

# Atlantic Dairy Systems and Environment (Green Dairy)

## Interreg Project Atlantic Area

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## Background

- Milk production in Atlantic Area : about 30 % of production in EU and one of the most important industry
- Oceanic conditions but a large range of climatic conditions
- Dairy systems : from 100 % grassland to 100 % maize !!
- Dairy systems are intensive (from 1,5 to 6 LSU/ha) with environmental problems (nitrogen leaching, ammonia emissions, phosphorus run off)

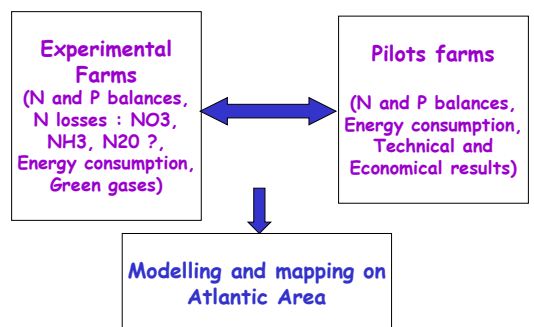
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## Aims of the project

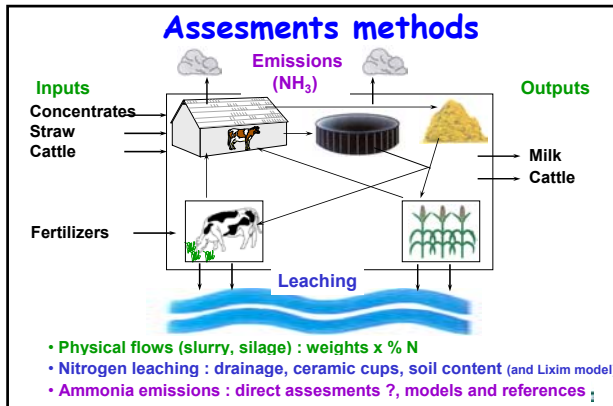
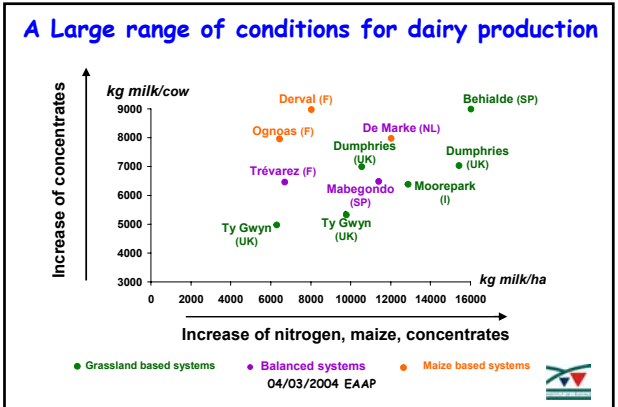
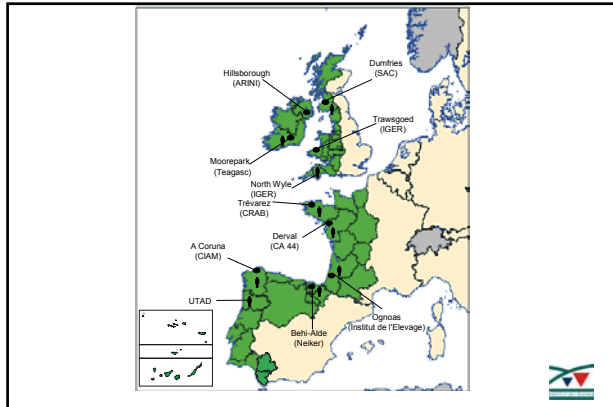
- To precise impact of intensive dairy systems on nitrogen losses and others environmental impacts (P, energy consumption, green gases) in various conditions (many questions about intensity level, part of grassland and maize, milk production per cow, manure policy, etc...)
- To precise the optimal part of grassland and maize according to local conditions and different aspects (production costs, market demand, landscape, animal welfare)
- To increase relationships and contact between scientists, advisers and farmers through Atlantic area

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- ### Main measurements in pilots farms (1/2)
- N and P balances : inputs (fertilizers, concentrates, livestock, fixation) – outputs (milk, meat, crops)
  - Slurry and FYM flows
  - Registration of all fertilisers per crop (organic and inorganic N, P,K)
  - Crops (maize, cereals) : weights / estimation
  - Grassland : number of grazing days
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## Main measurements in expe. farms (2/2)

- Nitrogen leaching : soils contents (0-30, 30-60,60-90 cm) just before the drainage period (mid October) ?
- Ammonia emissions : by using models and references (..., ???)
- N2O emissions : conversion factors method ? (cf F. Aarts)
- Energy consumption : fossil energy consumption, energy balance
- Pesticides

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## Internal communication

- Newsletter of information : progress of the work, visits of coordinators, questions and answers (every two months)
- Website
- Sharing and distribution of different reports

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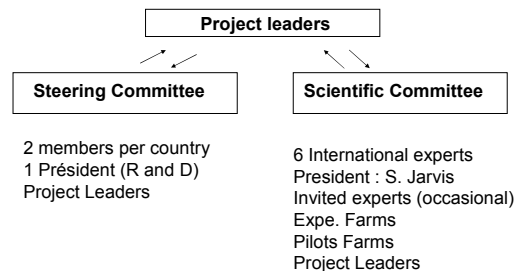
## External communication

- One paper per year in farming press about the work on experimental farms and/or pilots farms network
- One open day per year on this topic associating experimental and commercial farms visits
- A final seminar : synthesis of results, questions and proposals to perpetuate the network (70-100 people)

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## Coordination



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## Coordination : 1. Project leaders

- **Who ?**
  - General coordinators (A. Le Gall & A. Pflimlin)
  - Experimental Farms Network leader (H. Chambaut)
  - Pilot Farms Network leader (A. Pflimlin)
  - Modelling and Mapping leader (D. Scholefield)
  - Financial officer (J.C Stettler)
- **General Tasks**
  - Having bilateral contacts and visits with all partners
  - Administrative and financial aspects (contracts)
  - Meeting preparation : Steering and Scientific Committees
  - Reporting to all participants
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  - Meeting once a month to the Interreg Secretary
  - Writing a newsletter to all participants every month
  - etc.

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## Main phases of the project

	Year 1				Year 2				Year 3			
	1	2	3	4	1	2	3	4	1	2	3	4
Steering Committee	X				X				X			
Scientific Committee	X					X			X			X
Experimental Farms Network									X		X	
- meeting	X			X	●		X		X		X	●
- reporting												
Pilot Farms Network									X		X	
- meeting	X			X	●		X		X		X	●
- reporting												
Modelling – Mapping									X		X	
- meeting			X				X		●		●	
- reporting												
Final seminar					●				●			X
Final report												●
Farmers visits				X			X					

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## Repartition of budget

Partner	Number of tasks	Intervention rate of the ERDF	% structure for ERDF help	% structure for total budget
Institut de l'Elevage technical work	4	50	14	16
Institut de l'Elevage coordination		50	4	5
Teagasc	2	69,4	12	10
SAC	2	50	9	10
ARINI	1	69,4	7	6
IGER	3	60,5	12	12
CRAB	2	50	9	10
CA 44	1	50	5	6
Neiker	2	50	7	9
CIAM	2	75	13	10
Portugal	1	75	7	5
<b>TOTAL</b>		<b>58,3</b>	<b>100</b>	<b>100</b>

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