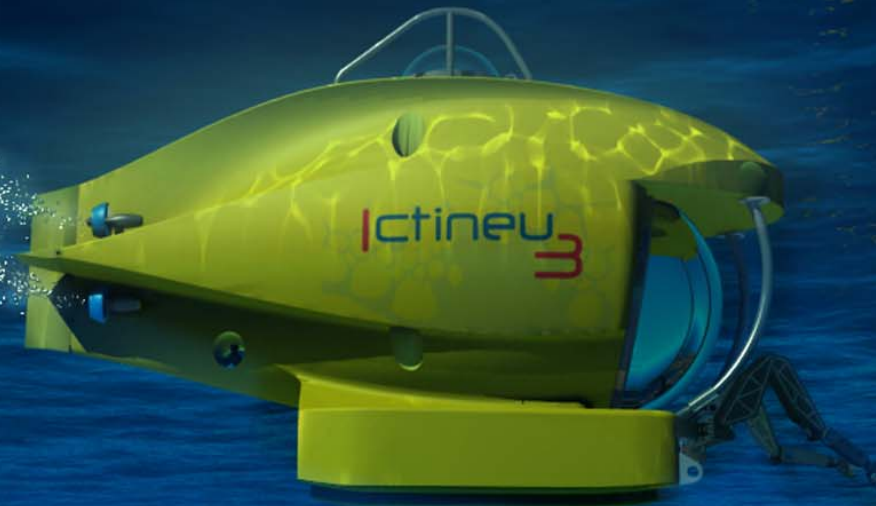


# Research opportunities with Ictineu Submarins and ICTINEU3

*A modern manned submersible for scientific research and  
intervention*



*Alex Alcocer, PhD [aalcocer@ictineu.net](mailto:aalcocer@ictineu.net)  
Ictineu Submarins S.L. [www.ictineu.net](http://www.ictineu.net)*

*The Ocean of Tomorrow InfoDay - Brussels, 9th September 2010*



# Ictineu Submarins



## *About us:*

- Highly technological company founded in 2007 in Barcelona, Spain
- Company members have broad experience in managing and participating in EU funded research projects

## *Objectives:*

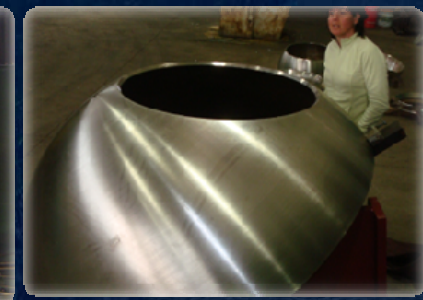
- Experimentation platform for universities, research centers and institutions
- Introduce several technological breakthroughs in the manned submersible industry
- Contribute to the protection and better understanding of our oceans

# The ICTINEU 3 submersible



## ICTINEU 3 main specifications:

- ✓ Operative depth: 1200m
  - ✓ N. Passengers: 3
  - ✓ Dimensions: 4.8 x 1.9 x 3.0 m
  - ✓ Weight: 5 tones
  - ✓ Autonomy: 8h
  - ✓ Emergency life support: 5 days
  - ✓ Emergency buoyancy: 1100kg
- 
- ✓ Excellent visibility: 150° acrylic viewport
  - ✓ Light and small for ease of transport
  - ✓ High modularity and payload capability
  - ✓ Advanced navigation and control systems



# Research :: Technology



## *Underwater technology development and demonstration platform:*

- Lithium Ion battery solutions for underwater applications
- Advanced navigation, positioning and control systems
- Underwater robotic systems
- Mechanical/Electrical design
- Composite materials



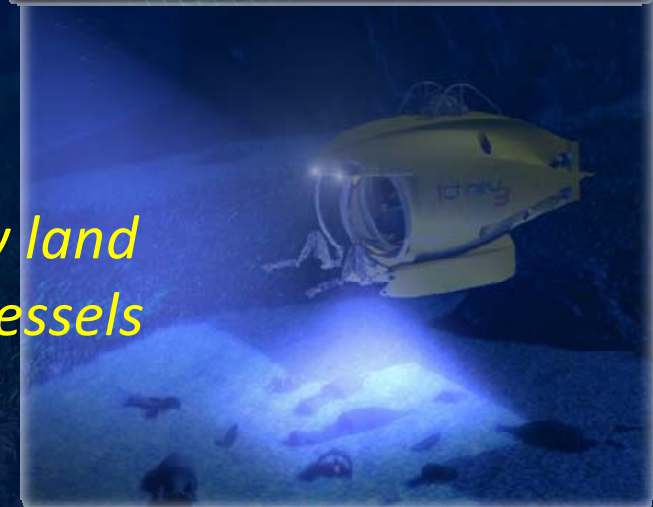
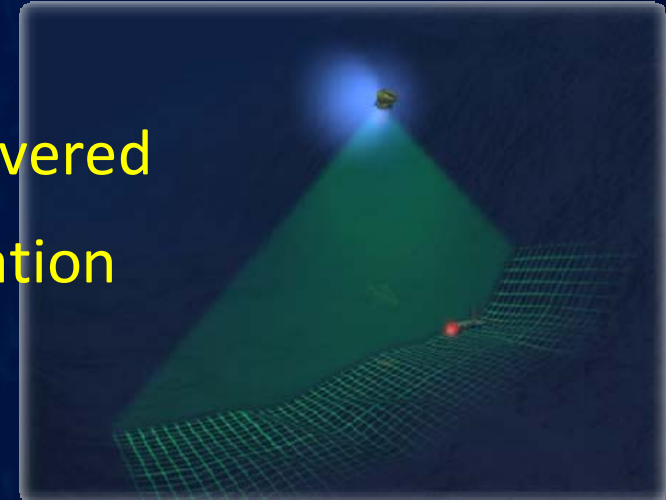
*Topics OCEAN.2011-1 and OCEAN.2011-4*

## Research :: Environment



### *Versatile research platform:*

- Deep seabed research: 50% of MED covered
  - Earth Observation: Satellite data validation
  - Offshore platforms inspection
  - Oceanographic Surveying
  - Environmental impact assessment
- ✓ *Sub is lightweight and easy to transport by land*
- ✓ *It can operate from most oceanographic vessels*
- ✓ *Operations starting end of 2011*



*Topics OCEAN.2011-2 and OCEAN.2011-3*

**Ictineu**  
S U B M A R I N S

We are looking forward to  
collaborating with you!



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Thanks for your attention!