

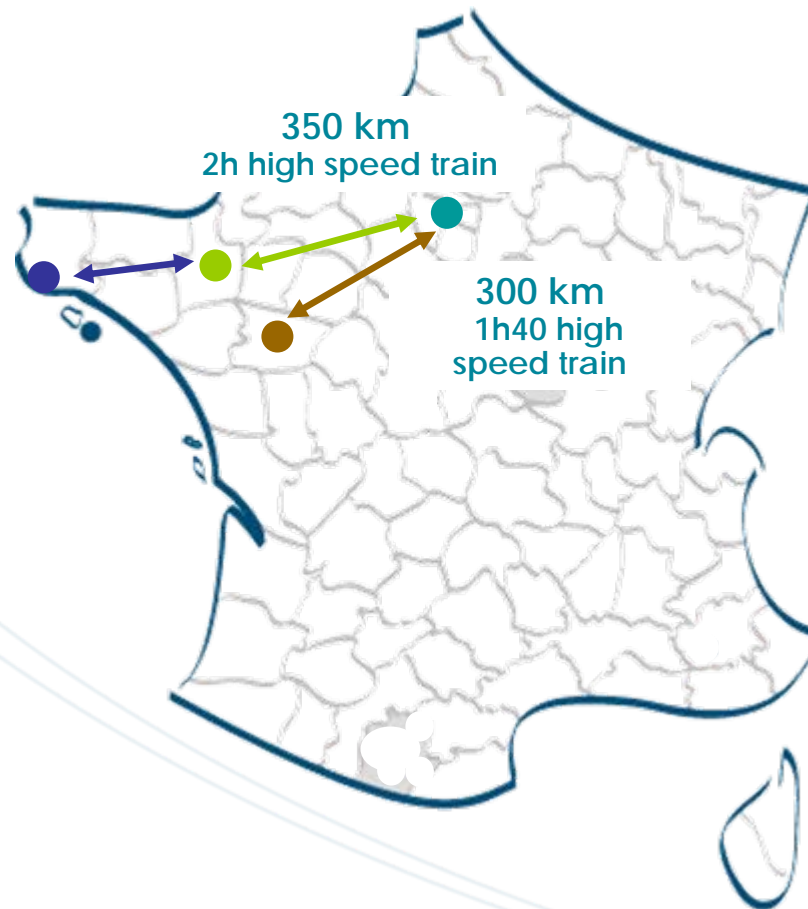
# Support for Agricultural Education in France & Studies in marine sciences and aquaculture

« To support agricultural education in the acquisition of the skills needed for sustainable development and to promote innovation in school farms »



*Brigitte LE HOUEROU, Catherine PETIT*  
Irdning, Austria - October 2011

# Localisation



- Rennes
- Angers
- Beg Meil
- Paris



AGROCAMPUS OUEST is a higher education and research public institute of the French **Ministry of Food, Agriculture and Fisheries**

## Domains « Food & living environment »



- Innovative and sustainable agricultural production systems
- Sea, environment, landscape : integrated management of natural resources and landscape (rural and urban environments)
- Food and food production



- 1880 students, including 130 PhD students
- & 15% international students

- 150 full-time faculty members including 135 research lecturers spread among:
  - **11 academic departments**
  - **18 research units featuring more than 500 scientists**
  - **250 administrative and support staff**
- 500 part-time lecturers (professionals from industry and researchers)
- 3 transdisciplinary centers →





# Research



a partnership strategy



IRD

IFREMER

CEMAGREF

CIRAD

## 7 areas – 18 units

- **Livestock Production Sciences (dairy production, animal and human nutrition)**
- **Horticulture, Crops and Seeds (genetics, plant pathology, biotech.)**
- **Environment, Landscape and Sustainable Development (ecology, soil science)**
- **Bio-industries (milk and egg) and food Safety**
- **Sea and Seashore (sea resources and aquaculture, coastal management)**
- **Economics and Policies (environment, agriculture and marine resources)**
- **Biomathematics (sensory analysis)**

# The site of Beg-Meil

The site of Beg-Meil is located in the south of Brittany, a famous place for agriculture, fisheries and tourism.



## 28 people :

- Project managers,
- Teachers,
- Research officers,
- Administrative staff and cleaners

## Facilities

29 rooms and a restaurant

Classrooms and meeting rooms



a marine hatchery



## 2 main objectives :

- ▶ To develop sustainability
- ▶ To link higher and vocational education



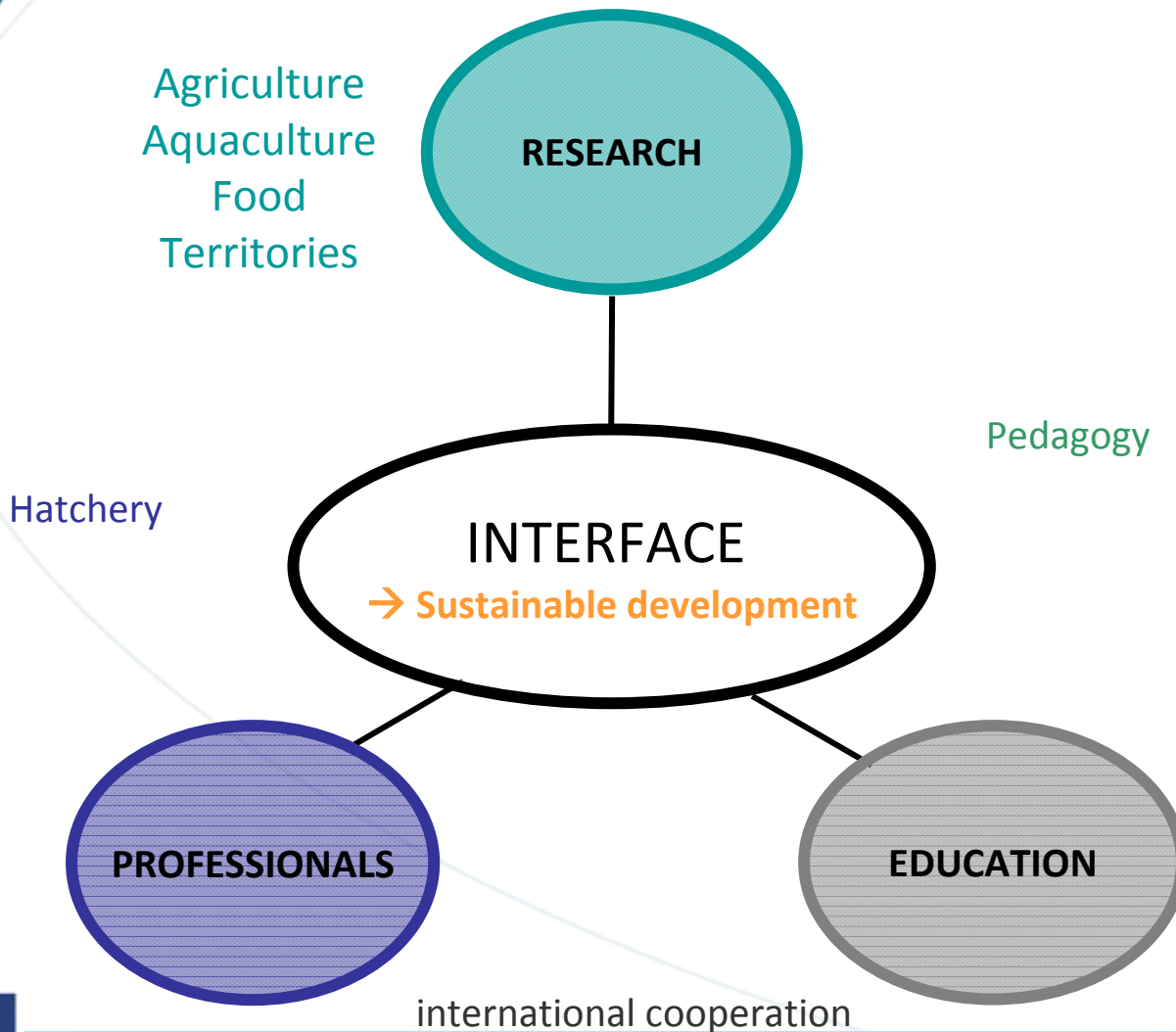
## Different topics...

- Agriculture, Food, Economic development of rural areas, Fisheries and aquaculture

## And missions for success :

- Support for vocational education in France
- R&D : food, sustainability, agriculture and biodiversity, aquaculture, environment, management of the coast and landscape ...
- Develop links between professionals, research and education and managing networks





## Definition :

« resources and teams working to help teachers and trainers to develop and integrate **social, pedagogical and technical innovation** »



## Missions :

- Manage educational networks
- Develop new practices in education
- Help pedagogical teams to apply new regulations, course standards and innovations
- Develop links and projects with researchers and professionals
- Propose training for teachers
- Create pedagogical tools

**Objective :** to innovate in vocational agricultural education to help the acquisition of the skills needed for sustainable development

## Two complementary approaches :

- At the scale of the school farm, through a **global pedagogical project**
- On a specific theme : **agriculture and biodiversity**



# School farm global pedagogical project

## 3 Objectives :

- To study the pedagogical uses of school farms
- To identify pedagogical innovations in school farms
- To support teams in the writing of their school farms global pedagogical project



**Duration :** 2010-2012



## 3 Objectives :

- To study and assess how agricultural practices and biodiversity can influence each other
- To make two different trades work together: « Agricultural production » and « environment management »
- To support a new national network in charge of observing and measuring the impacts of agricultural practices over biodiversity



# Agriculture and biodiversity

## Main partnerships

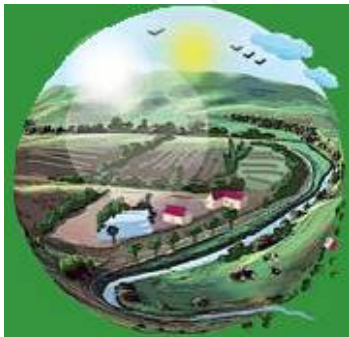


### Research

- Agrocampus Ouest – Rennes (2003)
- INRA SAD-Paysage (French National Institute for agricultural research)  
<http://www.rennes.inra.fr/sad>
- UMR Ecobio (Ecosystems Biodiversity Evolution), University of Rennes 1 <http://ecobio.univ-rennes1.fr/news.php>

### Development

Trough DAR IBIS Project (2008-2010) :  
partners from agricultural and environmental fields  
(advisement centers, technical institutes, associations...)



### Training and other support institutes

- Network : 18 agricultural schools in France
- French biodiversity education network
- 2 others National Institutes to support Agricultural Education (CEZ Rambouillet, SUPAGRO Florac)
- The french Ministry of Agriculture and Fishing

# Agriculture and biodiversity

## Results (1/2)

### Co – productions :

- A new diagnosis method called « I.B.I.S » (Integrate Biodiversity in farming system) and focussed on ordinary biodiversity
- Continuous training during the project
- Pedagogical experimentation with teacher teams to test this new tool and to blend students from 2 agricultural training programmes « Agricultural production » and « Environment management »



# Agriculture and biodiversity

## Results (2/2)

### Co – productions :

- Collective meetings :to exchange about good practices, to share experiences...
- Generalisation : continuous trainings on new tool and other scientific knowledge to make them become standard
- New project : support of national network « Observing the influence of agricultural practices on biodiversity » 18 agricultural colleges



# Thank you for your attention



Photos : R. Bertran, H. Laguerre, C. Petit, J.F. Suat, I.B.I.S Project