

The new diagnosis method « I.B.I.S »

A research-development-training conception and pedagogical experimentations (agricultural education)



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Purpose : to produce a **diagnosis method** about agriculture and biodiversity

- ▶ at farm's scale,
- ▶ linked to the territories stakes
- Call for project of the french Ministry of Food, Agriculture and Fisheries (DAR= Agricultural and Rural Development, 2007)
- Project Management : one Regional Chamber of Agriculture (Centre Region)

Duration : 3 years (January 2008 - to December 2010)

A multi-partnership project

- Consideration of biodiversity within farms :
 - a recent and complex concern,
 - calling upon various skills (agronomy, ecology, understanding of agricultural systems...)
- ➔ Necessitating joint work from different trades, linked to :
 - agricultural development,
 - environment,
 - wildlife management,
 - research and training

Main specificities

- **A global farm diagnosis**
 - Taking into account the **territorial context**
 - Integrating **ordinary biodiversity**
- **A diagnosis – advice approach**
- **Based on expertises and exchanges between :**
 - **Agricultural skills**
 - **Ecological skills**
- **Application field :**
 - Production systems : mixed crop/husbandry systems, field crop systems
 - Environment : open field → bocage

A set of resources

2. To diagnose

1. To inform

3. To advise



A 4 step implementation by an agricultural – naturalist pair

- Une **pre-analysis** based on :
 - study of territorial stakes
 - analysis of the farm's mapping
 - Preliminary questionnaire asked to the farmer
- Complemented by :
 - **Farm visit** and exchanges with the farmer
 - **further naturalist investigations**
- **Results : a report including :**
 - mapping,
 - synthesis scheme and framework,
 - summary of biodiversity issues,
 - action plan

Open-Access Resources

- I.B.I.S CD-Rom
- I.B.I.S works

➔ See I.B.I.S website :

<http://www.centre.chambagri.fr/developpement-agricole/I.B.I.S.html>



Pedagogical experimentations in agricultural technical education

**I.B.I.S approach implementation by formations
Production training (HDN ACSE) et
Environnement training (HDN GPN)**

Analysis and outlooks

**EPL Bréhoulou FOUESNANT (29)
EPL Saint Aubin Du Cormier (35)
EPL Châteaulin - Morlaix (29)**

**Support of AGROCAMPUS OUEST Site de Beg-Meil
And the French biodiversity agricultural education network**

Twin objectives for agriculture education :

- To study and assess interactions between farming practices and ordinary biodiversity
- To remove barriers between trades and to mobilize skills of the «agricultural» training program and of the «environnemental» one

*Production,
production, ...herbicides,
fungicides...with all your
products in «-cide », do you
realize you are polluting our
earth ?
You would have to take care
of !!!*

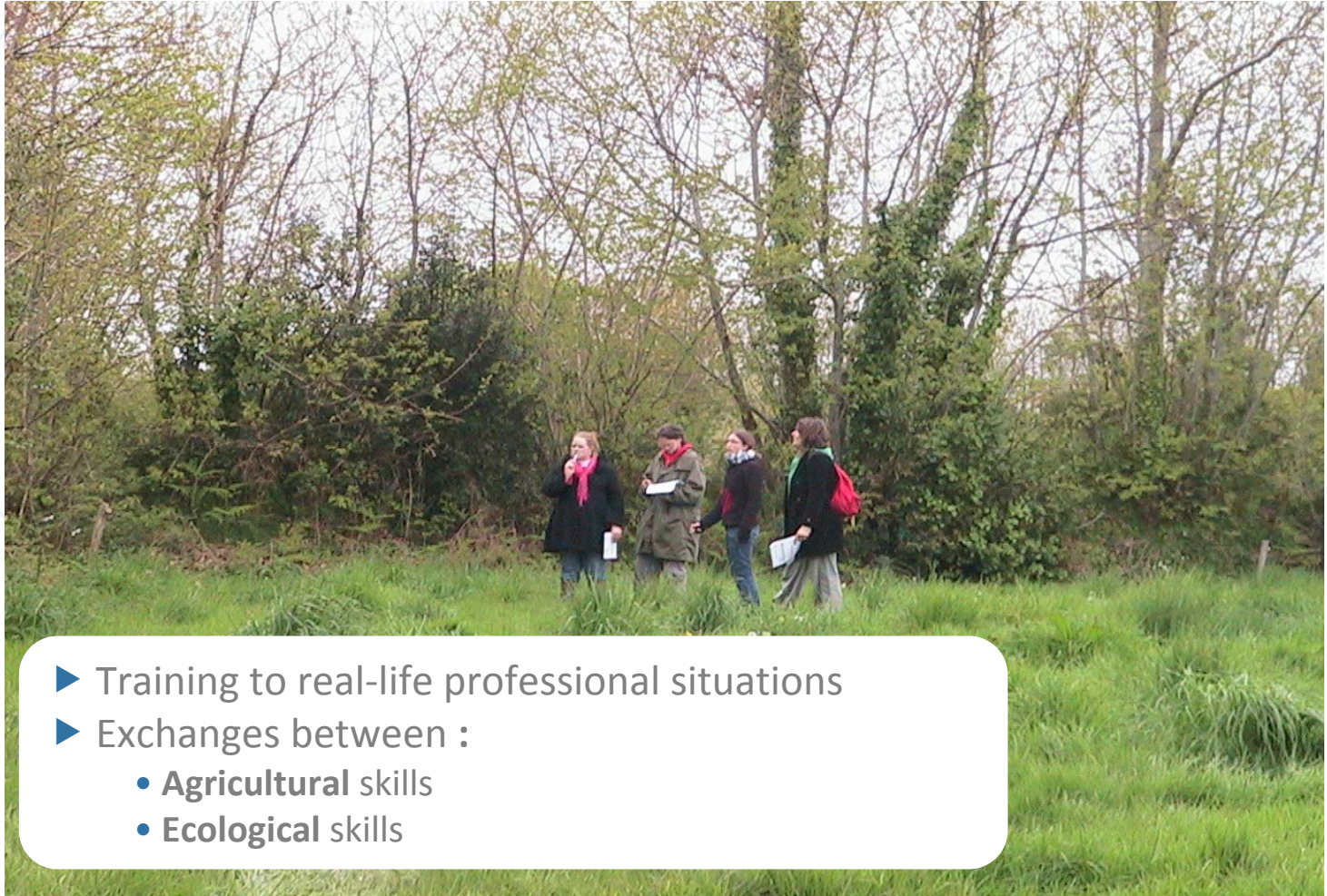
*If we could do
without « cides » !
The Earth is our
livelihood !!! We
aren't so stupid to
pollute It !!!*

*Production,
production, it is a
legacy from the
past, it is not so
easy for us to think
Ecology*

HDN "Nature"

HDN " Production"

Implementation : inter training programs



- ▶ Training to real-life professional situations
- ▶ Exchanges between :
 - **Agricultural skills**
 - **Ecological skills**

Collective synthesis scheme

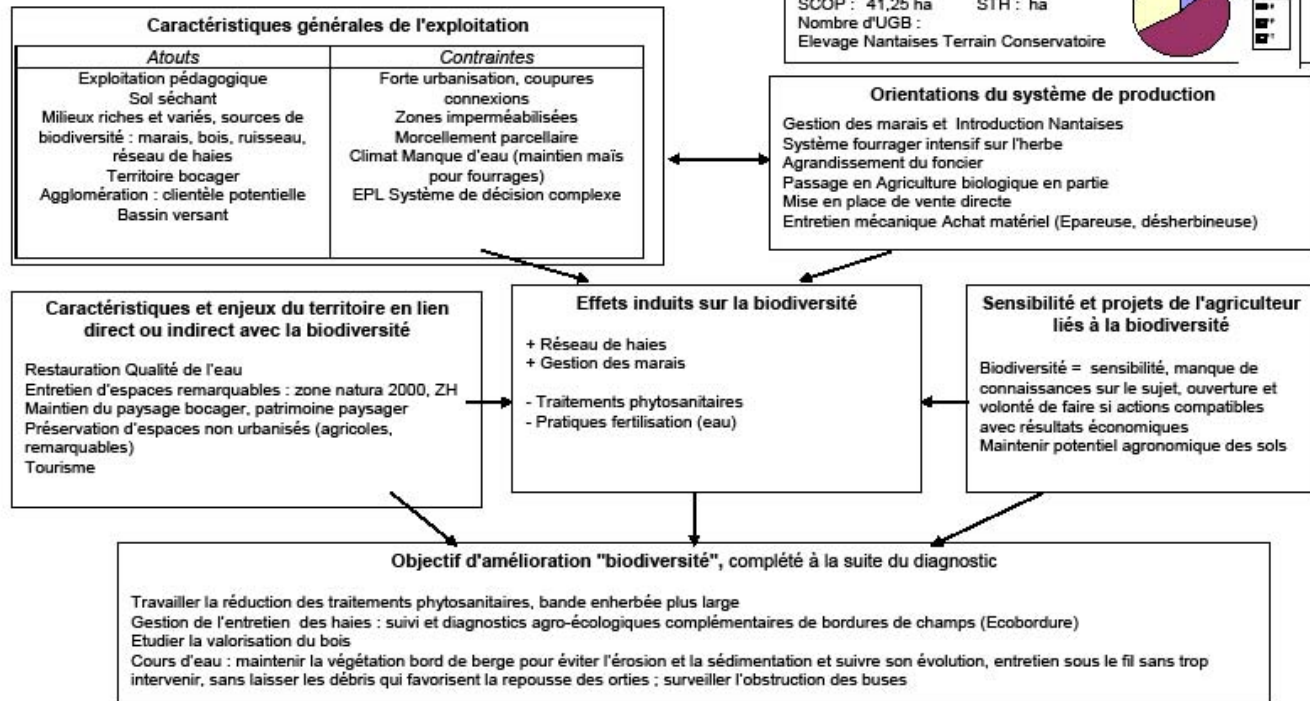


Schéma de synthèse "Diagnostic-conseil"

Pour restitution à l'agriculteur et travaux IBIS

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Diagnostic réalisé par les BTS 1 ACSE Fouesnant et GPN de St Aubin Du Cormier



Conditions for success

- Pluridisciplinarity : disciplines , job functions
 - Agronomy, animal husbandry, Economy, Biology-Ecology, GIS, Socio-Cultural education
 - Teachers, trainers and school farms manager
- Precondition : learning from experience
 - Continuous training of teachers and trainers of both training programs
- An upstream pedagogical workshop :
 - Collective preparation and pedagogical scripting

Agriculture & Biodiversity

HDN "Production"

Experience teaches us that the project must be economically viable, reconcile economy, ecology and work organisation and can't change everything overnight

It's possible, changing hedgerows maintenance practices, to act for ecology



HDN "Nature"

Nowadays, we can't work separately because agriculture and biodiversity are 2 major territorial economic stakes

It's important to get more familiar to farming, first of all to understand the logique



Analysis

- I.B.I.S a mobilizing partnership
 - Team professionalization through contribution in a Research Development Training project
 - Team mobilization over time (support necessity )
- I.B.I.S a stimulating partnership
 - Team commitment and results production
 - Innovation : inter-training programs and inter-School works, new partnerships 

- Other experimentations to consolidate these ones :
 - Other study level,
 - linked with territorial stakes
 - In partnership with local organizations
 - In complement of other approaches
- Generalization :
 - National training multi-partners
 - With the national biodiversity agricultural education network

Thank you for your
attention