

# User needs & requirements

- GEO was asked to initiate a survey among participating countries
  - Goal is have an inventory of user needs
  - Standardized rather than project based user requirements
  - Showcase examples provided by the group

# Strategic implementation plan

- Inform high-level representatives in IGO to influence decisions on SDG implementation and similar processes
- Alternatively, bringing up a “killer app”, or provide information on new problems would push the relevance of EO forth

# State of the art

- EO products alone are not enough
  - Combination with any relevant, indirect data
  - Databases should be connected, i.e. simultaneously acquired for verification
- Algorithms should be consolidated
- Citizen and drone observations need to be incorporated in future system and benchmarked with EO data
- Indicators are feasible at decent relative accuracy without additional data, but the latter are required for absolute calibration

# Gaps, problems and issues

- Data continuity
- Consolidation of algorithms remains complicated
- There is no EO in legislation
- The combination of all types of water quality measurements has different requirements for coastal and inland waters
- Modellers need accuracy indicators
- User need descriptive metadata

# Solutions and resource allocations

- Global cost-benefit analyses are needed
  - Approach needs to be defined
  - Issues and cost drivers must be identified
- GEO should play a role in connecting EO experts to modelling experts, thus support the elaboration of predictive capabilities
- Provide information to intelligent global portals
  - GEO could help in the definition in decision trees that allow for uptake of products into information
- Education and capacity building will need further efforts, potentially in the scope of GEO