



MINISTERO DELLE INFRASTRUTTURE



MAGISTRATO ALLE ACQUE

European Water Technology Consortium

EWTC



Servizio Informativo

Consorzio Venezia Nuova





MISSION

- Facilitating technology development and provide users with tools and support for monitoring, managing and protection fresh, coastal waters and sediments throughout Europe.
- Using the facilities of different institutions (Partners) around Europe in those fields



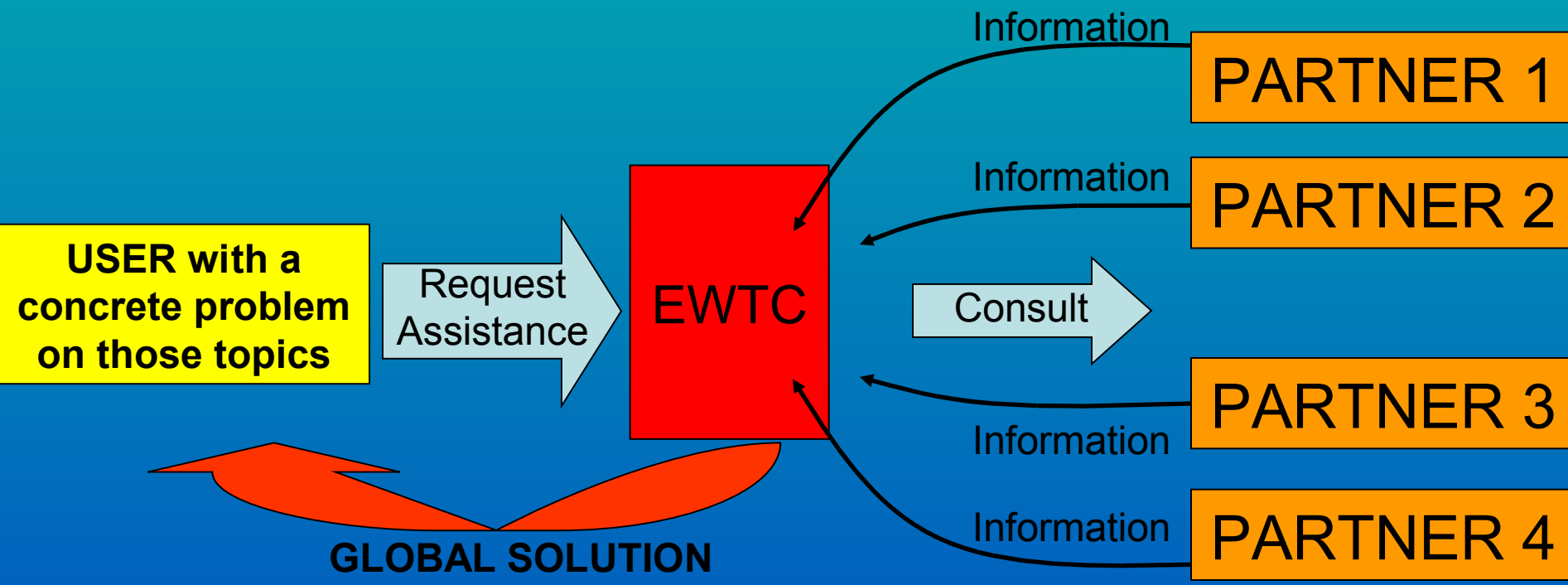
ORIENTATION

- Solve **Real Problems** for: coastal engineering, water/sediment management, harbors, beaches, lagoons/rivers/streams/groundwater, restoration, private sector marine technology developers.



Outputs and Outcomes

- Support the managing of fresh/coastal waters and sediments to European Countries or Institutions with low facilities in those fields

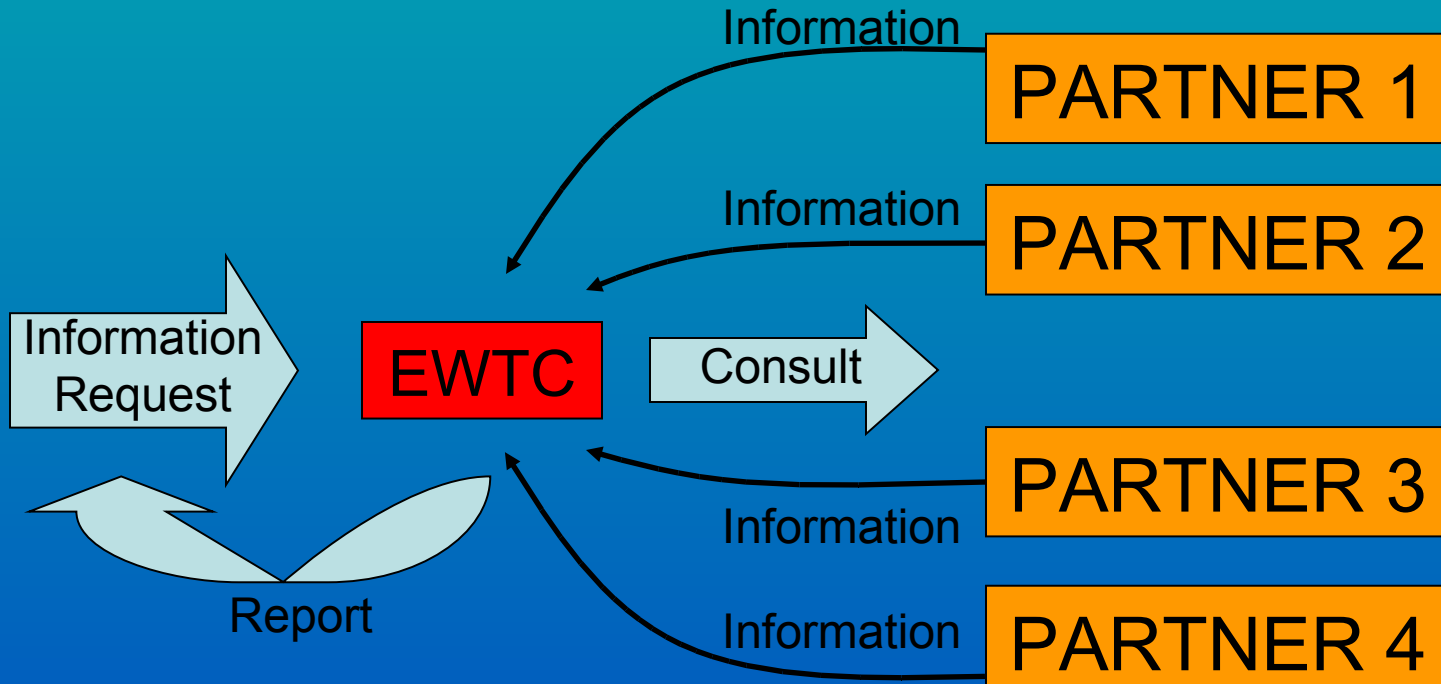




Outputs and Outcomes

- Provide users with information required for the deployment of reliable and cost-effective monitoring and management programs.

USER with limitation of:
MONEY
SUPPORT
FACILITIES
KNOWLEDGE, ...





Outputs and Outcomes

- Create an European Group of fresh-coastal waters and sediment management support.
 - Recognize in every European Country a possible Partner for the EWTC (IFREMER, SOC, Consorzio Venezia Nuova, ...)

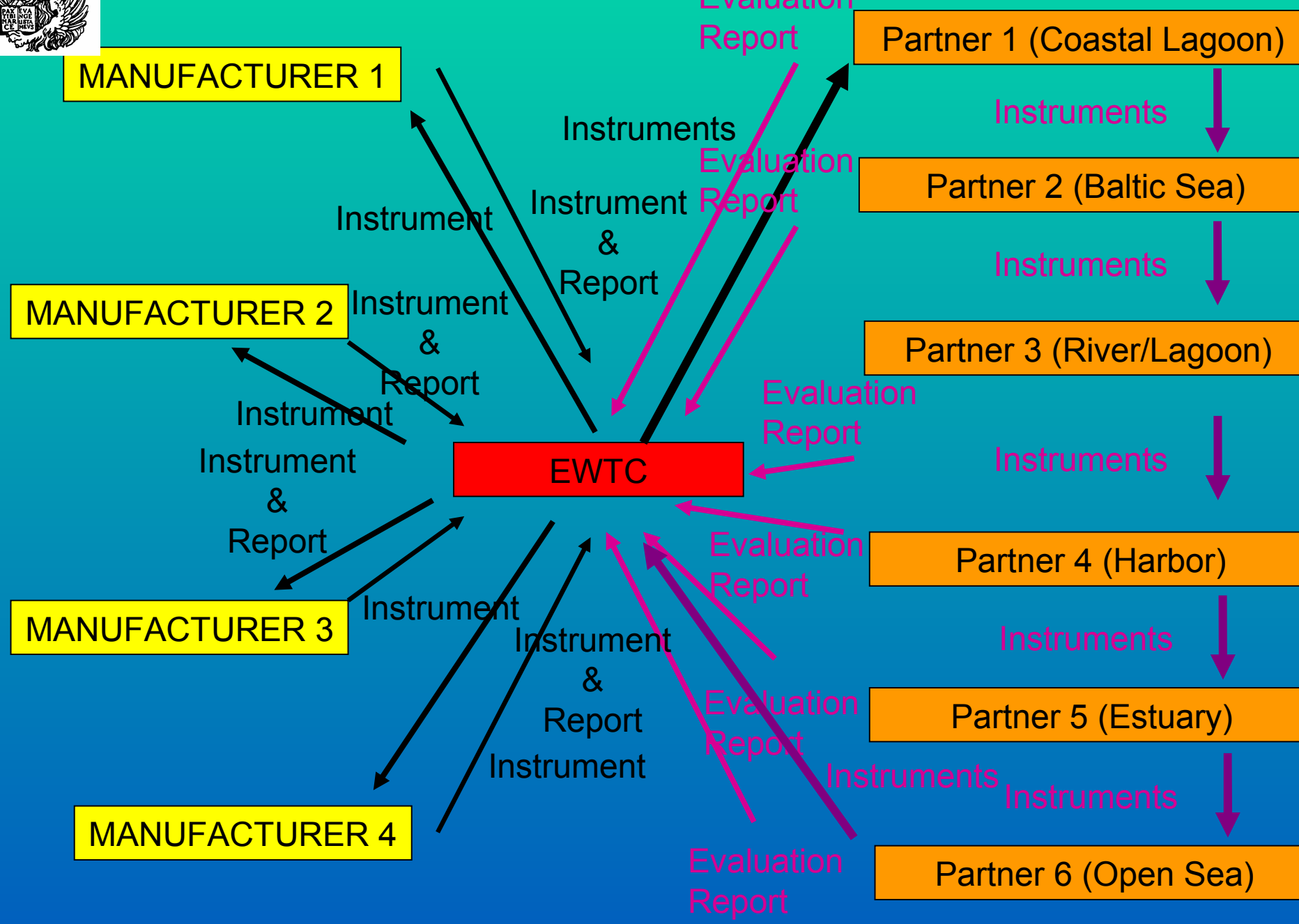


Outputs and Outcomes

- Continuous evaluation the State of the Art of sensors in different conditions.
 - Every partner will evaluate the pool of existing instrumentation in his place, and write a report about the advantages, inconveniences and recommendations.
 - EWTC will collect every singular report and will send to manufacturers a whole report.



Salinity Sensors Evaluation



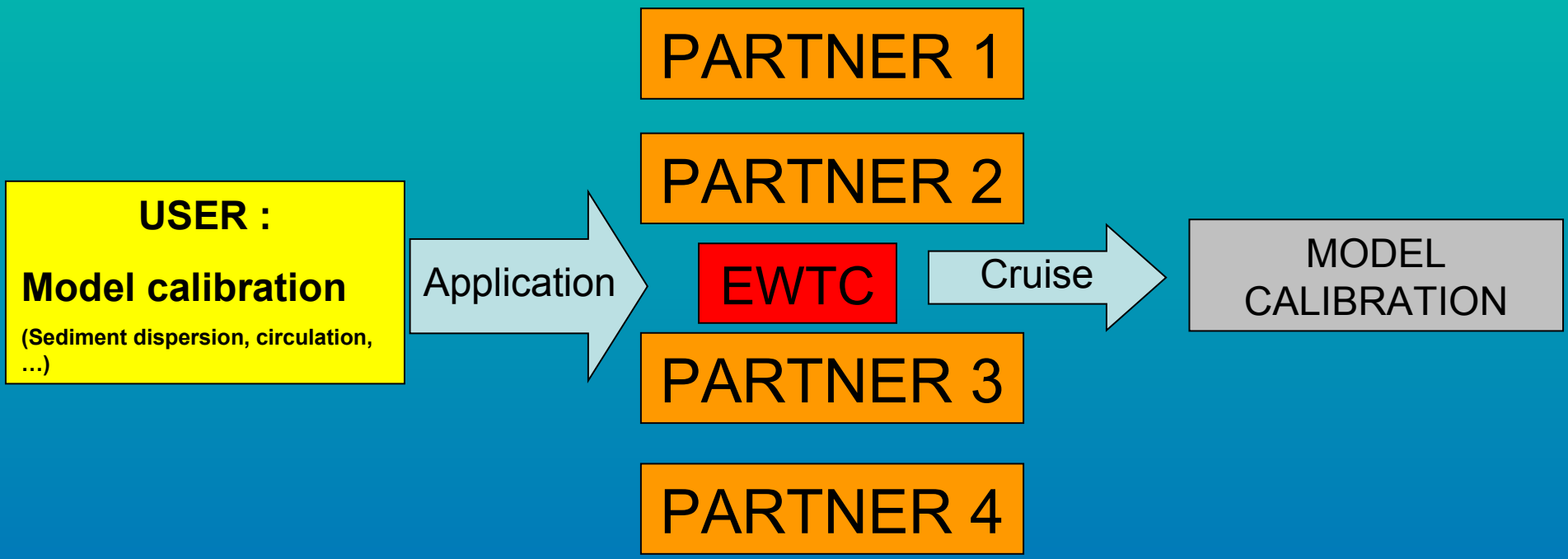


Outputs and Outcomes

- Increase the collaboration between institutions, with the creation of a net of continuous cooperation.
 - Exchange of engineers and technicians
 - Temporary qualified personnel support for users-partners, to develop a concrete project, related with these fields.
 - Organize marine cruises with instrumentation, technicians, engineers, facilities, etc, from different Partners.

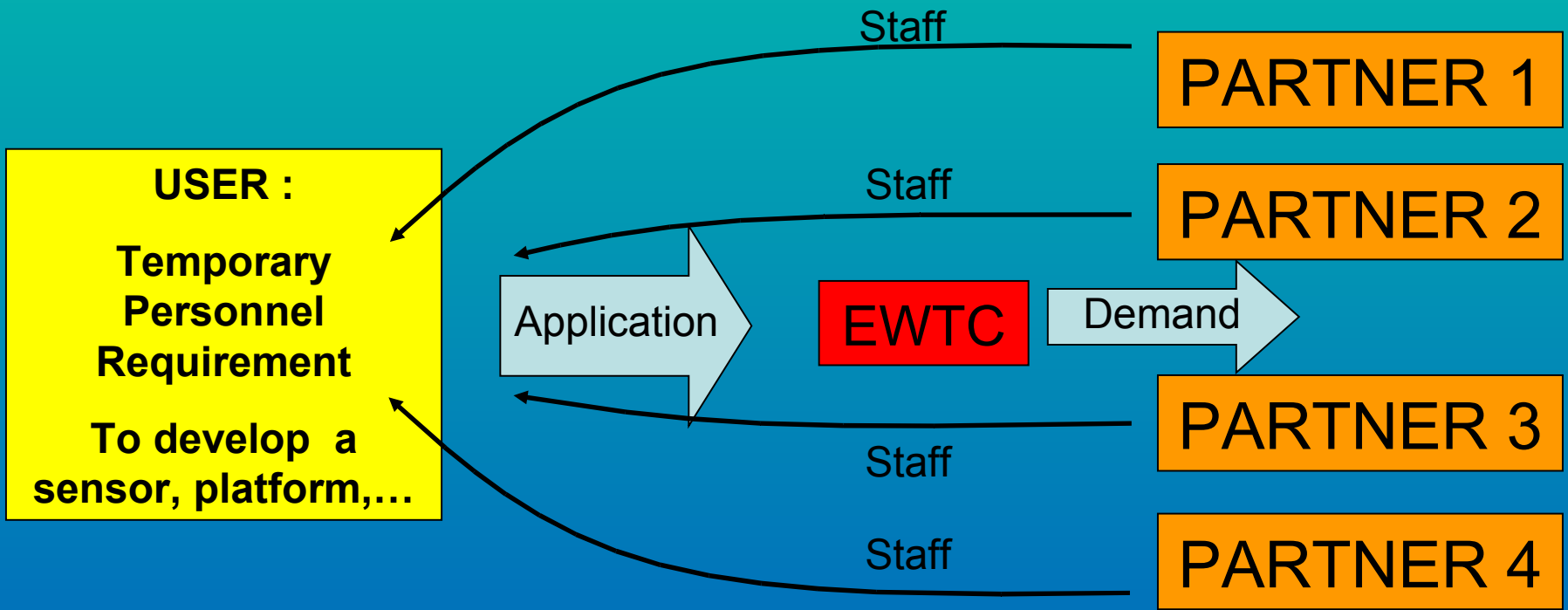


Example (Model Calibration)





Example (Develop New Sensor)





Outputs and Outcomes

- Transition emerging technologies to operational use, rapidly and effectively
 - Facilitate the contact between the manufacturers and the research institutions oriented by the users.



Outputs and Outcomes

- Maintain a dialogue among technology users, developers, and providers.
 - Identifying novel technologies, technology needs and the future lines to technology research in fresh/coastal waters.



Outputs and Outcomes

- Open the collaboration to the rest of the European neighbors. (Turkey, Egypt, Morocco, Tunisia,...)
- Collaboration with the rest of the marine world (USA, Japan, Australia, Sud-America, Dubai, China, ...)
- Create a World Wide Net of collaboration and assistance.



Products and Services

- Impulse develops of sensors depending on the **user's requirements**
- Resume the State of the Art of Sensors and Technology Evaluations
- Resume the State of the Art of Sediments and Water management
- Analyses of contaminated sediments/water



Products and Services

- Information Resources organizing workshops, database, training, surveys.
- Consulting about instrumentation (most adequate), develop (moorings, sensor platforms, etc), calibration (where and how) and maintenance
- Consulting about water/sediment management.



Products and Services

- Design cruises, continuous monitoring systems, data managing, software, customized water/sediment management systems, model calibration, etc. For users to do the managing, monitoring, and protection in those fields.



Near Future Lines

- OPEN the line of Underwater Construction
 - Evaluation new materials for the underwater construction (Concrete, Metals, Resins, Plastics, ...)
 - Corrosion, Fouling, Protection, ...
 - Consulting about the underwater construction. (Harbors, Pipelines, Beaches, ...)
 - Develop the monitoring of the underwater works (Water movements into the Breakwaters,...)
 - Promote and Calibrate the models (Caissons and Breakwaters movements, ...)
- **Try to provide the top of underwater technology to the small countries or places, (Example Canary Islands)**



Structure

- HEADQUARTER

Venice Water Authority, ARMINES

- PARTNERS

Institutions with recognize prestige and a
real solve problems orientation

- USERS

Any institution involved in those topics



Organization

- **Annual workshop.** The users community council (Water/Coastal Managers, Manufacturers, Engineering Enterprises, etc) tell EWTC the present orientation and the future guidelines.
- EWTC will maintain strictly the orientation in each actuation