

IAR: Industries & Agro-Ressources

A world class cluster
dedicated to
biobased products
and **Biorefinery**



PÔLE DE COMPÉTITIVITÉ
INDUSTRIES & AGRO-RESSOURCES

Christophe Luguel

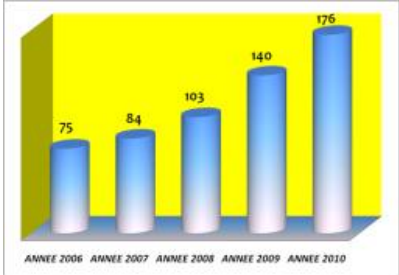
Partnering for the Bioeconomy in European Regions conference

Brussels, 12th October 2012



IAR: INDUSTRIES & AGRO-RESSOURCES

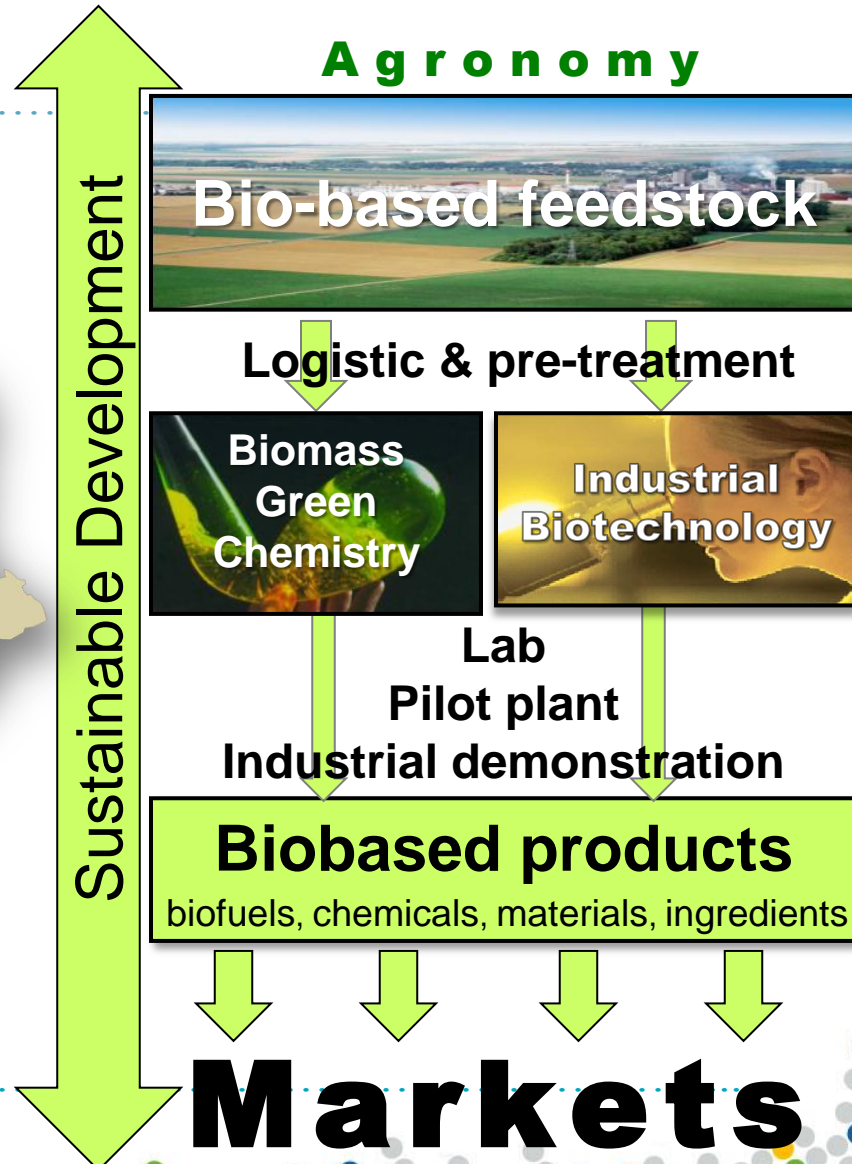
200+ members



100+ companies

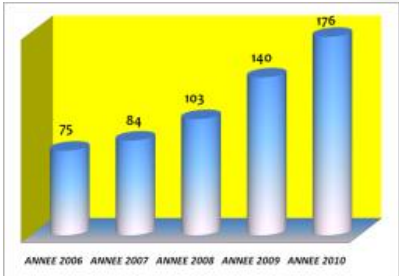
- 35 industrial groups
- 70 SMEs

A world class cluster
dedicated to
biobased products
and **Biorefinery**



IAR: INDUSTRIES & AGRO-RESSOURCES

200+ members



100+ companies

- 35 industrial groups
- 70 SMEs

100 R&I projects

- Total R&I budget: 1 bn €
- Public subsidies: 30-40%



Agromony

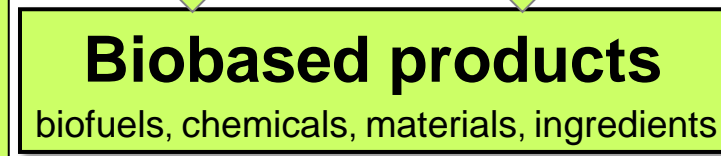


Logistic & pre-treatment



Lab
Pilot plant

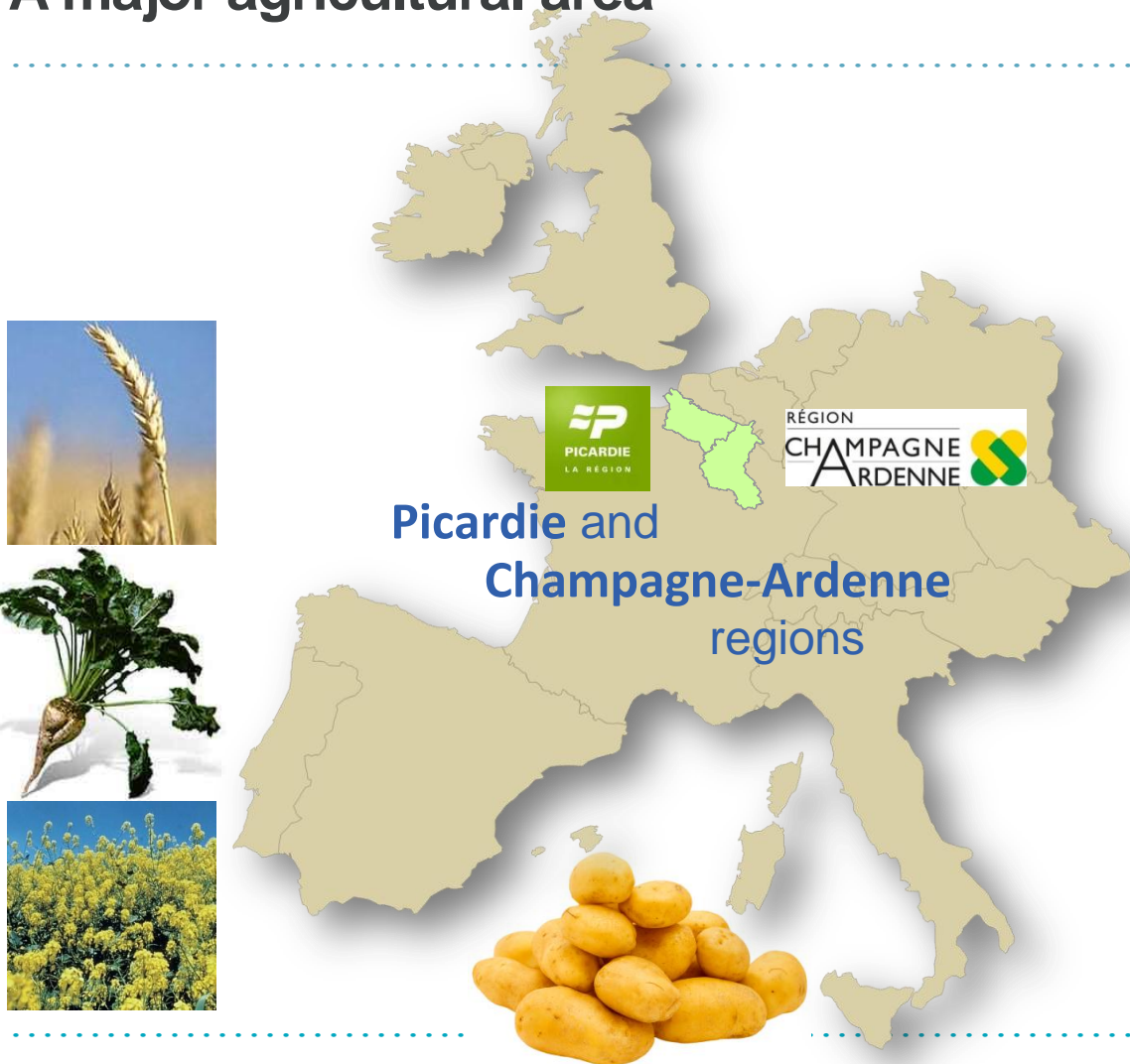
Industrial demonstration



Markets

IAR: INDUSTRIES & AGRO-RESSOURCES

A major agricultural area



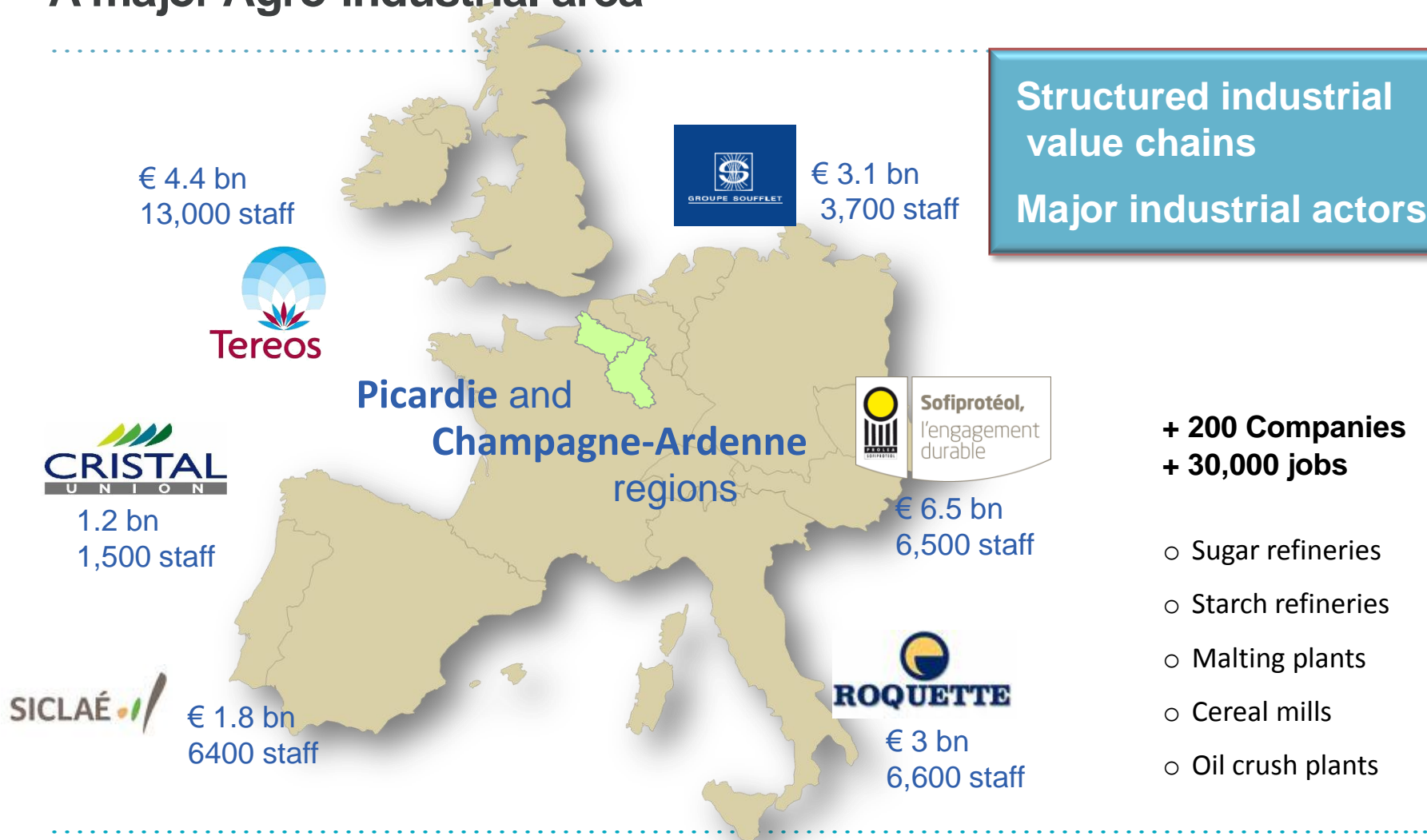
% surface in France

○ Barley	23%
○ Wheat	19%
○ Sugar beet	57%
○ Rapeseed	20%
○ Potatoes	39%
○ Hemp	47%
○ Flax	13%
○ Alfalfa	80%

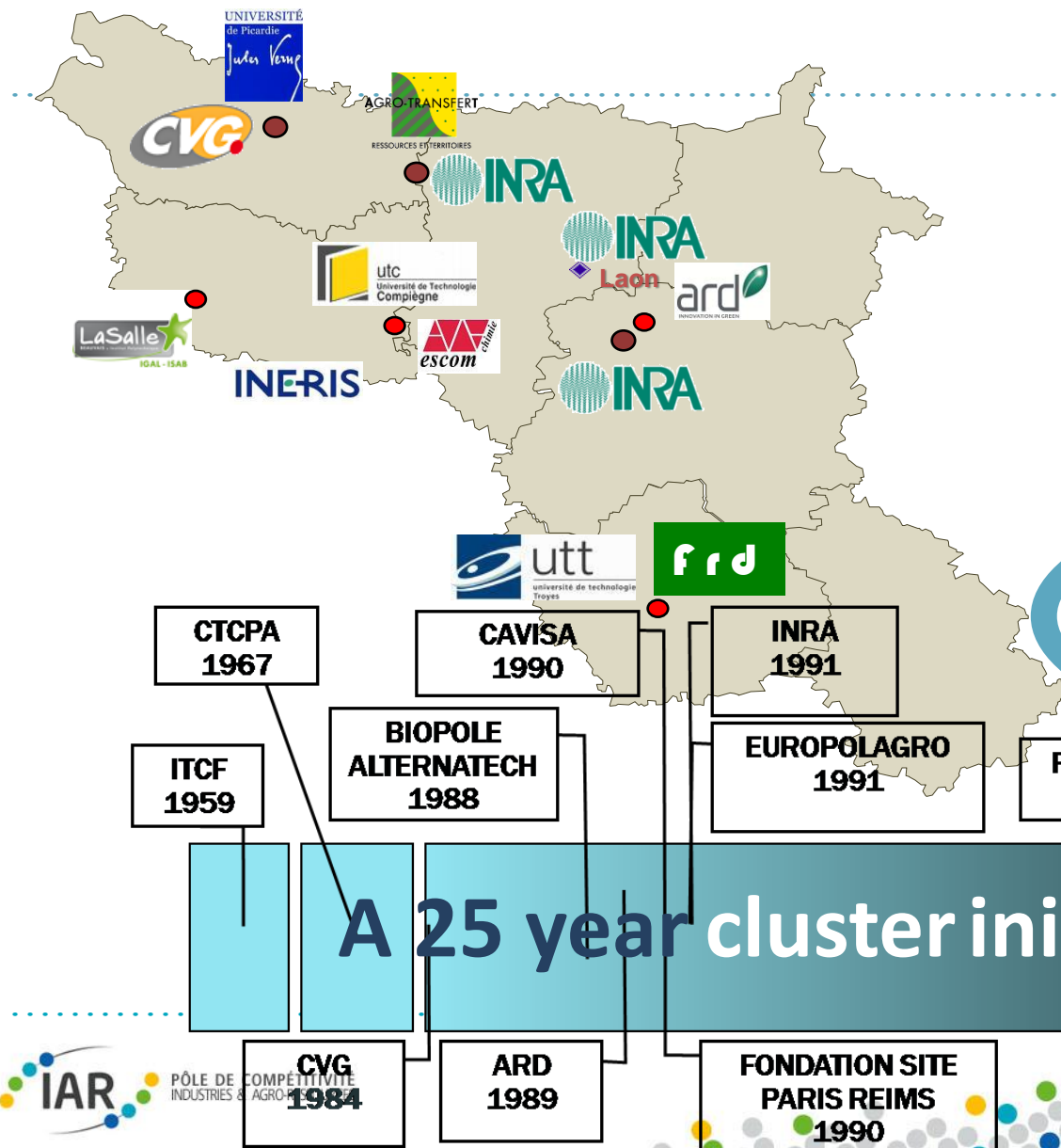
Ref : Agreste, 2007

IAR: INDUSTRIES & AGRO-RESSOURCES

A major Agro-industrial area



IAR: INDUSTRIES & AGRO-RESSOURCES



- 4 Universities
- 2 Graduate schools
- INERIS research center (Risks, sustainability,...)
- 3 INRA centers (Agronomy Research Institute)
- 4 Technological hubs

3 open Innovation platforms

A 25 year cluster initiative



PÔLE DE COMPÉTITIVITÉ
INDUSTRIES & AGRO-RESSOURCES

CVG
1984

ARD
1989

FONDATION SITE
PARIS REIMS
1990

CNRT
ALTERNOVAL
2002



Biorefineries development in Europe

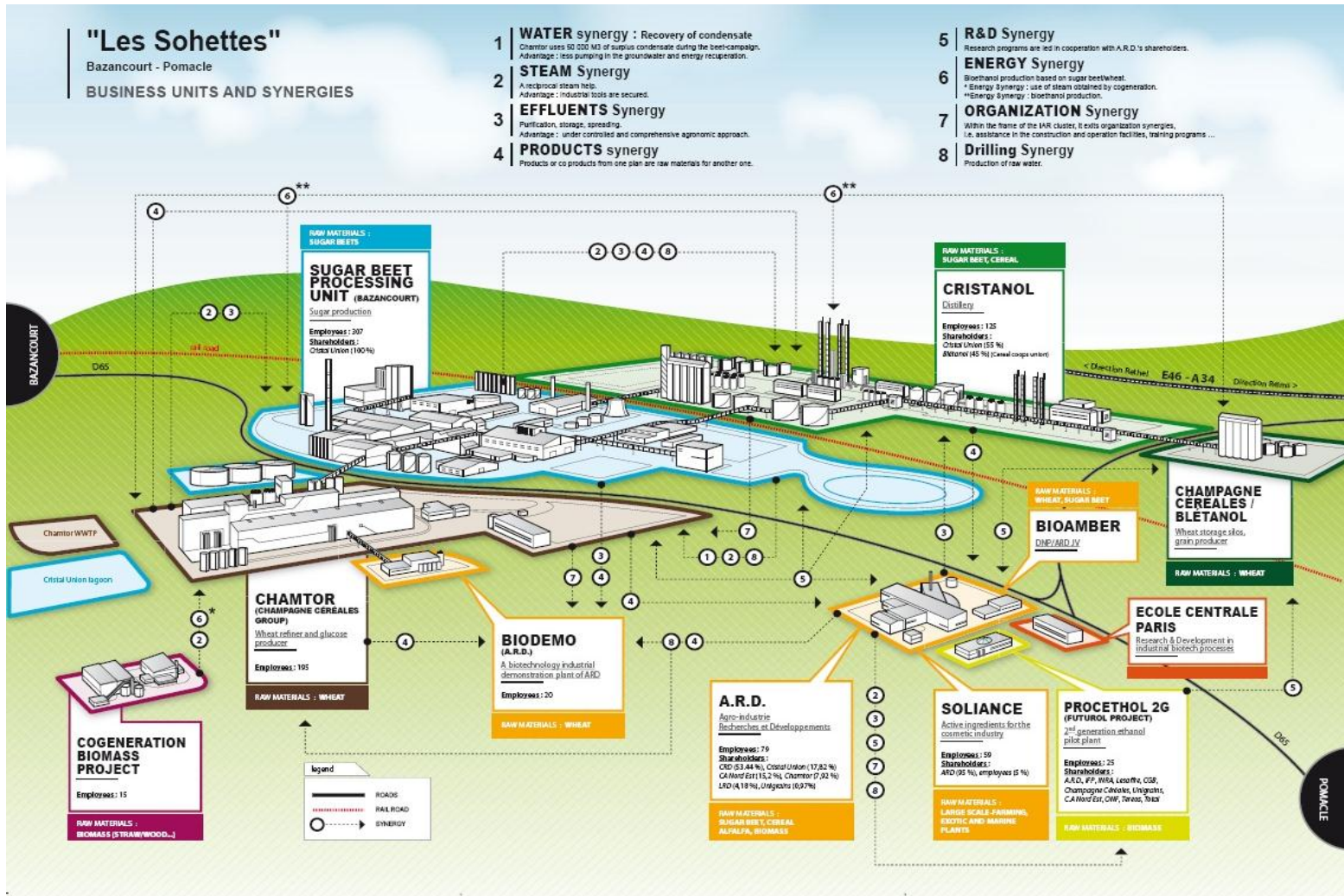
"Les Sohettes"

Bazancourt - Pomacle

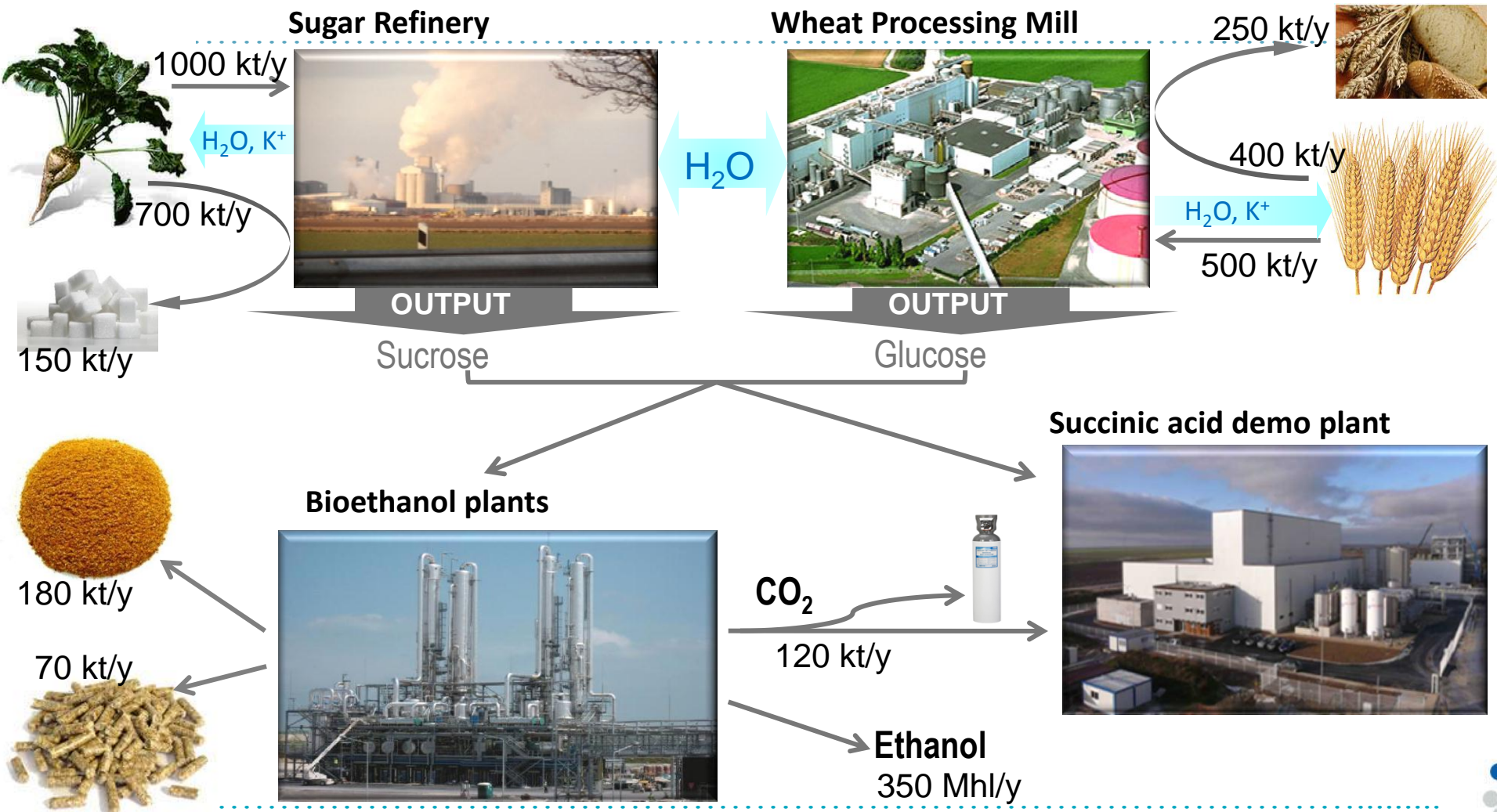
BUSINESS UNITS AND SYNERGIES

- WATER synergy** : Recovery of condensate
Chamtor uses 90 000 M3 of surplus condensate during the beet-campaign.
Advantage : less pumping in the groundwater and energy recuperation.
- STEAM Synergy**
A reciprocal steam help.
Advantage : industrial costs are secured.
- EFFLUENTS Synergy**
Purification, storage, spreading.
Advantage : under controlled and comprehensive agronomic approach.
- PRODUCTS synergy**
Products or co-products from one plant are raw materials for another one.

- R&D Synergy**
Research programs are led in cooperation with A.R.D.'s shareholders.
- ENERGY Synergy**
Bioethanol production based on sugar beetweeth.
* Energy Synergy : use of steam obtained by cogeneration.
** Energy Synergy : bioethanol production.
- ORGANIZATION Synergy**
Within the frame of the IAR cluster, exists organization synergies, i.e. assistance in the construction and operation facilities, training programs ...
- Drilling Synergy**
Production of raw water.



"Les Sohettes" is a good illustration of an integrated rural biorefinery



Biorefinery:

More than a concept,

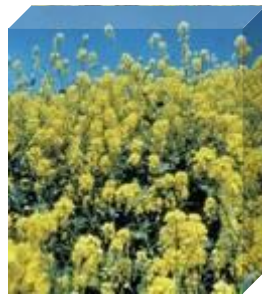


© Champagne-C r ales

An industrial reality !

IAR: INDUSTRIES & AGRO-RESSOURCES

Thank you for your attention



Industries & Agro-Ressources

www.iar-pole.com

