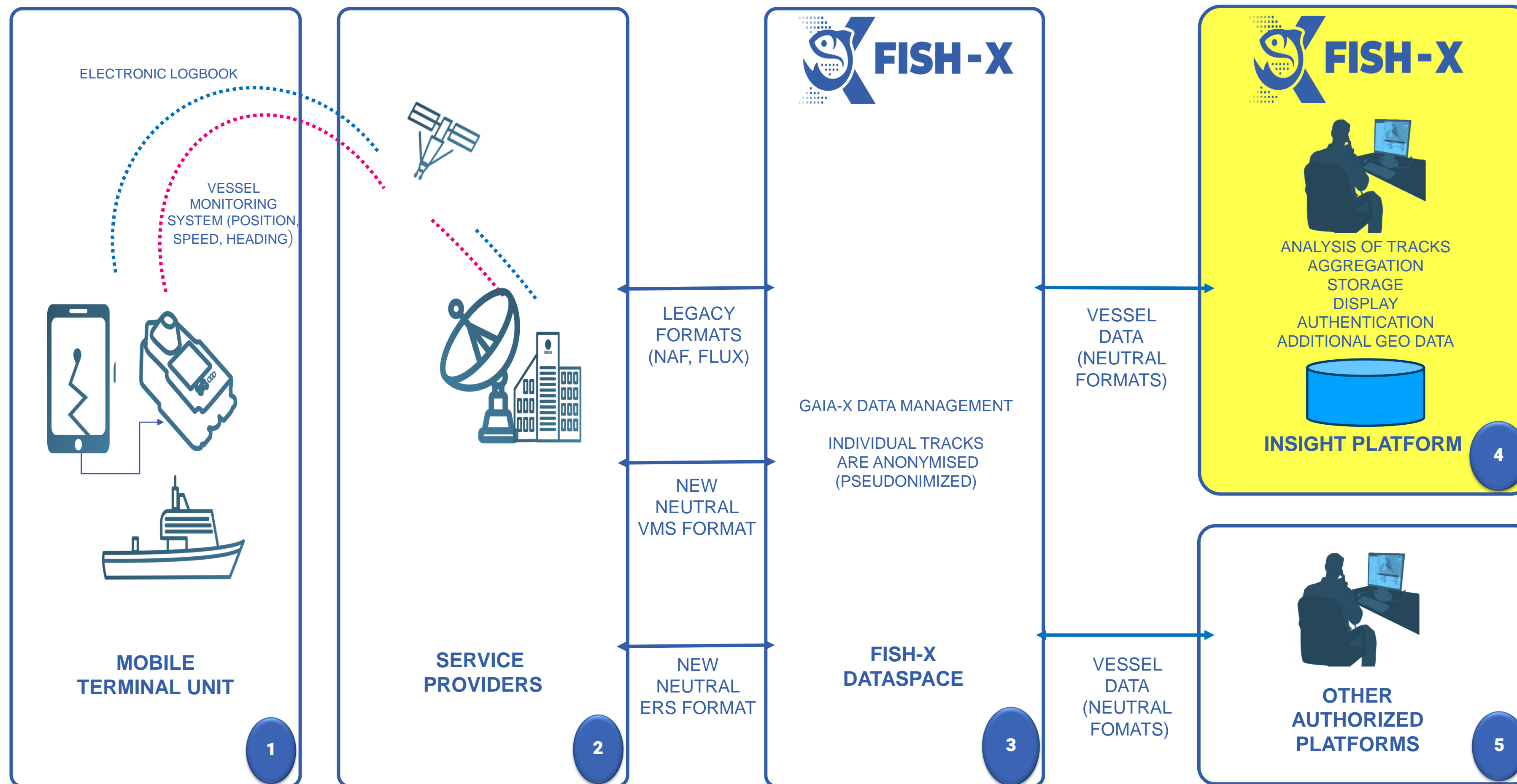
EU-Project no.: 101060879

WWF EPO Office, Brussels | 27 September 2023



**Co-funded by
the European Union**

Fish-X Insight Platform & dataspace



Fish-X Insight – Topics for discussion



Share your experience:

- ❖ Please give an example: when are you using fisheries statistics, for which purpose?

Do you wish to recommend new functions?

- ❖ **Maps:** Most useful maps, which level of detail, which bathymetry? Other chart details?
- ❖ **Data sources:** VMS, electronic logbook aggregation, AIS. Interest for onboard sensors? Others?
- ❖ **Data display:** confirm level of aggregation (minimum 3 vessels)?
- ❖ **Time line:** which period of time is useful for you, the past days, past month, past year, others?
- ❖ **Key indicators:** any recommendation for useful indicators: fishing time per square, number of fishing months per square, total navigation time, statistics per main species targeted etc
- ❖ **Quality:** How do you verify the quality of data?