

4. Advanced analytics prototype

ABM and Advanced Analytics WS6

Lisbon, 14.12.2020

- **Background**
- **Objective, Scope**
- **Business Scenarios**
- **MS – EU Bodies, power users -feedback**
- **Next steps**

- IMS User Consultation and ABM Workshop meetings' reports.
- Single Programming Document (SPD)

[...] '...Advance the collaboration with the IMS Member State and EU bodies within the context of the “Automated Behaviour Monitoring and Advanced Analytics” Working Group, to further develop the portfolio of ABM services and **define the requirements for Data Analytics tools and products...**'; with a planned 2020 output: **'...further look into data analytics exploitation tools..' [...].**

- **Provide analysis that, thanks to the combination of different data sets, may support the 'Risk Assessment' activities of the Member States (MS) and EU Bodies**
- **Combining and aggregating data that is traditionally presented separately**
- **Not expected to be used in (near) real time/operationally, but rather more strategically**

- **‘Black Flag’ ships operating around the EU**

‘Black Flag’ per Paris MoU

- **‘Black Flag’ ships not reporting regularly**

8 hours gap between positions in the consolidated vessel track


- **Ships drifting in key EU areas**

Based on ABMs configured for that purpose

- **Ships Not Under Command in key EU areas**

Based on the analysis of the ‘navigational status’ transmitted by vessels and their positions

Prototype Tool



External Users

Click for External Users

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Black Flag Ships

Black Flag Ships by Paris MoU PSC ...




Details Table

Black Flag Ships by Paris MoU PSC ...




Bubble Map

Black Flag Ships by Paris MoU PSC ...




Heat Map

Black Flag Ships by Paris MoU PSC ...




Black Flag Ships Not Reporting

Black Flag Ships Not Reporting Regularly...




Details Table

Black Flag Ships Not Reporting Regularly...




Bubble Map

Black Flag Ships Not Reporting Regularly...




Heat Map

Black Flag Ships Not Reporting Regularly...




Drifting Ships

Drifting Ships in Key EU Areas - Overview...




Details Table

Drifting Ships in Key EU Areas - Details




Bubble Map

Drifting Ships in Key EU Areas - Bubble ...




Heat Map

Drifting Ships in Key EU Areas - Heat M...




Not Under Command Ships

Not Under Command Ships in ...




Details Table

Not Under Command Ships - ...



Bubble Map

Not Under Command Ships - ...



Heat Map

Not Under Command Ships - ...

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- **Lack of SSN Port+ vs. Destination ETA reported for EU port in AIS destination**
- **Lack of SSN Port+ vs. entry to a MS EEZ**
- **Inconsistency destination declared and detected**

- **The validation of the prototype i.e. its existing functionality and available data sets**
- **The definition of future Maritime Advanced Analytics business scenarios**
- **The definition of KPIs for the future operational tool(s)**



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