



EOMORES

EOMORES overview

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This project is co-funded
by the European Union



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research and innovation programme under grant agreement n° 730066.*



Consortium

- Water Insight (Netherlands) - *coordinator*
- Deltares (Netherlands)
- SYKE (Finland)
- CNR-IREA (Italy)
- Tartu Observatory (Estonia)
- Klaipeda University (Lithuania)
- University of Stirling (UK)
- Plymouth Marine Laboratory (UK)
- Evenflow (BE)



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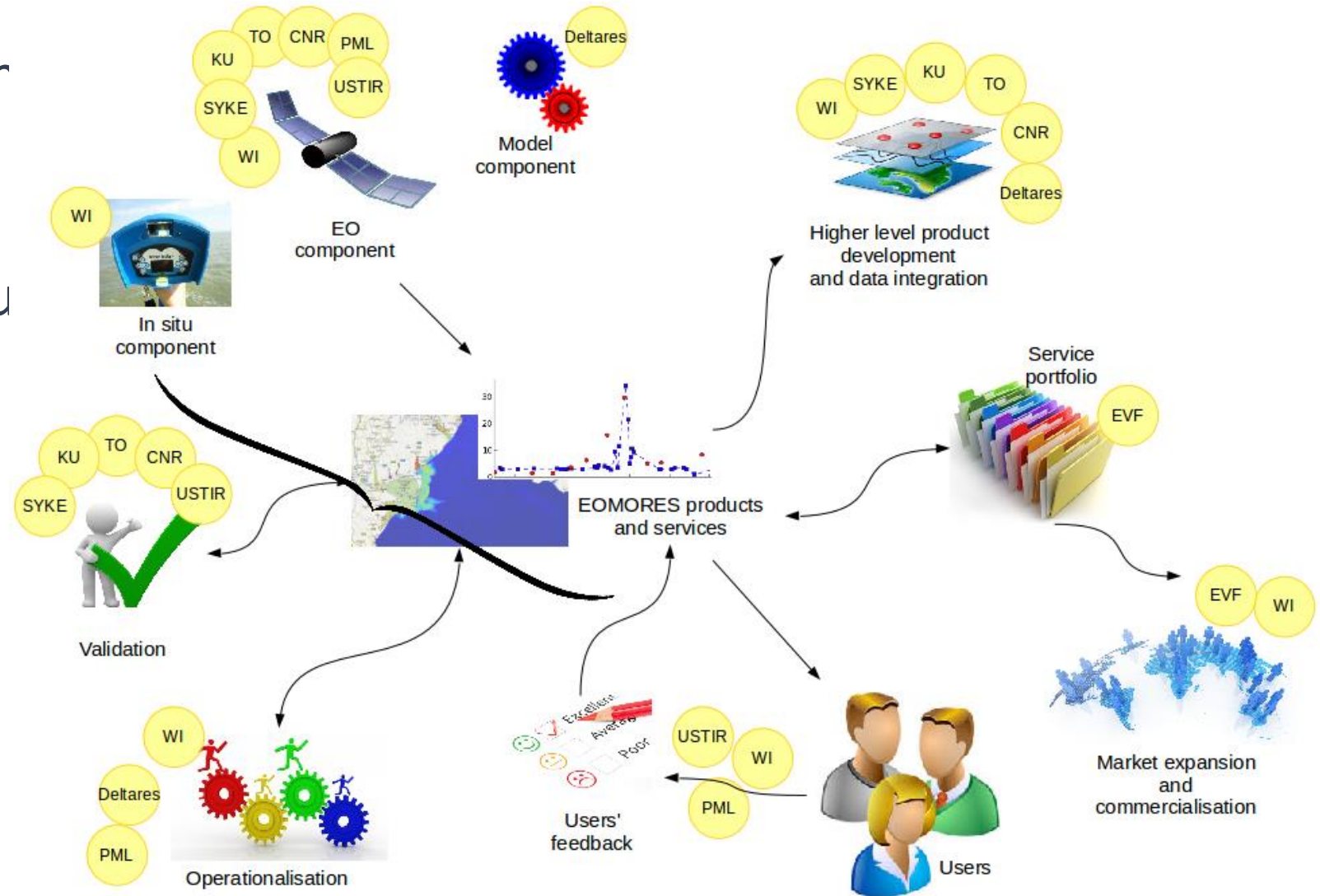


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Setup

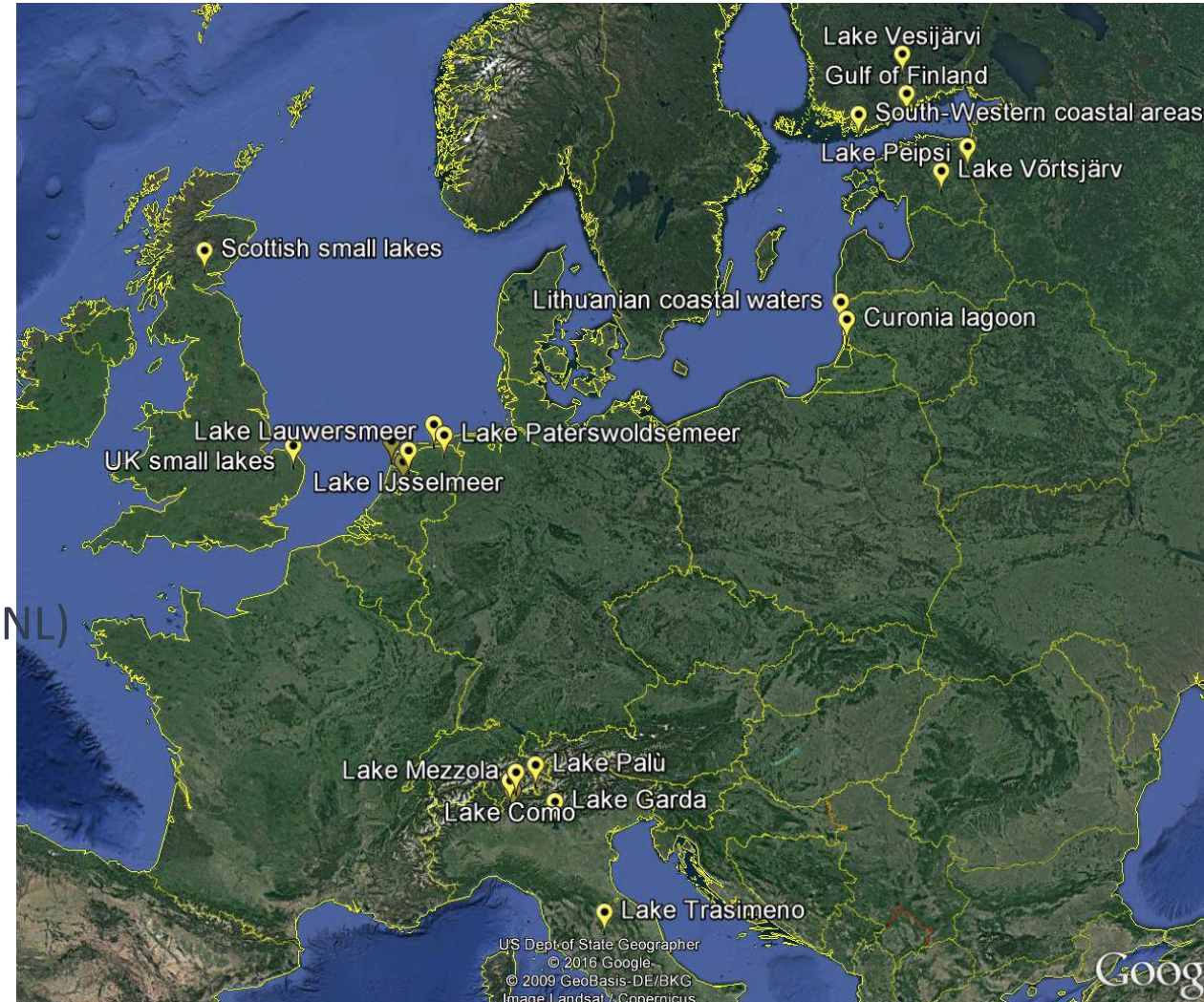
- Combine EO, in situ and model data,
- Develop higher level/integrated products and validate them
- Operationalisation, commercialization
- Several loops with users





Users

1. Monitor 2020 (Finland)
2. Finnish Environmental Institute (Finland)
3. ARPA Umbria (Italy)
4. ARPA Lombardia (Italy)
5. Environmental Protection Agency (Lithuania)
6. Nature Research Center (Lithuania)
7. Natuurmonumenten (Netherlands)
8. Water Authority Noorderzijlvest (NL)
9. Water Authority HH Hollands Noorderkwartier (NL)
10. Centre of Limnology (Estonia)
11. UK Environment Agency (UK)
12. Scottish Environment Protection Agency (UK)
13. Irish Environmental Agency (IRE)



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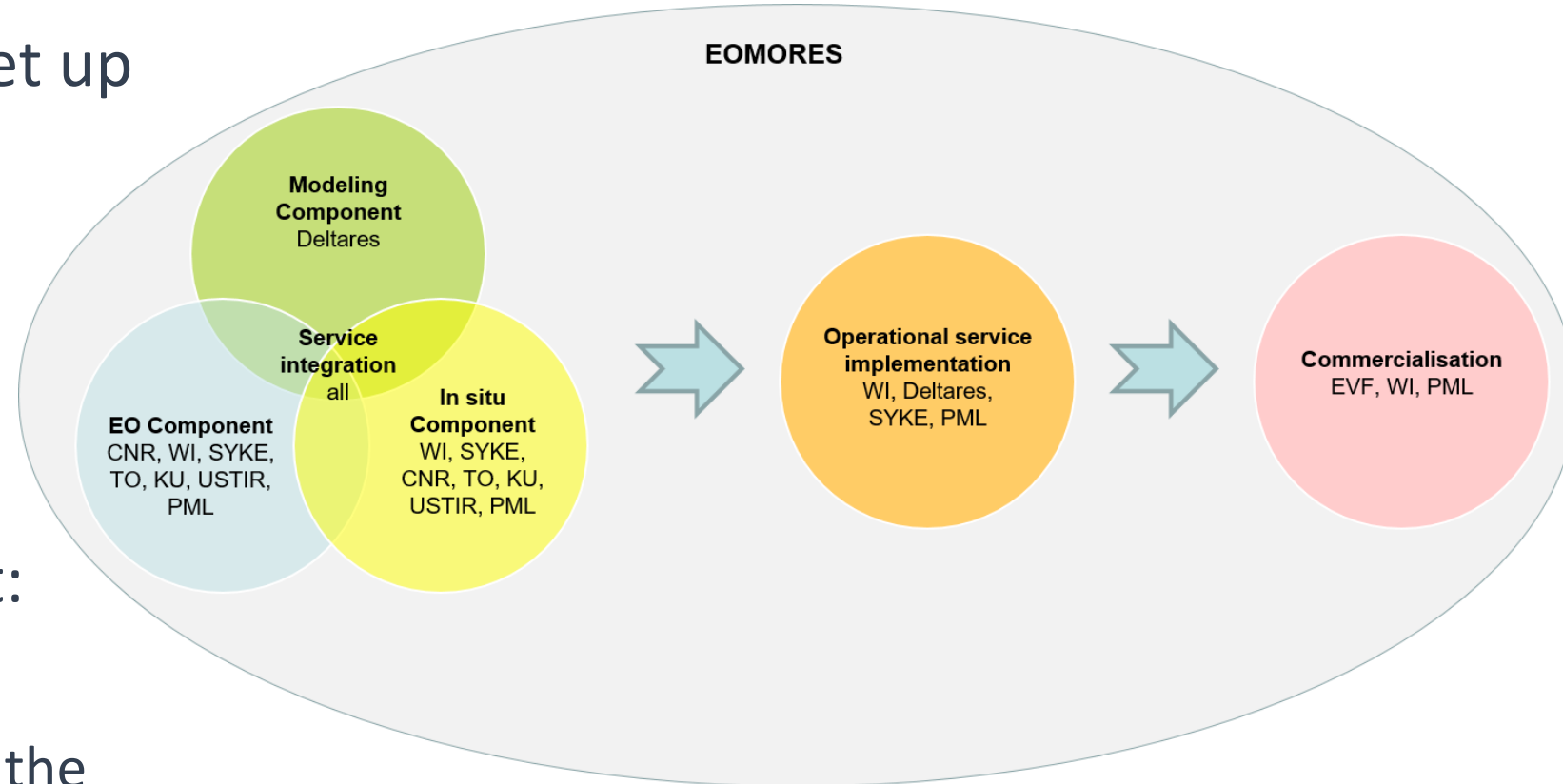
Target

Target of EOMORES is to set up operational services:

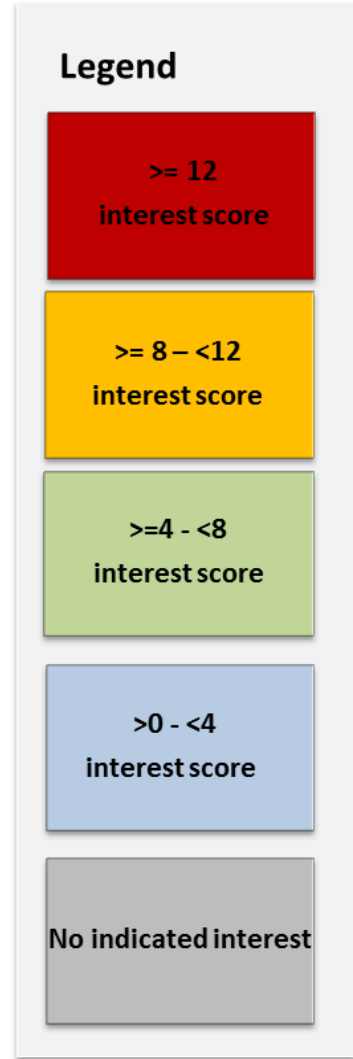
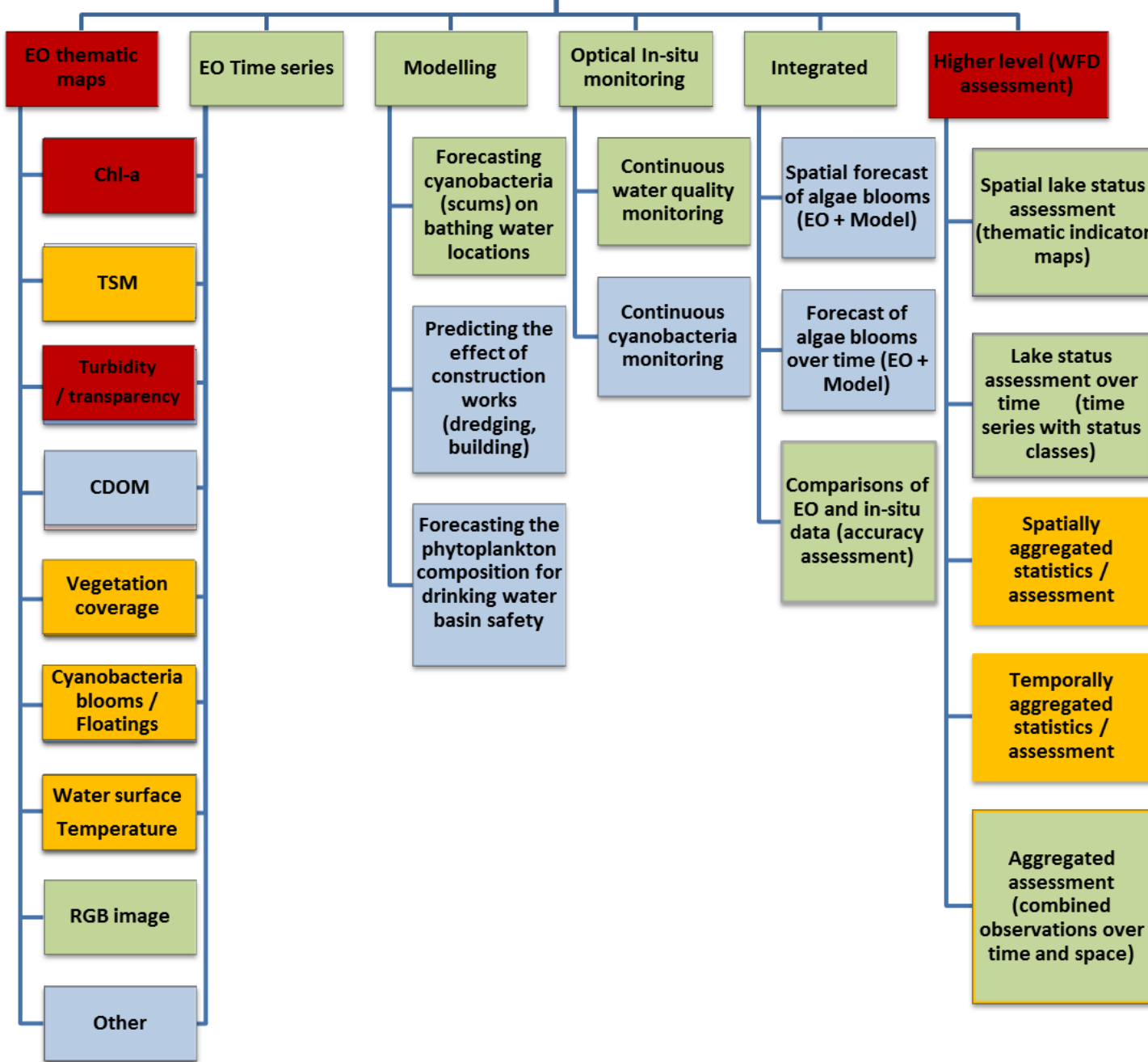
- Reliability (timely, accurate)
- Continuity

Develop products and services during the project:

- Receive feedback, improve!
- (Commercial) provision after the project



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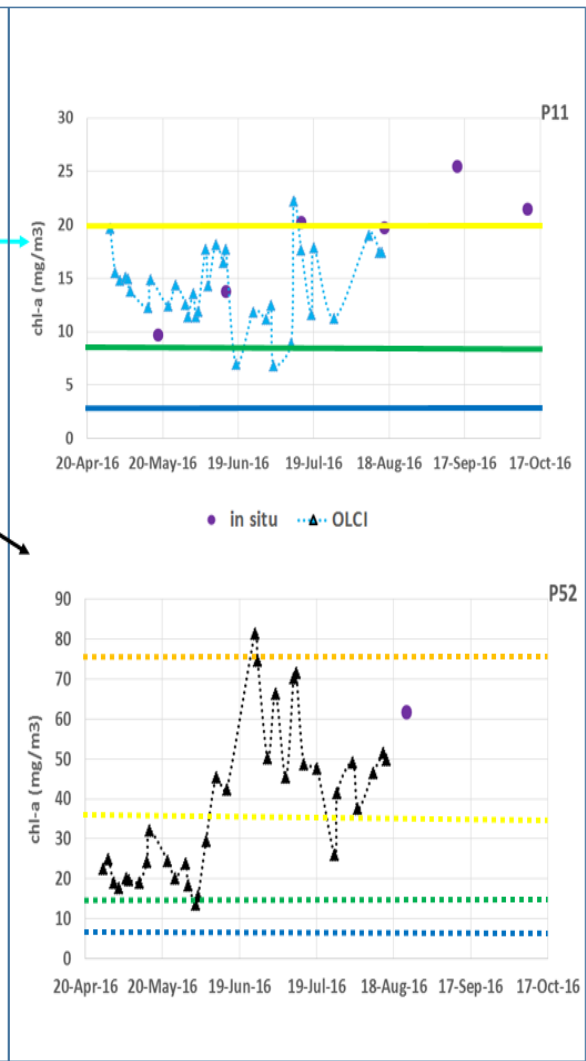
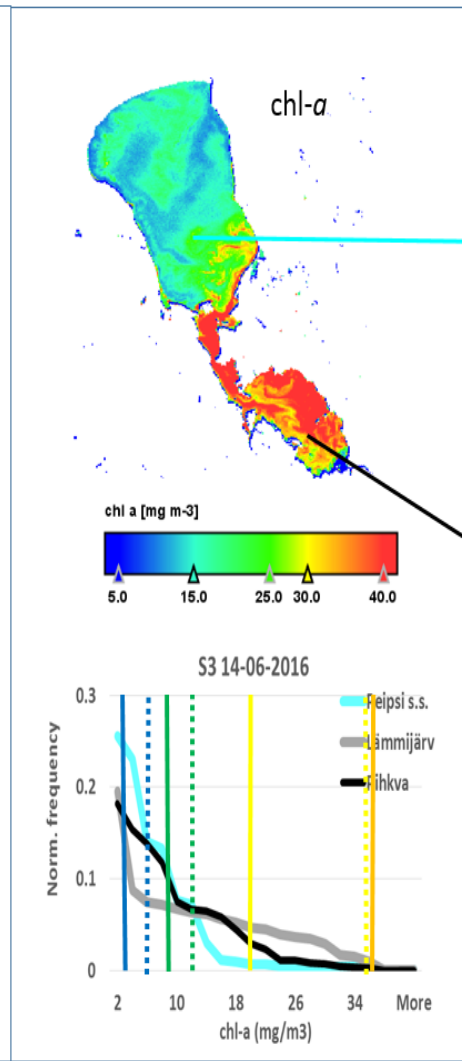
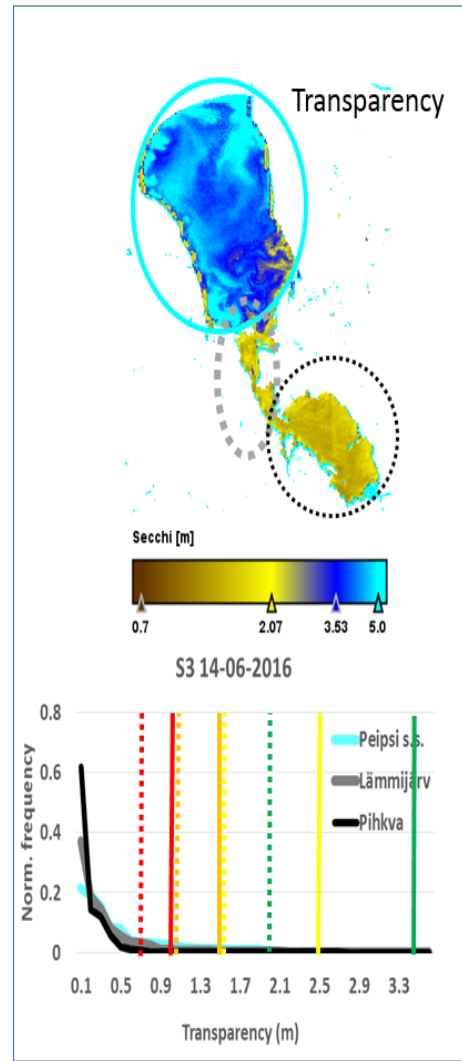
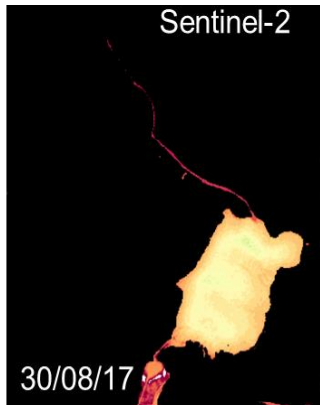
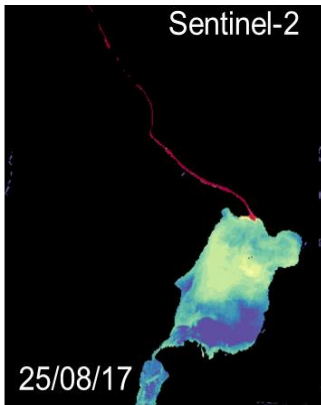


- Collect user requirements
- Sign Service Level Definition
- Produce and deliver products
- Have a review meeting
- Define updated user requirements
- Improve products, make new



EO component

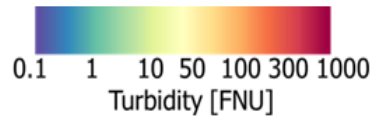
- Sentinel-2 based products
- Indicators, e.g. for WFD
- reporting



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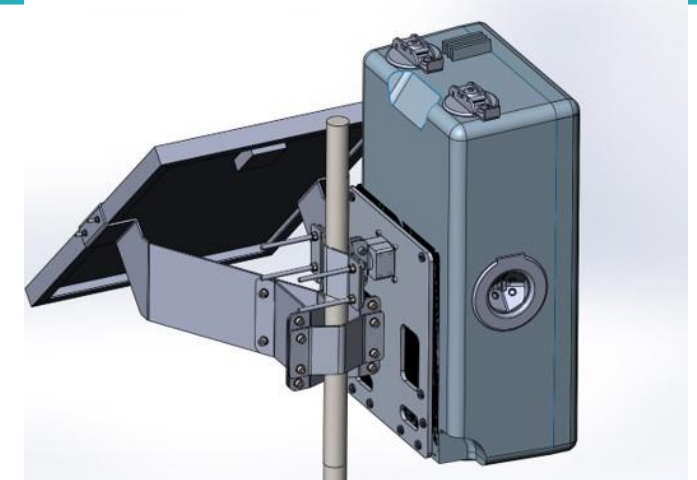
GloboLakes AquaWatch meeting



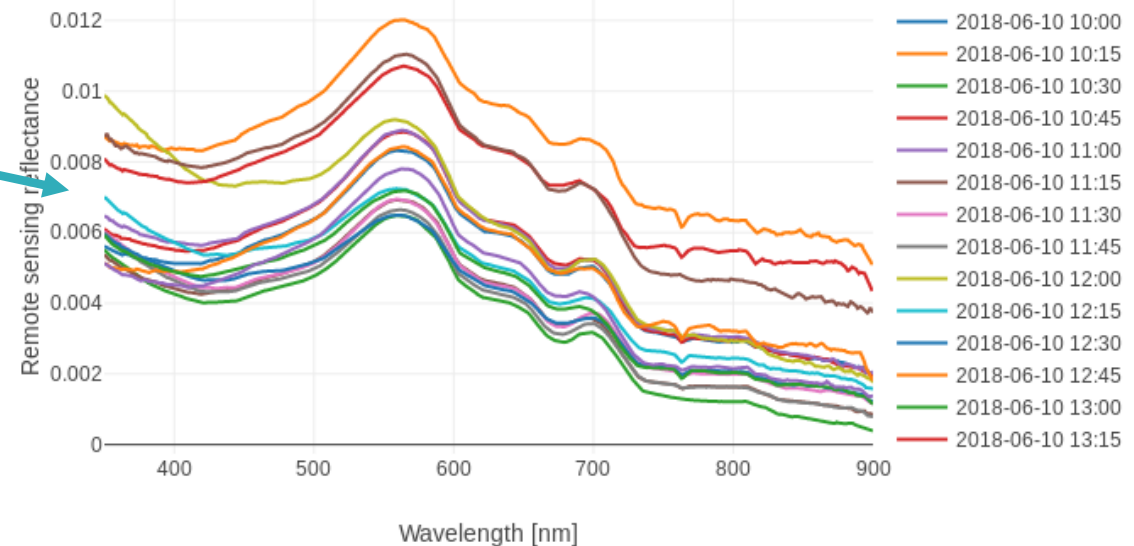
In situ component

WISPstation

- semi-continuous, automated measurements
- 5 instruments now placed in EOMORES



WISPstation data Loch Leven from 2018-06-10T10:00 to 2018-06-10T14:00



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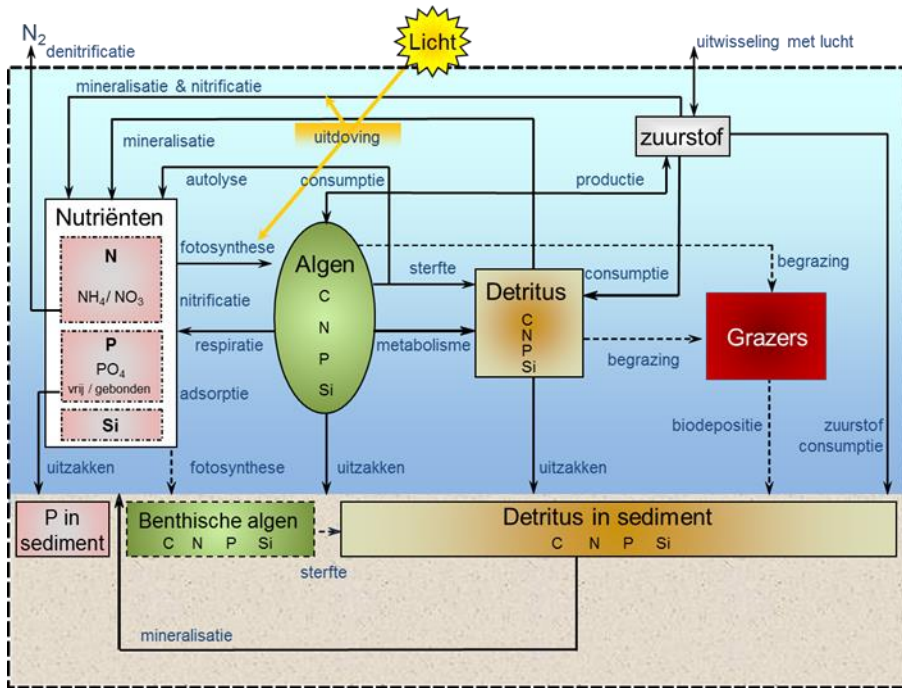


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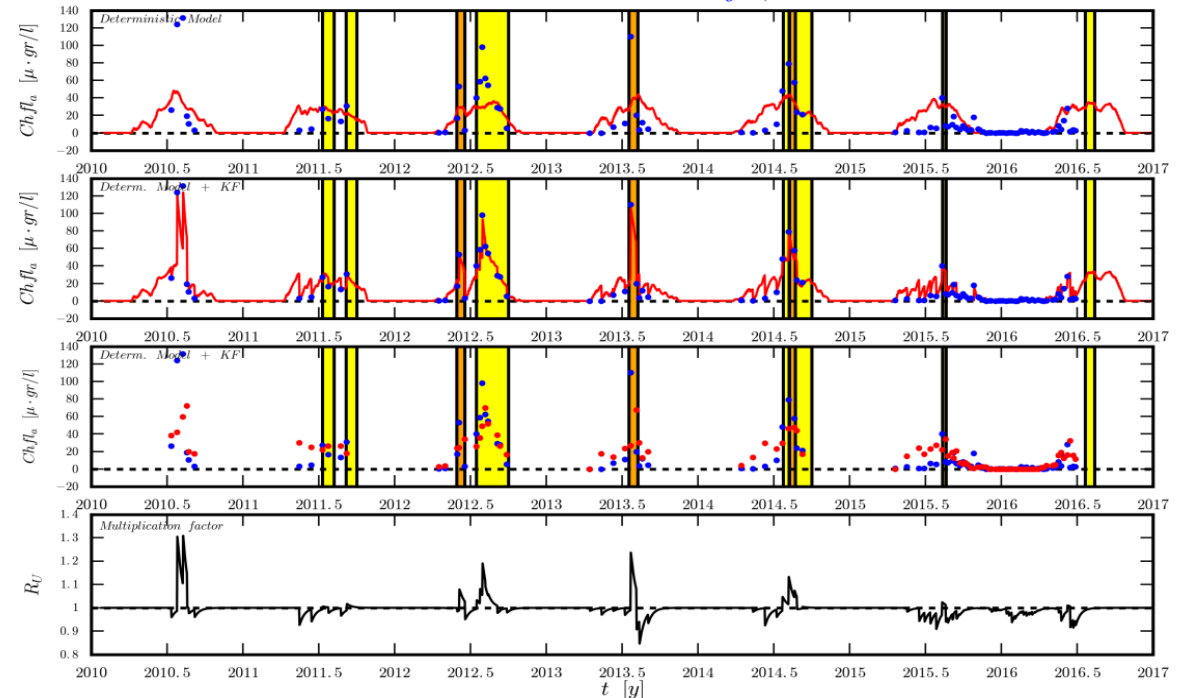


Model component

- Ecological models for early warning
- Combine models for scums, blooms, growth
- Ingest automated in situ data in the models



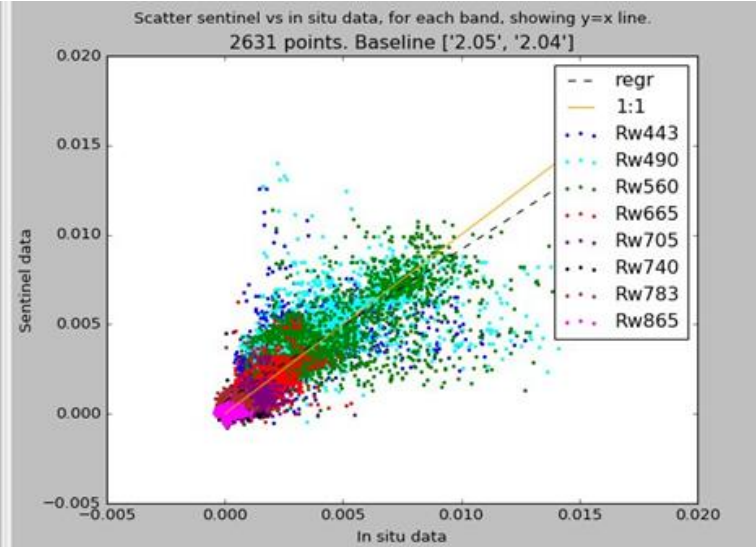
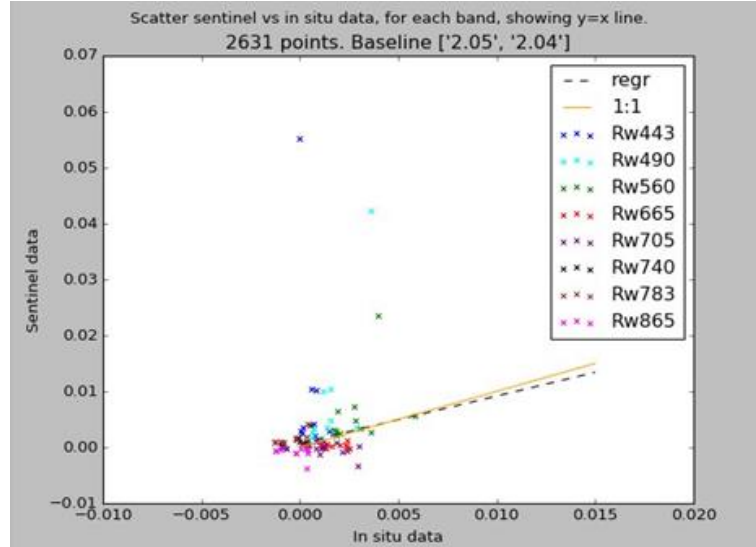
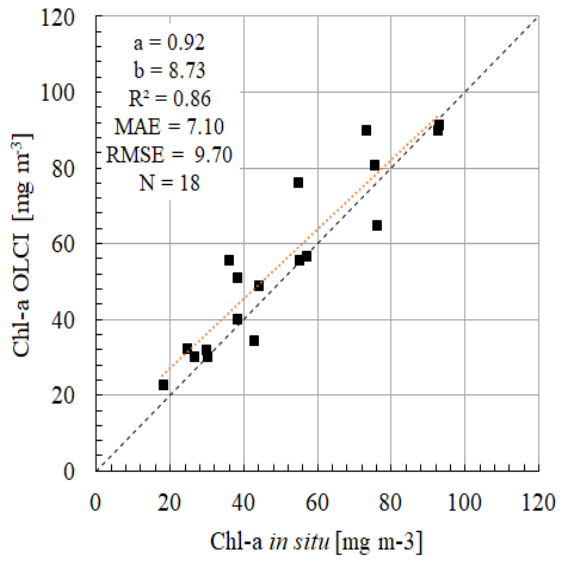
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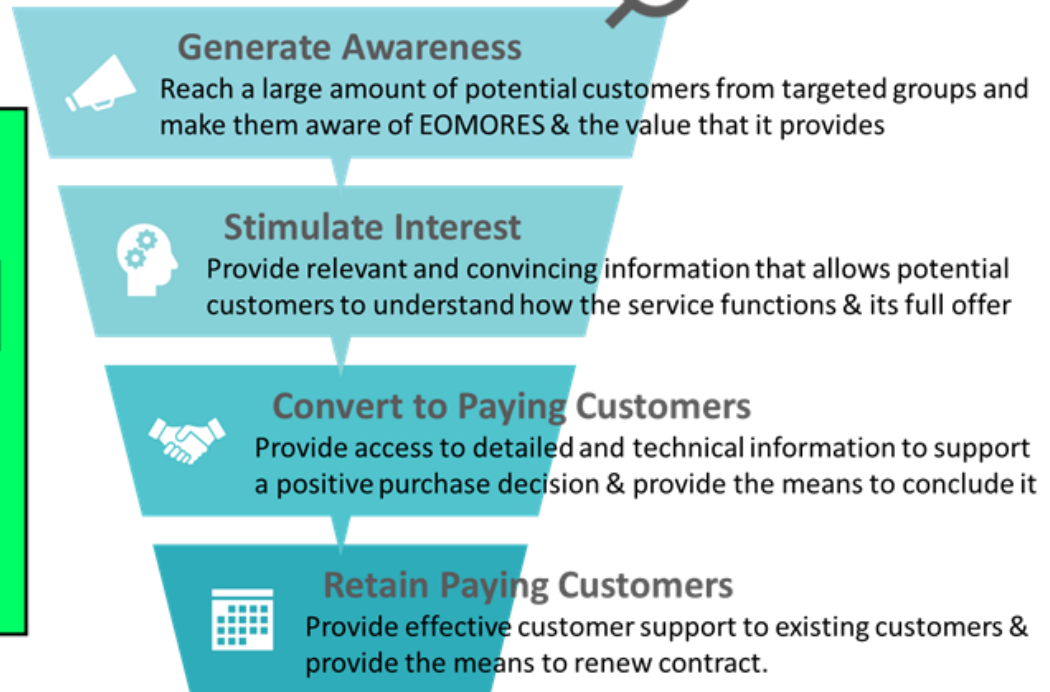


Accuracy assessment

- EO vs in situ radiometric
 - In situ vs lab
 - Model vs EO
- >> *Increase users' trust*



Service development

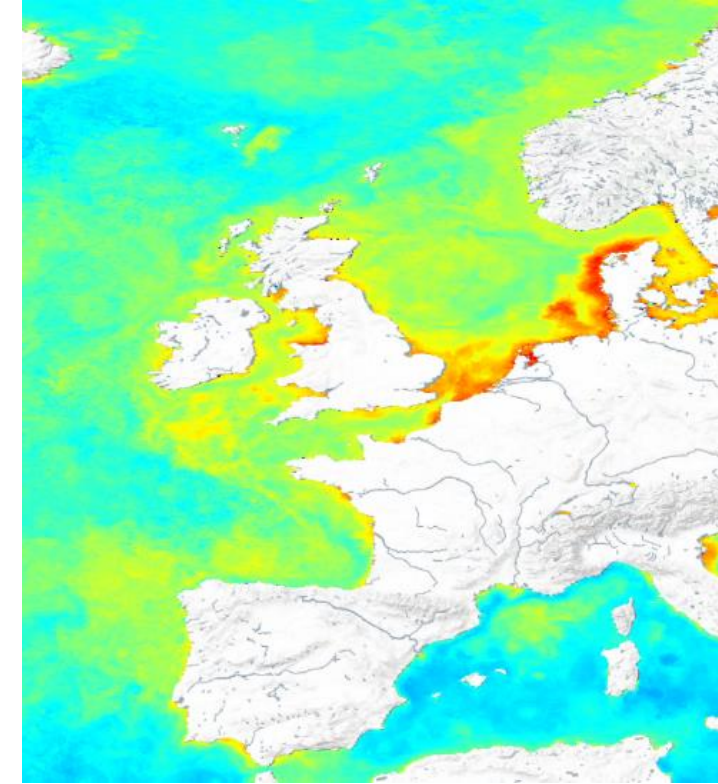


- Automation
- Business plan
- White paper arguing for allowance to use EO and optical in situ data for WFD reporting

Task 7.5: Planning for the future in water monitoring, reporting & management



- Produce a short document (~10 pages)
- Promote wider acceptance and use of Earth observation-based products in current and future environmental management
- Structure and content to focus on added value EO can provide
- If would like to contribute email
Eleni Papathanasopoulou: elpa@pml.ac.uk



Chlorophyll a from remote sensing
(Source: //marineprosperity.com)



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GloboLakes AquaWatch meeting