

Technopôle Brest-Iroise : the dynamics of innovation

Operating at the interface between those involved in research and in business and using innovation as a tool for regional development, the Technopôle Brest-Iroise initiates and heads up joint ventures aimed at :

- Facilitating the transfer of technologies between partners.
- Offering ongoing support to companies in developing their expertise and conquering new markets.

A dynamic that has fuelled creation of the Brittany's Maritime Cluster.

Groups have been formed on the basis of this business and research partnerships initiated by the technopôle Brest-Iroise :

- In the area of Marine Science and Technology :



G2RA Underwater acoustics

This group draws up collaborative projects involving the design and manufacture of products aimed at opening up new markets in the following sectors :

- Offshore oil
- Underwater cabling
- Fishing and fish farming
- Oceanography
- Environment



HALIOD Offshore oil industry

This group offers equipment and services, technological development facilities and training in the following fields :

- Underwater acoustics and robotics
- Meteorology and oceanography
- Shipbuilding hydrodynamics
- Environmental safety and protection



LITTORALIS Integrated coastal management

This group provides a consultancy service to coastal area managers, farmers and industrialists.

Its aim is the promotion and protection of coastal zones.

- In the area of Information Science and Technology :



Telecommunications for intelligent transport systems (ITS-T)

Developing innovative new products, services and telecommunications systems for the urban, road, private, maritime and air transport market.

- Skills forming the basis of the federated development programme
- Antennas and Propagation
 - Sensing Technologies (Radars, Lidars, etc.)
 - Transmission Technologies
 - Virtual Reality,
 - Embedded Electronics
 - Device and Circuits Technology



MITS FOR SAFER SEAS

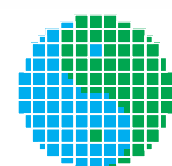
An international cooperation programme to develop new global & standard solutions for maritime safety and security

- Technologies : GIS, GPS/Galileo, Space observation, Telecommunication, AIS/LRIT, Sensors, Terminals, ...
- Applications : Risk management, Transport, Fisheries, Environment, Search and rescue, Offshore.

IROISE

High speed, mobility and convergence in data communication

- Test the new generation of broadband networks combining "Triple Play" video, voice and Internet in one medium.
- Help companies anticipate market developments.



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Side development partners :

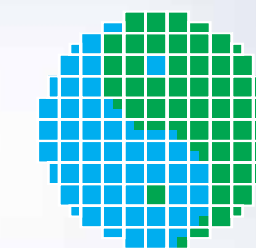


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TECHNOPÔLE BREST-IROISE

The
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Technopôle Brest-Iroise

Technopôle Brest-Iroise is a science and technology park which provides an environment for companies, research laboratories, graduate engineering schools and university departments. These are located on a large greenfield site in western France.

In 2005, 3 Brittany centres of excellence received official government recognition – Brittany's Maritime Cluster, Media and Networks, Valorial and Top-of-the-Range Vehicles. The international dimension of Brest three centres of excellence – Marine Science, Information science and Technology, Life sciences — has been a strong element of this recognition.

MARINE SCIENCE AND TECHNOLOGY

Brittany's Maritime Cluster

Recognised international remit focusing on 5 growth market themes:

- Maritime safety and security
- Ship engineering, maintenance and services
- Exploitation of marine energy resources
- Environmental and coastal management
- Exploitation and development of marine biological resources

60 % of marine research in France is based in Brest, representing Europe's highest concentration of research and development in this field. This R&D focuses in particular on :

- Oceanography (physical, operational, etc.)
- Integrated management of the environment and of marine resources (ocean and coastal ecosystems, marine geosciences, maritime safety, etc.)
- Underwater and offshore technology (acoustics, robotics, etc.)

INFORMATION SCIENCE AND TECHNOLOGY

Media and Networks Competitiveness Cluster

Recognised international remit based on 7 areas:

- Image chain services
- Images on the move
- Image networks
- Electronic content distribution
- security networks for content and personal data
- acceptance, interoperability and convergence platforms
- Virtual and enhanced reality in a network

45 % of ICT research in France is based in Brittany (in Brest, Lannion and Rennes). Expertise centred on Brest, a major component of this Brittany-based, highly competitive technological excellence, is positioned in 4 fields :

- Digital communications
- Telecomm optics
- Information and signal processing
- Virtual reality

LIFE SCIENCES

Valorial Competitiveness Cluster

One central research and application theme

- "The food of tomorrow" - 4 priority areas:

- Nutrition/health
- Food technology
- Microbiology
- Food processing ingredients

Strengthened by its food processing industry and specialisation in Health and marine industries, Brest aims to develop as a centre of excellence in life sciences with particular reference to the following :

- Food safety
- Nutrition
- Marine biotechnology (economic development of hydrothermal micro-organisms, cosmetics, etc)
- Bio-informatics (design of medicines, proteomics, etc)

