

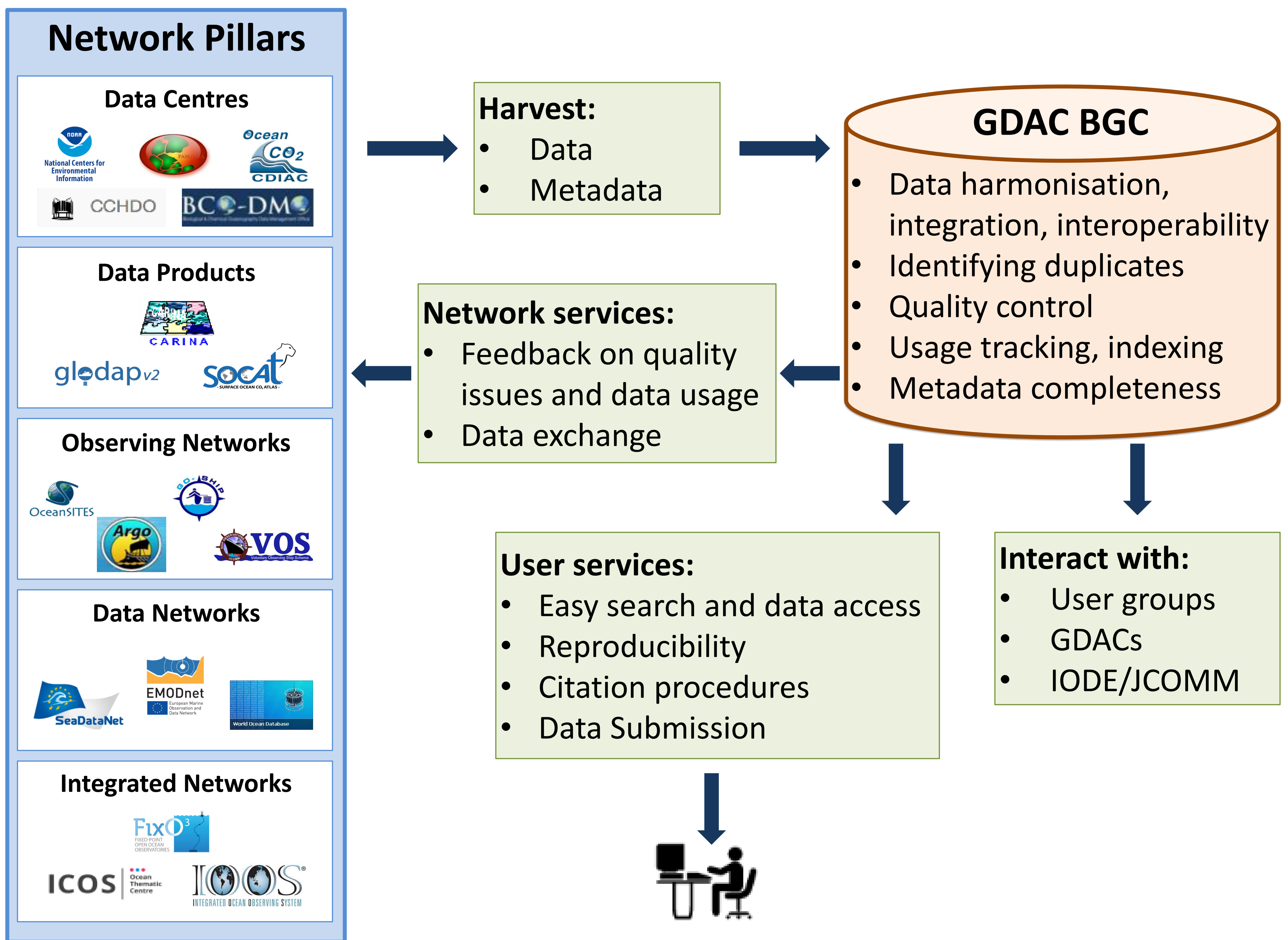
Initiating the Global Data Assembly Centre for Marine Biogeochemistry (GDAC BGC)

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'The value of data lies in their use'

(US National Research Council)

The ocean biogeochemical community are facing challenges related to efficiently accessing and using data. UNESCO/SCOR's International Ocean Carbon Coordination Project (IOCCP) in collaboration with data archives in the field promote the establishing of a Global Data Assembly Centre for Marine Biogeochemistry (GDAC BGC) - a modern data management approach based on harvesting data from existing data holders with the aim of making data easily discoverable, accessible and citable.



Motivation

Research is currently held back due to lack of easy access to EOVC carbonate system data – this has to be improved in regards to the COP21 Paris Agreement. Currently many data centres or network archives are based in the USA (CDIAC, CCHDO, BCO-DMO, NCEI) which makes it challenging for European projects to easily access and integrate data.

Data exchange between the various network pillars is often non-existing and the proposed GDAC will ease the data availability and standardisation (e.g. ISO metadata standards and standardized vocabulary), increase data quality, identify duplicates, reduce uncertainties and allow 100% reproducibility for scientists. It will also improve data access

for European projects like AtlantOS, Copernicus Marine Service, SeaDataNet, EMODNet and other GDACs (Argo and OceanSITES), and provide feedback to other authorities such as UNESCO IODE and JCOMM.

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