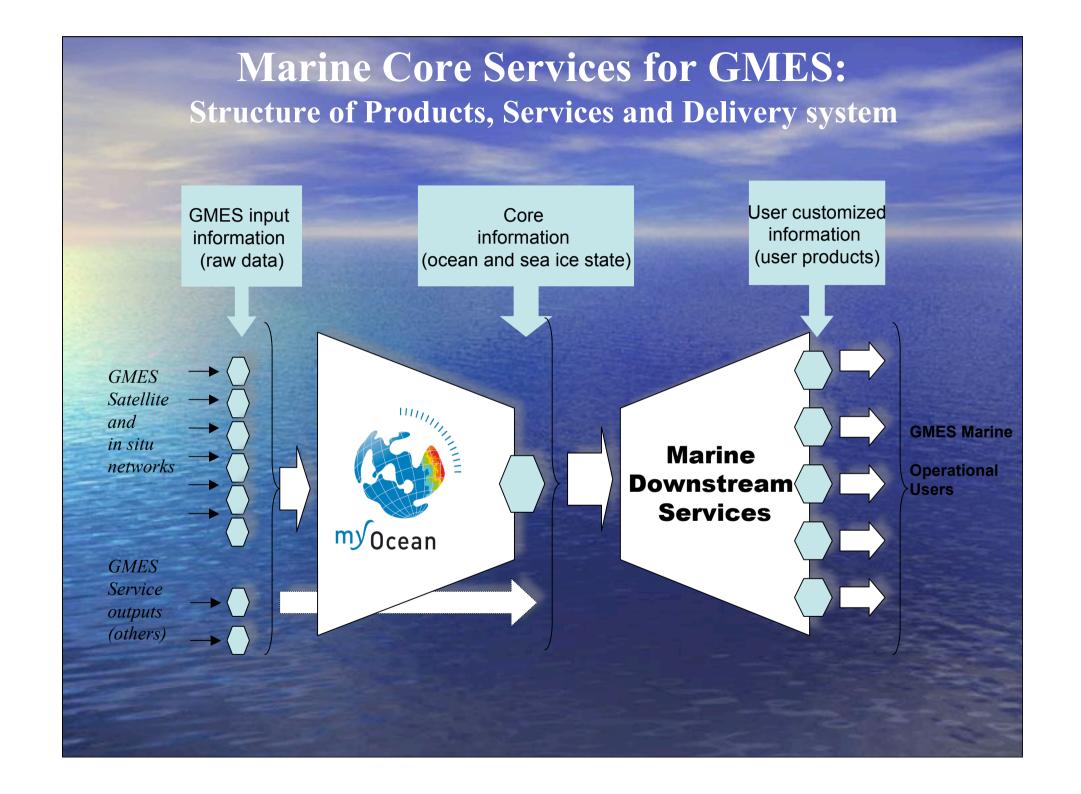
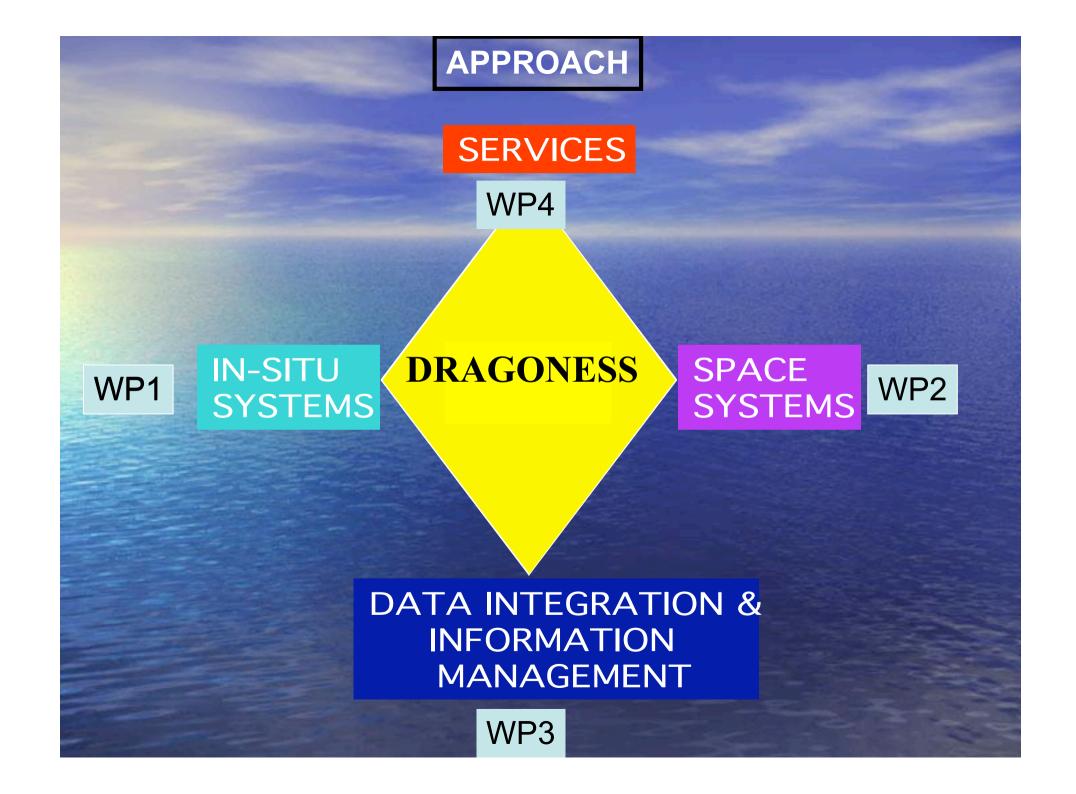
DRAGON in support of harmonizing European and Chinese marine monitoring for Environment and Security System

DRAGONESS



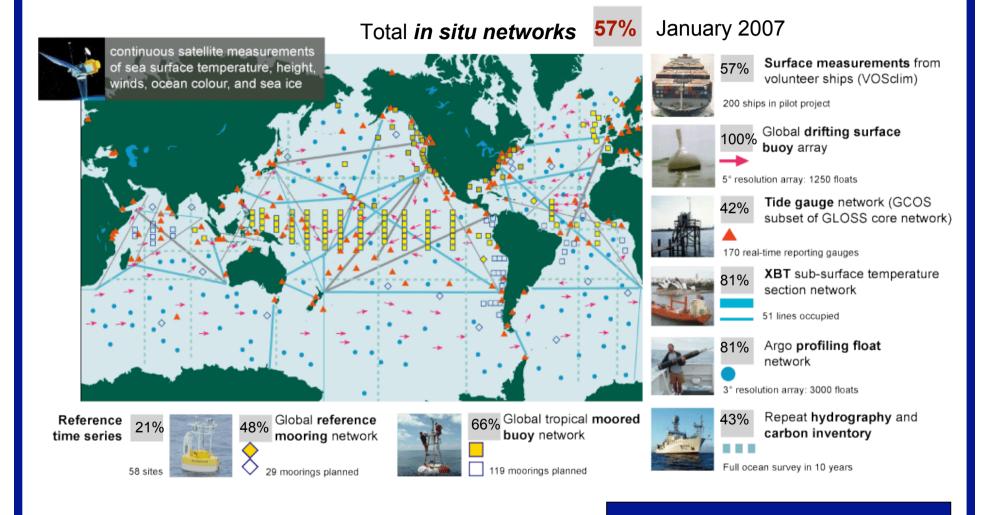
WP 1-Review and Utilization of in-situ observing system





Initial Global Ocean Observing System for Climate

Status against the GCOS Implementation Plan and JCOMM targets







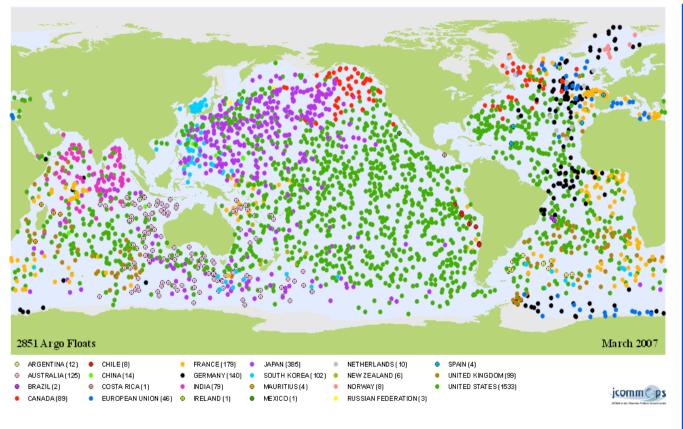


 A total of 5635 platforms are maintained globally.





The pre-GODAE in-situ ocean observing system was clearly inadequate for the global scope of GODAE => Argo : a joint GODAE/CLIVAR pilot project.



Outstanding progress thanks to international cooperation.

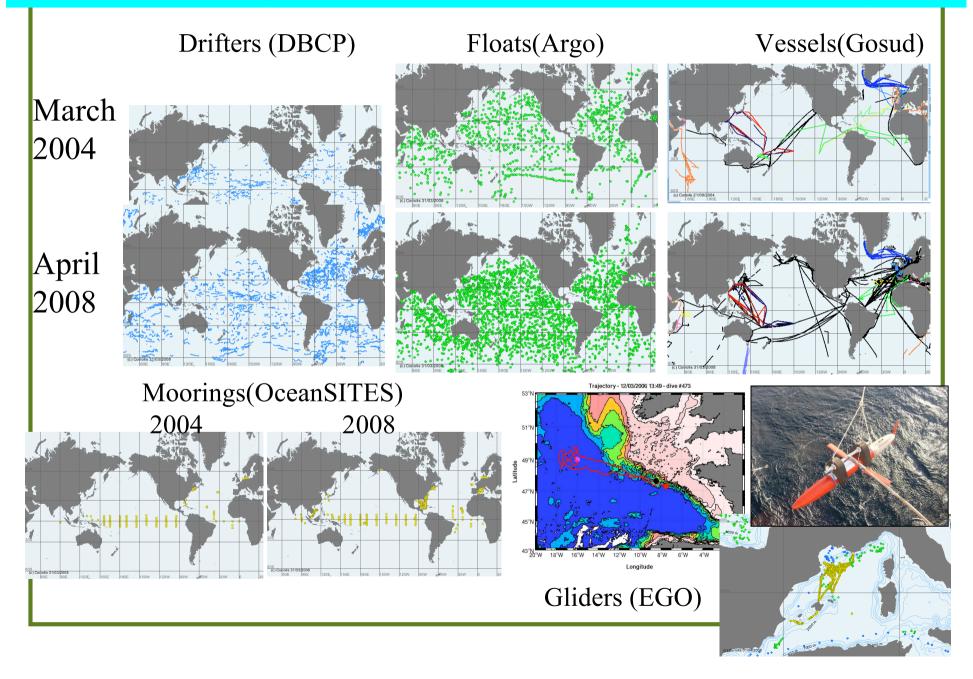
A global array (3000 floats) is now in place

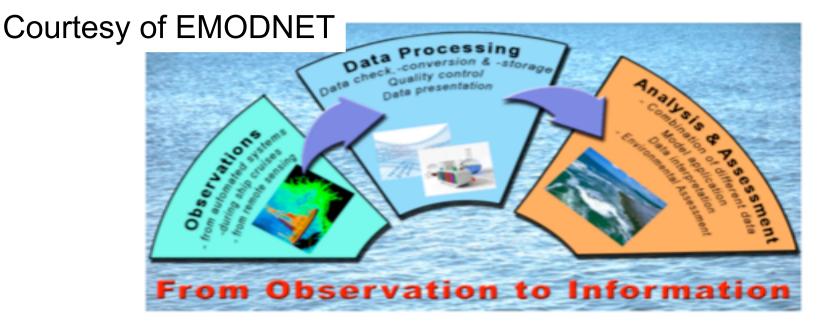
An efficient data management system is in place.

Main issue is long term sustainability

http://argo.jcommops.org

In-situ data integration and transmission to models * by 3





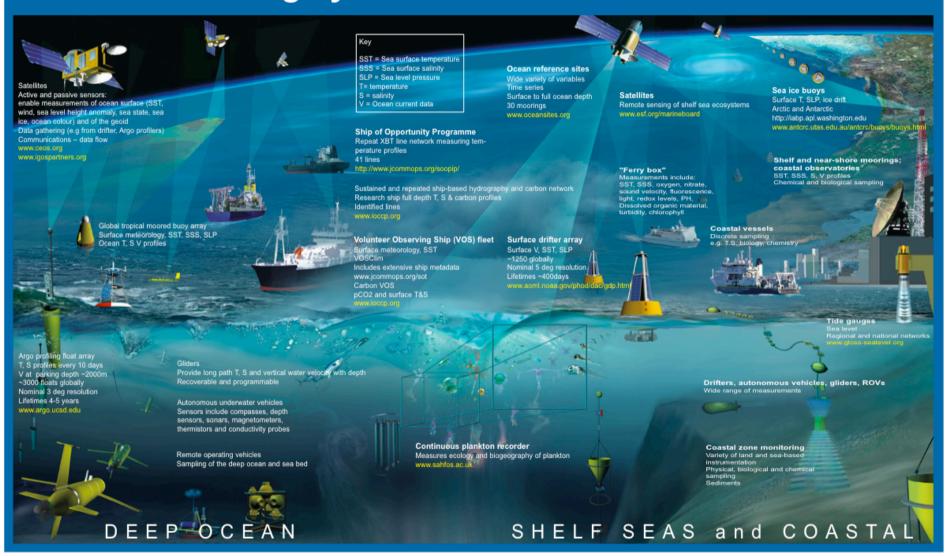
Main tasks in **EMODNET** will be to (i) build on and integrate the combined in situ and remote sensing and open ocean, shelf seas and coastal observation systems; (ii) harmonise currently different methodologies and strategies for data management under common protocols, data formats and quality control and (iii) ensure that data can be consistently distributed for user applications including regional data interpretation, environmental assessments and modelling.

Essential Components of an Observation Network



Ocean observing systems

Courtesy of EMODNET



"A comprehensive system of ocean observations covering coastal and regional seas and the wider global ocean lies at the core of EMODN. This requires investment in proven technologies enabling the gathering of data from a variety of in-situ and remote sensing platforms. Examples of some in situ platforms and their measurements are shown above. Remote sensing data may come from satellites and, especially in the coastal zone, aircraft and ground based stations.

For EDMONET to be successful efforts must be made to both maintain and build the present network of observing systems and to ensure continuity in remote sensing satellite missions. Strong investment in new and emerging technologies is ased data transmission into the pool of observing tools. This tendency is particularly visible with respect to the growing number of autonomous gliders and profiling floats, as well as in the more effective use of routine remotely sensed data"

Ocean Observating Systems

