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UNIDAD DE TECNOLOGÍA MARINA

Unidad de Tecnología Marina. CSIC Marine Technology Unit. 2007



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Summary

- History
- Infrastructures
- Organization
- Issues of interest

History

- Born as UGBO in 1994 to provide technical Support to R/V HESPERIDES under the umbrella of Spanish Research Council (CSIC).
- 1997. Support to the Spanish Antartic Program and R/V García del Cid.
- 2002. Change name to UTM and location to new premises.
- 2004. Begin new RV project.
- 2007. R/V sarmiento de Gamboa officaly delivered to CSIC.

Infrastructures

□ On-shore premises

- **Offices:**
 - Main office: Barcelona. CMIMA.
 - Atlantic Office. Vigo
- **Logistics:**
 - Main office: Barcelona. CMIMA.
 - Barcelona port. Warehouse
 - Cartagena. Warehouse
 - Atlantic office. Vigo.

Infrastructures

□ Research platforms:

- Ships:

- R/V Hesperides. [1991].

Length: 82 m.

Operator: Spanish Navy. Base: Cartagena.

- R/V García del Cid [1973].

Length: 37 m.

Operator: CSIC. Base: Barcelona

- R/V Sarmiento de Gamboa.

Length: 62 m.

Operator: CSIC. Base: Vigo

□ Laboratories:

- Spanish Antarctic base: BAE Juan Carlos I.
Location: Livingstone Island. Antactica.

Infrastructure locations



Shipyards, Fleet

Workshops, mechanics



HEADQUARTERS

- Direction
- Management
- Technical Dept.

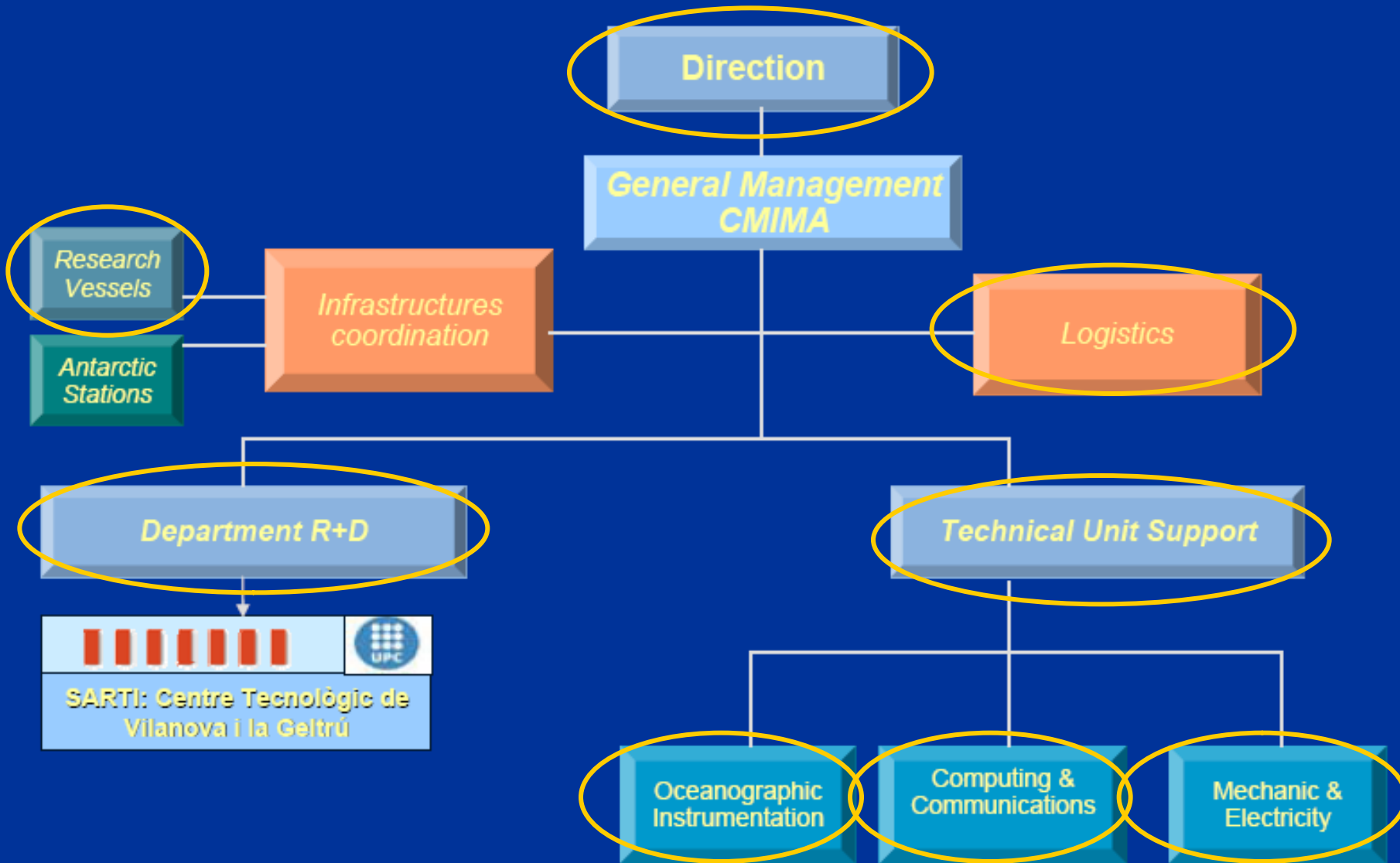


Islas Canarias



Shipyards, Fleet

Workshops, mechanics



OCEANOGRAPHIC INSTRUMENTATION

OCEANOGRAPHIC

- CTD
- LHPR
- Nu-SHUTTLE
- SEASOAR (New)
- LADCP (New)

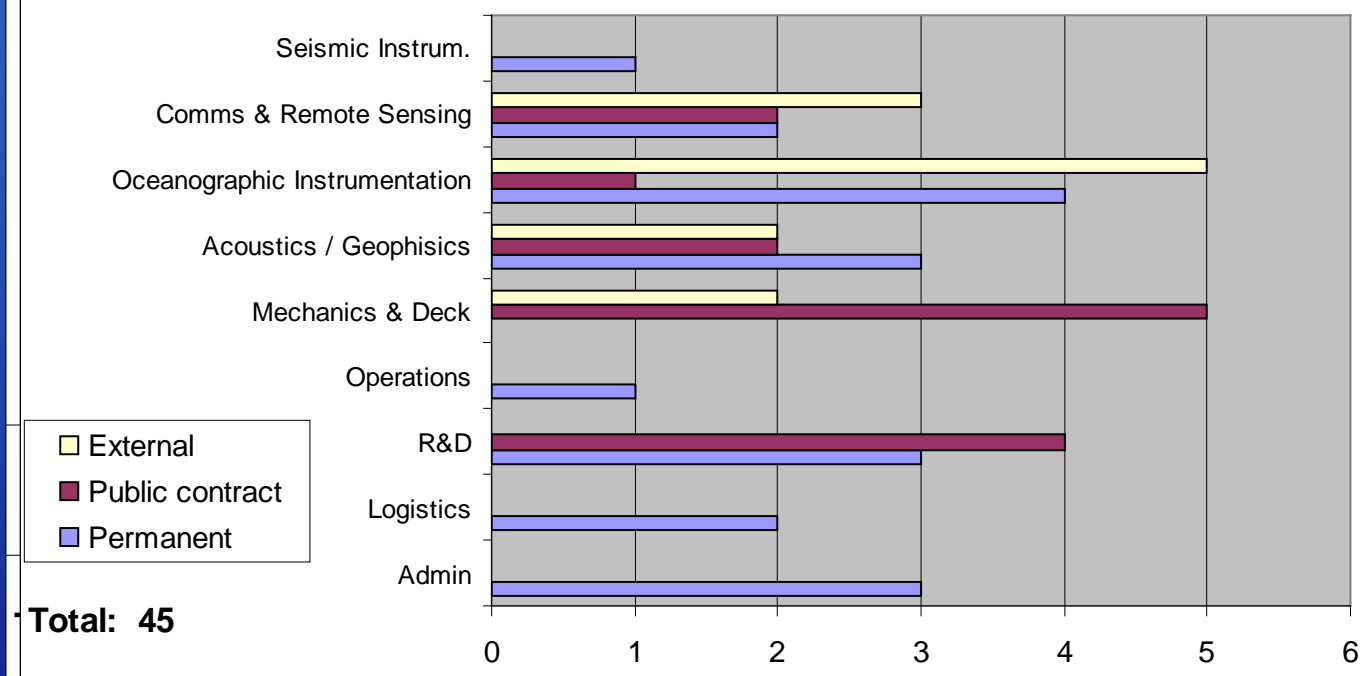
- CTD Test tank

ACOUSTIC & GEOHPYSICS

- MBES (KS, Atlas, Elac)
- SBES (Hydro & Bio) (KS)
- ADCP (RDI)
- POSITONING
- GRAVITY
- MAGNETICS
- DEEP SIDESCAN (DT1)

- SEISMICS
 - New digital 6K streamer End 2008
 - OBS (WHOI model)

CONTRACT DISTRIBUTION 2008



- 2 more external contracts to be defined on 2008

Work with other partners (not OFEG)

- Geomar OBS deployment on Hesperides. (2005)
- JAGO Geomar deployment on García del Cid. (Sept. 2007)
- Victor 600 Capability on Sarmiento de Gamboa (Jan 2008)

Issues of interest.

- Technicians cross training.
- Joint Calibration facilities
- Marine Mammal protection:
 - ❖ Mitigation.
 - ❖ Ship's noise reduction & characterization.
 - ❖ Early Detection (pool of instruments?).
 - ❖ New instrument specifications.
- Operational management.
- Standards? (cables, connectors, procedures...)
- Bioacoustics
- New technologies (comms, vehicles, biological MB, Deep sea observatories)

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Thank you very much
Questions ?