OGS 2022
Oceania Geospatial Symposium

#OGS 2022

WATER RESOURCES

Organizing a best practice benchmarking for water resources management using EO & GIS tools

(1) Organizing a best practice benchmarking for water resources management using EO & GIS tools

WHY

1. *Improving vital resources management*
2. *Regulate & monitor by introducing applicable technologies*
3. *Ensure that the water resources are managed Wisely (sustainably) taking into count all the uses and needs*

WHAT

1. *Creating and sharing an integrated and fair GIS system and common Database of water resources management & practices*
2. *Compare tools/methodologies & structure a global vision, allowing collection of data (incl. in situ*
3. *Assess if best practices are already available and centralized all around the world*

HOW

1. Create regional partnership to share data and work on them
2. Animations in order to share resources : financial, human expertise, tools
3. Funding
4. A project to review systems (EO + GIS + tolls) for water resources management in world / relevant environment

SUCESS INDICATORS

1. *The benchmark report is widely shared.*
2. *Common + endorsed accuracy of methodology approaches*
3. *Number of people with access to good quality water (within standards)*

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WHO

1. *Animator Facilitator : SPC*
2. *International organization : SPC (Water security team and digital earth pacific), IUCN, SPREP, World Meteorology, Pacific Meteorological Council, GEO, GRSS & CEOS*
3. *Data provider : Data terra*
4. *Thematical and Technical Experts*
5. *Specialists : GIS, Water resources*
6. *Water decision makers*
7. *Politics : MISE (Mission InterService Eau)*
8. *Thematical and Technical Expert (Pearl, Nick, Peter)*
9. *Private sector utilities water resource company*

WHERE

1. *Kiribati*
2. *New Caledonia: Island Province, North Province*
3. *IRD territory project*
4. *Fiji because we already have many data and projects to learn from*
5. *Regional territories which are facing water resources problems (Tonga, Samoa)*
6. *PICTS*

WHEN

1. Now :
- Identify Expert and get them engaged
- Create the working Group

2. +3 month
- Worldwide Benchmark by expert
- Understand any existing best practices
- Find Funds
- Engage international solution analyze (1 month)
- Storage accessible existing datasets (1-3 months)
- Identify the needs : List problems of territories

3. +6 month
- Regional expert and stakeholders' workshops
- Advocacy and education : rainfall data, soil maps, watersheds river
- Approve the project work plan : List of actions

4. +12 months
- Establish a common strategy about use of water
- Testing validation of monitoring results
- Training
- Make regional sense

5. +18 months
- Action with time frame budgeting
- Validation of the POC
- Country endorsement

Personal Next Step

- Sachin : provide EO data advisory
- Felix CNES : ask CEO's if/how they can contribute
- Marc : data Models
- Pearl : do my best to act as an expert in this subject (validate study, lobbying, fund raising)
- Tony : facilitate links between relevant organization (GEO, UNSW, GRSS/IEEE)
- JF Faure : contribute to formalization of project in coming meetings
- Jerome : report to decision makers and participation to work groups
- Vani : work with PICTs on EO data needs
- Nicholas : make a collaborative shared doc listing all water monitoring indication
- Eric : identify solutions of water management which can be used in pacific countries