

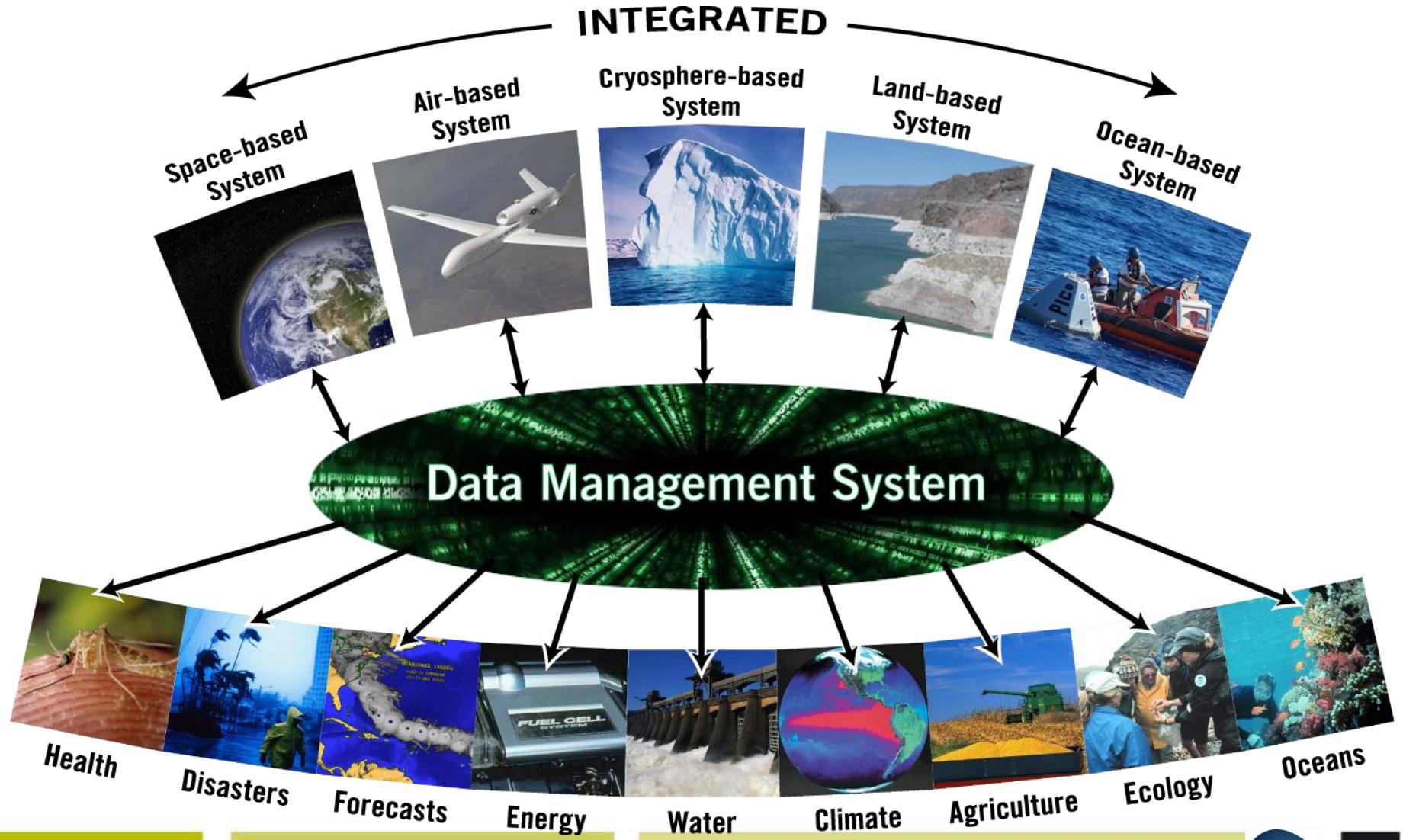


Bretagne Télédétection Brittany Remote Sensing

GIS BreTel
Scientific Interest Group

René GARELLO

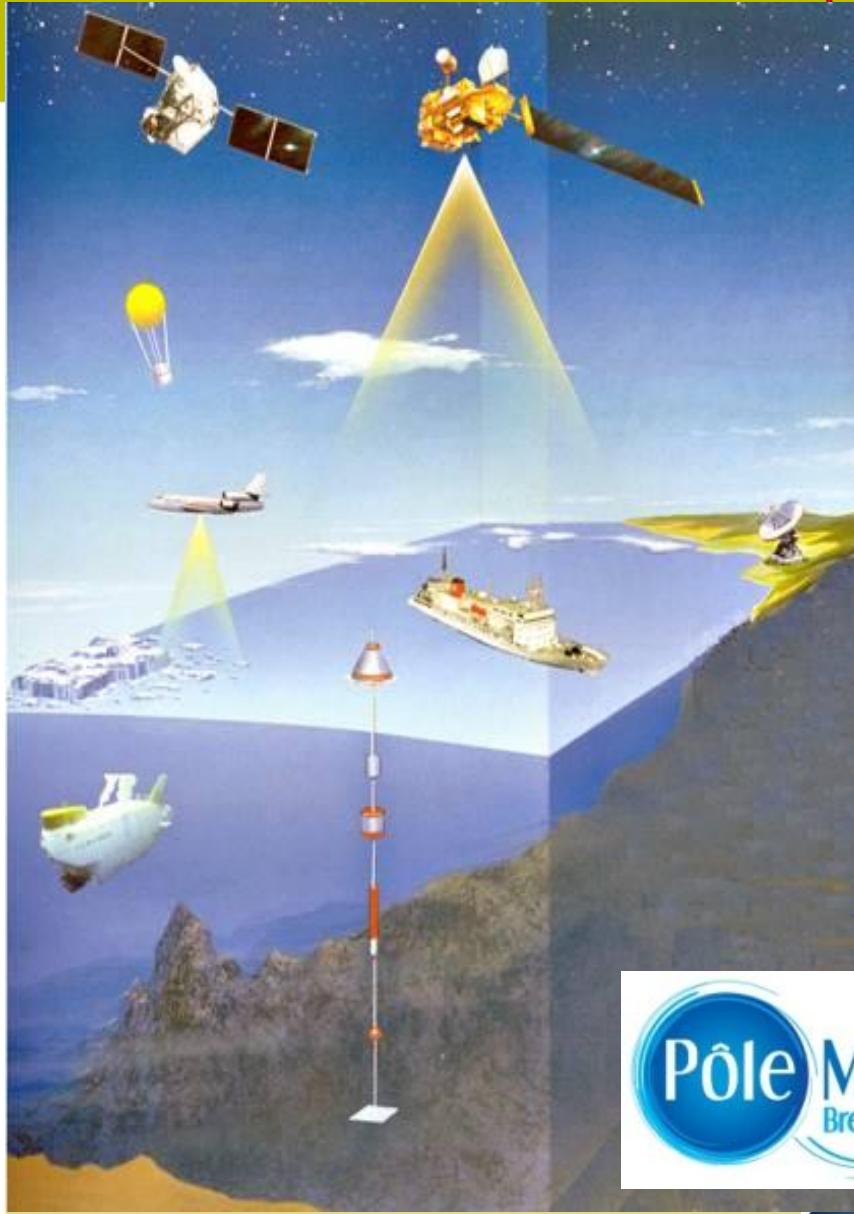




Observations, Information, Decisions



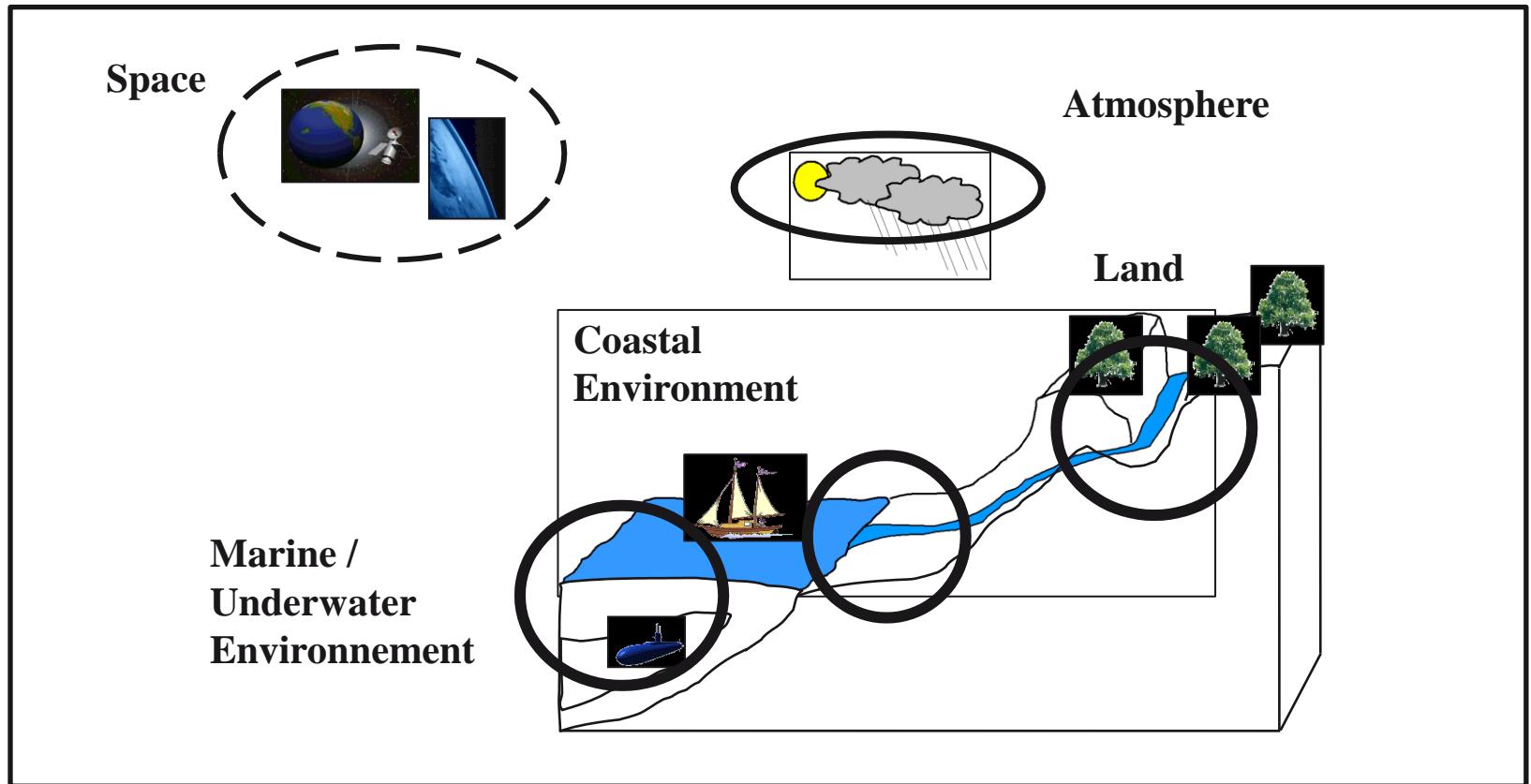
- Means (satellite, *in situ*, underwater vehicles, ...)
- Models
- Geophysical parameters (physics, chemistry, biology)
- Observations / Measurement
- Processing
- Interoperability
- ...



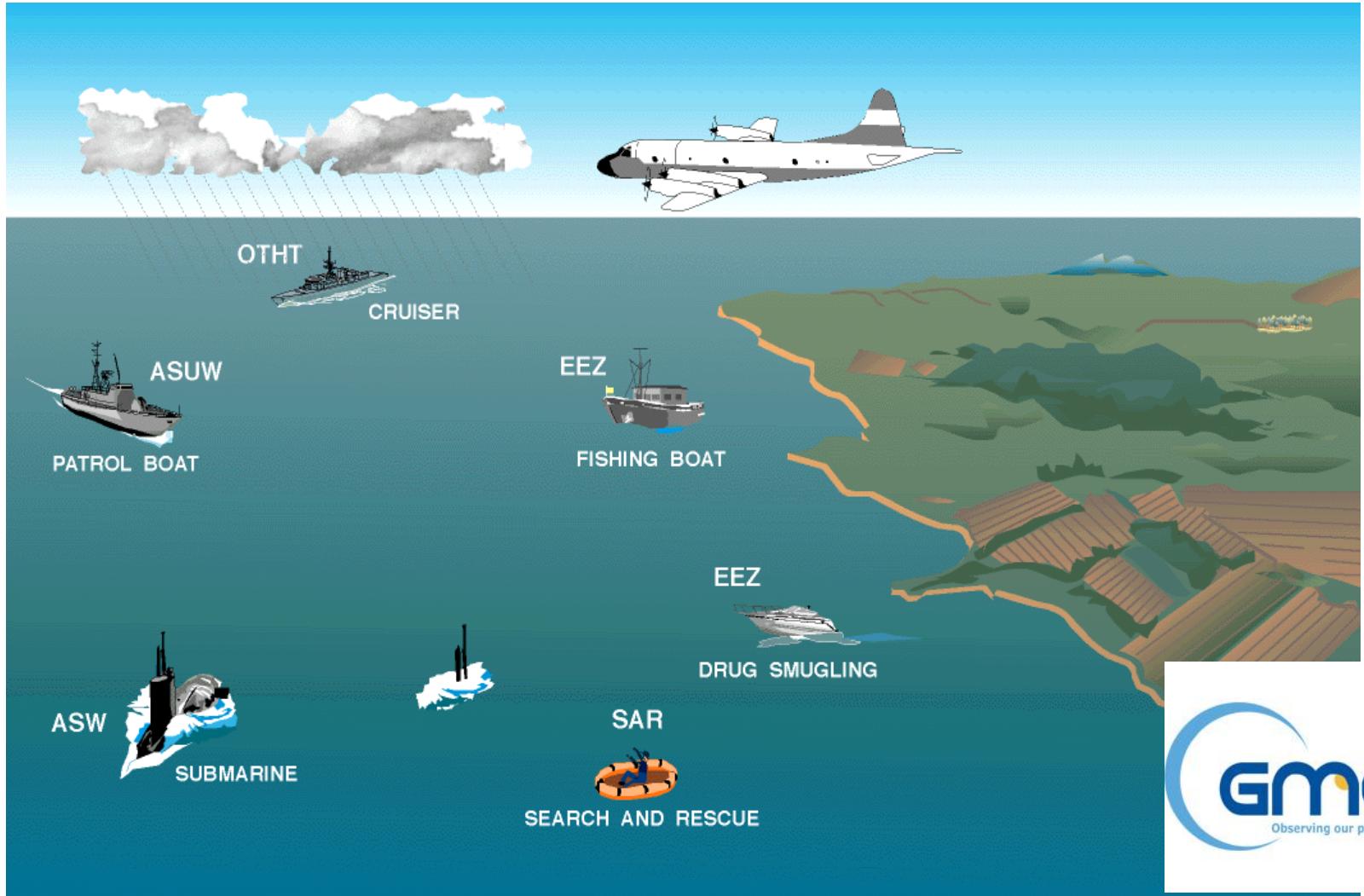
Monitoring of the Environment



■ 5 Main themes



Global Monitoring for Earth and Security/ GMES



Partners



GIS BreTel: Goals and objectives

■ Research

- Federation of academic research teams
- Development of collaborative projects:
 - Industrial,
 - European initiatives (GMES, GEOSS)
 - Agencies: ESA, CNES, ...
- Improved knowledge on environment and applications on safety and security

■ Development of a high level set of courses (MSc) in Remote Sensing

- Multi-sites
- Topics: Acquisition – Processing- Thematics



■ European Initiative NEREUS (Network of European Regions Using Space technologies) / GMES

Scientific Topics



■ Expertise and developments

- Sensors (signal processing / antennas)
- Data Processing (signal/image, synergies)
- Environment and physics (interactions wave/surface)

■ Interactions

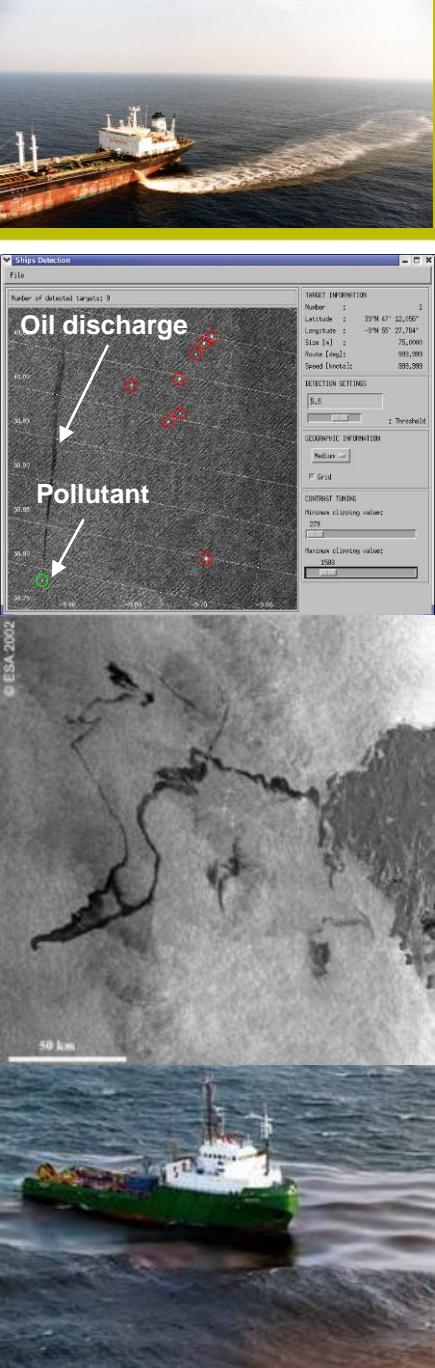
- « Thematic » Teams
 - Geographers, oceanographers, ...
- « Methodologies » Teams
 - Information Processing (ICT)

VIGISAT receiving ground station



■ Brittany Region / Europe support for the use of VIGISAT SAR data (ENVISAT, RadarSAT, SENTINEL)

■ Brittany, reference Region for Remote Sensing



Environmental Monitoring

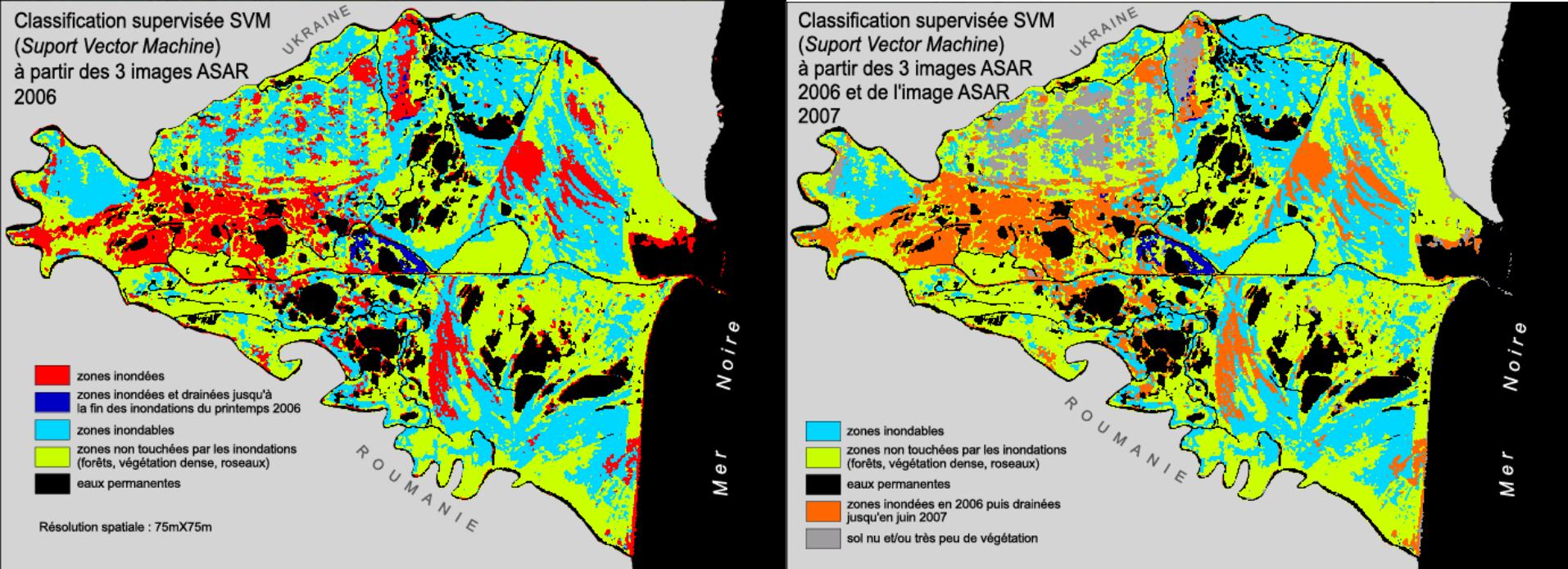


■ Pollution monitoring in sensitive zones

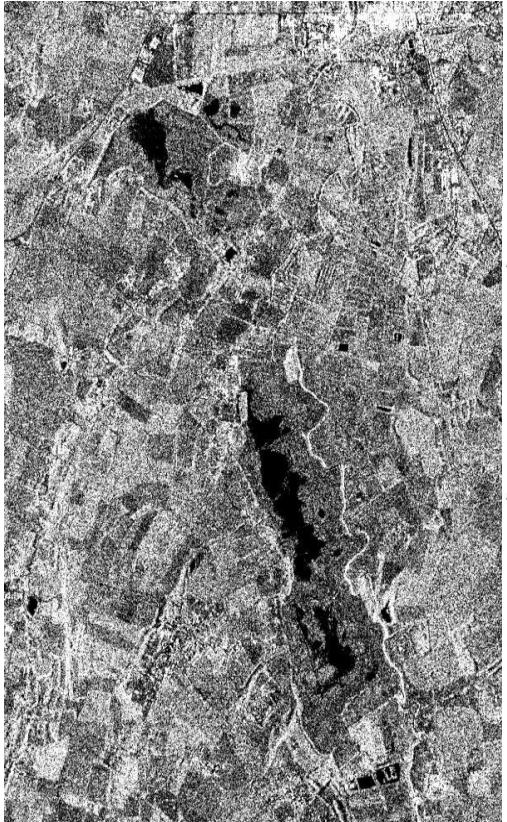


Potentially floodable regions

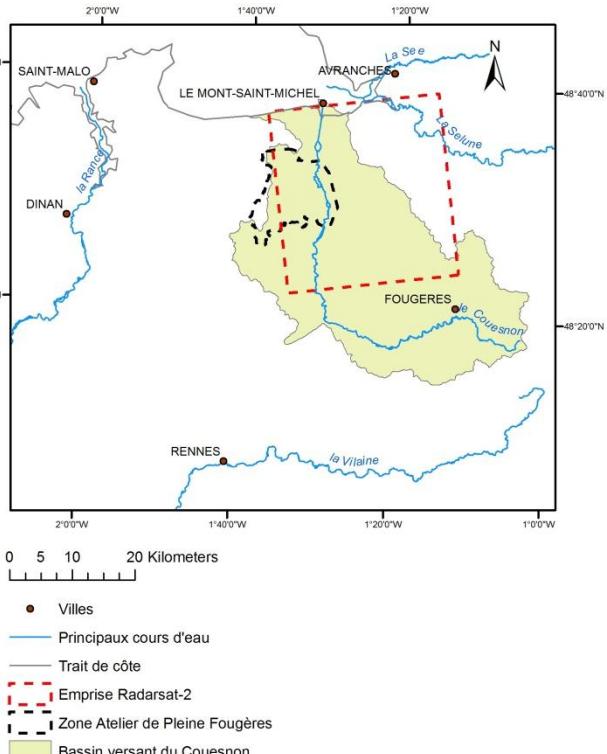
■ Data fusion before/after floods in the Danube delta region



Synergy (RadarSAT2, ALOS/AVNIR2) SOAR- EU project

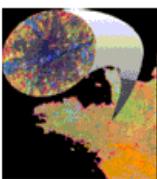


■ Monitoring and mapping wetlands



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GIS BreTel First Workshop



COSTEL UMR CNRS 6554 LETG
UFR Sciences Sociales Rennes 2



May, 31 – June 1 2012