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Towards a decade digital
ecosystem: the UN Decade Vision
2030



The ocean forecasting component of the Decade Digital Ecosystem

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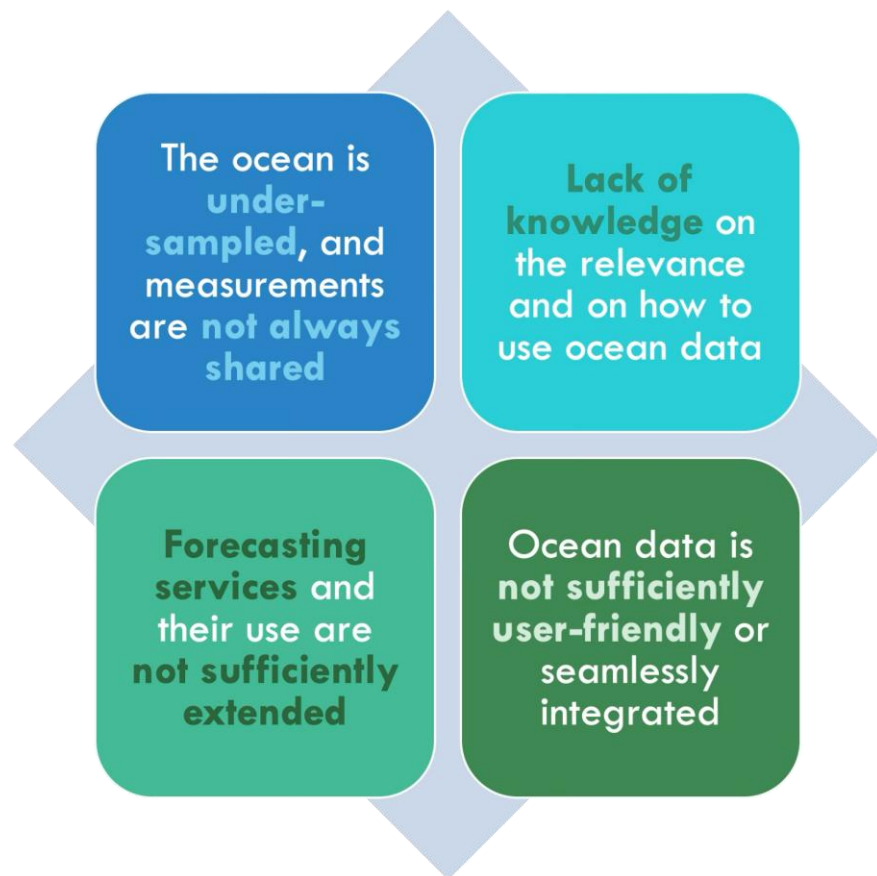
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Starting from Adam's presentation...

The limitations...



- Systems are difficult to develop and operate -> Poor and unbalanced extension
- Lack of best practices and common data standards
- Poor integration into interoperable spaces, lack of common tools for exploitation

How do we contribute to overcoming the limitations?



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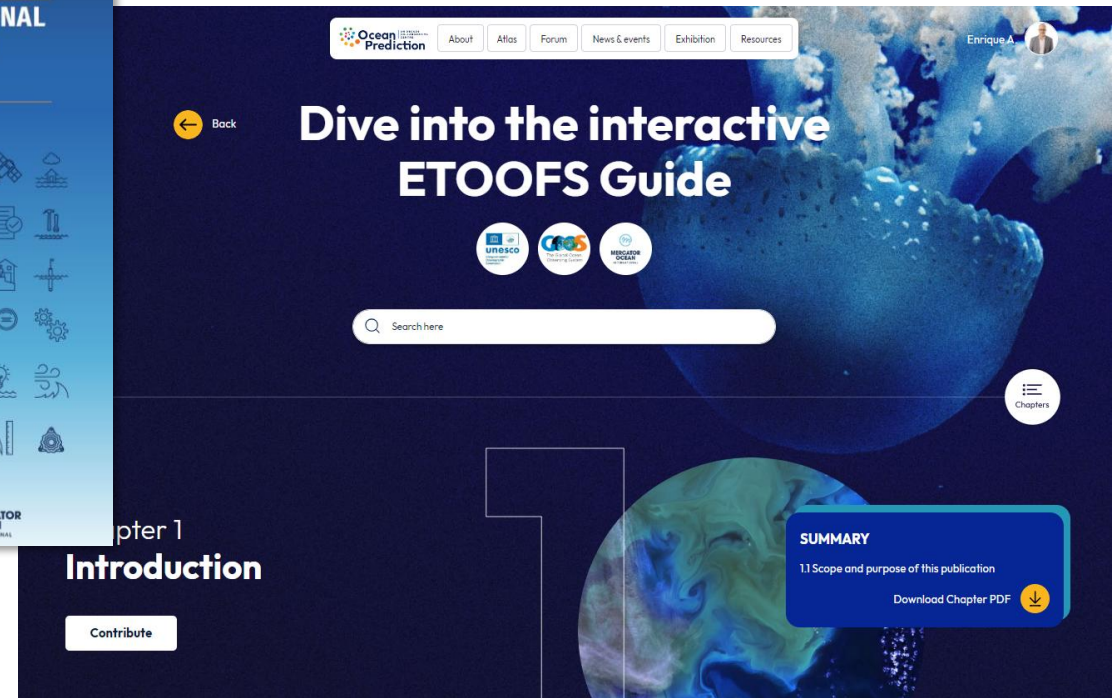
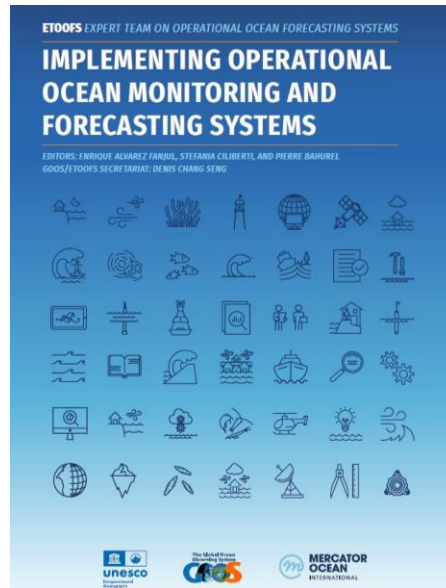
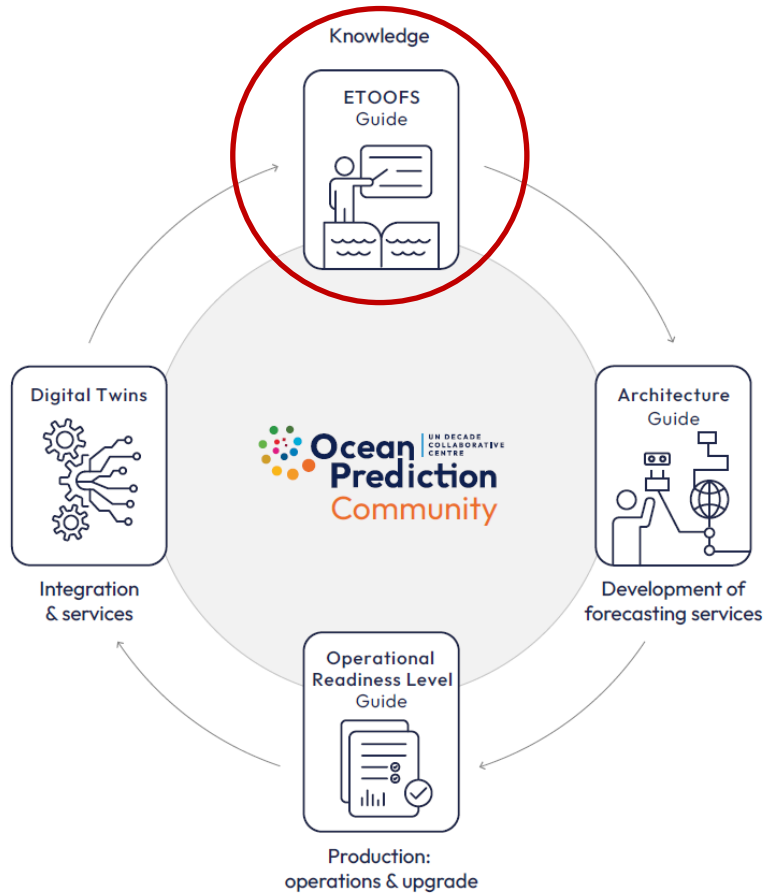
The ocean forecasting we need

- OceanPrediction DCC is promoting collaboration to overcome the limitations
- A virtuous loop implemented by our community
- OceanPrediction DCC is building the assets to make it possible



Building our shared knowledge

- A community compilation of our shared knowledge
- Now available in wiki format
- On the basis of our capacity development plans (OPERA)



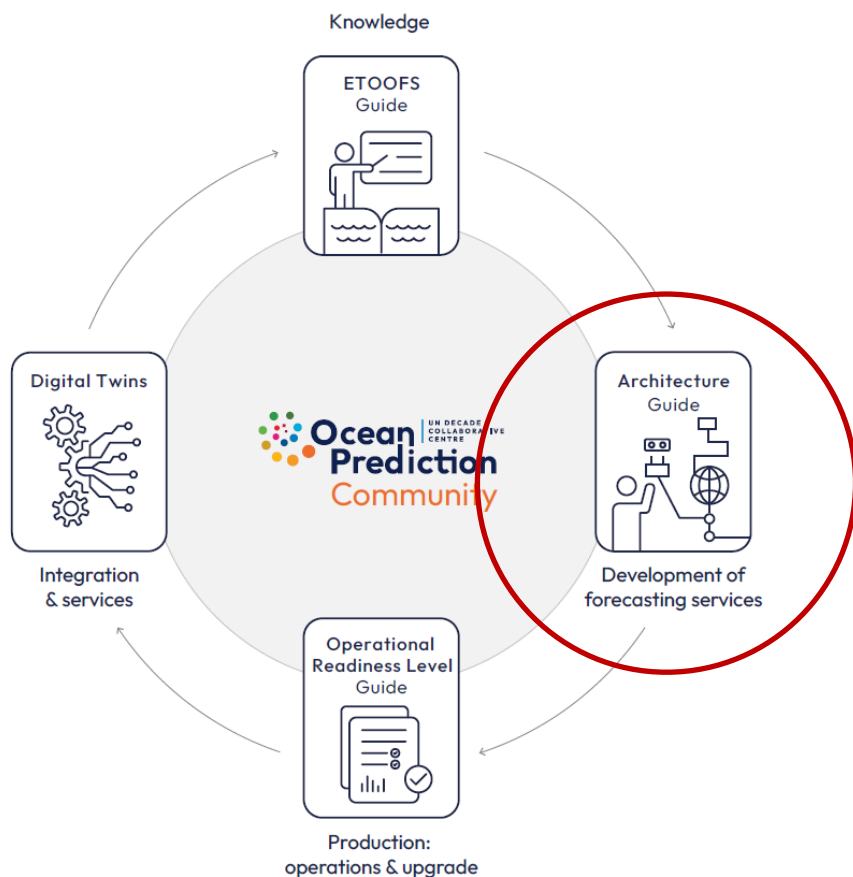


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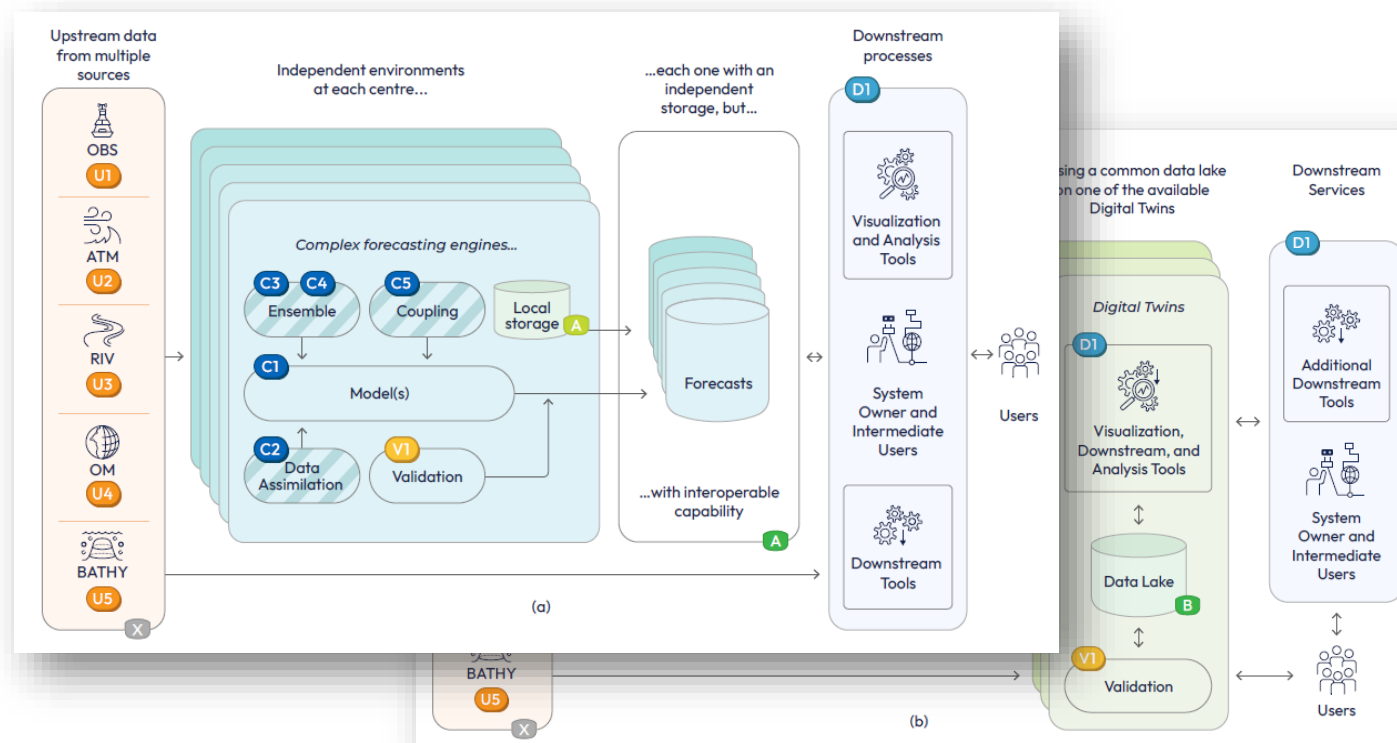
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The Architecture guide



- A community product
- A practical Guide on how to “wire” a Forecasting System
- A definition of the tools and data standards to be developed during the Decade





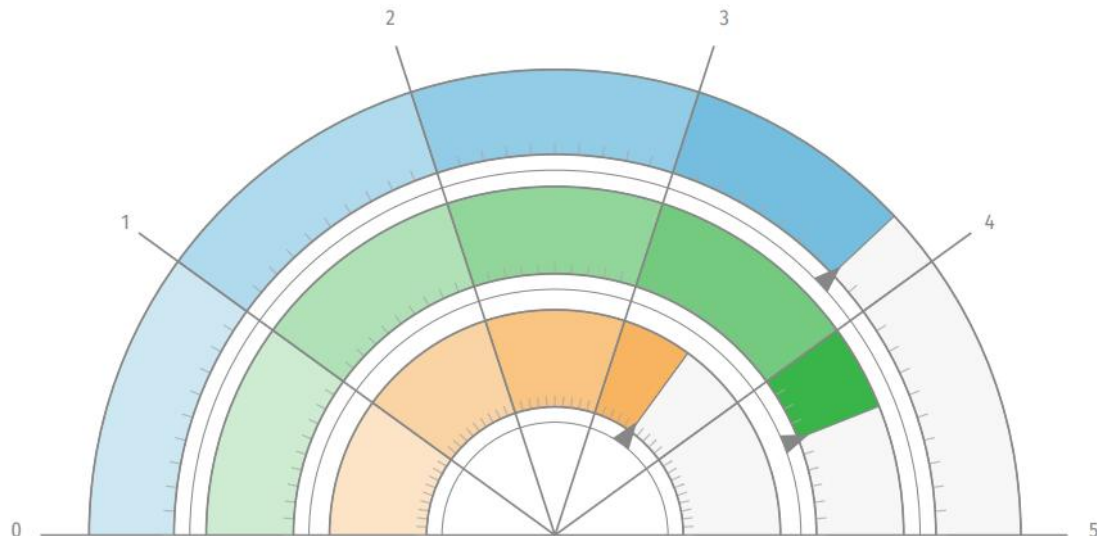
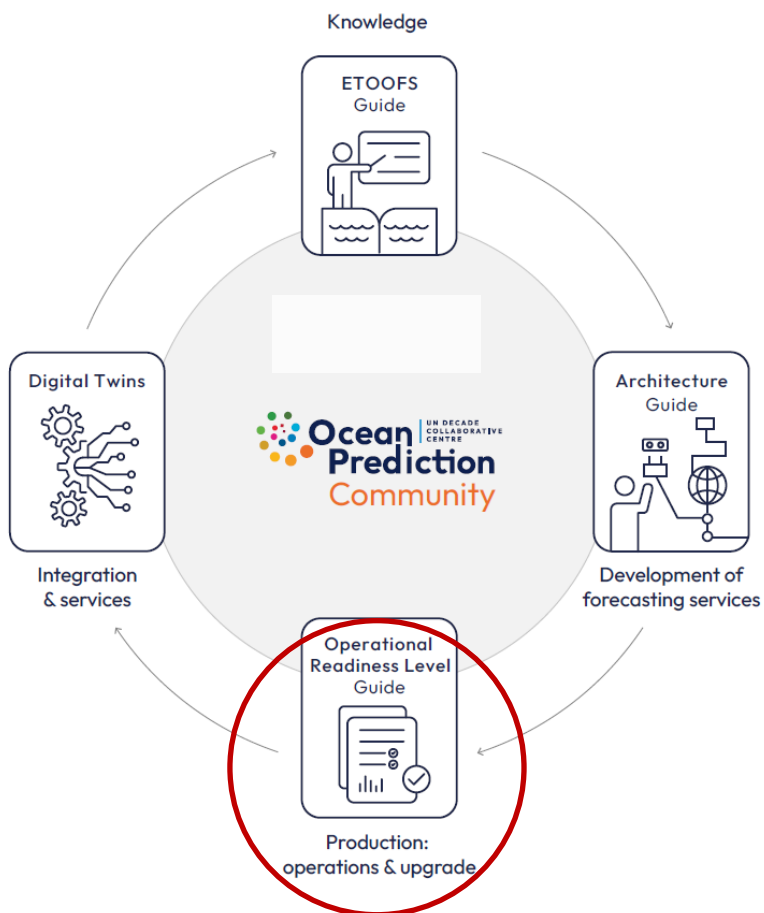
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The Operational Readiness Level

- A mechanism to introduce Best Practices
- A way to promote the evolution of Ocean forecasting
- A mechanism to endorse services to join common frameworks



1. Production

The first digit
reflects the reliability of the service,
focusing on operational aspects
rather than product quality.



2. System Validation

The second digit
monitors the level of validation
for the service.



3. Product Dissemination

The third digit
assesses the various degrees of
product dissemination achievable
by the system.

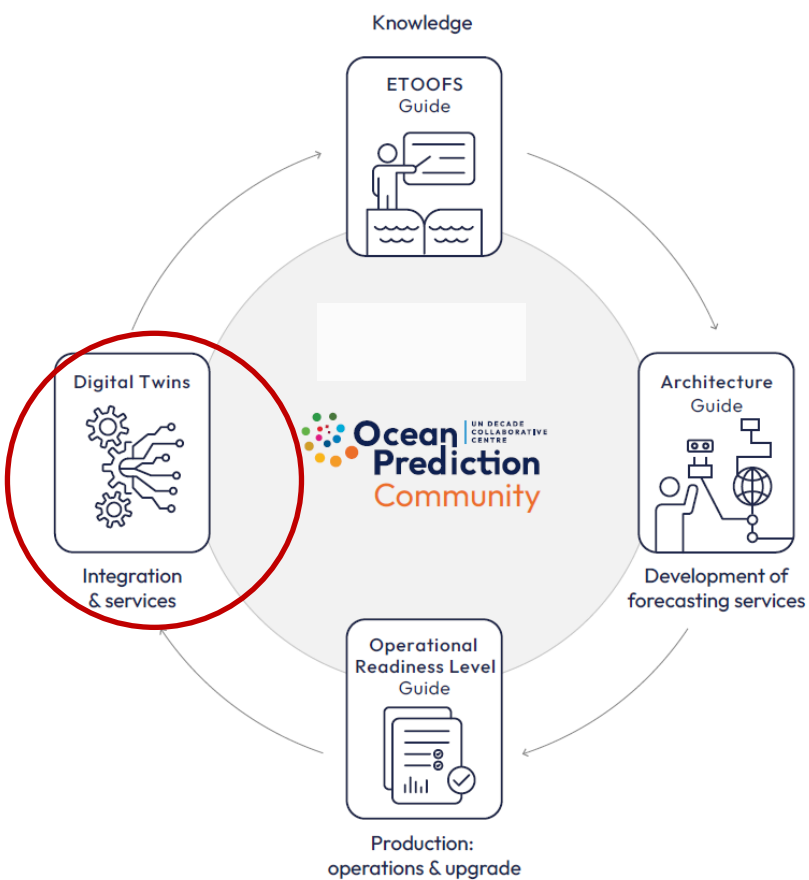


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One ocean, one digital ecosystem



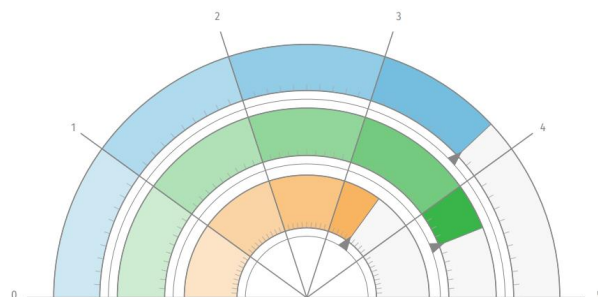


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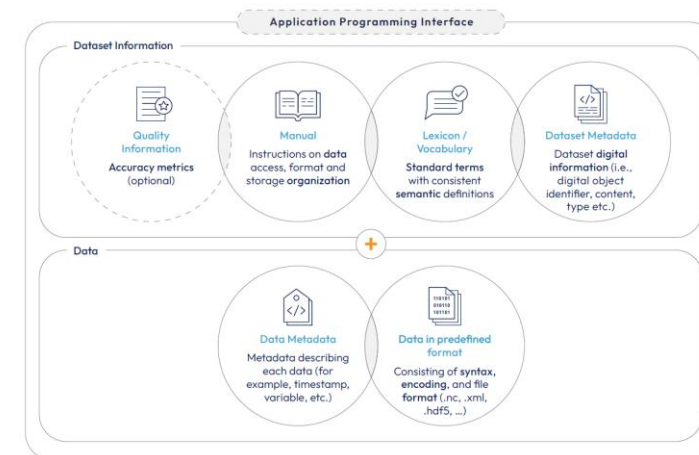
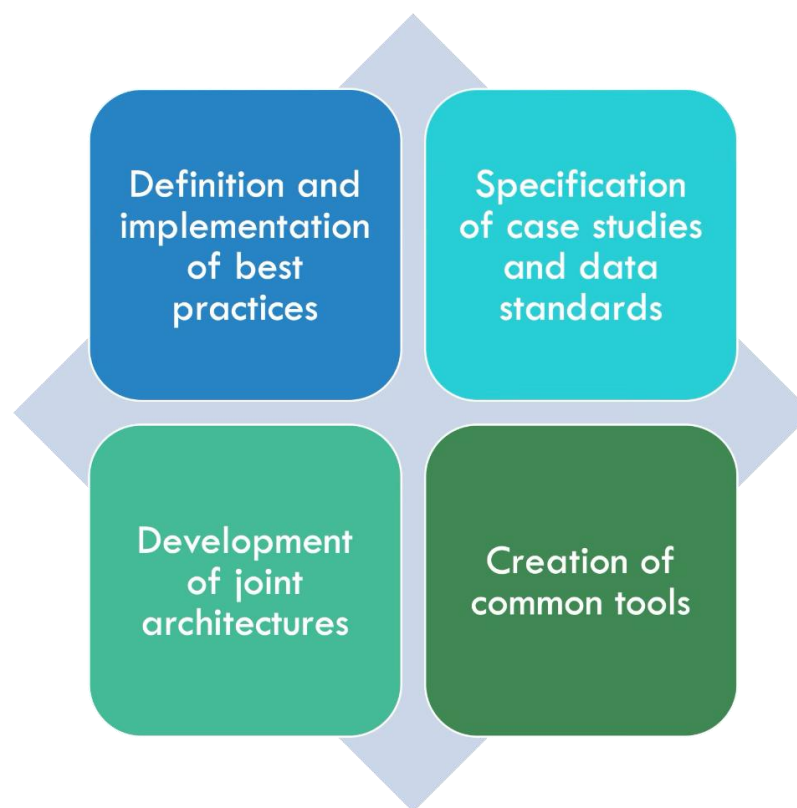
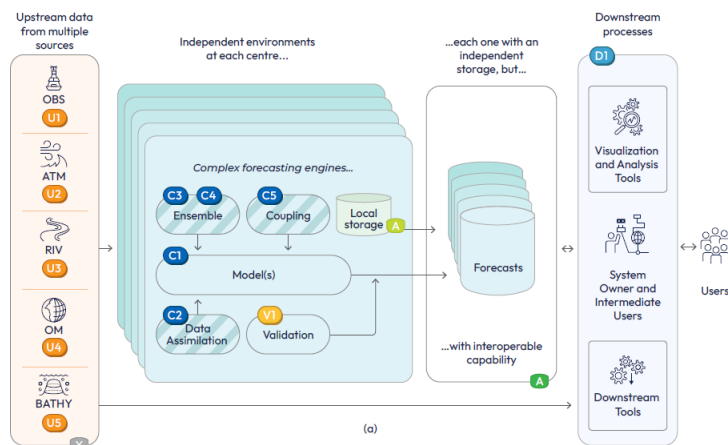
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Back to Adam's presentation. A shared way forward



- 1. Production**
The first digit reflects the reliability of the service, focusing on operational aspects rather than product quality.
- 2. System Validation**
The second digit monitors the level of validation for the service.
- 3. Product Dissemination**
The third digit assesses the various degrees of product dissemination achievable by the system.



OPERA tools



Conclusions

- OceanPrediction DCC is working together with the Ocean Observing DCO, the Data Sharing DCO, GOOS, IODE, and several Decade Actions to facilitate the creation of a DDE
- Objectives are reflected in the Vision 2030 Challenge 8 document
- We are contributing to this ambitious task by building specific community assets: the ORL, the Architecture, and more to come
- These developments will have a long-lasting impact on our ability to monitor the Ocean and serve our community, and will be a relevant part of the UN Ocean Decade's legacy
- The contribution of Europe (INTPA) via OPERA and OP4CR is critical to achieve these goals



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Thank you for your attention

Be part of the growing community of the
OceanPrediction Decade Collaborative Centre

www.unoceanprediction.org

