



**STRENGTH at sea**



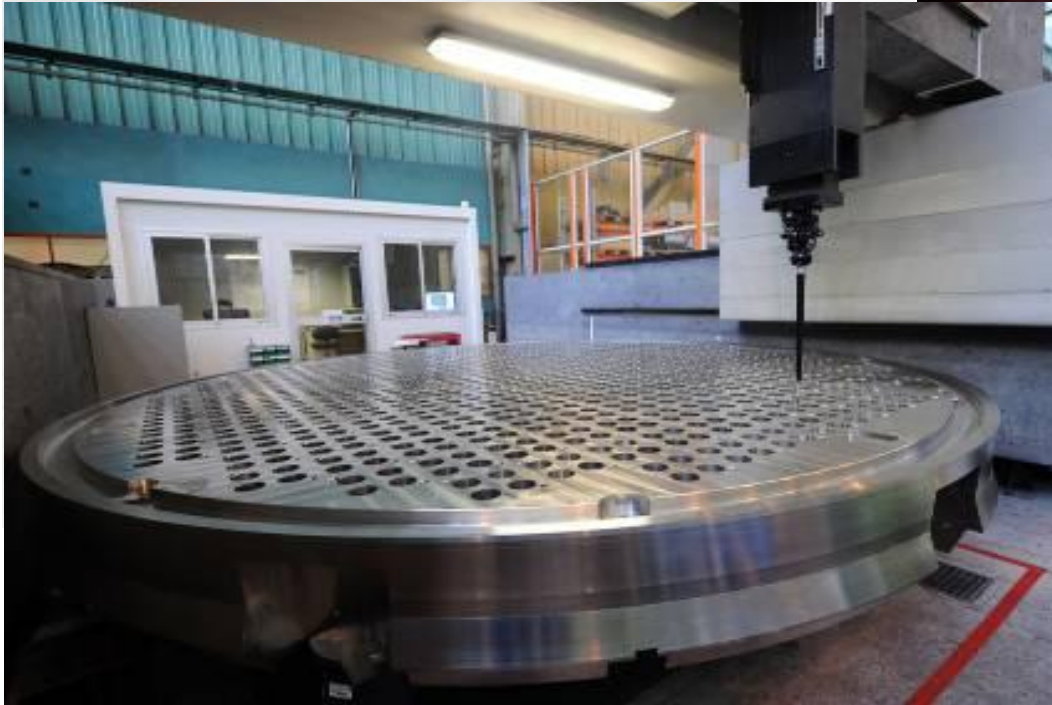
# FP7 Maritime Transport Brokerage event 2011 London



8th of September 2011  
London

# DCNS

A world leader in naval defence.



An innovative player in energy.

# DCNS at a glance



**2,5** billion euros  
in revenue

**6,9** billion  
euros in order  
intake

**12 502**  
employees

**1/3** of revenue  
from int'l sales &  
cooperation  
programmes

*2010 key figures*

# 10 sites in France



# The corporate technological research centre



**Creates value  
and  
competitiveness**

**Enhances  
creativity and  
innovation  
capabilities**

**Strengthens  
our national  
and  
international  
leadership**

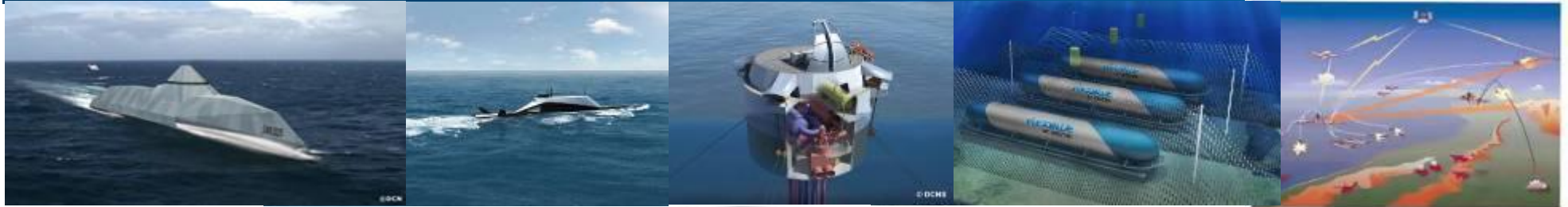
DCNS  
Research

DCNS

# Principal Technology Challenges

- **Simulation based engineering and multi-physics optimization**
- **Mass reduction (composite topside, welding, fatigue)**
- **Signature reduction (RCS, noise, IR)**
- **Dynamic modeling of the environment (waves, currents, winds, noise)**
- **Autonomous vehicles**
- **Alternative energies**
- **Securing and extending multi-platforms cooperation**
- **Environment preservation**
- **Enhanced security (fatigue, corrosion, behavior in extreme seas)**

# Organization



Theoretical Hydrodynamics CFD	Onboard Embedded Systems	Physics Chemistry Corrosion	Algorithmic	Acoustics
Experimental Hydrodynamics	Mechanical & Energy Systems	Mechanical tests Metallography	Software Architecture	Electro magnetism
Propellers and Propulsors	Automatic Control	Non Destructive Controls	Cyber security	Multi-physics Optimization
Drones	Fluid-Structure Interaction	Material Science	Human Factors	

**SIREHNA**  
**CESMAN**  
**CEMIS**



# Five areas of expertise



- **Naval architecture**
- **Engineering**
- **Shipyard management and ship assembly and integration**
- **Equipment design and production**
- **Through-life support (TLS)**

# Naval defence activities



- **Design and construction of integrated surface combatants and major naval systems** (complex warship equipments and combat management systems)
- **Design and construction of submarines and major naval systems** (complex warship equipments and combat management systems)
- **All services solutions including through-life support (TLS) for ships, systems and equipment**

# FP7 SST Experience

## ● POSE2IDON

- « Power Optimised Ship for Environment with Electric Innovation Designs ON board »
- DCNS partner
- SST-2007-RTD-1

## ● SILENV project

- Ships oriented Innovative soLutions to rEduce Noise & Vibrations
- DCNS coordinator
- SST-2008-1-1-3

# Topics of interest

- **SST.2012.1.1.1-1 : Assessment and mitigation of noise impacts of the maritime transport on the marine environment**
- **SST.2012.5.2-3. Innovative structural and outfitting materials for ships including inland ships**
- **SST.2012.5.2-5. E-guided vessels: the 'autonomous' ship**
- **SST.2012.5.2-6. E-Maritime in support of compliance management**
- **SST.2012.4.1-1. Human element factors in shipping safety**
- **TPT.2012.1-1. Forum to help implementing the future orientation of the overall transport system as defined by the White Paper**
- **TPT.2012.3-2. Bringing innovative products and services to the market : analysis of pathways and best conditions for innovation**

# Contacts

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