

## EMODnet – Phase III

7<sup>th</sup> EMODnet Technical Working Group Meeting Agenda item 6

*Updates, features and perspectives from EMODnet thematic projects*

Perspectives from Lot 3. on new developments EMODnet Phase IV

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ETT



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# *Overview of planned developments and data/product releases under current contract*

**Expand the existing data resources including new datasets by linking new data sources**

**PANGAEA**

**WOD (via INSTAC)**

**ICES Ocenographic DB**

**SOOP**

**...**



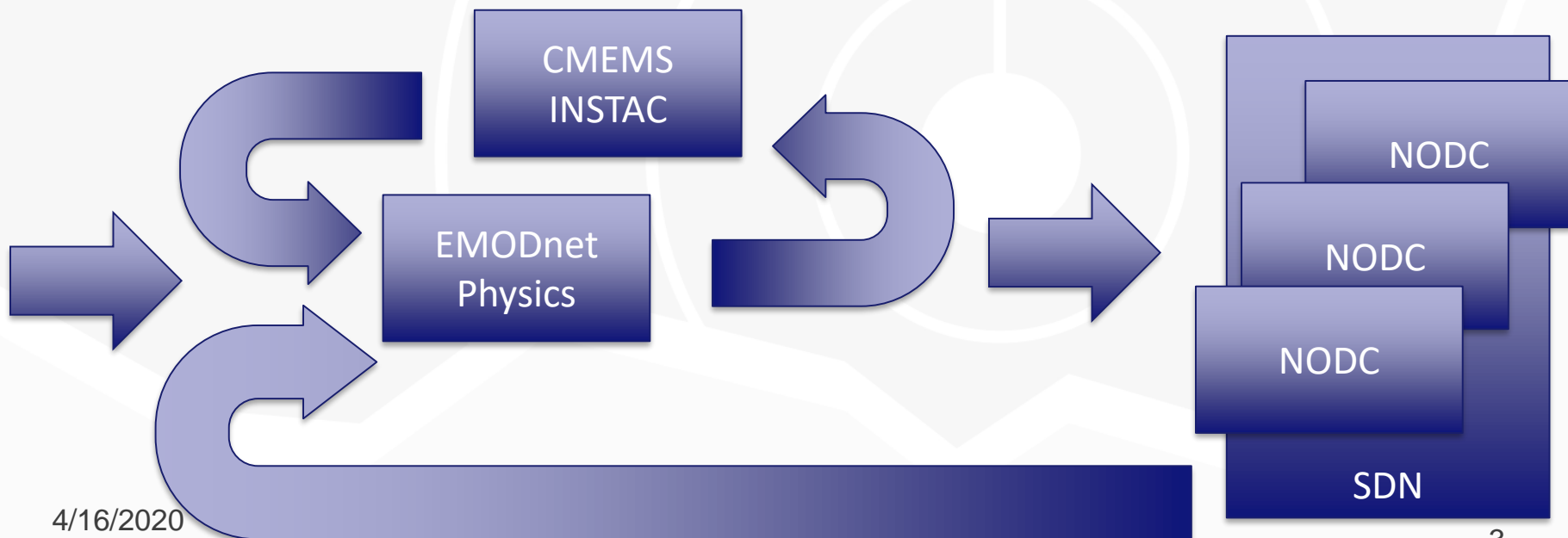
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# Overview of planned developments and data/product releases under current contract

## Closing the gap in data flow between operational repository and validated

Substantial gap in the dataflow of physical data from fixed stations flowing from operational data centers (connected to CMEMS and ROOSs) compared to the available quality controlled data archives (SeaDataNet NODC's) resulting in incomplete qualified collections (in time coverage as well as parameters)





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European Marine  
Observation and  
Data Network

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# *Overview of planned developments and data/product releases under current contract*

Products to be updated/released:

- ① ice coverage and ice coverage trends
- ① noise sound maps
- ① Monthly/annual total suspended matter map
- ① monthly/annual relative/absolute sea level trend map
- ① Monthly/annual fresh water discharge map
- ① Seasonal/annual sea water temperature map
- ① Seasonal/annual sea water salinity map
- ① monthly/annual sea surface horizontal velocity map
- ① Seasonal/annual sea state (wave) map



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# Sea Level

## Input

EU Tide Gauge network

PSMSL

IOC GLOSS

SONEL

UHSLC

## Output

Nowcast data

Rel Sea Level trends

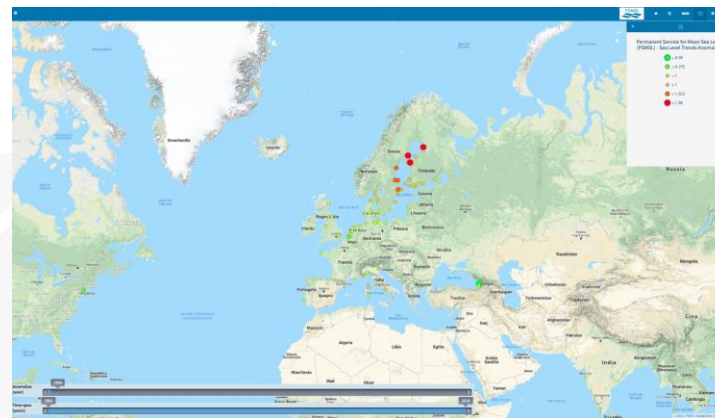
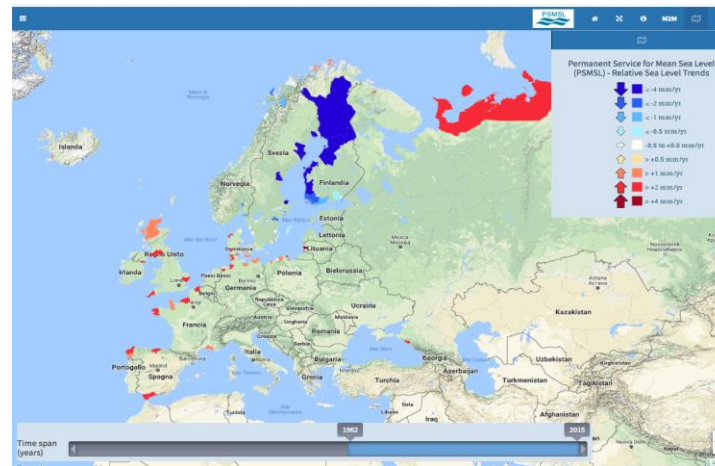
Abs Sea Level trend

Sea Level Anomalies

## Downloadable Volume

Daily to monthly dataset from 2000 stations

...





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# Temperature in the water body

## Input

CMEMS INSTAC

SDN CDIs

IOOS

IMOS

Coriolis

IAPB

PANGAEA

T-MED network

...

SDN climatology

CORA – Coriolis  
Ocean Dataset  
for Reanalysis

## Output

Nowcast  
timeseries

Trends

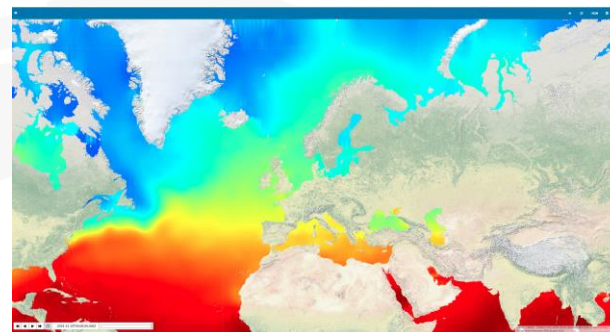
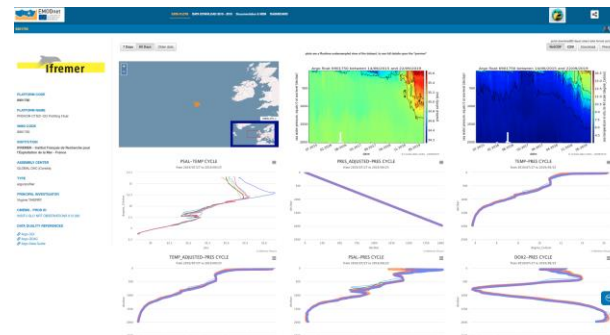
Climatology

Maps

## Downloadable Volume

Daily to monthly dataset from  
2000 stations

...







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# Impulsive Noise

## Input

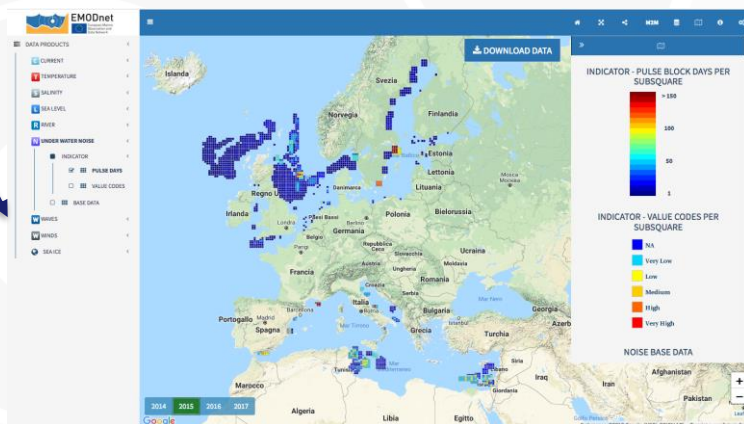
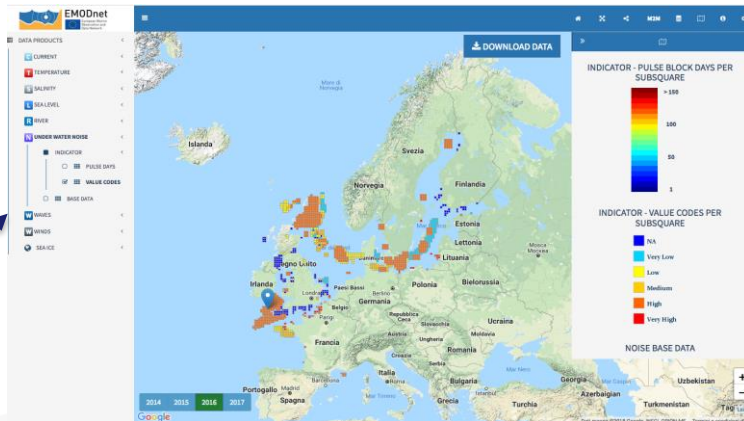
OSPAR – ODIMS

HELCOM - ICES

ACCOBAMS -  
QuiteMED

Pulse per day  
per block  
count

Imagine ICES  
subrectangles

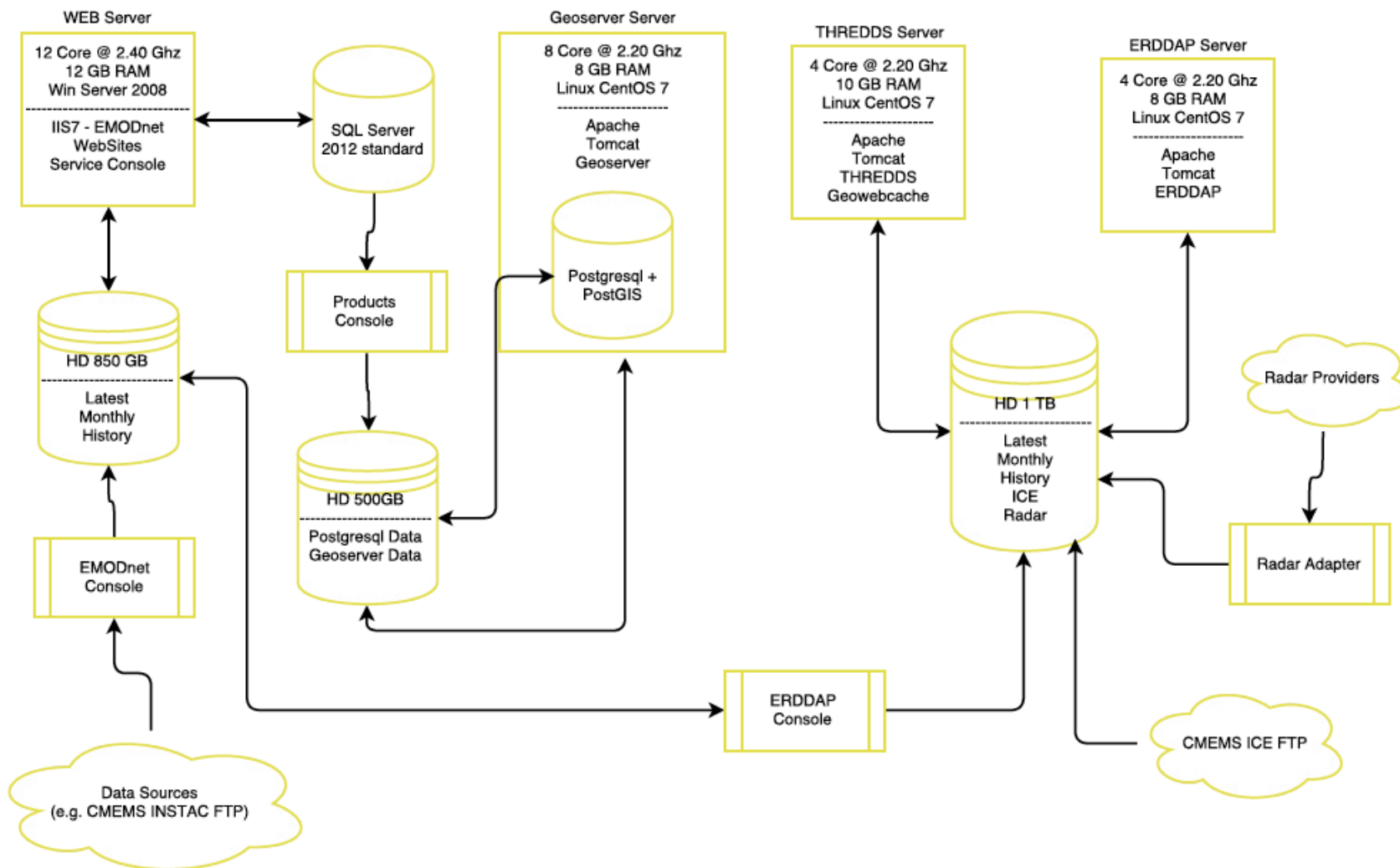


Unit: pulse event days per block; period: 2015 – 2018; value code



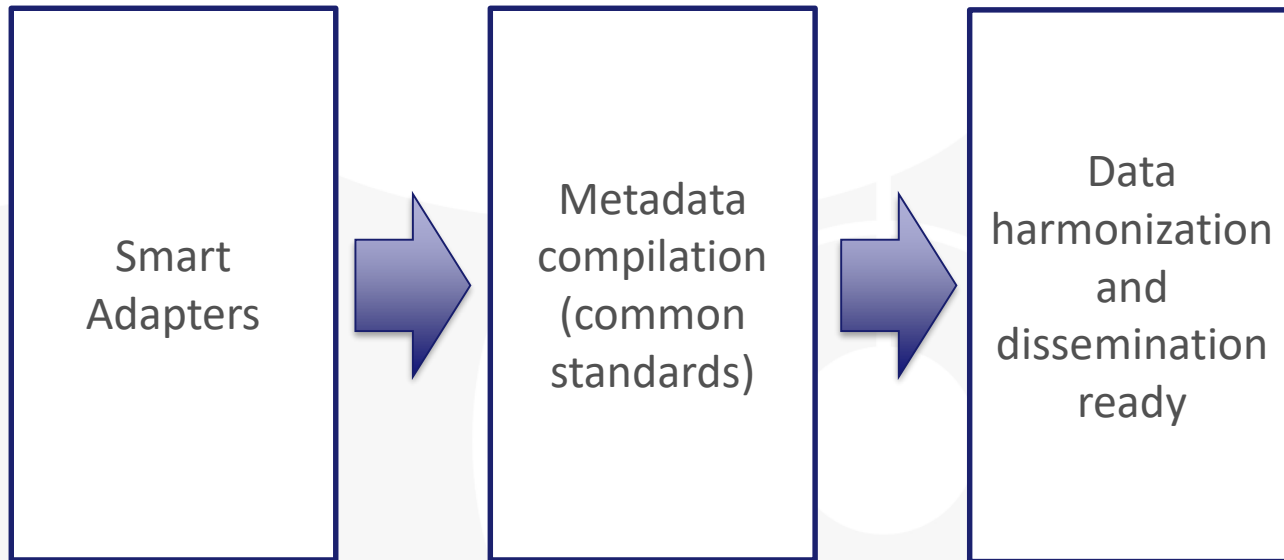
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# Overview of technical architecture/infrastructure and key features



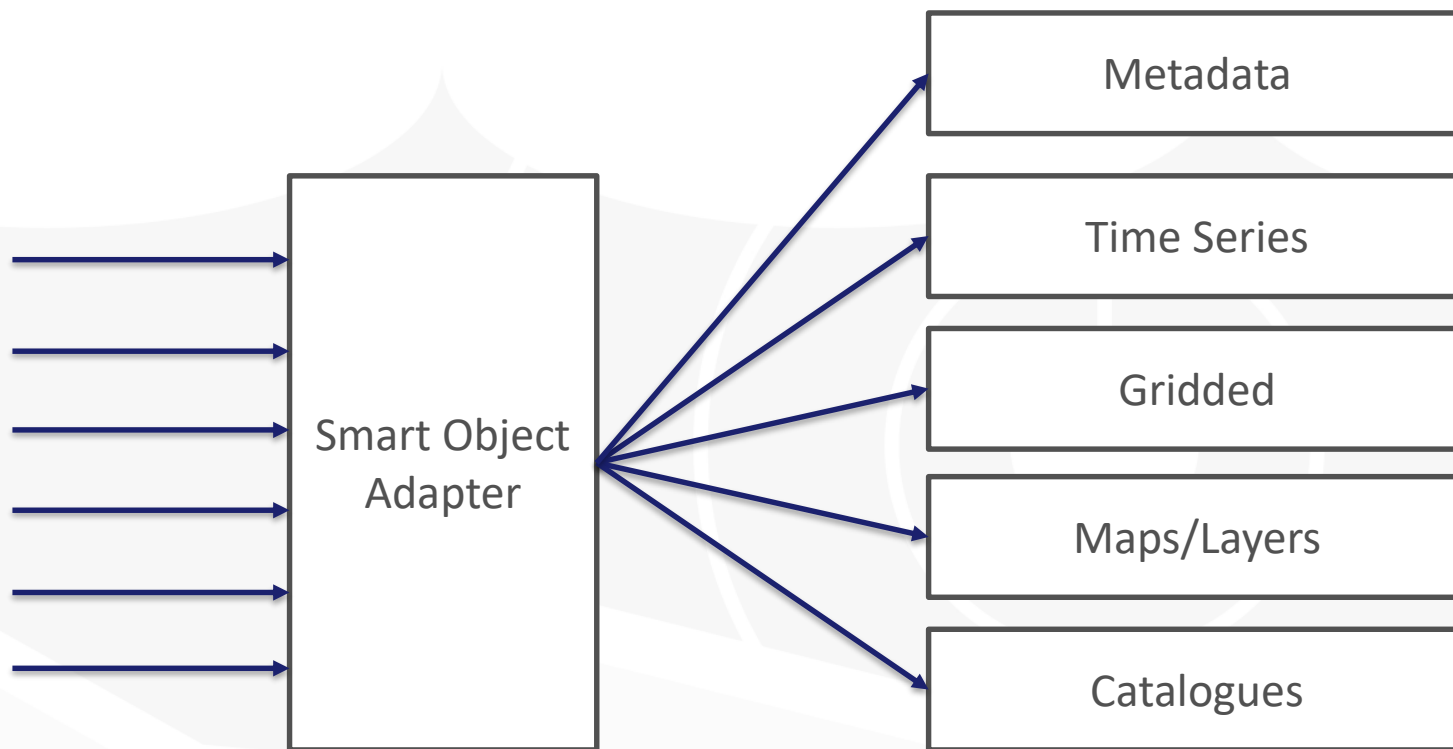


## *Overview of technical architecture/infrastructure and key features relevant for future developments*

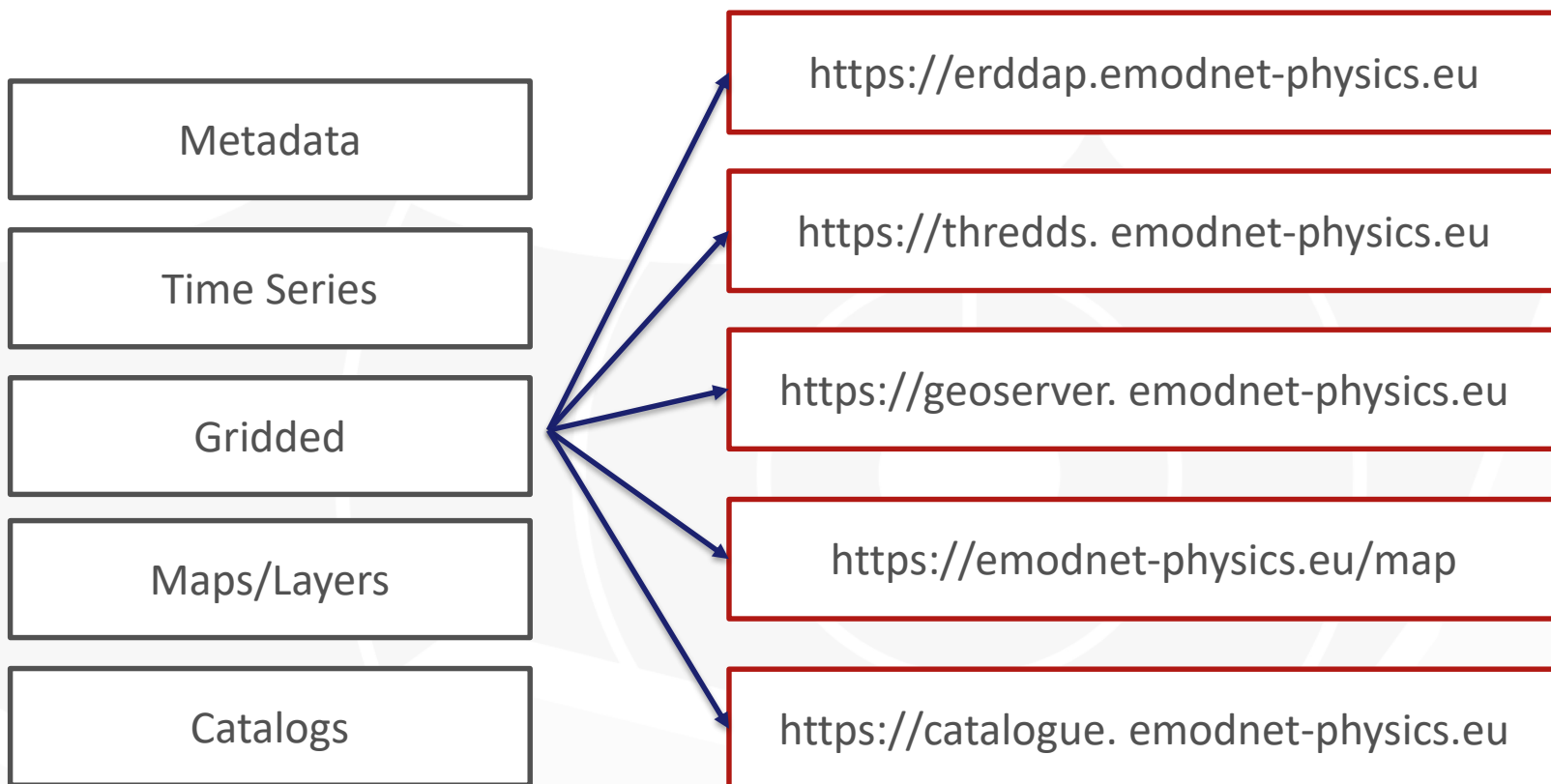


When some it is missing, to design/work on making it ready

## *Overview of technical architecture/infrastructure and key features relevant for future developments*



## *Overview of technical architecture/infrastructure and key features relevant for future developments*





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## General perspectives on new vision objectives (cf SC meeting item 4)

- ⦿ Common understanding on data, products, maps, layers, services
- ⦿ Definition of use case
- ⦿ Planning of actions
- ⦿ Development phase/environment – production
- ⦿ Internal communication
- ⦿ Structure of the HD



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***Short, medium & long term implications  
of the new EMODnet vision objectives  
(cf SC meeting item 4)***



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***Any technical recommendations and insights to support further developments (If you have any)***





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*Your gateway to marine data in Europe*