



# "Profitability of protein crops"

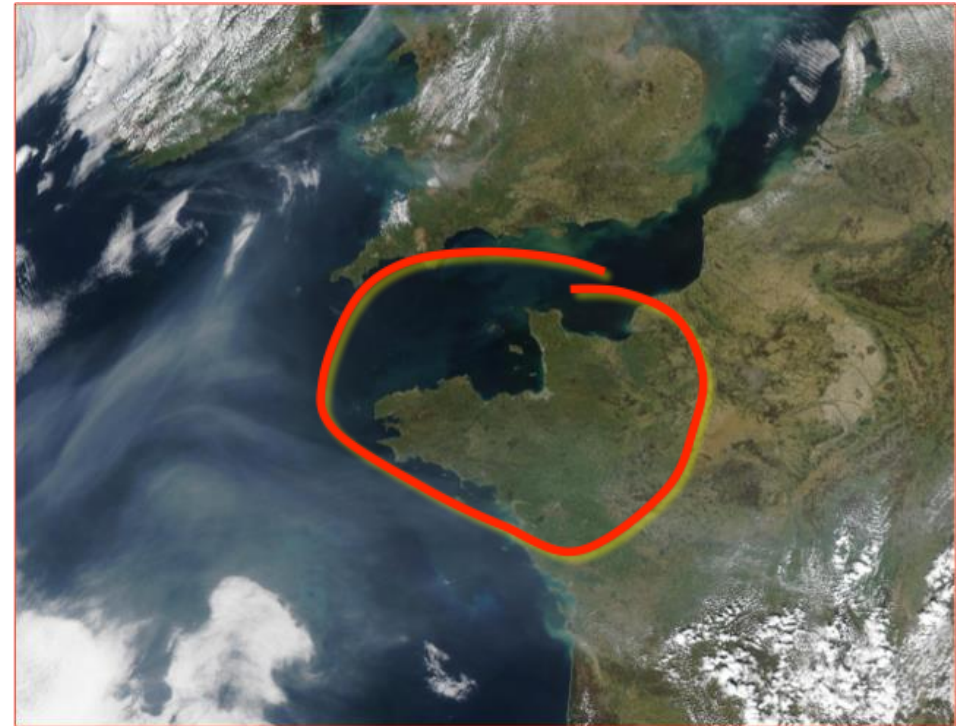
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# PÔLE AGRONOMIQUE OUEST

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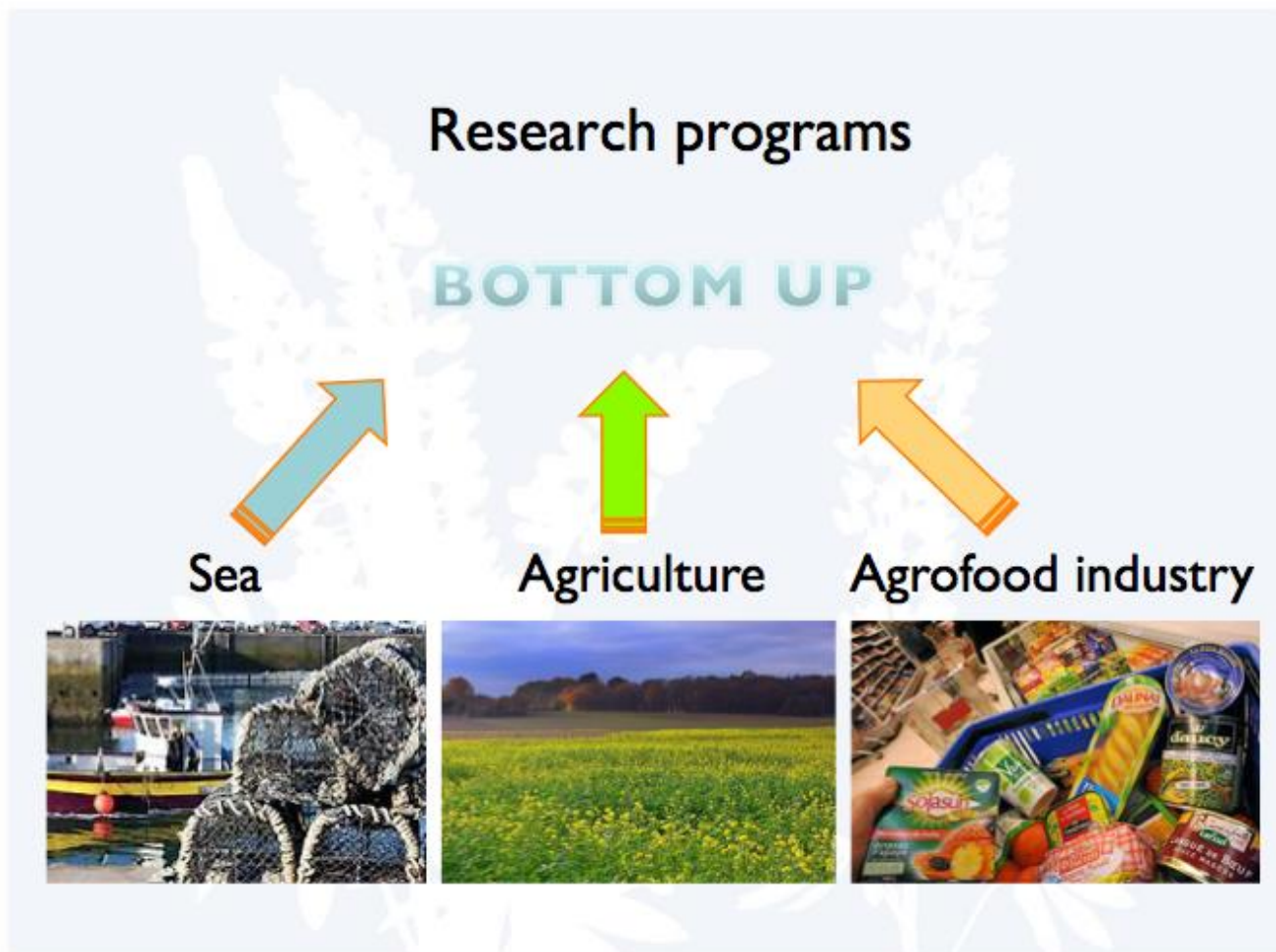
A bottom-up system to try to increase  
protein self sufficiency in the future



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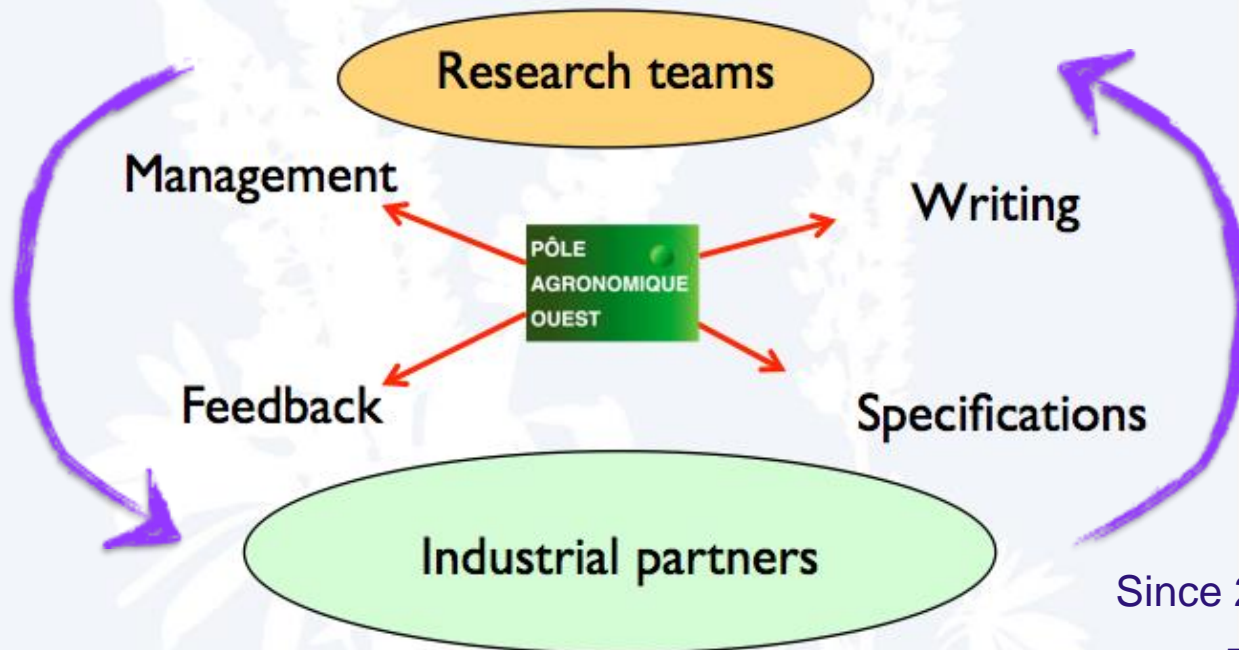
# How !



Who are we !

# Method !

economic partners propose projects or programs



PÔLE  
AGRONOMIQUE  
OUEST

initiate, write and  
facilitate research

Since 2006, more than 50 programs  
> 50 M€ have been realised.

# Results

## Examples PAO CLUSTERS

- Bba Dairy : 85 %.Lactalis, Danone, Bongrain, ...
- ADRO-Ouest Egg products 70% Ovoteam, Samo, Igreca, ...
- COREC Cider : 90% AGRIAL, Farmers, ...
- BBVP Bakery and cakes Patisseries Gourmandes, ...
- PROMEO Sea products : 45% Profes. organi., Meralliance,...
- Animal feed : 70 à 80 %
- % = National production



# Why the objective started

Millions T (Net Balance Green)	Cereals	Soya, rape, cakes and other	TOTAL
Brittany	- 2,6	- 3,6	- 6,2
PAYS DE LOIRE	+ 0,2	- 2	- 1,8
TOTAL	- 2,4	- 5,6	- 8

Aproximatly, West of France imports the production of 3 millions ha of SOYA  
It has only 4 millions ha of cultivated area

**Methodology**

**First Working Group**



- ☞ New sources of proteins...
- ☞ Cereals N+
- ☞ Specific crop prot.
- ☞ Mixed crops
- ☞ forage crops
- ☞ Process...
- ☞ Digestibility..
- ☞ Diagnostic...
- ☞ Impacts..
- ☞ Food versus Feed



Working G 1

Working G 2



Working G 9



**TECHNICAL & RESEARCH INSTITUTES**

IFIP : pigs  
ARVALIS : crops  
ITAVI : poultry  
CETIOM : Oilseed crops  
IDELE : breeding  
ITAB : organic farmers  
CEVA : algae  
TECALIMAN : feed

- Partners of the working group :
- Cooperatives
  - Farmers associations
  - Individual farmers
  - Experimental farms
  - Technical & Research Institutes
  - Chambers of Agriculture

How we are doing it ?



# SOS PROTEIN

European Symposium June 2013  
"Towards more autonomy protein  
for european farms: experiences  
to share"

January 2013  
Launch of discussions with  
partners

Symposium 2012

How we are doing it ?

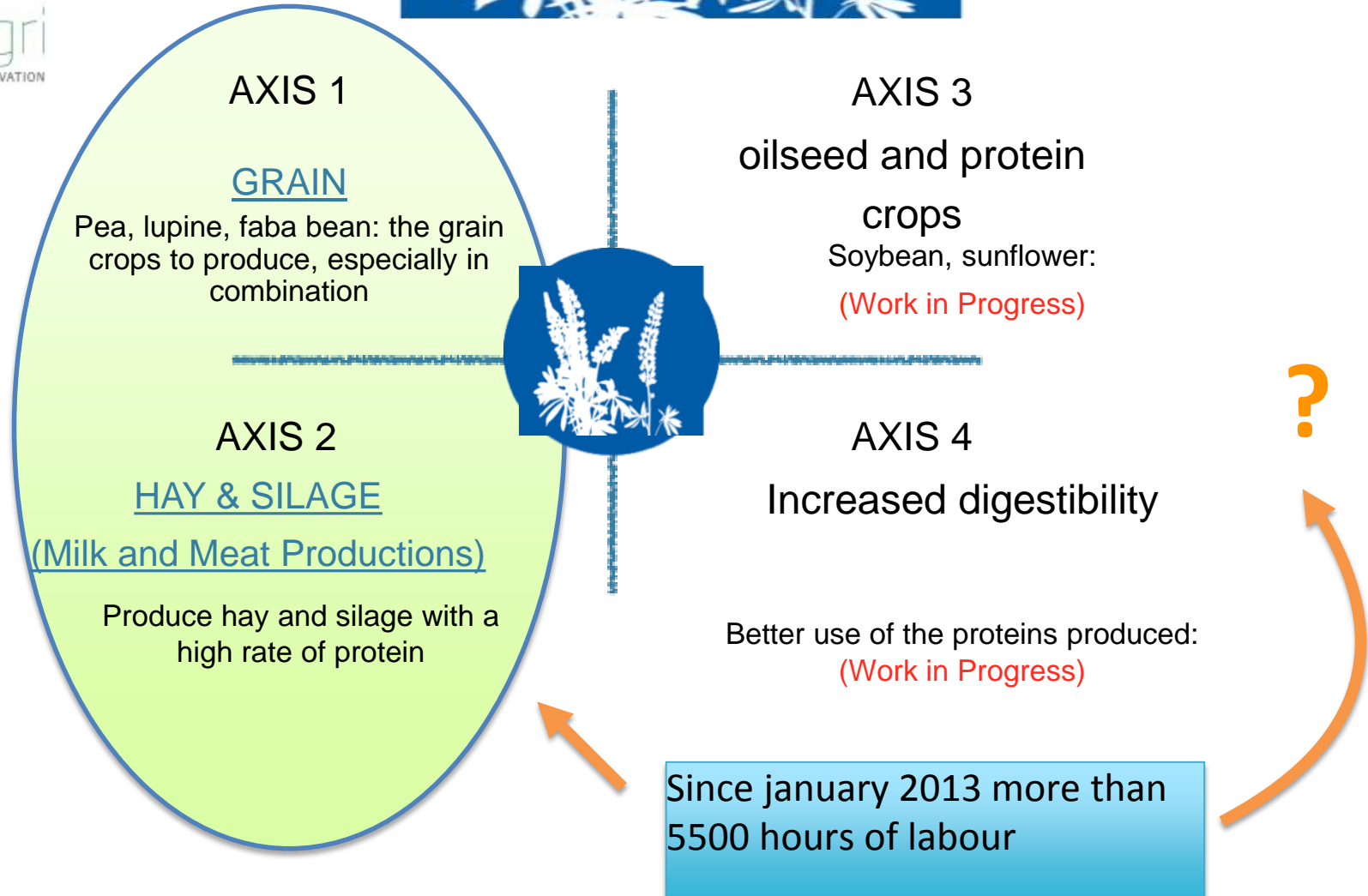


- ☑ Share knowledge of all stakeholders: farmers, researchers, engineers, technicians
- ☑ Develop new knowledge collectively.
- ☑ Turn knowledge into development tools used by farmers and ranchers in west of France.
- ☑ Linked with national activities and developments at the European level (call ISIB2)





# SOS PROTEIN



What has been reached !

# Projects in Work Axes 1 Peas, Lupin, Horse beans





# Projects in Work Axes 1 Peas, Lupin, Horse Beans

SP1 Know, understand and analyze  
agricultural practices

SP6 Project Coordination  
SP7 Valuation

SP2 Experimentations via experimental farms and farms

SP3 Conduct research work to control diseases on protein crops

In terms of  
mixed crop

SP4 Conduct research work to control weeds during lupine cultivation

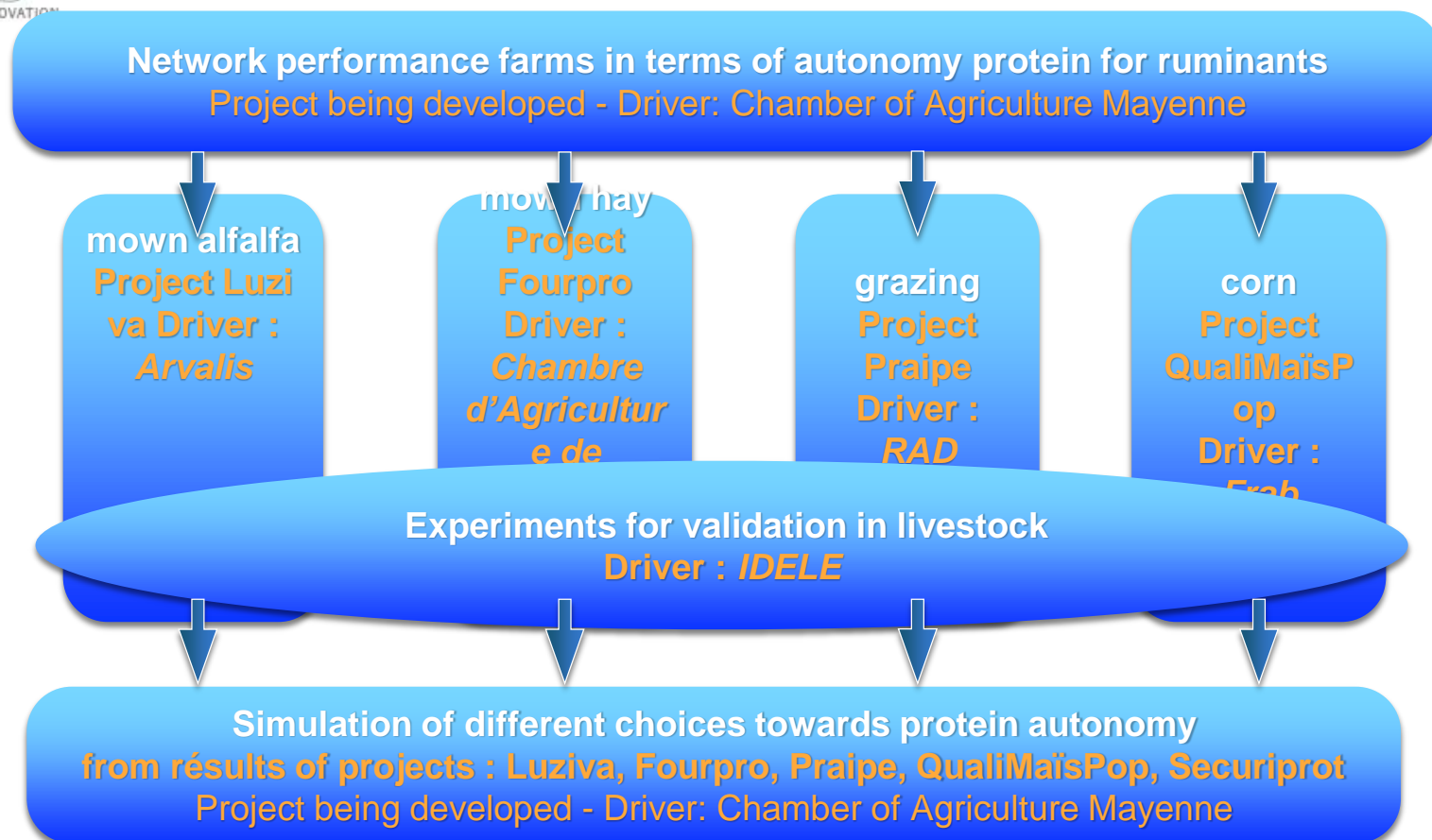
SP5 Conduct research work to control pests of legumes crops

Duration

# Projects in Work Axes 2 Hay & Silage



# Projects in Work Axes 2



# Who are the participants

More than 30 organisms and about 100 persons  
Nothing graved in rock.  
We still have to work on two other Axes !



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## **Opportunity and fail factors**

**How do we deal with them**

**Niche market, commodity, boths ?**

**What do we need for the next few years**

**Sustainability**

Thanks, we may find out solutions other than

# SOYLENT GREEN





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