EMSA

European Maritime Safety Agency

Case study:

Use of the Coastal Standing Orders

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Use of the Coastal Standing Orders

Idea: predefine a set of coastal polygons along the coast line

Why?

- **to have them ready for activation**

- **To avoid using one large polygon, which may generate high costs**

How?

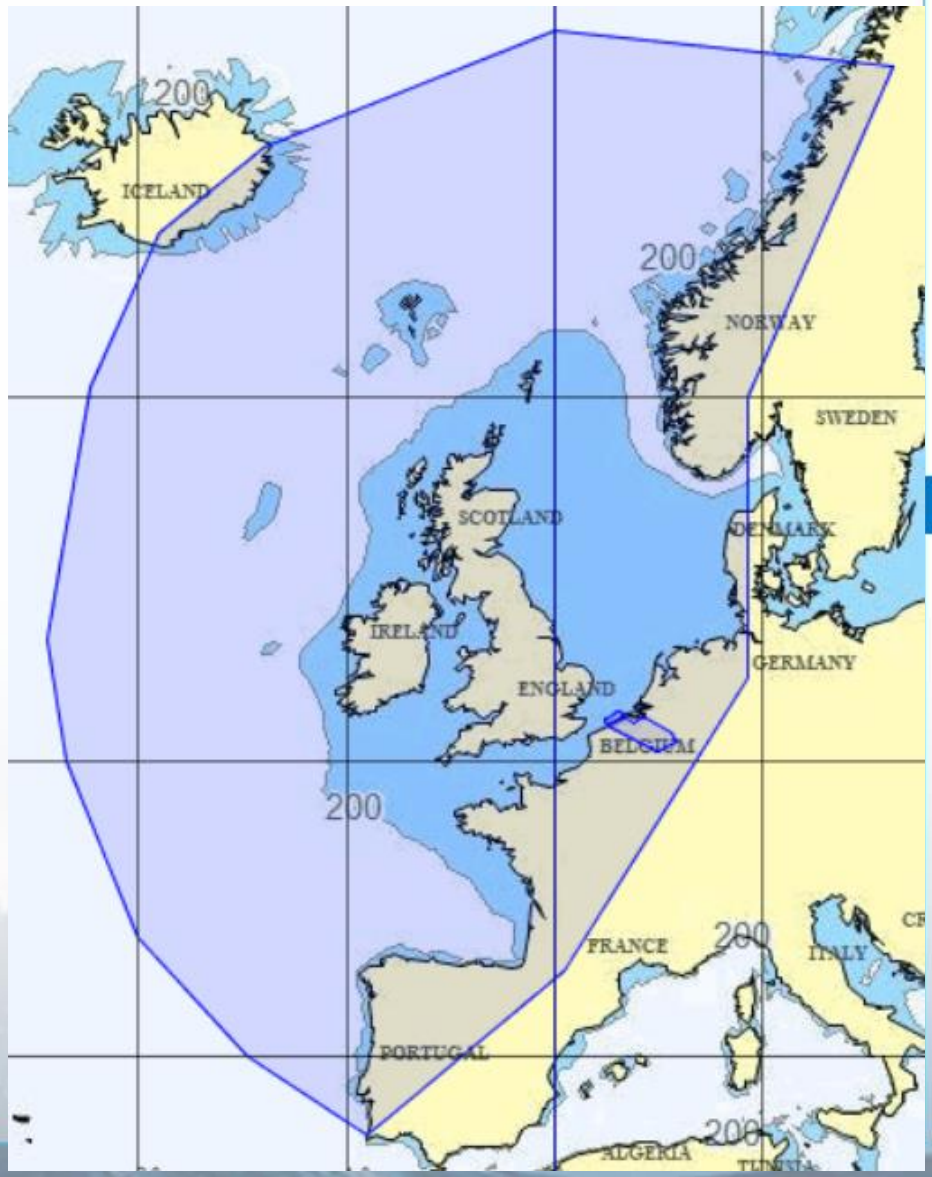
By uploading polygons in the DDP server

Example: one polygon

If activated:

Thousands of positions to pay!

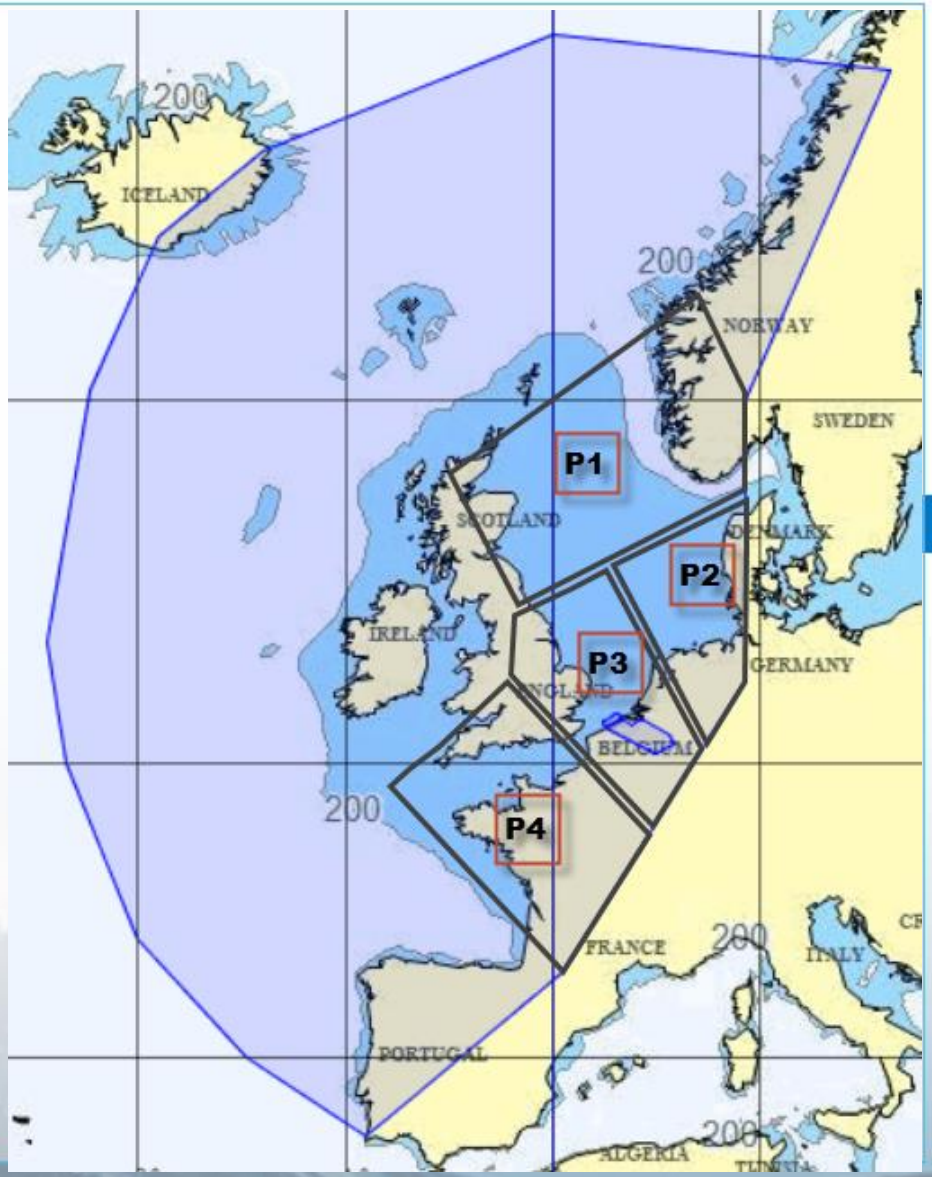
Not all positions relevant



Example: several polygons

You can activate one or several polygons, depending on your current interest

Positions you pay are the ones really needed



Example: several polygons

Polygons can be drafted out of AIS coverage

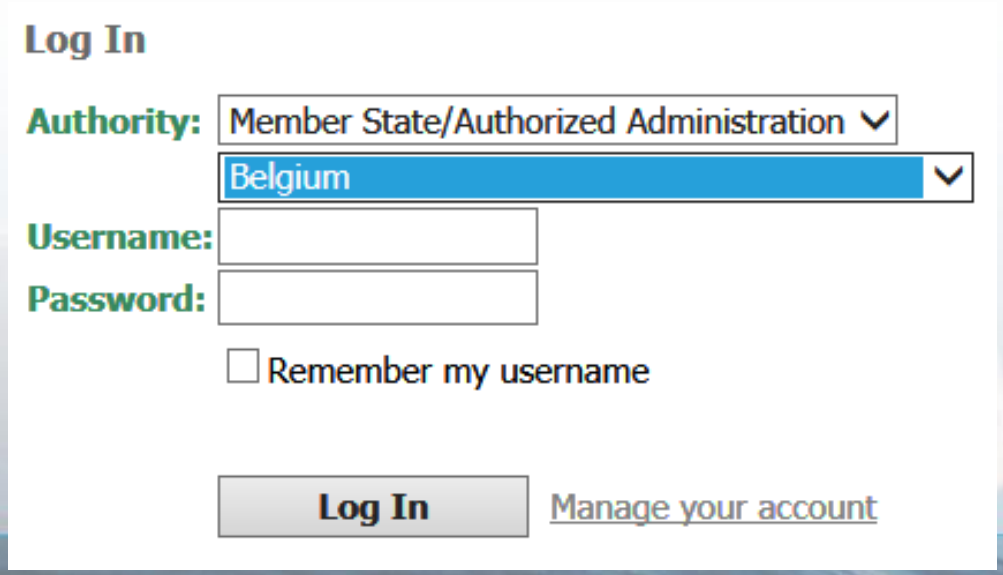
-> positions you pay are the ones really needed

Reminder: incremental DDP updating process

- **Regular** Update : routine daily incremental update available every **24 hours**:
  - Update/new polygon;
  - New CG, DC, SAR…
- **Immediate** Update: implemented after **1 hour**:
  - Exclusion of a country/security force;
  - Activation or deactivation of a standing order on pre-existing polygon **-> advantage of pre-loaded polygons for quick availability when needed.**

Accessing DDP

- https://ddp-test.gisis.imo.org/Members/
- https://gisis.imo.org/Members/
- Each CG has a login for Test and Prod: see the result in Test, before deploying in Prod



Define an area in the DDP

Polygon must be technically valid (MSC 1259):

- Min 4 vertices (points)
- Each vertice= longitude, latitude (degrees and 2 decimals)
- Polygon is closed (first vertice=last vertice)
- No overlapping in one group (internal waters, territorial waters, 1000NM, coastal standing orders)
- No intersection of segments

Upload in DDP

In Data > Geographical Areas:

- One vertice at a time: Enter manually
  - no validity check (DDP server does not check)
  - slow

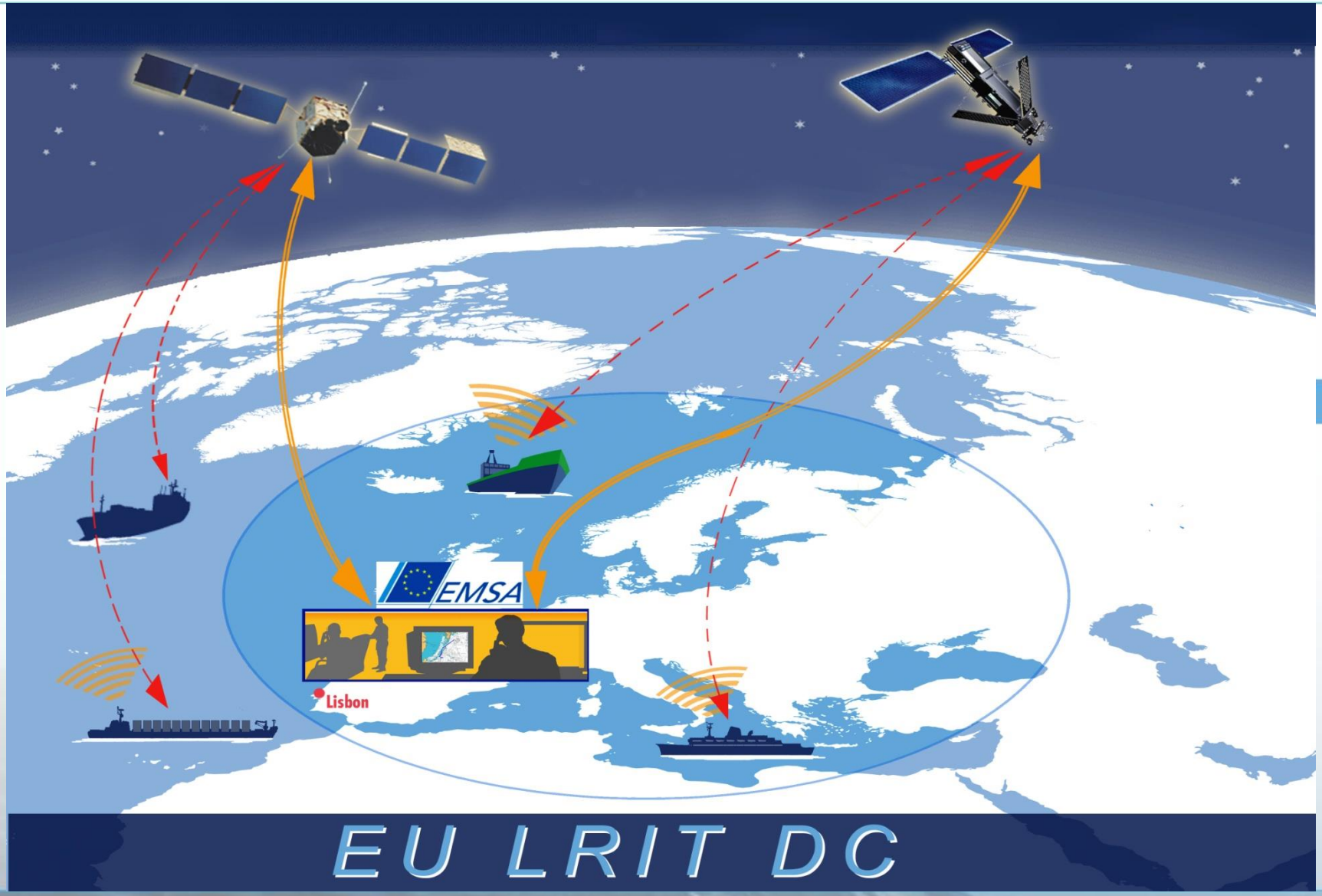
- Through GML file: Upload file
  - first check polygon validity in IDE AI
  - fast

Final gml polygon

```
<gml:MultiSurface xmlns:xsi=
"http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation=
"http://www.opengis.net/gml/3.2
http://schemas.opengis.net/gml/3.2.1/gml.xsd" gml:id=
"CustomCoastalAreas" xmlns:gml="http://www.opengis.net/gml/3.2"
><gml:surfaceMembers><gml:Polygon gml:id="GACA1071_1"
><gml:description>Italy, Standing Order, Test
</gml:description><gml:exterior><gml:LinearRing><gml:posList>17.49
37.22 22.05 37.22 22.05 32.91 17.49 32.91 17.49 37.22
</gml:posList></gml:LinearRing></gml:exterior></gml:Polygon></gml:surf
aceMembers></gml:MultiSurface>
```

Conclusion: advantage of pre-loaded small polygons

- Customize the polygons to fit your needs (sensitive area, etc)
- Limited cost
- Ready in 1 hour
- EMSA can help, but
  - Can take time depending on workload
  - Needs of CG sending vertices in a table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