



Horizon 2020
European Union Funding
for Research & Innovation

EMSODEV Kick-off Meeting

WP 4

EGIM shallow water performance assessment and validation

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Objectives of the WP4

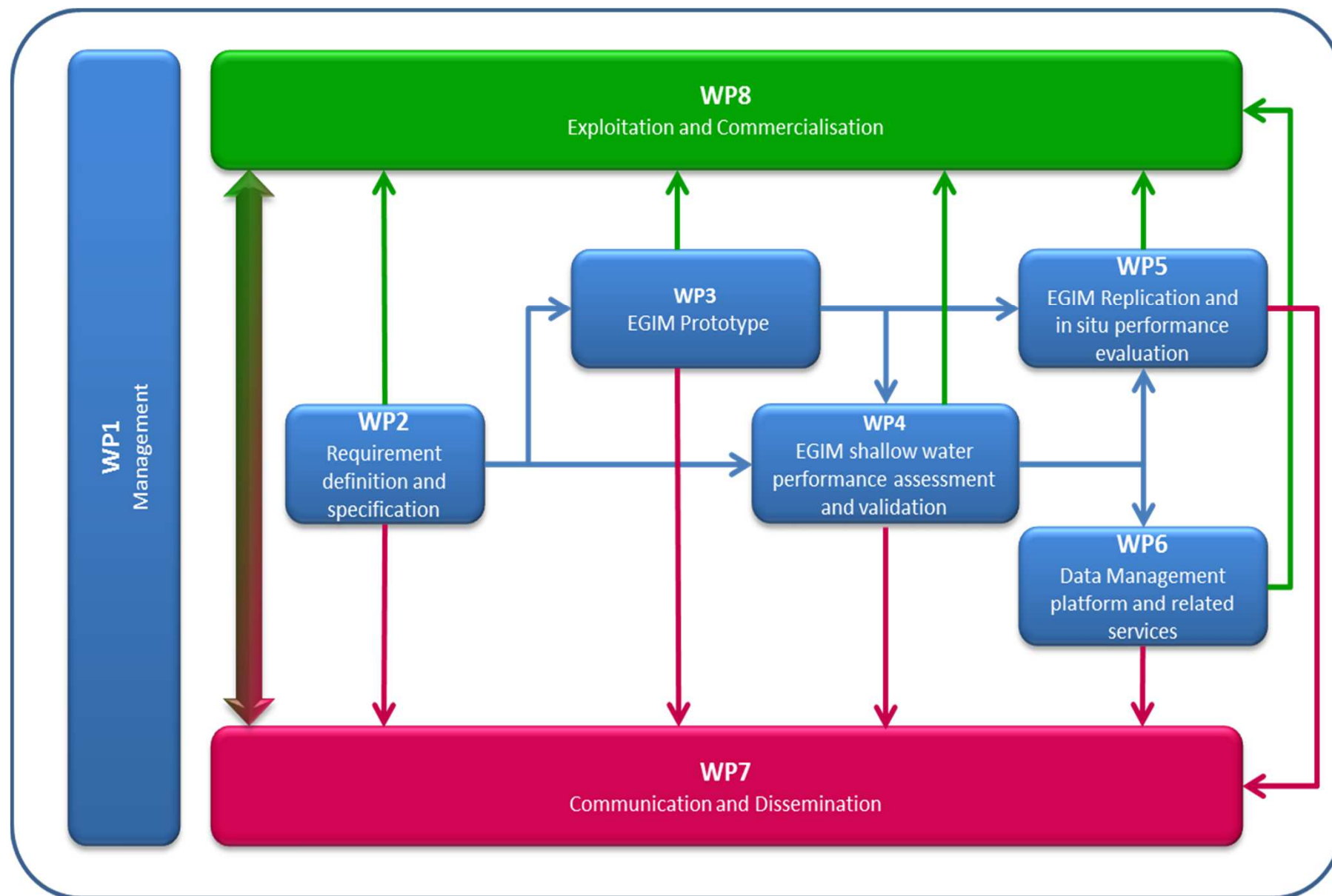
Generic: Performs all the necessary testing and validation for EGIM under shallow-water conditions

Specific:

- Handbook for test plan and operational procedures
- Test EGIM prototype at shallow water Observatories
- Develop generic software for sensor web enablement

WP Leader: Juanjo Dañobeitia (CSIC) (17 person/month with Third parties UPC 10 p/m & PLOCAN 2 p/m). **Partners involved:** INGV (3; SET 4), HCMR (2), MI (5), UniHB (5), NERC (4), IPMA(*IMAR-MARE* 1; *FEUP* 1,5 *CINTAL* 05; *IST* 1), IFREMER (2), GeoEcomare (2), Total 60 p/m

WP 4 Interactions with other WP's



Overview of the activities

WP4 activities are primarily concerned with performance testing (shallow and open sea) and therefore *operation of EGIM*. Initially these activities require significant contributions from other WP's to deliver continuous feedback and quality control in each process, following the **technical specifications** provided by the **WP2** (generic instrument module), and the **generic sensors procurement** as well as the **design of the prototype** Instrument and interface from **WP3**.

- Develop **generic software for sensor web enablement**.
- The result will be the final **EGIM prototype validated in shallow-water conditions**. Input for: **WP2** (for revision of requirements), **WP6** and **WP7**.

WP4 discussion points

- **Handbook and test-bench framework: approach**
 - Requires a preliminary index concerning all the items involving (wiring, cables, communication, etc.,)
 - Wp3: Laboratory Dry- test, performance, QC and monitoring ?
 - Wp3: Wet –test procedures, performance, QC and monitoring
 - Safety and Risk assessment
- **TEST SITE Location: OBSEA and/or SMARTBAY or other?**

WP4 early deliverables/milestones

Deliverables & milestones for the first 9 months

| Del./Mil. No | Title | Due date (Project Month) | Responsible Partner (to be checked) |
|-----------------|--------------------------------------------------|-----------------------------|-----------------------------------------------|
| D 4.1 | Test plan and operational procedures handbook | M-6 February-2016 | CSIC (2 p/m) and UPC (1, p/m), PLOCAN (1 p/m) |
| D 4.2 | Preliminary Release of EGIM Test-Bench Framework | M-12 August-2016 | CSIC (4 p/m) and UPC (2, p/m), |
| D 4.3 | EGIM Software Package | M-14 October-2016 | CSIC (7 p/m) and UPC (2 p/m), |
| D 4.4 | Final Release of EGIM Test-Bench Framework | M16 December-2016 | CSIC (3 p/m) and UPC (1, p/m), PLOCAN (1 p/m) |
| D 4.5 | Shallow-water testing | M16 December-2016 | CSIC (1 p/m) and UPC (4 p/m), |

WP4- Task, responsible and timing

Activities of the first 9 months

| Task Name | Specific activities for the first 9 months (01.09.2015 -31.5.2016) | Who? | Dead-Line |
|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|-------------------|
| Related Task | DIVIDE TASK IN SPECIFIC ACTIONS | CSIC | M6- February 2016 |
| T 4.1 | <p>Primary Test plan and operational procedures handbook</p> <p>Handbook index</p> <ul style="list-style-type: none"> › Objectives › EGIM description › Scope › Technical requirements › Power › wiring, cables › Connectors › communications › Acoustic modems › Testing › approach, initial test estimates › schedule, timing › safety and risk assesment › environment › QC › Deliver : Results | <p>CSIC-UPC (5p/m)</p> <p>INGV IFREMER NERC MI UniHB IPMA GeoEcoMar</p> | |

Activities for the next 9 months: to be discussed

Actions mandatory:

- To create a shared document (google drive)
- To start with a table identifying the responsible from each partner
- To write the index of the handbook
- To assign the sections to the corresponding responsible
- Identify dependencies and requirements: **Deliverable D2.2** Preliminary Technical specifications of **the EGIM will be released on M8 (two months later than D4.1)**. The **EGIM technical specifications** should be already determined (and mentioned) in D4.1
- To define generic functions, generic sensor models, and establish/determine the protocol to communicate with the EGIM
- SOS Gateway requirements for Data Management Platform (to be implemented in WP6)

WP4 Activities-Dependences

| Deliverable (number) | Deliverable name | Work package number | Short name of lead participant | Type | Dissemination level | Delivery date |
|----------------------|---------------------------------------------------------|---------------------|--------------------------------|--------------|---------------------|---------------|
| D1.1 | Quality control procedures | 1 | INGV | R | CO | M3 |
| D2.1 | Workshop on Scientific Requirements | 2 | HCMR | R | PU | M3 |
| D6.1 | Data Management Plan | 6 | INGV | R | PU | M3 |
| D7.1 | Dissemination plan | 7 | GeoEcoMar | R | PU | M3 |
| D5.1 | Site Selection Report | 5 | NERC | R | PU | M4 |
| D3.1 | Sensors test documentation | 3 | IFREMER | R | CO | M5 |
| D4.1 | Test plan and operational procedures handbook | 4 | CSIC | R | CO | M6 |
| D2.2 | Preliminary Technical specifications of the EGIM | 2 | HCMR | R | CO | M8 |
| D7.2 | Communication material | 7 | GeoEcoMar | DEC | PU | M6 |
| D8.1 | Business Case studies | 8 | MI | R | PU | M8 |
| D3.2 | EGIM Design documentation | 3 | IFREMER | R | CO | M10 |
| D3.3 | EGIM prototype | 3 | IFREMER | DEM | CO | M12 |
| D3.4 | Dry and wet tests report | 3 | IFREMER | R | CO | M12 |
| D4.2 | Preliminary Release of EGIM Test-Bench Framework | 4 | CSIC | OTHER | CO | M12 |
| D6.2 | Data management platform architecture design | 6 | INGV | R | PU | M12 |
| D7.3 | Project video | 7 | GeoEcoMar | DEC | PU | M12 |
| D4.3 | EGIM Software Package | 4 | CSIC | OTHER | CO | M14 |

D4.1 will depend on partial results of D2.2 !

“Criticalities”

- the EGIM will be released on M8 (two months later than D4.1). The EGIM technical specifications should be already determined (and mentioned) in D4.1.
- EGIM test at Shallow and Open sea ?
- Risk´s ?