

#OGS 2022

WATER RESOURCES

Monitoring & developing efficient indicators of water quality for efficient actions

(2) Monitoring & developing efficient indicators of water quality for efficient actions



WHY

- 1. To ensure that everyone get the best quality of water & is distributed to all regional sectors*
 - 2. To enhance monitoring & evaluation to improve / support / have well informed decision making*
 - 3. To ensure water quality problems are identified early for necessary action*
 - 4. To identify management needs*
 - 5. To provide objective and reliable valued information to manage the resource*
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- 1. Online + paper survey of community and parties – which includes education pack on objectives*

WHAT

- 1. Enhance regional initiatives using EO + traditional monitoring tools*
- 2. Monitor + analyze water Quality and quantity through community and stakeholder consultation and education*
- 3. Produce regional guidelines and best practices methodology*

HOW

- 1. Be sure that indicators are easy to complete with regular and reliable data*
- 2. Project funding to identify necessary equipment / resources to implement project (water tanks, equipment, experts)*
- 3. Set up working groups to develop, harmonize and validate indicators*

SUCCESS INDICATORS

- 1. Number of people using these indicators and guidelines*
- 2. Improved effectiveness of management and monitoring leading to better water quality.*

(2) Monitoring & developing efficient indicators of water quality for efficient actions



WHO

1. *Animator facilitator : Nicholas Metherall*
2. *Water monitoring managers*
3. *Water decision makers*
4. *CEOS & GEO (imagery and funding)*
5. *Public and governmental entities : SPC, SPREP, Local universities, Country water authority, national health agencies*
6. *Scientists and Data terra : Datasets, Expertise, knowledge, models*
7. *Technical services*
8. *Private sectors*
 1. *Existing solutions for watershades monitoring*
 2. *Processing models in the future*
9. *Sector trade unions involved In Water Monitoring forests, mines agriculture and urban managers*

WHERE

1. *Kiribati*
2. *New Caledonia*
3. *Islands interested into water preservations*
4. *Islands where water is the most polluted*
5. *Specific watershades and sites*
 1. *Drought*
 2. *Extractions*

WHEN

1. Now
 - Identify existing problems and needs
 - Identify team members & experts
 - Create working group
2. +3 month
 - Partnerships Sponsor and networking
 - Refer to existing regional science + government endorsed indicator frameworks
 - Adapt regional indicators to local country contexts
 - Identify specifics watersheds to work on
 - Define precises indicators
3. +6 months
 - Typology of pollution / pollutants
 - Get funds
 - Collect Data
 - Existing standard use in the region (water quality)
 - Research appropriate tools to invest in
 - Data sharing agreements
4. +12 months
 - Workshops with water managers
 - Developing and testing EO data method to monitor each indicators
 - Experimentation of first indicators
 - Share regional indicators

Personal Next Step

- Sachin : support Pearl Winchester
- Vani : work with data champions in the region
- Eric : share New Aquitaine examples
- Jean : share knowledge and technical solutions related to watershed monitoring
- Pearl : do my best to save water with GIS
- Adam : open data advocacs
- Adam Steer : supporting open Geospatial communities and open tools in the region
- Dyamella : collaboration with Pearl
- Tony : check out suitability microwave radiometry for island analysis
- Félix : ask if/how the CEOs can contribute to the project
- Marc Despinoy: help/support in developing indicator and provide Datas
- Jerome : report to decision makers and active participation to work
- Lika : provide the common indicators considered across the region
- JF FAURE : participate to next meetings aiming at the best definition project
- Nick : research on existing indicator frameworks