

# #OGS 2022

## TERRITORY KNOWLEDGE

Predicting trajectories for the evolution of coastal environments using datasets

## *(2) Predicting trajectories for the evolution of coastal environments using datasets*



### **WHY**

- 1. To reorient public policies (of costal development – natural threats*
- 2. Know to Plan & Adapt*
- 3. Build solutions: Anticipation – Prevention- Adaptation to costal hasards*

### **WHAT**

- 1. Making maps : risk, Impacts Financial Cost, Land use...*
- 2. Collect historic Data & LIDAR Data (DEM – Digital Elevation Model)*
- 3. Create Policy framework and build infrastructures for coastal Management*

### **HOW**

- 1. International Collaboration + sharing*
- 2. Funding – Money (Banks, subv., partners...)*
- 3. Datasets*

### **SUCCESS INDICATORS**

- 1. To see the transformation of recommendations IN action Plan implemented by decision makers.*
- 2. Change detection for statical evolution*

## (2) Predicting trajectories for the evolution of coastal environments using datasets

### WHO

1. *Regional Organization : PGSC, SPC (DEP), IUCN*
2. *Research organism : Ifremer, IRD, OFB*
3. *Government agencies : DIMENC geospatial service (Possible Animator Facilitator), OBLIC, CSIRO,*
4. *Politics : Ministry of land and natural resources, Environment department*
5. *Regional communities of interest*
6. *Countries with institutions in charge of the coastal management*
7. *Local Landholders of marine areas / syndicate of sector involved in this problems : Fishing and aquaculture or Tourism*
8. *Different level of seas administration : eg SG Mer, Premar, Etc.*
9. *Donor : Fundings*
10. *Highly specialized GIS expert and data analyst*
11. *Data Terra : Precise satellite picture producer*

### WHERE

1. *ATOLL*
  - *Kiribati*
  - *Tuvalu*
  - *French Polynesia*
  - *Wallis et Futuna*
2. *Territories with geospatial strategy and existing action plan (Tonga / Fiji)*
3. *New Caledonia*
4. *Vulnerable coastlines country facing changes*
5. *All countries involved in coastal studies and management with coastal planning tool*
6. *Displaced population and emergency country first*

### WHEN

1. +3 month
  - Identification of : Champions, Teams, Available datasets, data gaps, existing methods
  - Define dedicated sites to survey
  - Inception surveys (feasibility study)
  - Create a common framework to make sure every stakeholder approve it
  - Identify pilot territories
  - Apply for funding (Life, PEBACC ++)
2. +6 months
  - Share objectives between countries
  - Make projection for pilot territories
  - Make an inventory of the situation
  - map historic and actual coastline in territories
  - Data workshops (countries / stakeholder)
  - Lead first in situ mission and modeling (IT)
  - Working plan validated
  - Engage a call for action
3. +12 months
  - Co-planification of operations
  - Engage the project
  - Collect Data : Bathymetries, Shoreline Change, Marine Spatial / Habitat Planning, Digital Elevation Model
4. +18 months
  - Validation of the process
  - Setup implementation plan (timeframe)
  - First results

### Personal Next Step

- Lika : make this project successful and the vision is achieved
- Eric : for each 3 French territories, engage this project first in New-Caledonia with atoll and mountains
- Marine AUBERT : helps with funding applications process (writing)
- JF Faure : contribute to formalization of project / dataset identification
- Tony : include an aircraft (UAV, drone technology) seek support for global mangrove watch
- Nicholas : collect list of existing methods
- Jerome : report to decision maker and active participation to work sessions
- Vani : communication (with current groups / stakeholders)
- Alexandre (PF) : write a public minister communication
- Jean M. : share digital coastline mapping method + facilitate links
- Pearl : help to get all the existing projects and work to converge
- SCP : project design / technical support and capacity building
- Marc Despinoy : training, acquisition data, trustment, observatory mangrove
- Adam Steer : facilitation, airborne data collection, project development, training