



**EMODnet**



European Marine  
Observation and  
Data Network

*Your gateway to marine data in Europe*

# EMODnet – Phase IV

EMODnet Technical Working Group, April 2020

Geology lot

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## Some numbers

- ④ 40 partners
- ④ 7 data products totaling 1 GB of zipped data
- ④ 97 data sets (data, SLD, metadata documents)
- ④ 3 million features
- ④ Stored and managed in an online relational database



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## Main objectives of phase IV

- ④ Updating and improving all existing data products
- ④ Extending coverage for all data products – most prominently the Caspian Seas
- ④ Improving web map functionality and UX

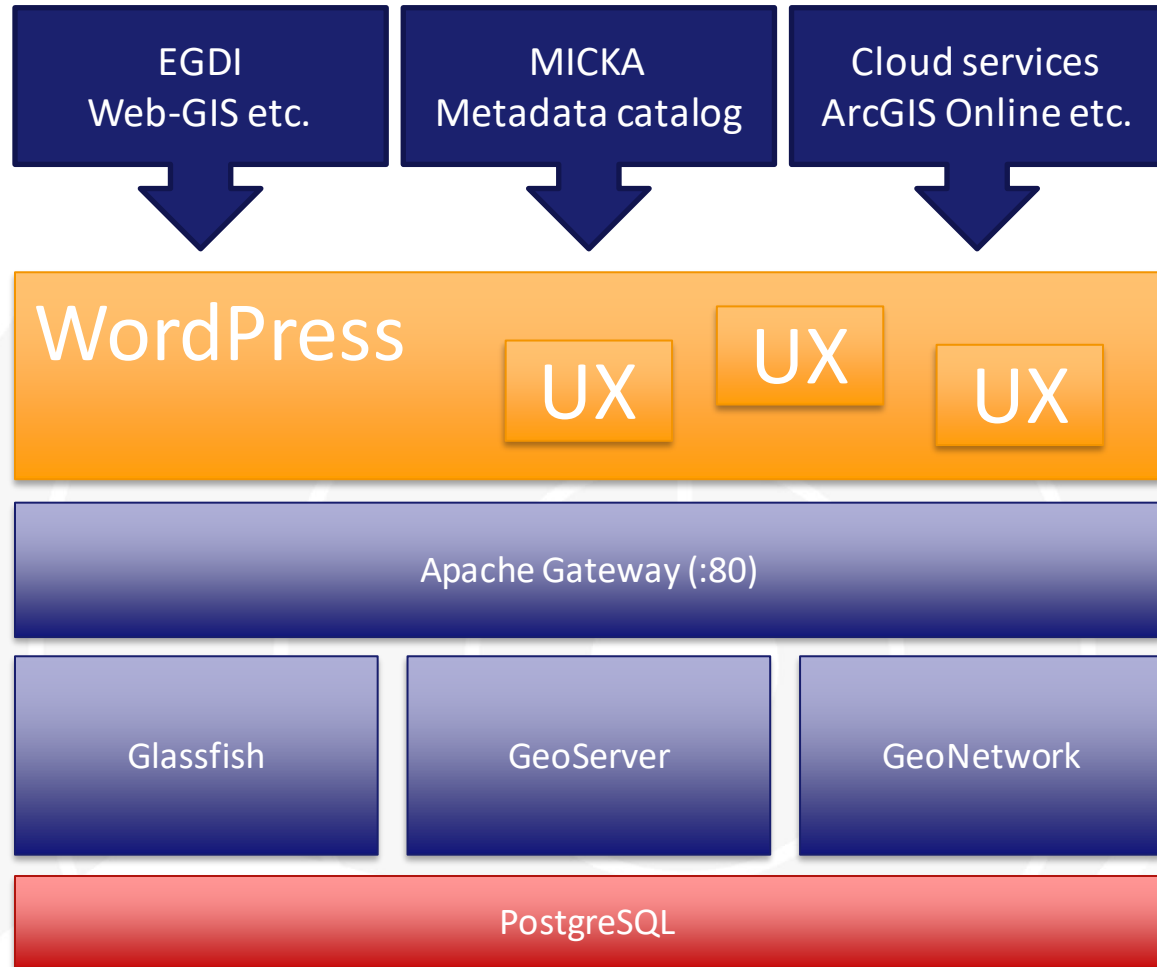


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## Technical setup





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## Web map features pipeline

	Google etc.	Main portal	Geology portal
<b>Navigation...</b>			
Location search	√		√
Lat/lon coordinate	√		√
User's current location	√		√
Rectangle drawing (SHIFT + drag)	√	√	√
<b>Selection of contents...</b>			
<b>Download by drawing a polygon</b>			√
Hierarchical index for data sets/products		√	√
Rectangle selection (CTRL + pan)			√
Attribute filtering	√		√
<b>Visualization</b>			
Fullscreen function	√	√	√
Change layer order			√
Map rotation			√
Animation of time series		√	
<b>Tools</b>			
Distance and area measurement			√
External analysis tool by polygon search	√		√
Adding external data			√
<b>Save map and data as...</b>			
Link	√		√
<b>Raster image</b>	√	√	
Spreadsheet			√
<b>Print/report</b>			
<b>QGIS-project</b>			
<b>Accessibility</b>			
<b>User-friendly display of processes and errors</b>	√	√	
Keyboard shortcuts (ESC, tab, arrows etc.)	√	√	√
Touch screen support	√	√	√
Iframe support	√		√
Multilingual	√	√	√



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## Web map considerations often overlooked

- ① What is your target audience?  
Professionals, novice, IT-skilled? Could QGIS take over for the more complex use?
- ① 3<sup>rd</sup> party services should be avoided  
We have an obligation to our users to treat their use confidential. An oil company could be interested in a certain sea area that shouldn't be shared with Google, ArcGIS or others.
- ① Be careful when choosing your map projection  
Many will choose a Google projection without realizing how this will impact polar representations.



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