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PAN-EUROPEAN INFRASTRUCTURE
FOR OCEAN & MARINE DATA
MANAGEMENT

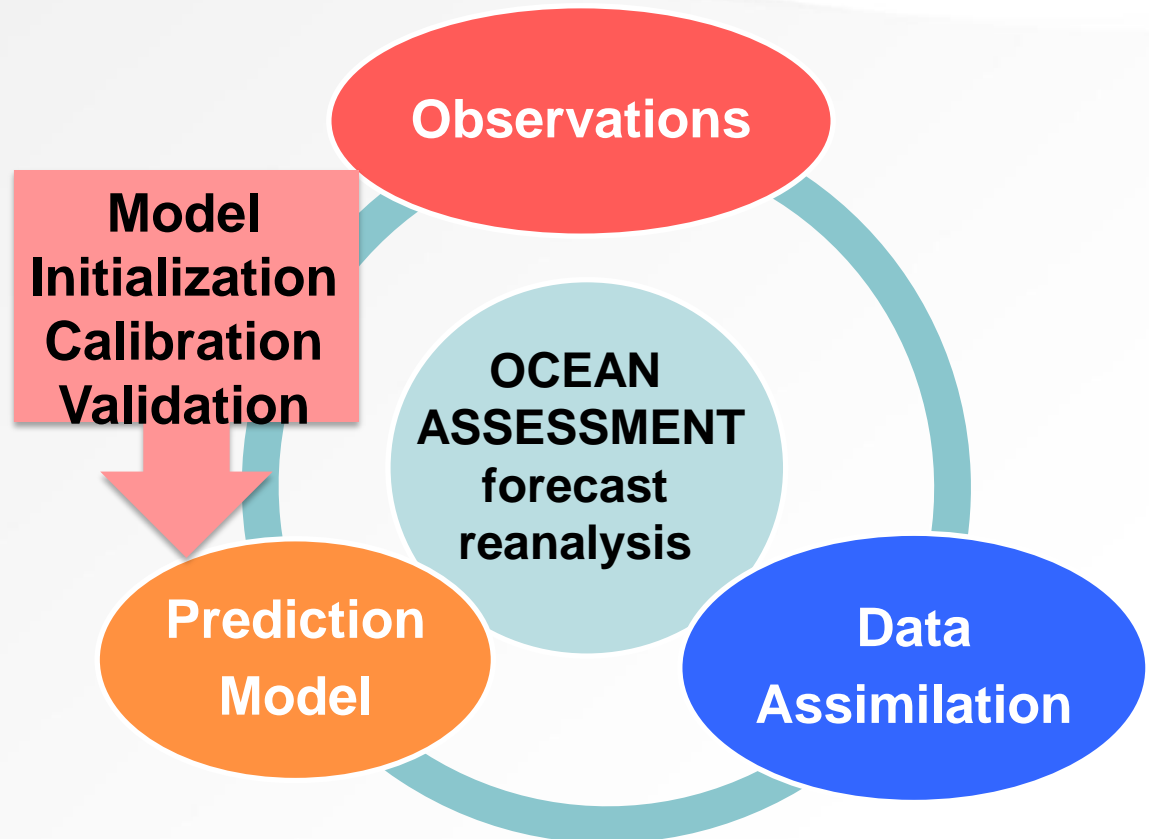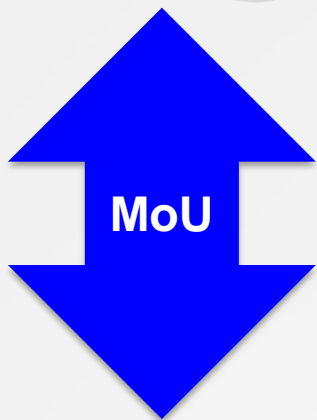# *Collaboration with MyOcean*
NEXT STEPS

Antonio Guarnieri
on behalf of S.Simoncelli & M.Tonani (INGV)

OUTLINE

- Objective of SDN-MyO collaboration

- Quality assessment strategy implemented for historical data sets

- Information exchanges between SDN and MyO

- MyO Product containing SDN data

- SDN reply to MyO outcome

- Next collaboration steps
  - ✓ Joint Product
  - ✓ Joint Meeting

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SDN-MyO COLLABORATION

Obj: to create TS historical data collections in synergy with MyOcean In-Situ Thematic Assemble Centre (INSTAC) to support and promote monitoring, modeling and downstream service development
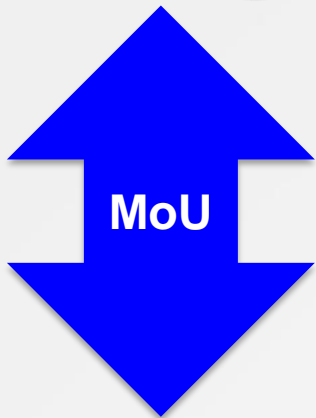
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my Ocean

Observations

Model Initialization Calibration Validation

OCEAN ASSESSMENT forecast reanalysis

Prediction Model

Data Assimilation

sdn-userdesk@seadatanet.org – www.seadatanet.org

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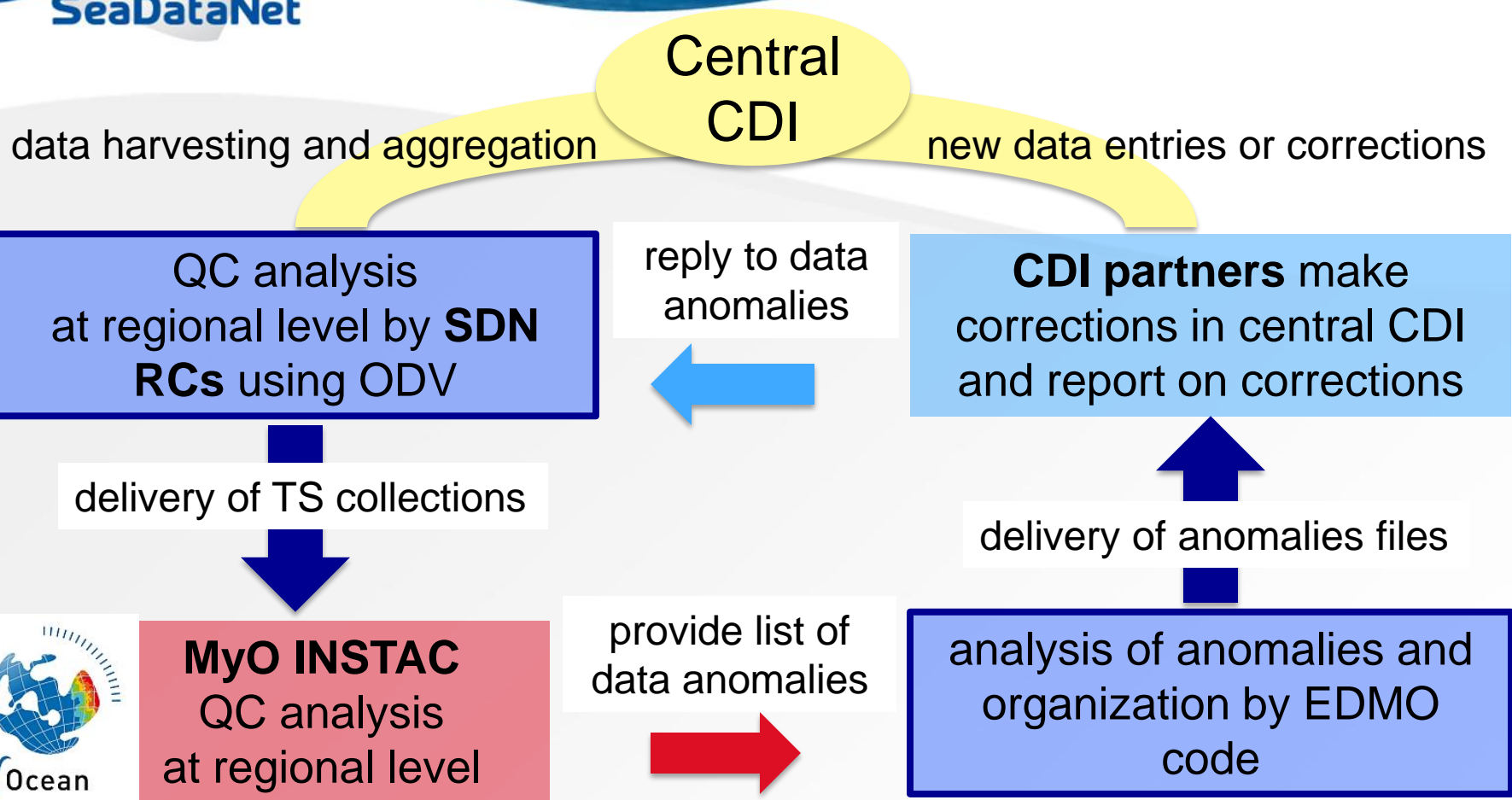# *SDN-MyO COLLABORATION*

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In order to generate jointly Regional TS products for 20 years (1990-2012) we had to **define a protocol for information exchange:**
- common time schedule
- data flow
- information exchanges
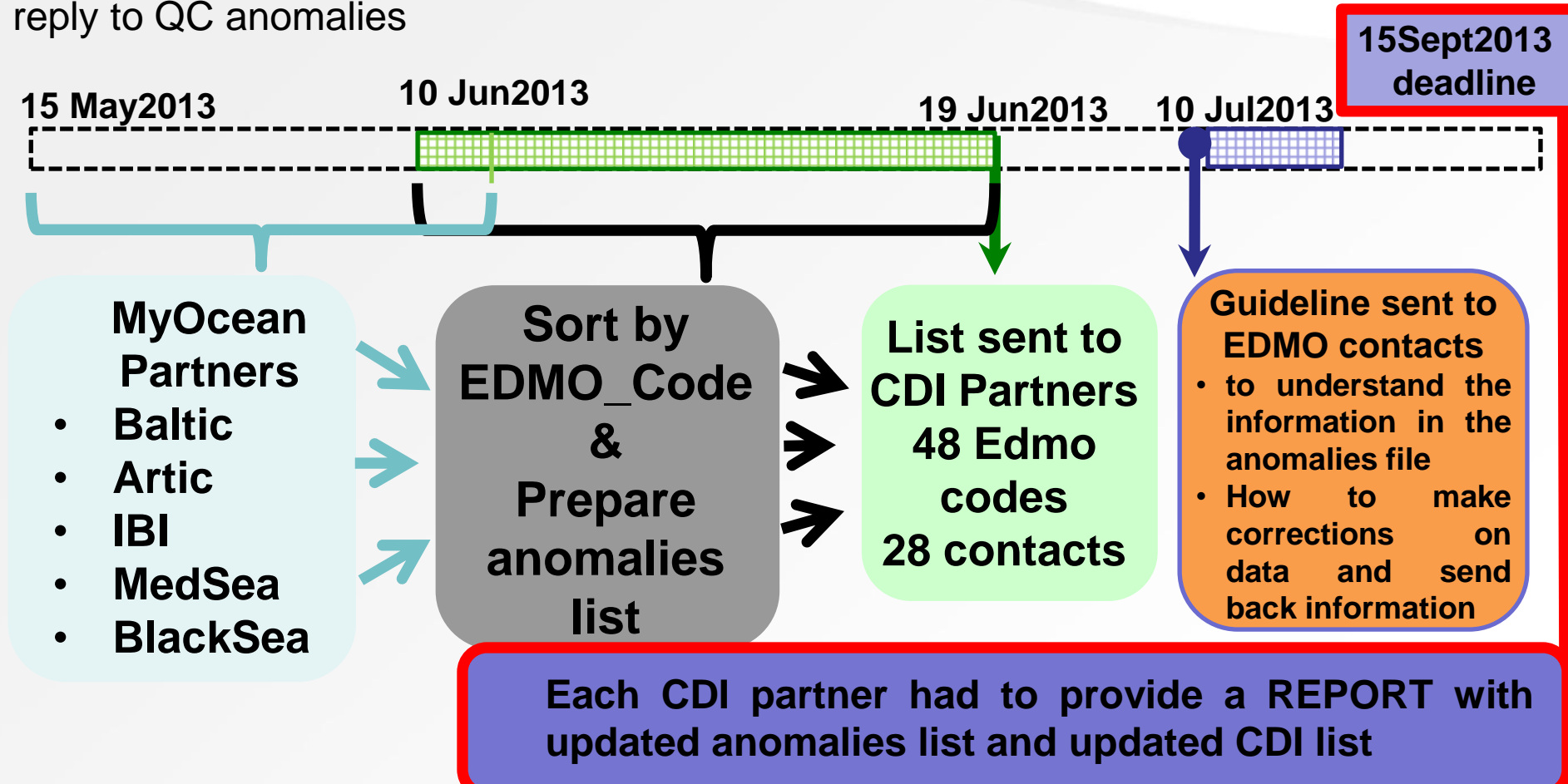- QC strategies
- interfaces

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Central CDI

data harvesting and aggregation

new data entries or corrections

QC analysis at regional level by **SDN RCs** using ODV

reply to data anomalies

CDI partners make corrections in central CDI and report on corrections

delivery of TS collections

MyO INSTAC QC analysis at regional level

provide list of data anomalies

delivery of anomalies files

analysis of anomalies and organization by EDMO code

myOcean

QC procedure has been designed to be iterative in order to facilitate the update and improvement of SDN database content
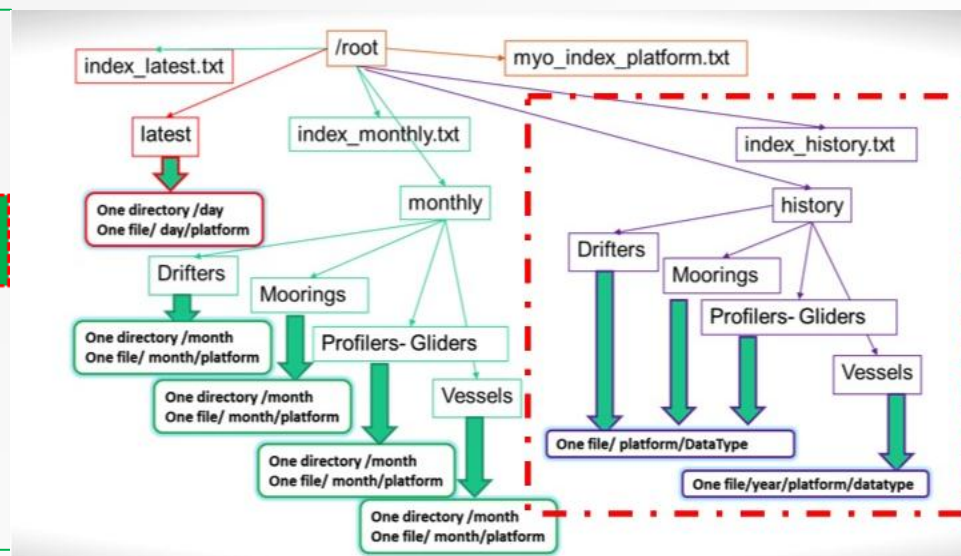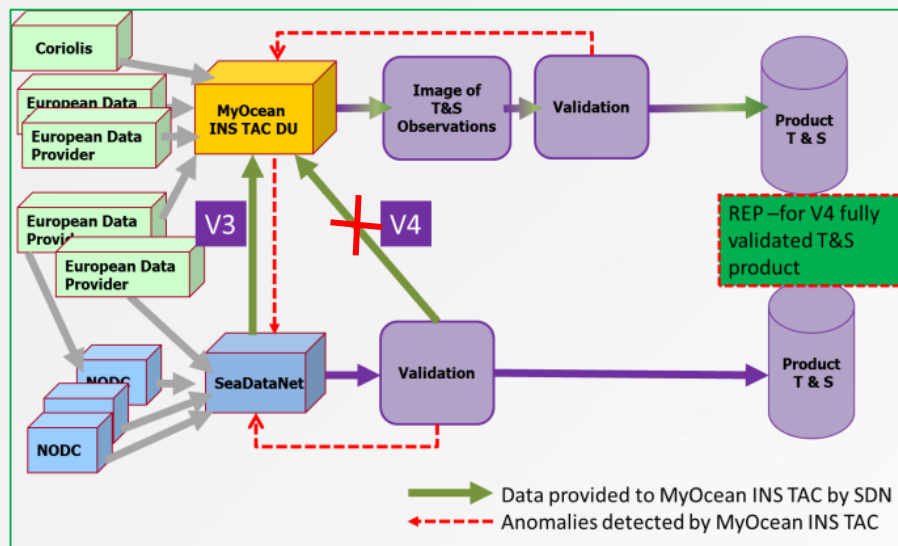
SDN-MyO:
Information exchanges

Jun2013: Results from SDN and MyO QC analysis were collected, organized and sent to the NODCs

JulAug2013: NODCs were asked to check QC data anomalies, to correct the data and reply to QC anomalies

15Sept2013 deadline

15 May2013   **10 Jun2013**   **19 Jun2013**   **10 Jul2013**

MyOcean Partners
- **Baltic**
- **Artic**
- **IBI**
- **MedSea**
- **BlackSea**

Sort by EDMO_Code & Prepare anomalies list

List sent to CDI Partners 48 Edmo codes 28 contacts

Guideline sent to EDMO contacts
- **to understand the information in the anomalies file**
- **How to make corrections on data and send back information**

Each CDI partner had to provide a REPORT with updated anomalies list and updated CDI list

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MyOcean V3 product → aggregation of data from the ROOS providers and SDN removing duplicates and converting all data in the same format with the same QC flags

MyOcean V4 product was released in March 2014 but without new validated SDN data, due to time schedule mismatch

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- **Main issue raised by MyO**: some important metadata have been lost in the aggregation process i.e. **Platform Code** and **Instrument Type** → SDN data were considered good but a visual QC was useful for checking suspicious data. Only "new" data were included in MyO historical data sets. Duplicates were discarded

- **SDN V1.1 data collections do not contain these metadata yet** and this is **crucial for both MyO and SDN.** The newly released features of ODV now allow to do the data/metadata association automatically: **this implies a new importing of the whole dataset.** More reasoning is needed (starting from Oct. 2014)

Conclusions and Next Steps

• A considerable amount of work has jointly been conducted and coordinated between SDN and MyO in order to create a high quality joint product to be delivered to the users;

• For the time-being the benefits of SDN from this cooperation consisted in a severe enhancement of the quality of the products. MyO benefits concern a potentially high incrase of dimension of its datasets;

• In spite of the big effort produced we are not yet ready to deliver a real Joint Product as the result of this cross-activities, essentially because of lack of cosistency between the 2 datsets and deliveries, mainly regarding:
  - ✓ Common Metadata Specifications
  - ✓ Common Data Format

Conclusions and Next Steps

- A technical/strategical joint meeting is suggested no later than mid November involving SDN and MyO representatives to understand exactly what we still need in order to withdraw a proper joint product out of the two separate products we have at the state of the art;

- Expected outcomes of the Joint Meeting:
  - necessary technicalities to overcome the actual problems (*this is what we have → this is what we need)*;
  - strategy of delivery of joint product;
  - balanced acknowledgement and benefits for the two projects.

- Proposed actors involved:
  - SDN: Coordinator, PO, developers of ODV sw;
  - MyO: PM, responsible of in-situ TAC (MyO will decide).