ESF Member Organisation Forums on Research Evaluation Evaluation of Publicly Funded Research & Indicators of Internationalisation Paris, 9-10 May 2011

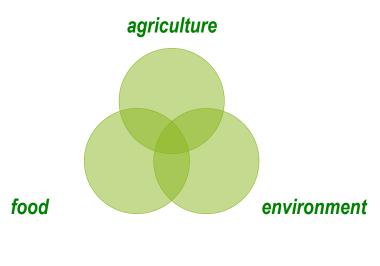
François Houllier, INRA



Missions

5 milestones

- 1946 : creation of INRA
- 1984 : INRA established as a public targeted research organisation at the crossroads of
 - Knowledge dynamics in life sciences
 - Society's expectations regarding agriculture and related industries
- 2000 : INRA strategic domain is extended to « agriculture, food, environment and territories »
- 2005 : the global nature of scientific issues in this domain is explicitly acknowledged
- 2010 : a new strategic plan for 2010-2020



"The inescapable interconnectedness of agriculture's different roles and functions"

8,532 full-tenure members of staff

more than **49%** of them women

21% of foreign researchers recruited

and **1,891** PhD students supervised

> € 772 million budget

Participation in **103** European projects

including **26** collaborative projects coordinated by the Institute under FP7

483 patents, software programs, databases and registered brands (2009)

une science

npact

INRA 2009, key figures

A community of 12,000 persons all over France

(permanent and temporary staff, PhD students, post-docs, members of associated organisations, ...)

	Global scientific profile (researchers)							
	68 % Life sciences							
	12 % Environmental, engineering and material sciences							
	8 % Biotechnical sciences							
4	8 % Economic and social sciences							
1	4 % Computational sciences							
ive /	Partnership							
	50 % of research results with academic institutions (national, European							
	and international)							
are nd	20 % with socio-economic partners							
9)	15 % anticipation, knowledge transfer and decision-making information							

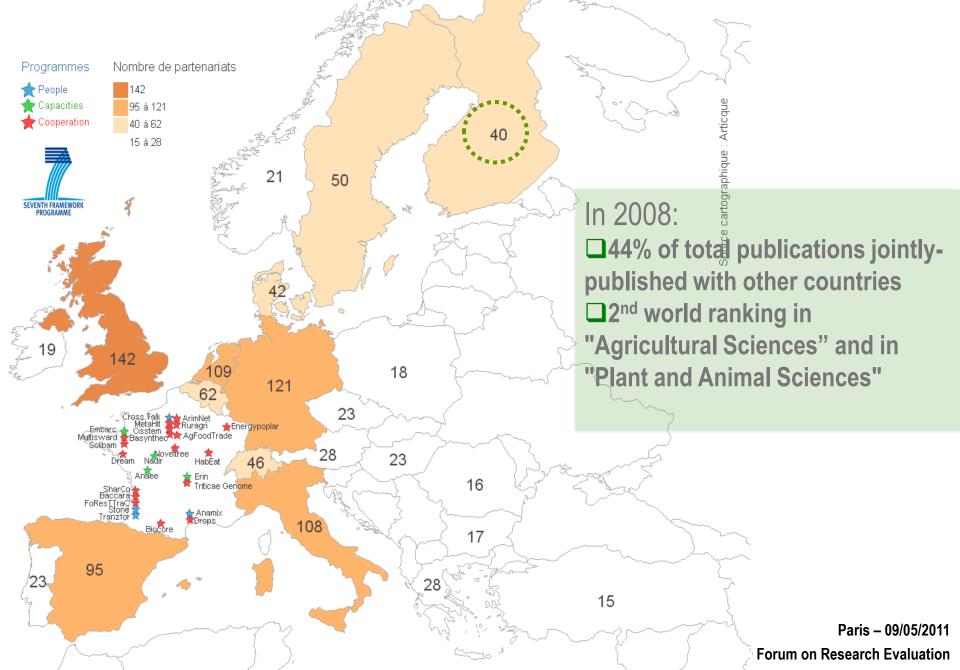
More than 30 % increase in scientific publications over 2001-2008 ...

Ахе	2001	2002	2003	2004	2005	2006	2007	2008
A. Environnement	17 %	17 %	16 %	20 %	21 %	25 %	22 %	26 %
B. Alimentation humaine	7%	8 %	8 %	9 %	13 %	11 %	13 %	12 %
C. Les produits et leurs transformations	18 %	18 %	17 %	16 %	16 %	18 %	16 %	18 %
D. Recherches génériques	15 %	15 %	15 %	11 %	13 %	12 %	15 %	17 %
E. Systèmes de productions agricoles	36 %	34 %	36 %	35 %	29 %	26 %	27 %	22 %
F. Organisation des acteurs, politiques publiques	7 %	7 %	9 %	8 %	8 %	8 %	8 %	6 %
Nombre total de publications	2581	2711	2741	2843	3067	3195	3473	3362*

... with a growing share in ecology/environment and food/nutrition sciences



An international research operator



INRA external assessment in 2009



Among the recommendations :

- Improve the international visibility
- Strengthen the already existing foresight and expertise capability
- Better assess the socio-economic impact of research
- Develop partnerships in food and environment

http://www.aeres-evaluation.fr/News/News/INRA-and-CEA-evaluation-reports





The strategic plan INRA 2010-2020 "Targeted research"

http://www.international.inra.fr/the_institute/new_scientifi c_priorities_for_2010_2020

Une science pour l'impact

INSTITUT NATIONAL DE LA RECHERCHE AGRONOMIQUE

From the context ...

Foresights, collective expertise and advanced studies ...



une science

Global Challenge FOOD and NUTRITION SECURITY Demography & urbanization Diet and health transitions Natural resources dependence Fossil carbon limitation Climate change: mitigation/adaptation

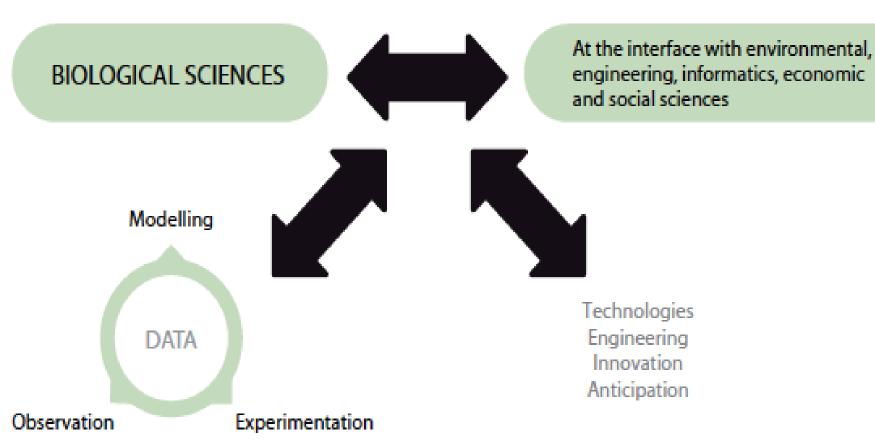
> ... as well as internal meetings (14 scientific divisions, 4 dedicated think tanks)

... to research priorities

The challenges of agricultural research



A systemic, integrative and multidisciplinary approach



The strategic plan INRA 2010-2020: scientific priorities

Global food security and global changes

- Integration of the economic, social and environmental performances of agriculture.
- Development of healthy and sustainable food systems.
- Attenuation of the greenhouse effect and the adaptation of agriculture and forestry to climate change.
- Valorisation of biomass for chemicals and energy.

Life and environmental sciences, economic and social sciences Pre

Agro-ecology Predictive approaches for biology

The strategic plan INRA 2010-2020: "science with impact"



- ... and 4 engagements
 - To become more international
 - To develop transdisciplinary programmes
 - On major societal issues or emerging scientific areas
 - Open to partners
 - As vectors of internationalisation
 - To strengthen expertise and foresight activities as well as advanced studies
 - To strengthen the role of regional centres in Institute's management and partnership
- ... with likely long-term consequences on research assessment as well as on indicators of internationalisation

Research assessment at INRA

At various levels, with a 4-5 year theoretical periodicity

- Individual level, every 4 years by independent panels appointed by INRA
 - Researchers, and engineers (different procedures)
- Research units, by independent panels appointed by AERES
 - From 10 to 200 permanent staff per unit
- Research divisions, by independent panels appointed by INRA
 - Cluster of research units, all over France, from 100 to 1000 permanent staff
- The whole institute, by an independent panel appointed by AERES



Research assessment at INRA

At various levels, with a 4-5 year theoretical periodicity

- Systematic reference to the wide range of missions and to the subsequent wide range of activities and outputs
 - Publications (of various types), innovations, biological resources, databases, software, partnerships, ...
 - EREFIN, a group of organisations interested in the evaluation of targeted research : http://www.obs-ost.fr/en/la-cooperative/erefin.html
- An increasing attention paid to outcomes and impacts, as well as to internationalisation
 - A dedicated project on the assessment of public research in agronomy

	Konowledge production	Partnership and network management	Transfer and communication
A. Academic actors			
B. Socio-economic actors			
C. Public policy makers			
D. Students		· · · · · · · · · · · · · · · · · · ·	
E. Citizens			
F. The unit			
201			



Research assessment at INRA

- At various levels, with a 4-5 year theoretical periodicity
- Systematic reference to the wide range of missions ...
- An increasing attention paid to outcomes and impacts, as well as to internationalisation
- A specific directorate in charge of research assessment
 - Apart from Human Resources
 - Not involved in recruitment procedures
 - In charge of the executive secretariat of the panels dedicated to individuals
 - In charge of the relationships with the National Agency in charge of research assessment (AERES)
 - In charge of managing the information linked to individual and collective assessments
 - In charge of monitoring changes in research assessment in France and in Europe and in suggesting adaptations in our procedures



Thank your for your attention ... and best wishes for this double forum on evaluation

