



Value of space for maritime information services of EMSA

- ESA Masterclass Maritime Applications

Leendert Bal /
Head of Department Operations

Geneva, Lift to Space15, ARTES Applications
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Regulatory Agency of the European Union

- Own legal identity
- Maritime safety, security, prevention and response to marine pollution by ships, oil and gas installations
- Technical and operational support to EU Member States and Commission
- ~235 staff, 24 nationalities
- ~80 staff in Operations Department
- Annual overall budget: ~53 million Euros
- HQ Lisbon, Portugal





Don't be afraid of the unknown...

... EMSA integrated maritime services are here to help

Serving different purposes:

- Pollution detection and monitoring
- Safety of Navigation and supporting long term Search and Rescue
- Accidents with oil and gas installations
- Law enforcement activities (fishery control, customs, anti-drugs trafficking, border control)
- Anti-piracy

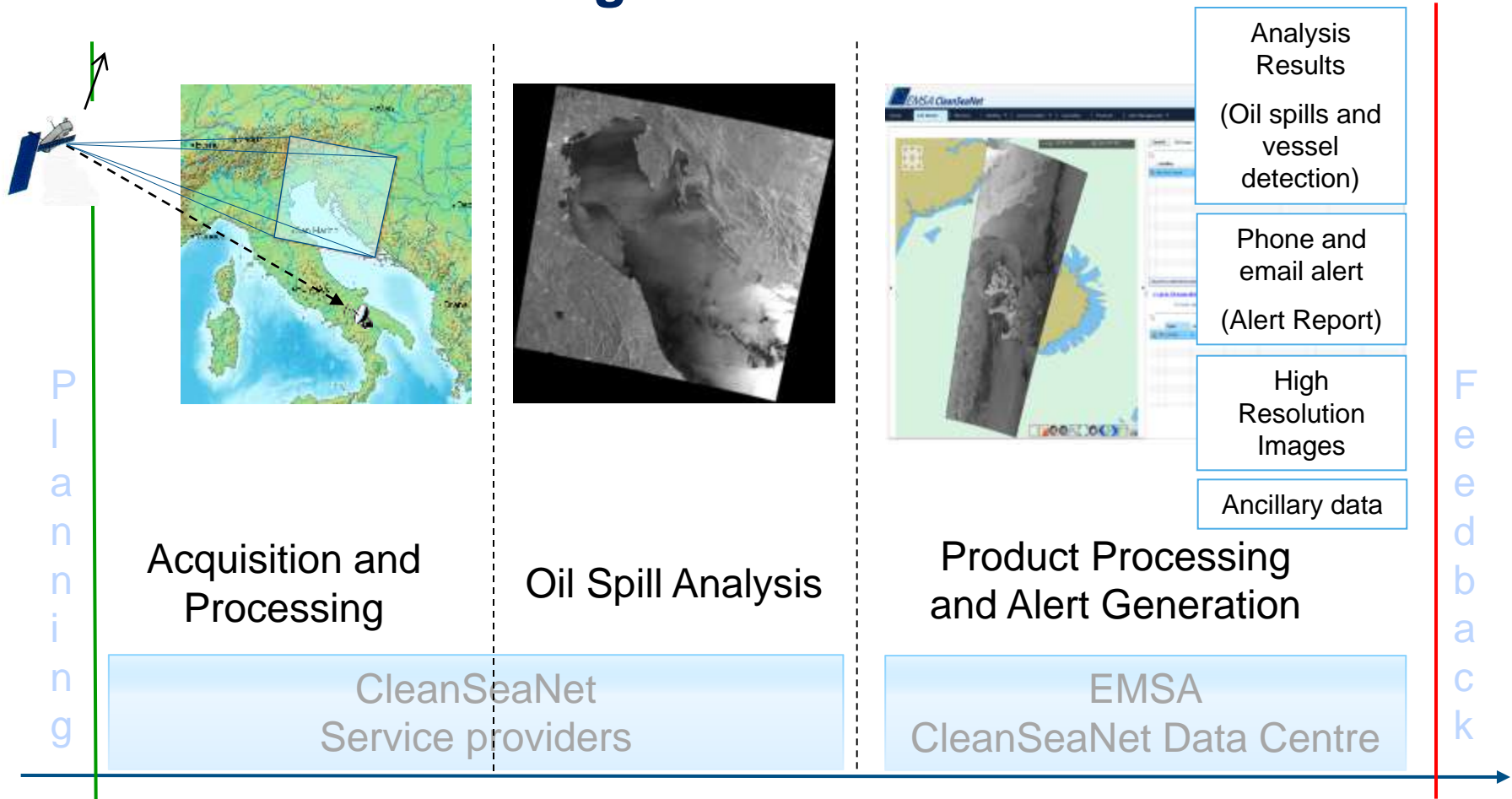


CleanSeaNet:
> 2.100 images per year



Maritime Surveillance: > 900 images

CleanSeaNet serving 27 countries

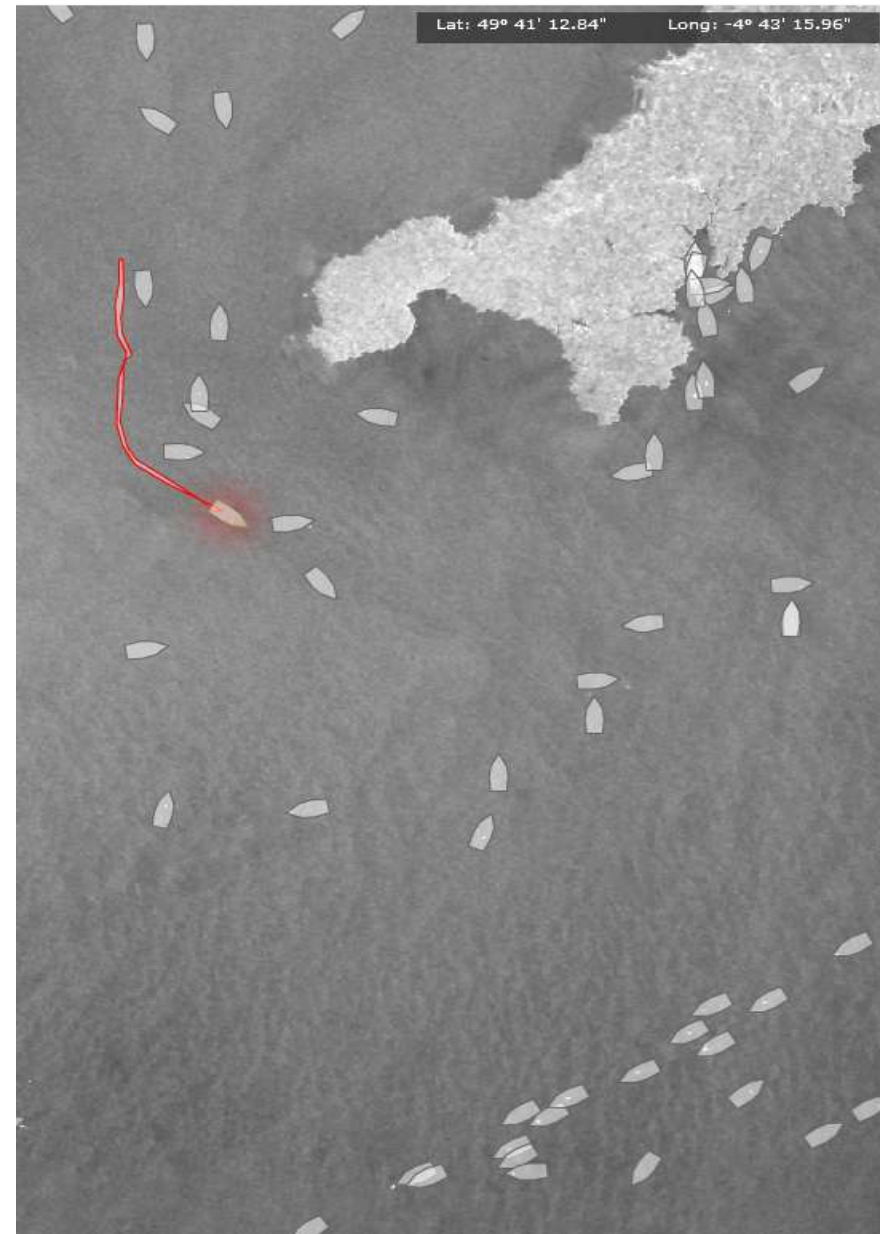


T0 = End of scene acquisition

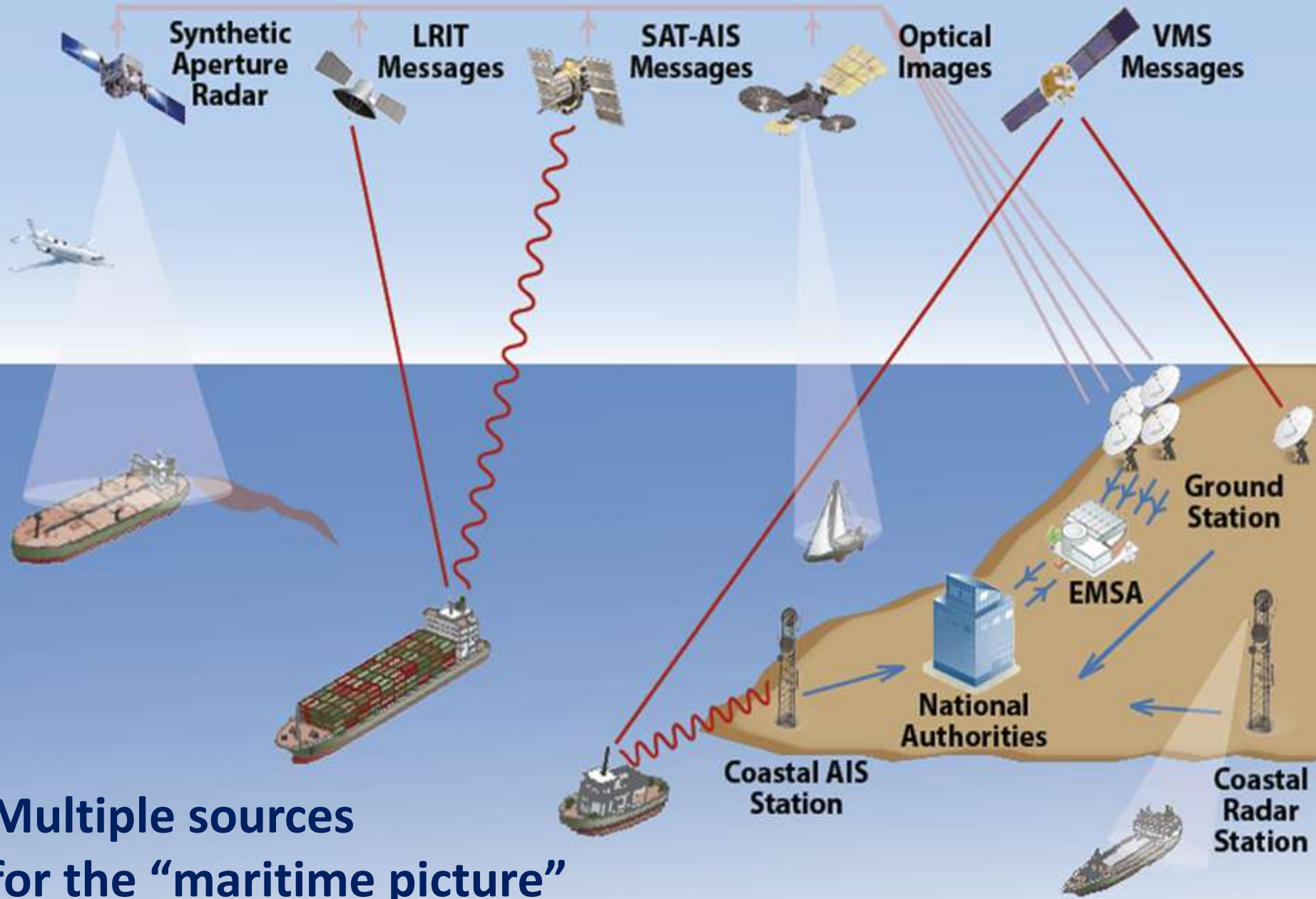
T = T0 + 30 min

* Satellite images are acquired in segments up to 1400 km long. 30 min are for a 400 km long image

Example of linking pollution to the polluter



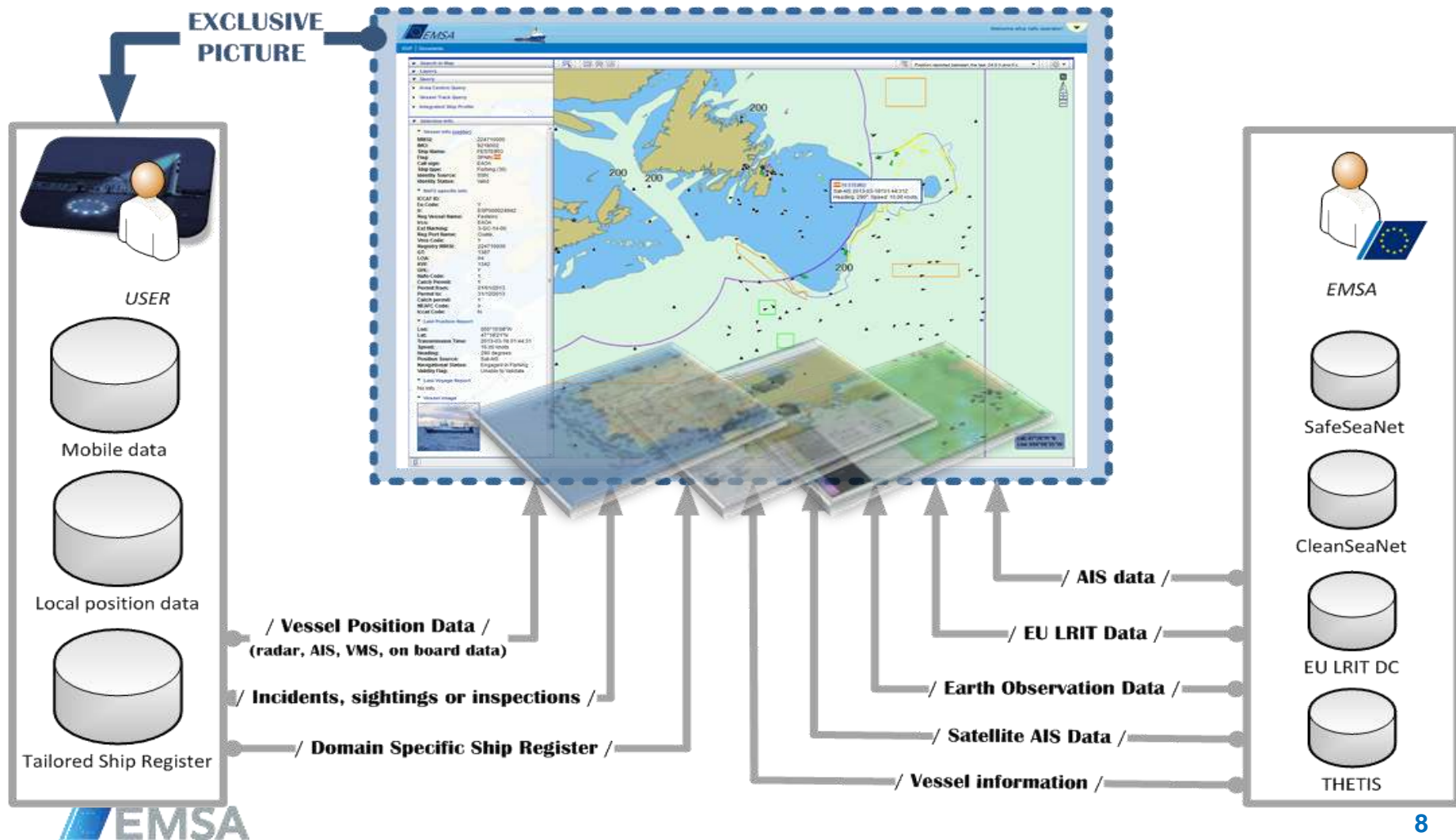
Correlation of spill track with
AIS tracks



**Multiple sources
for the “maritime picture”**

Integrated data

Tailor-made Integrated Maritime Awareness Picture



EU Interagency cooperation

- EMSA provides tailor-made integrated information services to EU NAVFOR (anti piracy), EFCA (fishery control) and Frontex (border control)
- Multiple data sources (ship positions from different sensors: VMS, T-AIS, SAT-AIS, LRIT), data correlation and satellite Earth Observation (FX).

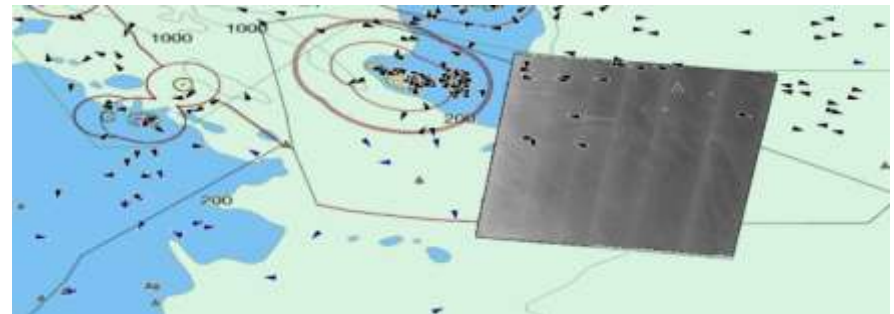


Conclusions

- Multiple space technology used to create “maritime picture”;
- Space valuable asset for maritime monitoring;
- Valuable cooperation with ESA;
- More active EU Space Policy focusses on Earth Observation, which is one of the components;
- In EU *multinational* services are offered;
- Data correlated and embedded in (national) monitoring chain;



- Good prospect of more and enhanced services:
customer/volume increase:
growing user uptake in years to come.





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European Maritime Safety Agency