



All Regions Workshop #1, Barcelona 5-7th Sept. 2007



First « All regions Workshop »
Objectives of the workshop



The aim of ESONET is to promote the **implementation and European-scale management of a network of long-term multidisciplinary observatories in circum-European seas.**

This workshop was planned in the contract in the first 6 months to precise multi-disciplinary scientific objectives and to refine regional observatory definition:

- * multi-disciplinarity;
- * long-term;
- * transnationality;
- * open access.



This morning:

> Status efforts in North America and Europe;

> Presentations of the experience and of the science and technology achievements of existing European sub-sea initiatives and of other subsea observatories worldwide:

- only examples

- no time to present well known observatory projects like ASSEM or GEOSTAR-ORION

- emphasizing scientific programs needing observatories, multidisciplinary approaches and observatory systems:

- long term monitoring of deep sea floor and water column processes;

- ecosystems life;

- geohazards;

- global change;

-



This afternoon:

Review of proposed observatory sites around Europe:

- * **Scientific interests;**
- * **Technical aspects;**
- * **Proposal of demonstration mission on the site;**
- * **Implementation plan;**
- * **Stakeholders and financing bodies:**
- * ...

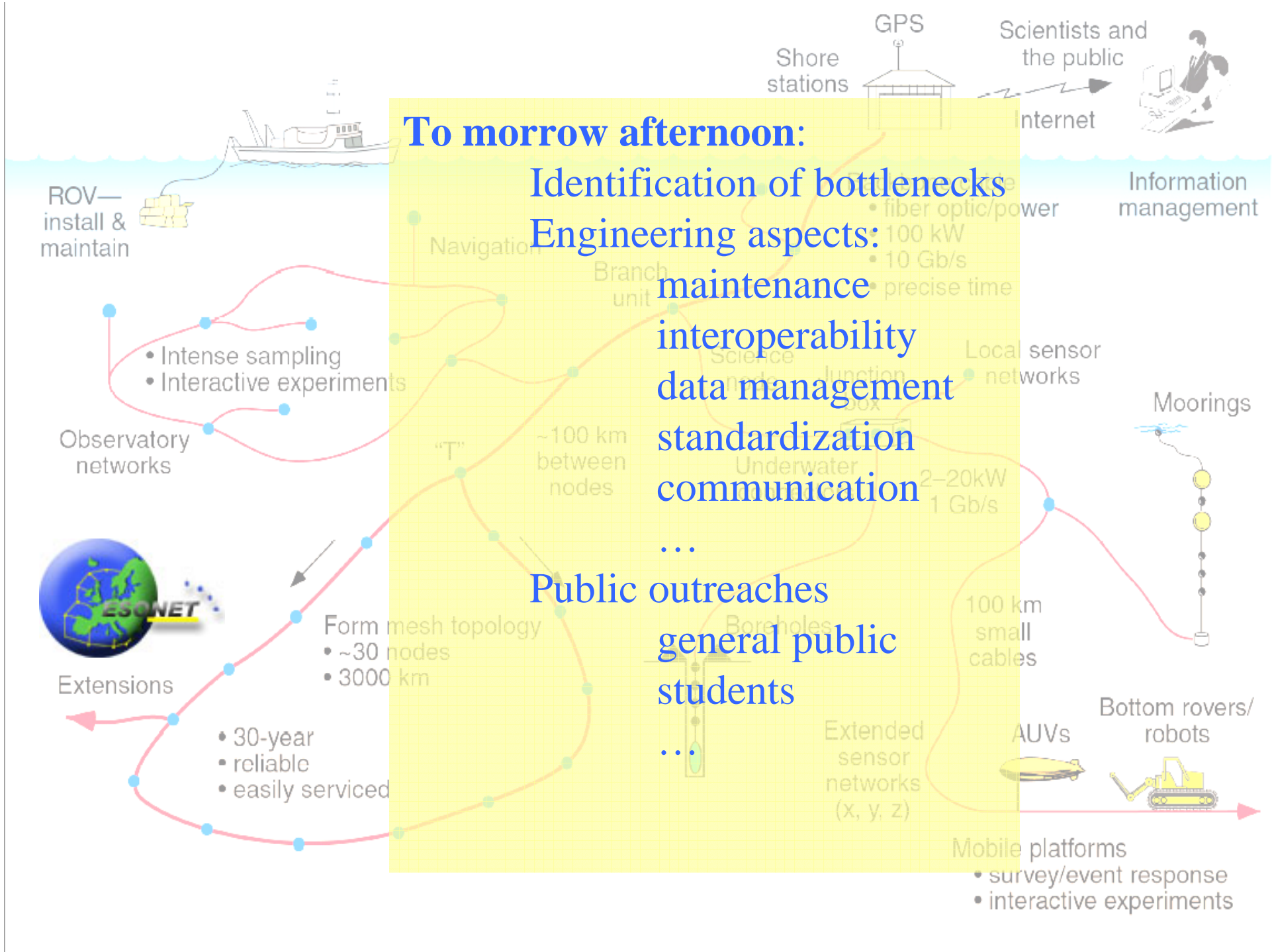


To morrow morning

Working group activities focusing on major thematic and strategic objectives nodes:

- * What are the scientific questions which are requiring long term observatories and/or real time measurements?**
- * How proposed sites would contribute to the studies around these questions?**
- * Is networking crucial?**
- * ...**





To morrow afternoon:

Identification of bottlenecks

Engineering aspects:

maintenance

interoperability

data management

standardization

communication

...

Public outreaches

general public

students

- fiber optic/power
- 100 kW
- 10 Gb/s
- precise time

- 2-20kW
- 1 Gb/s

- Form mesh topology
- ~30 nodes
- 3000 km

- 30-year
- reliable
- easily serviced

- survey/event response
- interactive experiments

Friday morning:

Conclusions:

Working groups in links with WP's

Links between ESONET and EMSO

(ESONET is the scientific and technical component,
EMSO is the infrastructure aspect)

International cooperation

...





Objective of the meeting?

To answer to these questions:

- What scientific questions require an observatory system at an European scale?**
- What kind of observatory is required (acoustic linked observatory, cabled observatory?)**
- How to deploy and maintain a network of observatory around Europe?**
- How to manage the data ?**
- How chose the sites and prioritize them?**
- How fund their implementation?**
- ...**

To constitute working group on critical points

(For example servicing of the European network)

To prepare the formation of **Regional Implementation Committee** for each site as soon as possible in link with EMSO.

OUTPUT from the workshop:

A report has to be published in the next 6 months:

asking for a **secretary for each parallel session
constitution of a **writing group** around the co-
chairs**



GOOD WORK

