



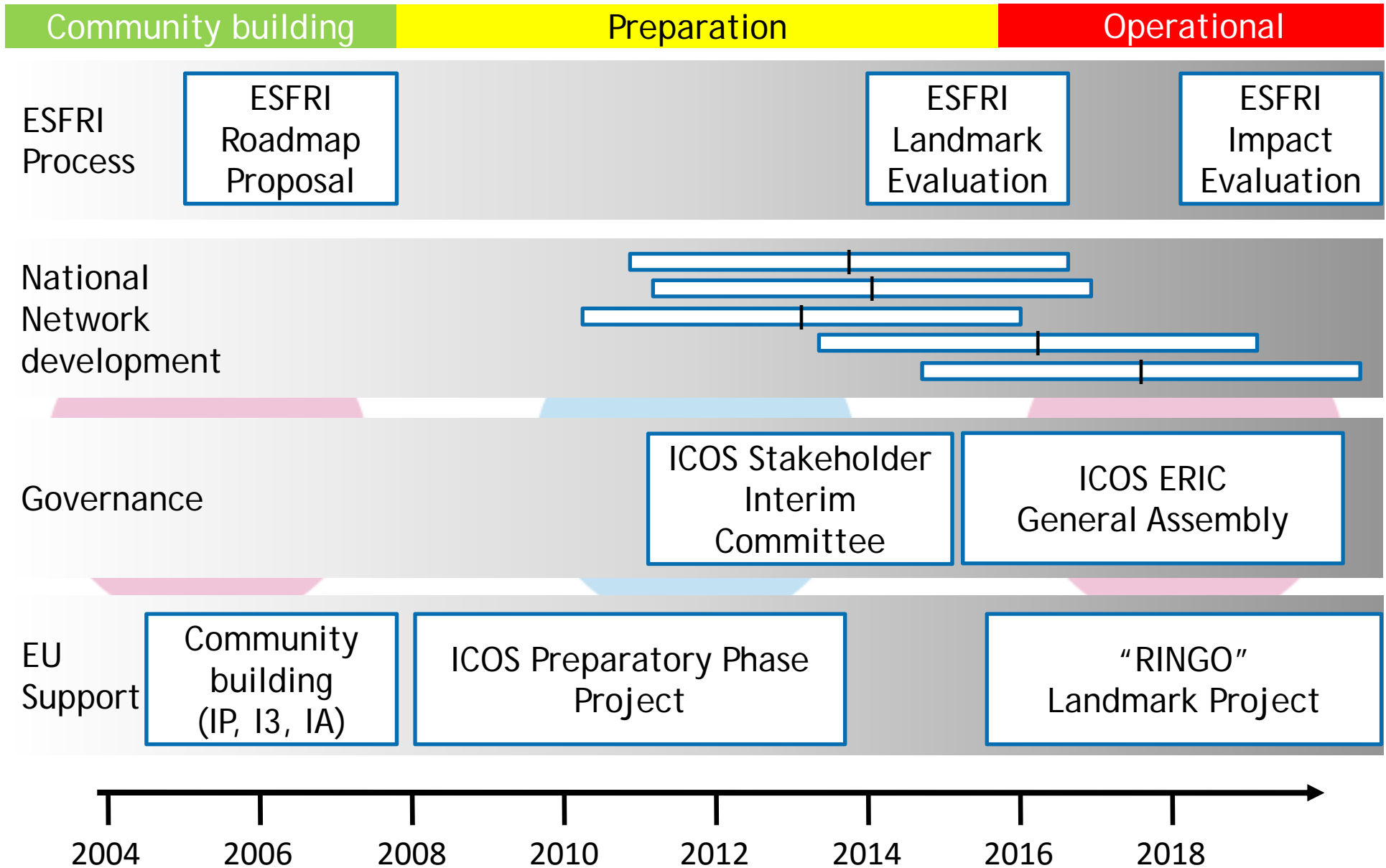
ICOS

● ● ●
INTEGRATED
CARBON
OBSERVATION
SYSTEM

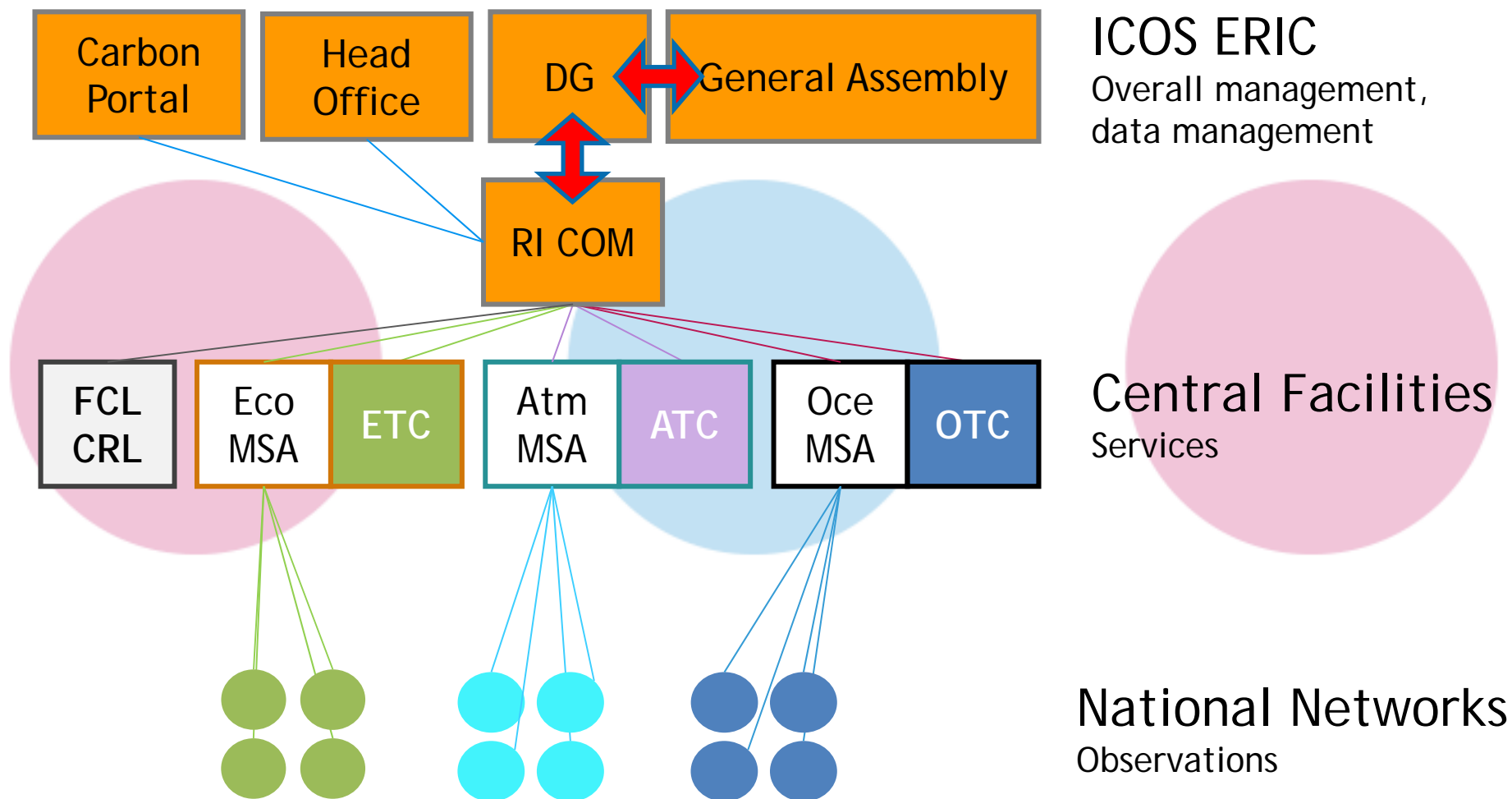
Short update on ICOS ERIC

Werner L. Kutsch, Director General

Helsinki, 26.9.2016



ICOS governance





Ecosystem Station labelling

For 20 Stations Step 1 is finalized and approved

Belgium

- Lochristi (BE-Lcr)
- Lonzee (Be-Lon)

Switzerland

- Davos (CH-Dav)

Germany

- Selhausen (DE-RuS)
- Gebesee (DE-Geb)

Finland

- Hyytiälä (FI-Hyy)
- Lompolojankka (FI-Lom)
- Siikaneva (FI-Sii)
- Sodankylä (FI-Sod)

France

- Bilos (FR-Bil)
- Hesse (FR-Hes)
- Lamasquere (FR-Lam)
- (FR-Fon)

Italy

- Monte Bondone (IT-MBo)
- Castelpoziano2 (IT-Cp2)

Sweden

- Abisko-Stordalen (SE-Sto)
- Hyltemossa (SE-Htm)
- Lanna (SE-Lnn)
- Norunda (SE-Nor)
- Svartberget (SE-Svb)



Atmosphere Station labelling

For 15 Stations Step 1 is finalized and approved

Czech Republic

- Kresin u Pacova

Finland

- Hyytiälä
- Pallas
- Utö

France

- OPE

Netherlands

- Lutjewad

Norway

- Zeppelin

Germany

- Jülich
- Hohenpeißenberg
- Gartow
- Lindenberg

Sweden

- Hyltemossa
- Norunda
- Svartberget

Switzerland

- Jungfraujoch



Ocean Station labelling

For 13 Stations Step 1 is finalized and approved

Belgium

- North Sea Data and Monitoring time series (BE-VLIZ Thornton Buoy)
- Research Vessel Simon Stevin (BE-Simon Stevin)

France

- France-Brazil Voluntary Observing Ship (FR-VOS France-Brazil)

Germany

- Cape Verde Ocean Observatory (DE-CVOO)
- LTER (Long-Term Ecological Research) Observatory HAUSGARTEN (DE-Hausgarten)

- North Atlantic Voluntary Observing Ship (DE-NA-VOS)

Italy

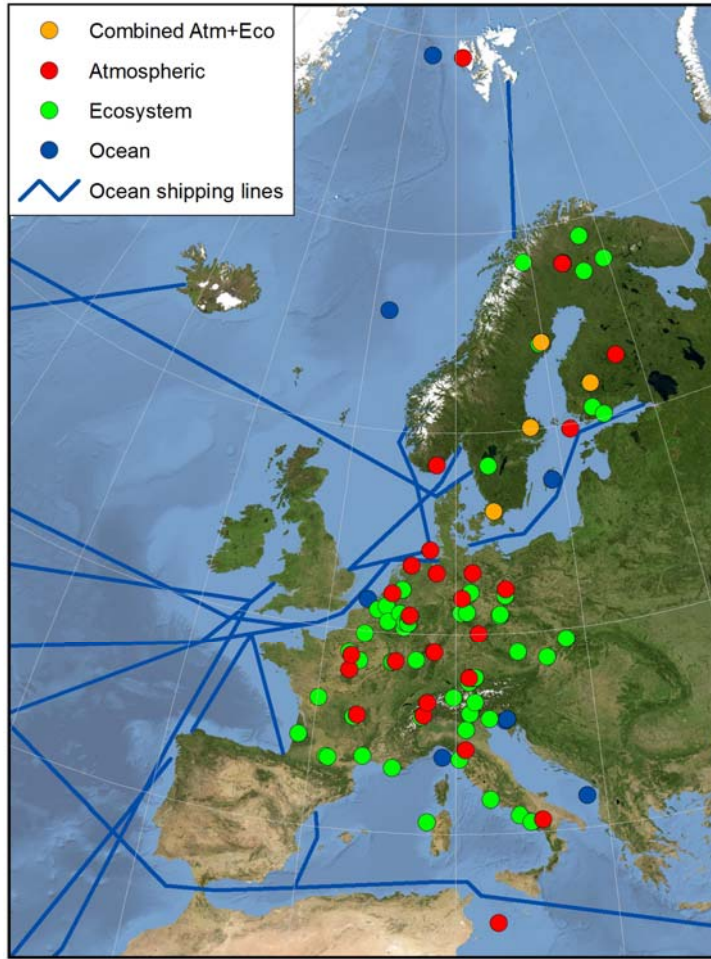
- E2M3A (IT-E2M3A)
- Miramare (IT-Mambo1)
- Piattaforma Avanzata Laboratorio Mare Adriatico (IT-PALOMA)
- Western 1 Mediterranean Moored Multi-sensor Array (IT-W1M3A)

Norway

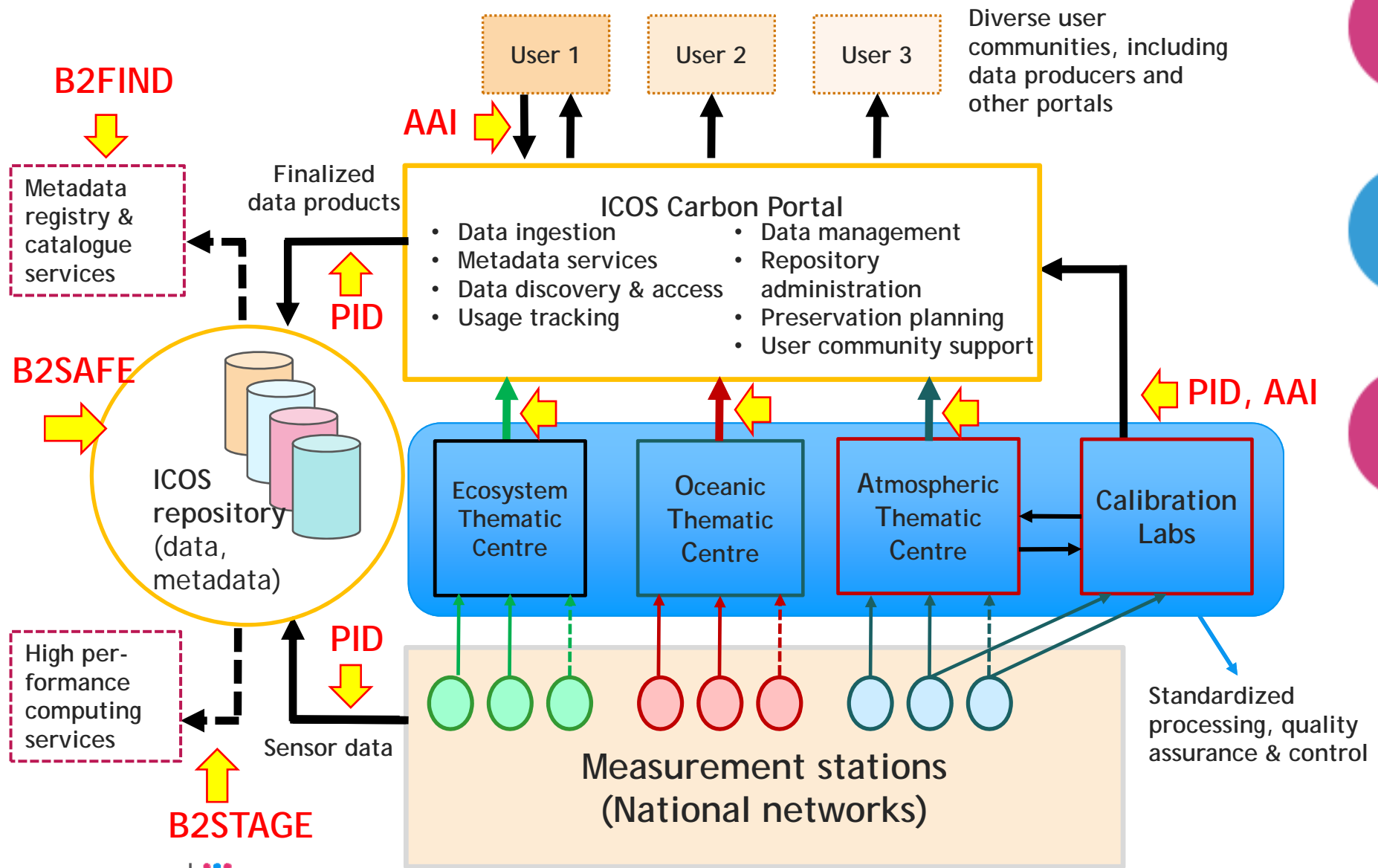
- R/V G. O. Sars (NO-GOSars)
- R/V Nuka Arctica (NO-Nuka)

Sweden

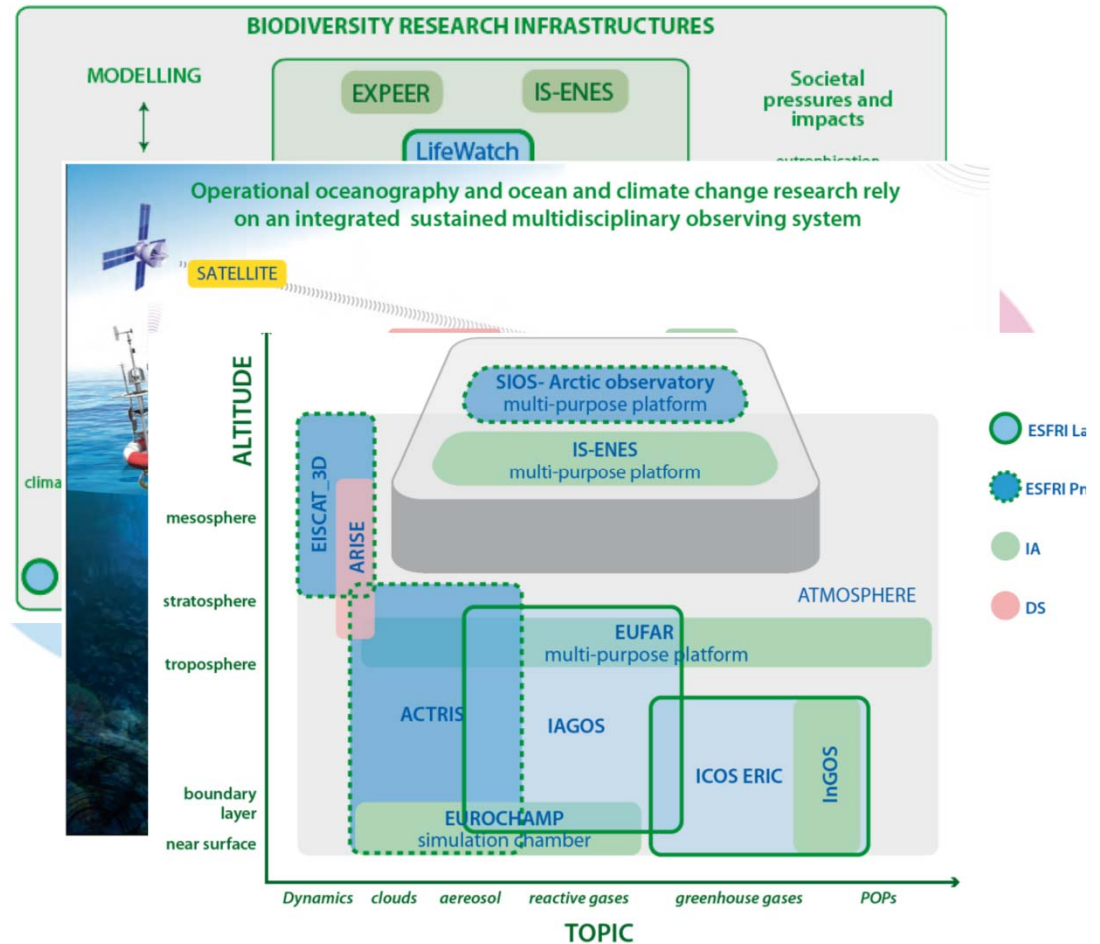
- Östergarnsholm (SE-Oes)



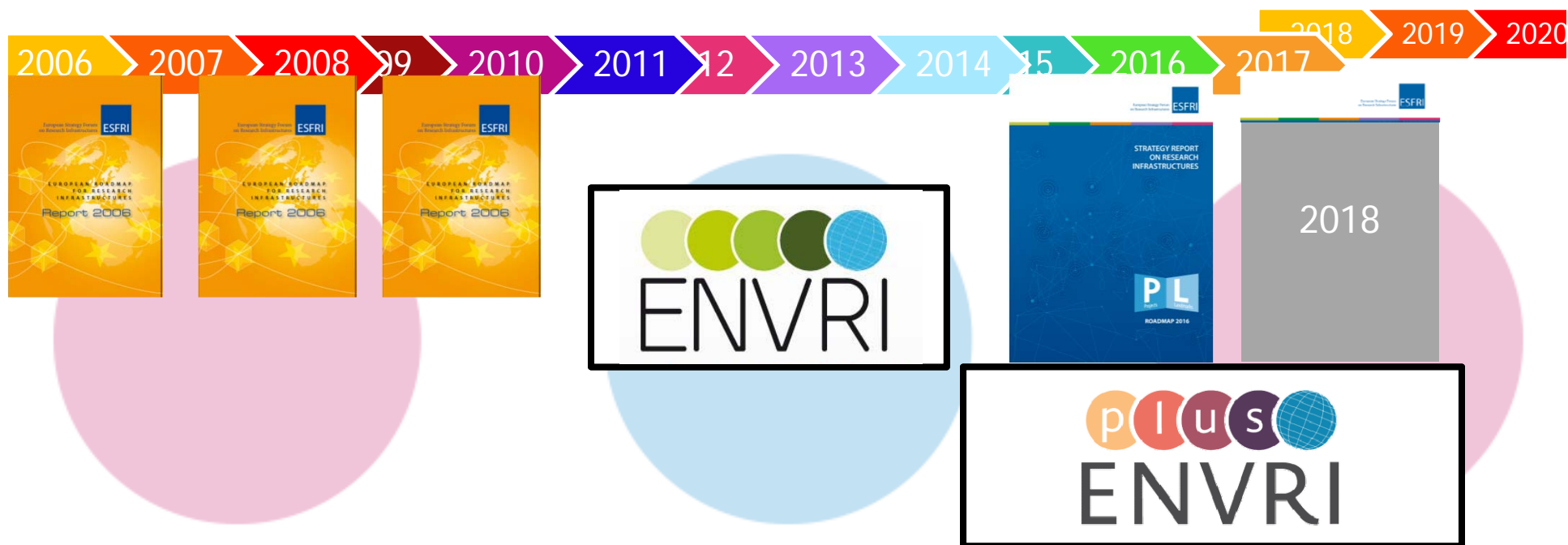
ICOS data flow, common services



The ESFRI Landscape



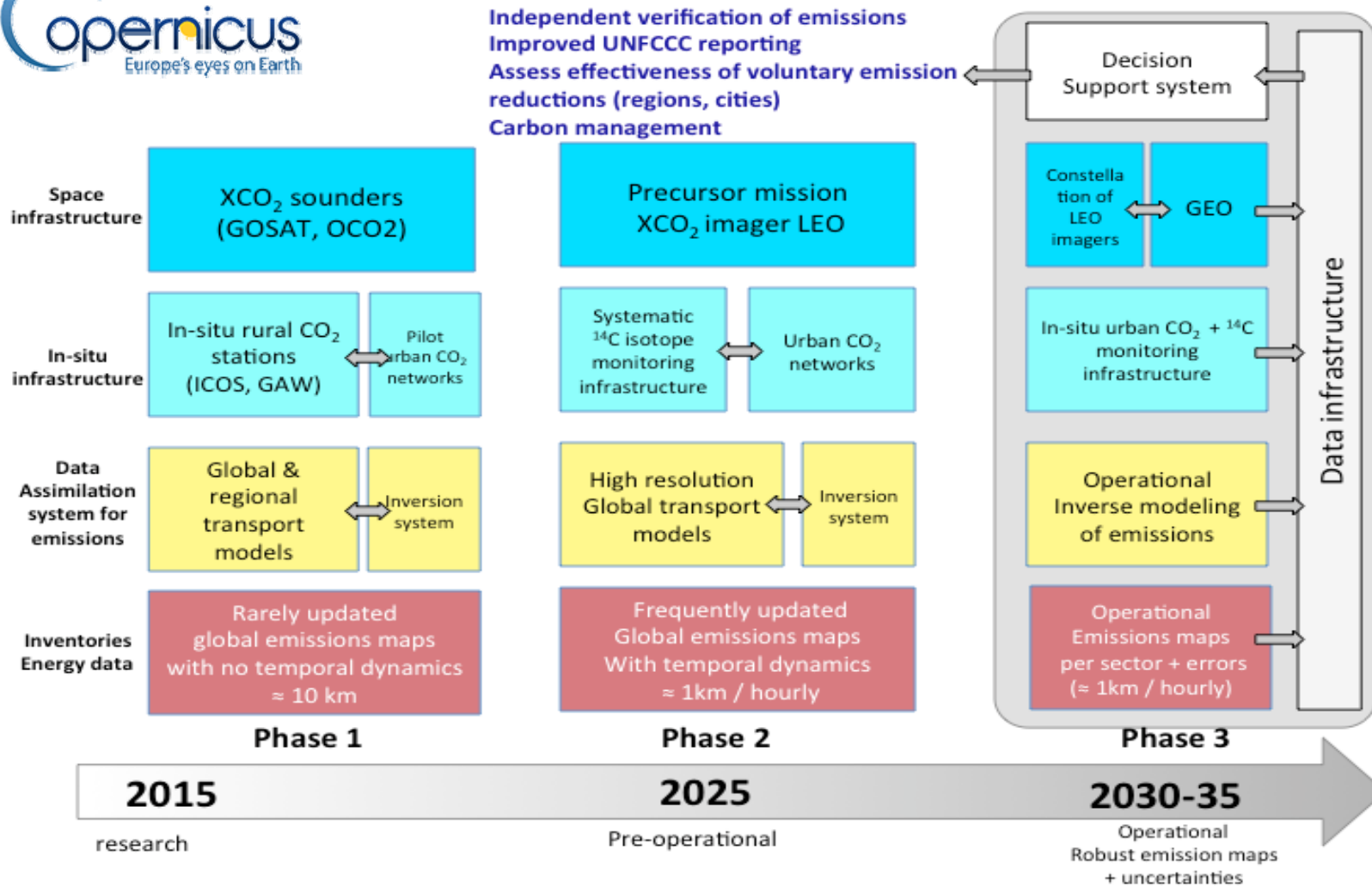
Cooperation with other environmental RIs



The ENVRI Community
(growing towards a solid structure)

COPERNICUS CONCEPT FOR A VERIFICATION SYSTEM

(CIAIS ET AL. 2015)



Communication



SBSTA



Framework Convention on Climate Change

Observations

Services

Decisions

neon

ICOS



AMERIFLUX



Data sharing

Data management (incl. metadata)



Improve data harmonization

Improve inter-operability

Improve data accessibility

Data Citation

From data to knowledge

Model-Data

Fusion

projects

Sustainability



Identifying observational gaps

Capacity building