

OCEANGLIDERS 1.0 : TOWARD A UNIQUE DATA FORMAT FOR THE INTERNATIONAL GLIDER NETWORK

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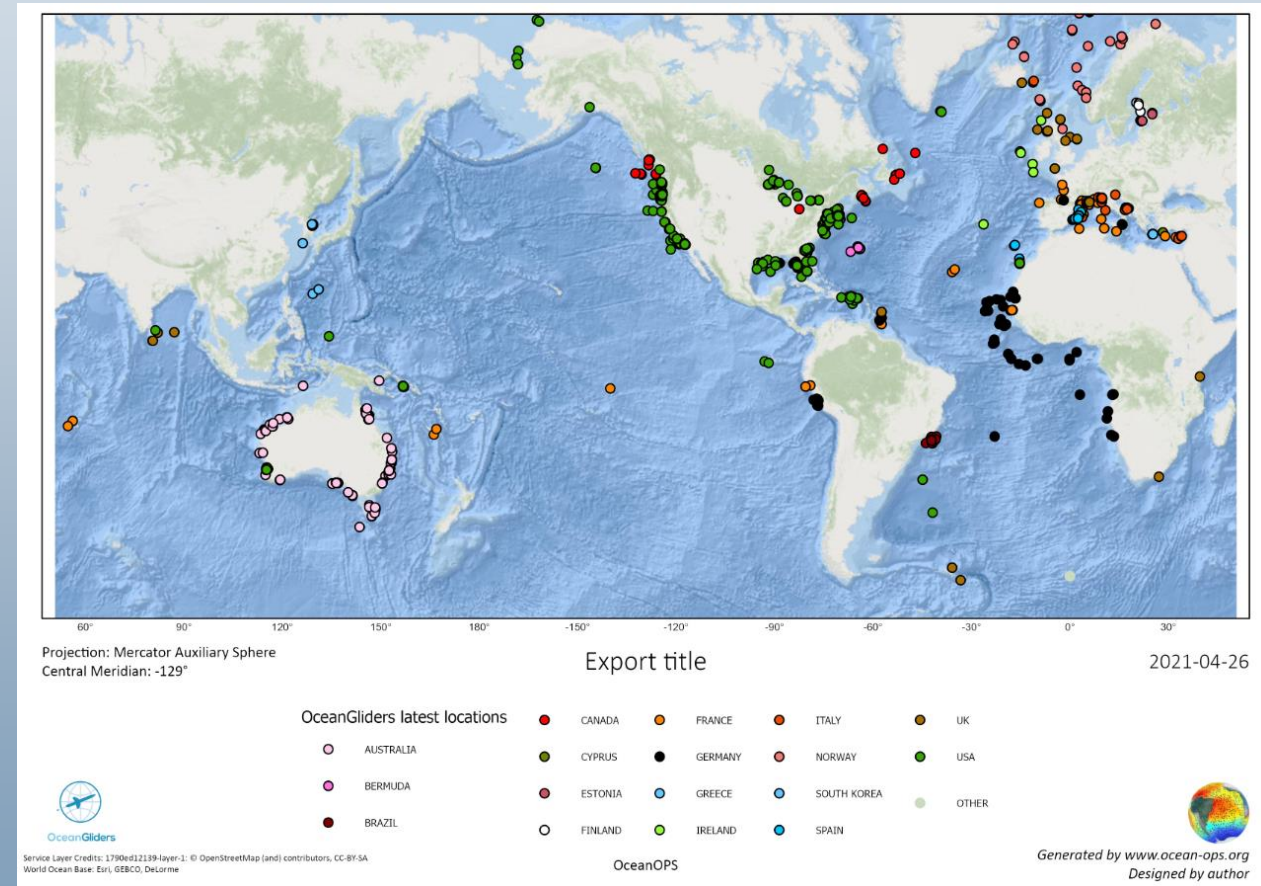


OCEANGLIDERS

- Born in 2016, from an older community of user called EGO (Everyone's Gliding Observatories).
- More than 1600 gliders missions have been registered under OceanGliders program.
 - 21 countries involved
 - ~90 000 days at sea monitored so far
 - ~300 000 profiles from the shelf to the open ocean
- OceanGliders is organized around task teams observing long-term physical, biogeochemical and biological ocean processes and phenomena that are relevant for societal applications.



The glider program of the GOOS



OCEANOPS AND OCEANGLIDERS

Monitor, support implementation and development

VISION

To be the international hub and center of excellence that provides vital services in monitoring, coordinating, and integrating data and metadata, across an expanding network of global oceanographic and marine meteorological observing communities.

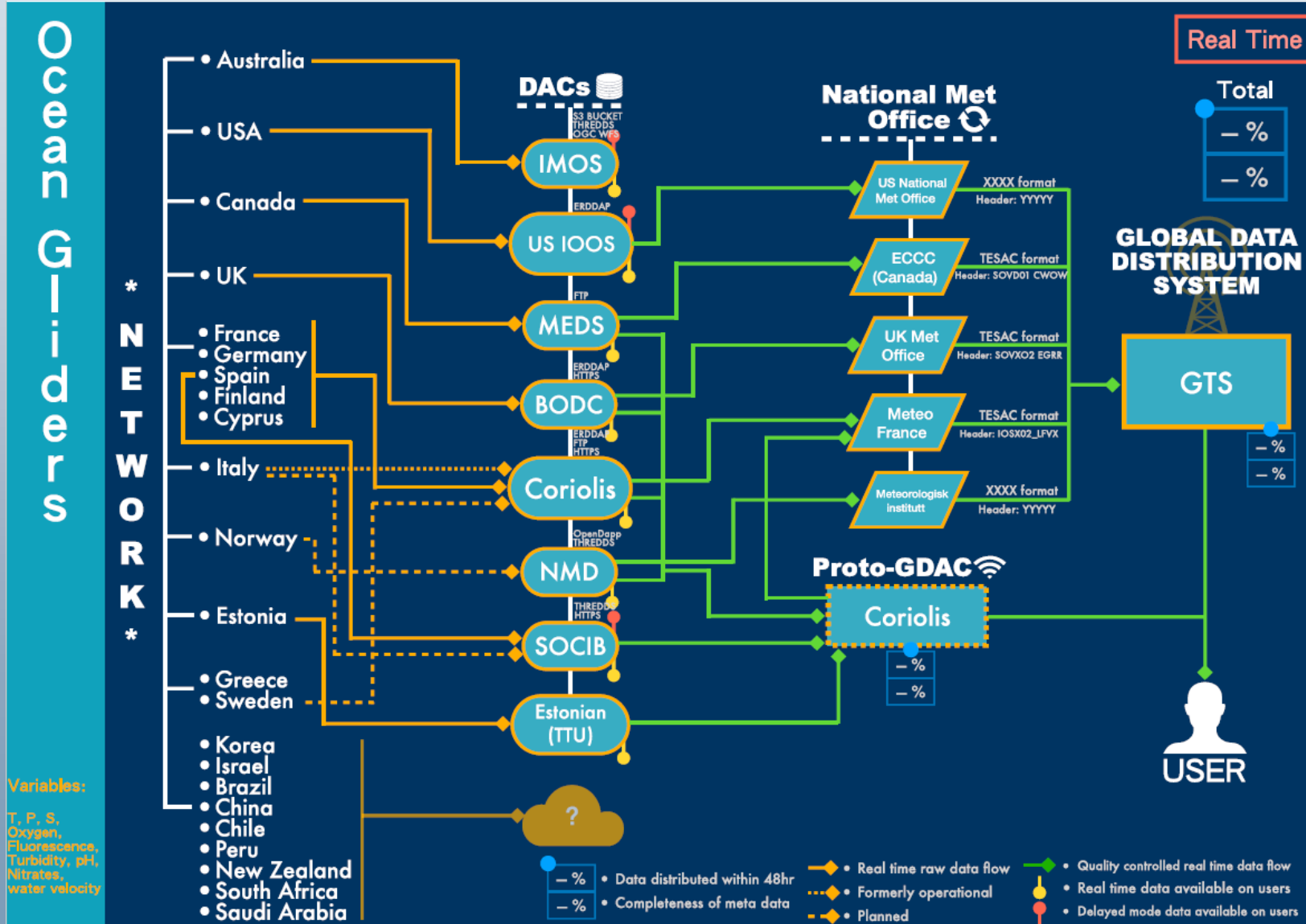
MISSION

To monitor and report on the status of the global ocean observing system and networks, to use its central role to support efficient observing system operations, to ensure the transmission and timely exchange of high quality metadata, and to assist free and unrestricted data delivery to users across, operational services, climate and ocean health.

OceanOPS monitor the status of the OceanGliders program through :

- Authoritative status maps - ocean-ops.org/maps
- Key Performance Indicators - ocean-ops.org/kpi
- Data tracking - ocean-ops.org/datatracking
- OOS Report Card - ocean-ops.org/reportcard
2021 Report Card released in July
- OceanOPS quarterly bulletin
- Web monitoring dashboard
- Data Flow

DATA AND METADATA FLOW WITHIN OCEANGLIDERS



Overview of the current data flow

3 operational formats

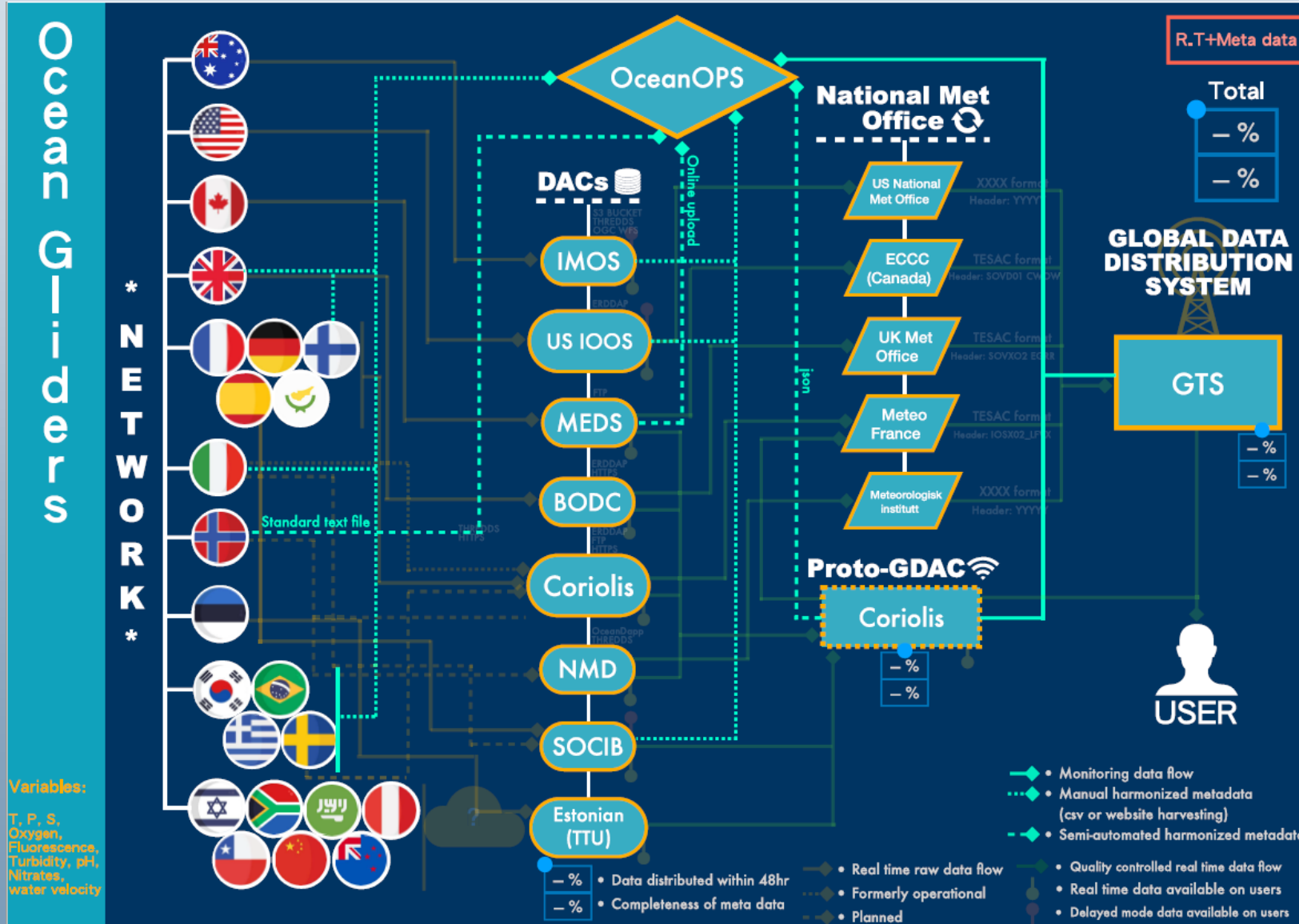
- IOOS
- IMOS
- EGO - (Coriolis)

Little differences, strong impact

- Similar but not identical
- No vocabulary harmonization
- No interoperability across networks
- Not FAIR

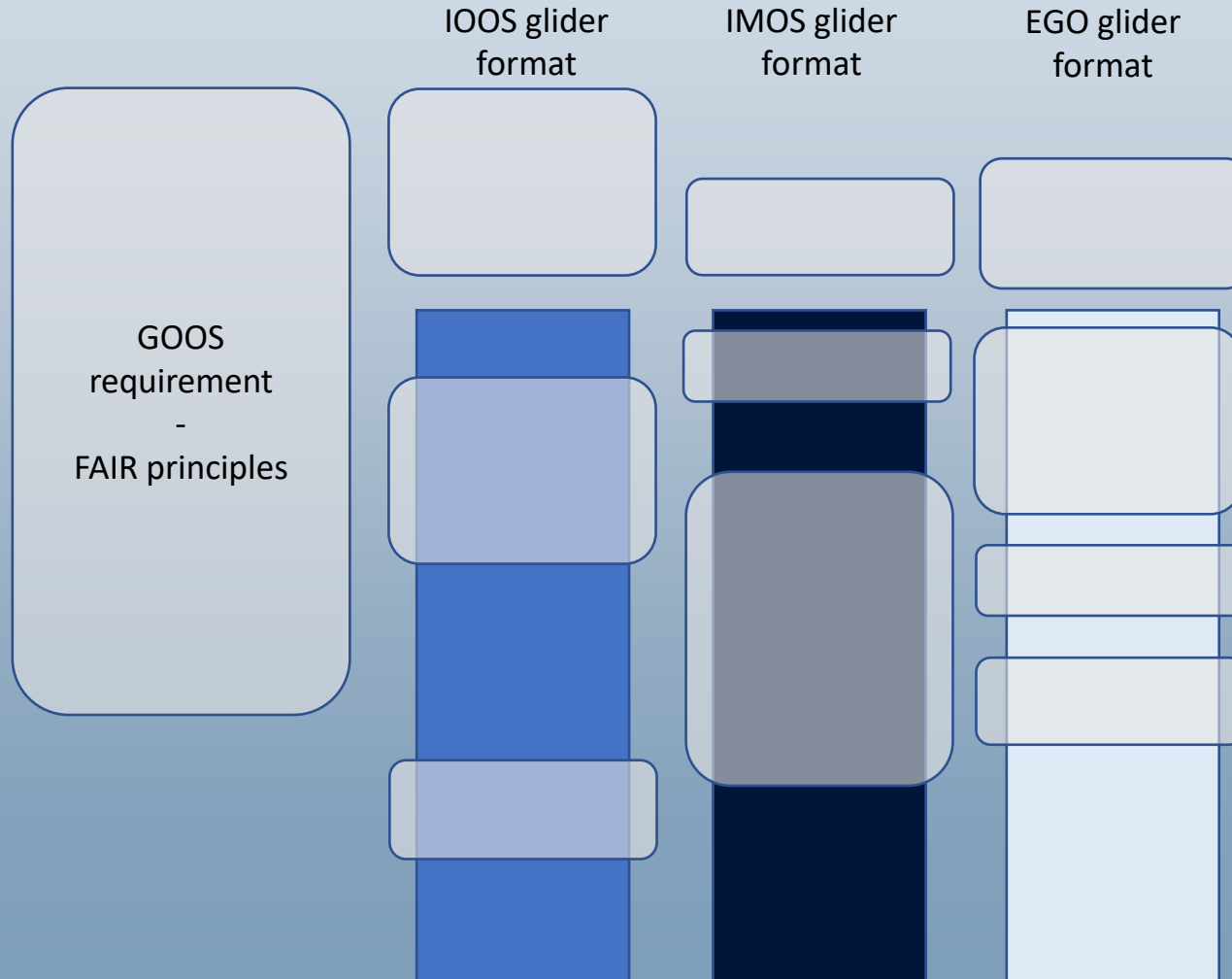
DATA AND METADATA FLOW WITHIN OCEANGLIDERS

Overview of the current metadata flow



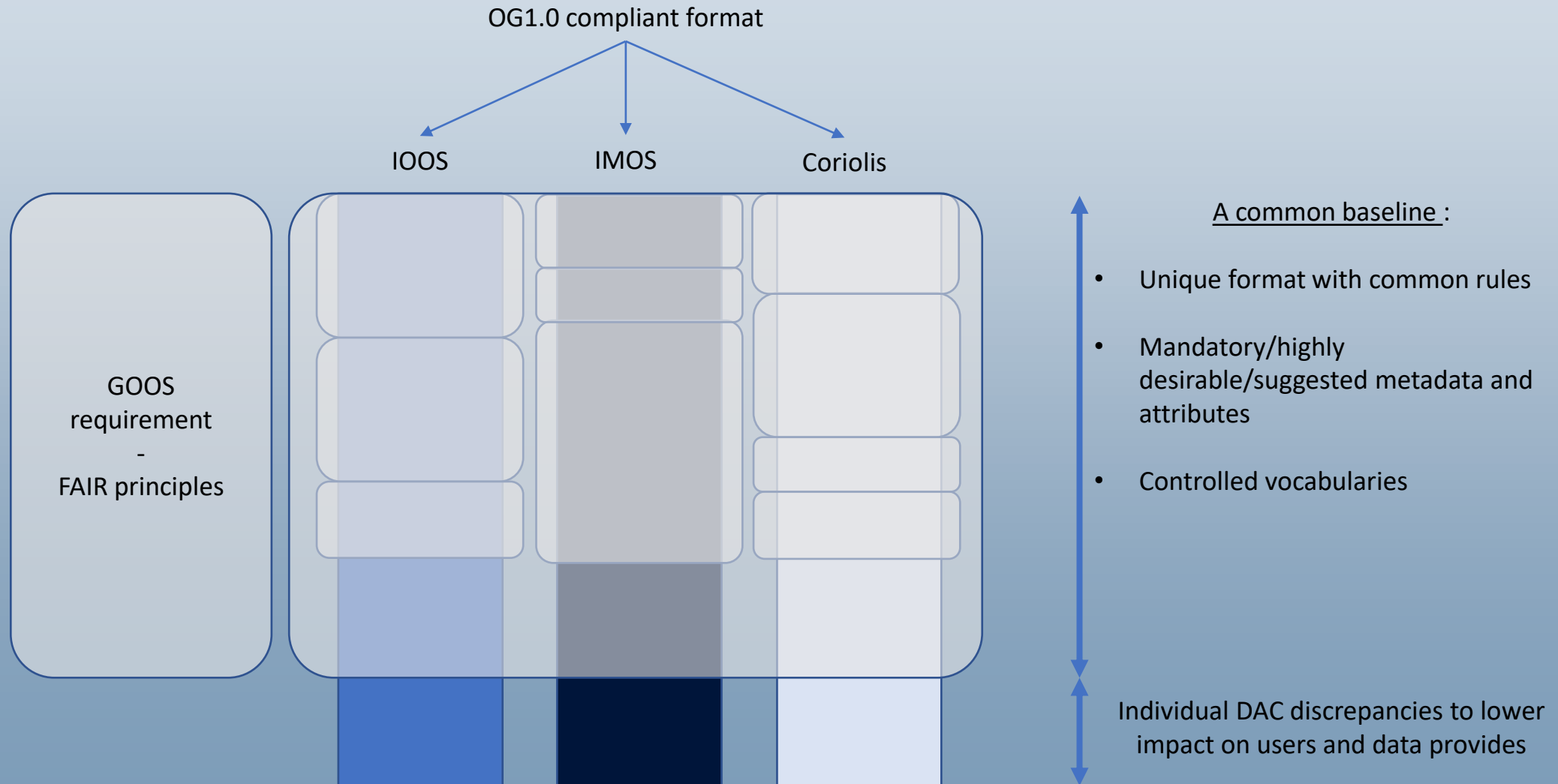
TOWARD A UNIQUE FORMAT

The harmonization strategy



TOWARD A UNIQUE FORMAT

The harmonization strategy



TOWARD A UNIQUE FORMAT

The slow process toward harmonization and implementation



EXPECTED BENEFITS OF A UNIQUE FORMAT

- Reach FAIRness (Findable – Accessible – Interoperable – Reusable)
- Build interoperability across networks (ARGO, ANIBOS)
- Develop common tools for the community
- Benefit from the development of the other networks (e.g. QA/QC)
- Simplify and operationalize data and metadata flow
- Empower the OceanGliders program

Спасибо
Thank you
Gracias
Merci
谢谢
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OceanOPS supports the
implementation of GOOS
networks!



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