to assist in the implementation and deployment of the observing networks through close interaction with programme managers and platform operators, and through Capacity Development and outreach

- to assist in establishing, maintaining and verifying mechanisms for the timely exchange of data and metadata, including the facilitation of quality control and archival functions

- to develop the consistent set of tools needed to monitor the status of the observing system and its attendant data and metadata distribution, so as to identify action areas and improve the overall effectiveness and development of the system
COLLECTING METADATA

Global Data Centres and GTS of WMO Statistics OBSERVATIONS

Satellite telecommunication providers R/T LOCATIONS

Data users feedback on data quality to data producers RELAYING

Platform operators REGISTRATION

Cruise operators REGISTRATION

How to gather everything? (Manual / M2M)
Enhancing the Metadata

- Modelling
  - Organizing concepts

- Harmonization
  - Unified reference tables, shared entities, ontologies

- Unicity
  - Unique IDs for every platform, ship (WMO/WIGOS, ICES)

- Integrity
  - Metadata controlled and adjusted manually by experts, as necessary

Fueling an autonomous system
MANAGING THE METADATA

- Autonomous system
  - Platform pulses and lifecycle
  - Enriched data through routines
  - Geo-tracking (EEZ Warnings, ice)

- GIS processing powered by ESRI
  - Spatial analyzes (density, hotspots)
  - OGC compliant
  - 3D support (WebGL, early stages)

- High availability ensured by CLS
  - Redundancy
  - 24/7 monitoring
DISTRIBUTING THE METADATA

- Authoritative status maps
  - www.jcommops.org/maps

- Key Performance Indicators
  - www.jcommops.org/kpi

- Data exchange
  - File exports
  - REST API under development
  - GIS REST API (ArcGIS Server) - www.jcommops.org/arcgis/rest/

- Web application(s)
  - www.jcommops.org, argo.jcommops.org, …
WWW.JCOMMOPS.ORG

- Website ... Web Applications

- Dedicated primarily to implementers of the GOOS networks
  - Steering/Data Teams, program managers, PIs, data managers, engineers, manufacturers, etc.
  - GOOS/JCOMM governance, international organizations and member states
  - Larger scientific audience
  - Larger public (outreach)

- Individual networks website (Argo, DBCP, SOT, GO-SHIP, OceanSITES, GLOSS ...)

- Integrated website
  - Cross program/platform, EOV oriented, regional (AtlantOS, TPOS, etc)
Tutorial #1: www.jcommops.org basics

- Main functionalities and navigation
- How to build your view of the GOOS
- How to extract maps, plots, data, statistics
- How to embed elements on your website
Continuous improvements

Mobile application

Ships, drifters, moorings and misc. platform (metadata !!!)

REST API: CSV, JSON, XML (WIGOS)

Develop synergies and interconnectivities (OSMC’s ERDDAP e.g.)

Develop outreach and access to gridded data (Scripps Argo Atlas, WOA, Mercator, …)

Communication/interactions (more webinars to come …)
Register your obs. systems
Feedback on “your” tools
Build the integrated perspective with us