

## *Agriculture and Livestock breeding impact*

Nicolas IMBERT, october 24th, 2018



# Our activities

## Keys for

### action

5 working areas,  
1 holistic vision

« We are what we are doing » Severn Suzuki, 1992



### Education and advocacy

### Projects



AND DESICUS POUR AVOIR

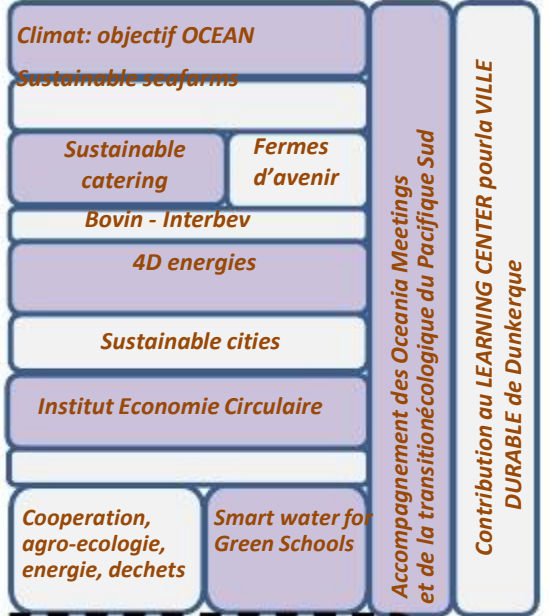
Océan en Océan pour agir

Le Nouveau Modèle Industriel :  
Plus de bénéfices, plus d'emplois et moins d'impact sur l'environnement

CoP21-22: adaptation et résilience

Une économie circulaire pour les territoires maritimes ?

ÉCONOMIE CIRCULAIRE ET COOPÉRATIVES INCESSAIBLES DES CILS POUR AVOIR



**Climat: objectif OCEAN**  
*Sustainable seafarms*

**Sustainable catering**      **Fermes d'avenir**

**Bovin - Interbev**

**4D energies**

**Sustainable cities**

**Institut Economie Circulaire**

**Cooperation, agro-ecologie, energie, dechets**      **Smart water for Green Schools**

*Accompagnement des Oceania Meetings et de la transition écologique du Pacifique Sud*

*Contribution au LEARNING CENTER pour la VILLE DURABLE de Dunkerque*

**Key**



**Think&Do Tank GCFT**

**Green Cross Project**

**As part of a multi stakeholders project**

**Piloting a multi-stakeholders project**



## Our support and partner networks



## Food & agriculture

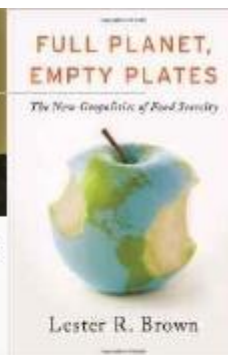
### *What can we say ?*

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- Pollution
- Strong changes in the price of food resources
- Repeated quality crises and loss of consumer confidence
- Intense ecological footprint of monocultures in a context of global competition and loss of agronomic knowledge in developing countries
  - → Production model around arable crops and a specialized mono-livestock breeding by region on an international scale shows its limits

## Food & agriculture - *A hollistic vision is*

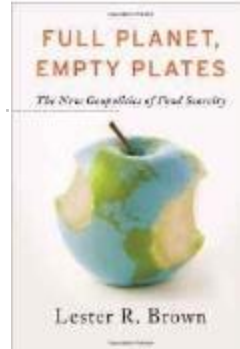
*more than ever necessary*



- 1) Food: The Weak Link
- 2) The Ecology of Population Growth
- 3) Moving Up the Food Chain
- 4) Food or Fuel?
- 5) Eroding Soils Darkening Our Future
- 6) Peak Water and Food Scarcity
- 7) Grain Yields Starting to Plateau
- 8) Rising Temperatures, Rising Food Prices
- 9) China and the Soybean Challenge
- 10) The Global Land Rush
- 11) Can We Prevent a Food Breakdown?

## Food & agriculture

### *Global markets are thriving prices*



All over the world, prices are given by global market

- 2007-2008 : Corn / Wheat / Soybean x2 → crises and food riots in more than 60 countries
- 2011 : another price peak, riots and revolutions in North Africa
- 2012 +: prices are rising and uncertain



Source: CME Group



## Food &

# *Demand is rising, offer is getting shorter and more uncertain*

- Demand-side
  - ÷ Population increase, as well as individual needs
- ~~Competition~~ Competition between food and agro-fuels
  - ÷ Soil erosion
  - Water scarcity
  - Temperature rise / more extreme weather events
  - Appauvrissement des aquifères
  - Limited / unpredictable crops yields
  - Food insecurity and price increase. Nearly 1 billion people are hungry
  - Des températures qui augmentent





## Food & agriculture - *Livestock traffic has become an attractive market for criminals*

- Environmental crime: more than 156.6 billion € / year, could become more profitable than drug or weapons
- ~~Farming~~ ~~and~~ flora: illegal traffic (excluding wood and fish) = 17 billion € / year
- ~~Wood~~: illegal logging = loss of 22 to 73.5 billion € / year (10% to 30% of the world)
- ~~Fishing~~ (fishes) illegal activity = 8 to 22 billion €
- Pesticides, rare earths, electronic waste
- *Responses: convention on International Trade in Endangered Species of Wild Fauna and Flora (Cites), World Bank, Interpol, World Customs Organization, UN Office on Drugs and Crime*

### Examples

- Ivory trade in Gabon
- Rosewood and ebony traffic in Madagascar: insufficient export and import embargo





## Food & agriculture

### *So, what can we do ?*

#### **Let's go for massive agro-ecology**

*Long lived as a set of heterogeneous practices and craft, agro-ecology now appears as a strong response to food crises, which seeks to achieve triple economic, social and ecological performance. And this, by creating value locally, on the territories.*

#### **But what is agro-ecology?**

Agroecology can be defined as a set of evolving practices that reconcile agronomy and ecology. This concept is intended to provide concrete answers to the "junk food", the environmental impact of a monoculture too

# Food & agriculture

## The « magic wheel » of

*agroecology*

*Soil restoration and  
gain in local biodiversity*



*Farmers acting as  
entrepreneurs*

*Crops and  
livestocks*

*for*

*resilience*

*diverse*

*increased*

*All products and by-*

*Optimal sustainable*

# Food & agriculture

## *Agro-ecology – a few insights*

### **The systemic approach of agroecology**

This practice considers soil, water and life as a crucible for cultivating and raising closer to places of consumption. The diversity of the cultures allows to always have a production in quantity and quality, the farmer is involved as entrepreneur of his exploitation, an approach of open farm and short circuit bring closer the farm of the consumer, and the quality of the grounds is preserved by an agriculture which needs little or no inputs and contribute to the development of the organoleptic quality of soils.

### **What are the benefits locally ?**

Maintenance and development of biodiversity on landscapes and agricultural activities are intimately linked. And this, in a circular economy approach, where nothing is lost, but everything is transformed and is valued. It is time to innovate, understand and accelerate this model in particular technological grouping practices towards a more comprehensive performance: economic, ecological and social. This responds to

## Food & ~~Agriculture~~ – a few *insights*

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### Benefits for the consumer

?

Agroecology is everyone's business.

It means citizens, also consumers and taxpayers, often helped by associations like ours, are

gradually becoming "consum'actors" eager to check both the quality of their diet and its impact on the territories.

It also involves local distribution (supermarkets, restaurants...) who rediscover the benefits consumption and sale of products from agro-ecology.

All of them are, in their own way, involved in this virtuous circle which makes it possible to

- they use resources optimally and

- they provide local, seasonal and healthier

- products. The impact on human health, water and soil quality is kept to a minimum – and could

- become

- positive.

The consumer knows the producer and only buys the products necessary for his food.

## Food & Agriculture – how to do it effectively

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?

3 key work streams to develop in parallel, simultaneously

:

- **transformation of a socio-economic system**, based on the consumption of primary resources, into systems integrating sustainable food with other territorial issues, based on the cycles of ecosystems.
- **reorientation of public aid to support the diversification of farms** made essential by the expectation of quality agricultural products and the need for greater transparency and efficiency of the processing, sales and distribution circuits.
- **promotion of the circular economy** in an approach consolidating sectors and territories (valorization of by-products and waste, fight against waste ...).

## Return on experience

### *Re-inventing pig farming value loops*

- **Anticipate strategic changes**
- **Cascade them into local projects**
  - Inclusive projects
  - Importance of education

→ *factral initiatives*
- **Build joint impetus from stakeholders**
  - Economic networks,
  - People (as both citizens, consumers, taxpayers),
  - Politicians & services.

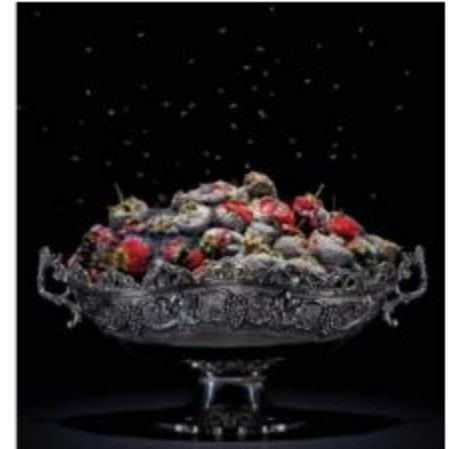




## Return on experience

### *Reducing food waste*

- **40 % of our food** is thrown away not having even
- been tasted
- **> 60 % of farming outputs do not reach human stomach,** is becoming both socially and ecologically non acceptable:
  - **1 billion individuals suffering hunger !**
- **But we have solutions**
  - Demand agriculture,
  - Enhanced logistics,
  - Quality improvements,
  - Unsold goods detection and usage,
  - Improvement of by-products usage (animal food, energy...)



#### UN BEAU GÂCHIS

Photo : Eliza Pichon - www.asterimagegallery.com

PAR CES IMAGES À L'ESTHÉTIQUE PROVOCANTE, METTANT EN SCÈNE DES ALIMENTS POURSUIVIS, LE PHOTOGRAPHE A VOULU DÉNONCER CE SCANDALE : UN TIER DE LA PRODUCTION PRODUITE SUR TERRE EST PERDUE OU GASPILLÉE. DANS LE MÊME TEMPS, PRÈS DE 900 MILLIONS D'HUMAINS SONT MENACÉS PAR LA FAIM.

Source: WE Demain, n°5 –  
<http://www.wedemain.fr>

# Some returns on experience



## Some returns on experience





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