

UNE STRATÉGIE BIOÉCONOMIE POUR LA FRANCE



...“Agriculture will also have to be less dependent on fossil energy. It will have to rely on **a strategic action plan for the bio-economy** to promote the development of bio-materials, renewable energy production and the bio-based chemistry”...

*Bernard Cazeneuve, French Prime Minister
13th December 2016*

Bioeconomy in France : a key strategical sector

- Several value chains of the bioeconomy are already strongly developed in France, or are emerging
 - Biofuels, biogas,...
 - Biobased chemistry
 - Fiber (Hemp, flax,...) for materials
- Public and private R&I organisations are well involved in the bioeconomy and are supported by diverse public fundings
- Multiple public policies are dedicated to bioeconomy and closely related sectors
- Need for integrating and combining different initiatives and build a systemic approach of the bioeconomy

Some examples : materials

Flax used in composites
for transport →
reduction of weight



Head of train



Fuel tank
cork -
Peugeot 208

Some examples : materials

Building materials with
hemp → CO2
sequestration, better
humidity regulation



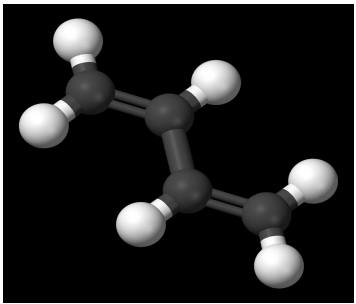
Hemp insulation



Tourism office in Troyes build with hemp

Some examples : chemicals

New molecules and substitution of fossil based molecules



Butadiene, made with wood biomass, to replace fossil butadiene in synthetic tyre



Succinic acid, made with sugar, used for bio-plastics, solvent

Some examples : energy

Biofuels, wood, biogas,...



French fuels contain around 7 % of biofuels from sugar beet and rapeseed



Paris-Toulouse flight with a 10% bio-based fuel



Agriculture

936 000 jobs
28 Mha

Fishery

37 000 jobs
1st EEZ in the world
(10.2 Mkm²)

Forestry

30 000 jobs
16Mha + 8Mha
in overseas

Bioenergy

60 % of
renewable
energy

Bio-based products (incl. wood)

150 000 jobs

Bioeconomy in France =

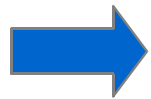
- 1 900 000 jobs
- 80 % of the territory

Food industry

435 000 jobs

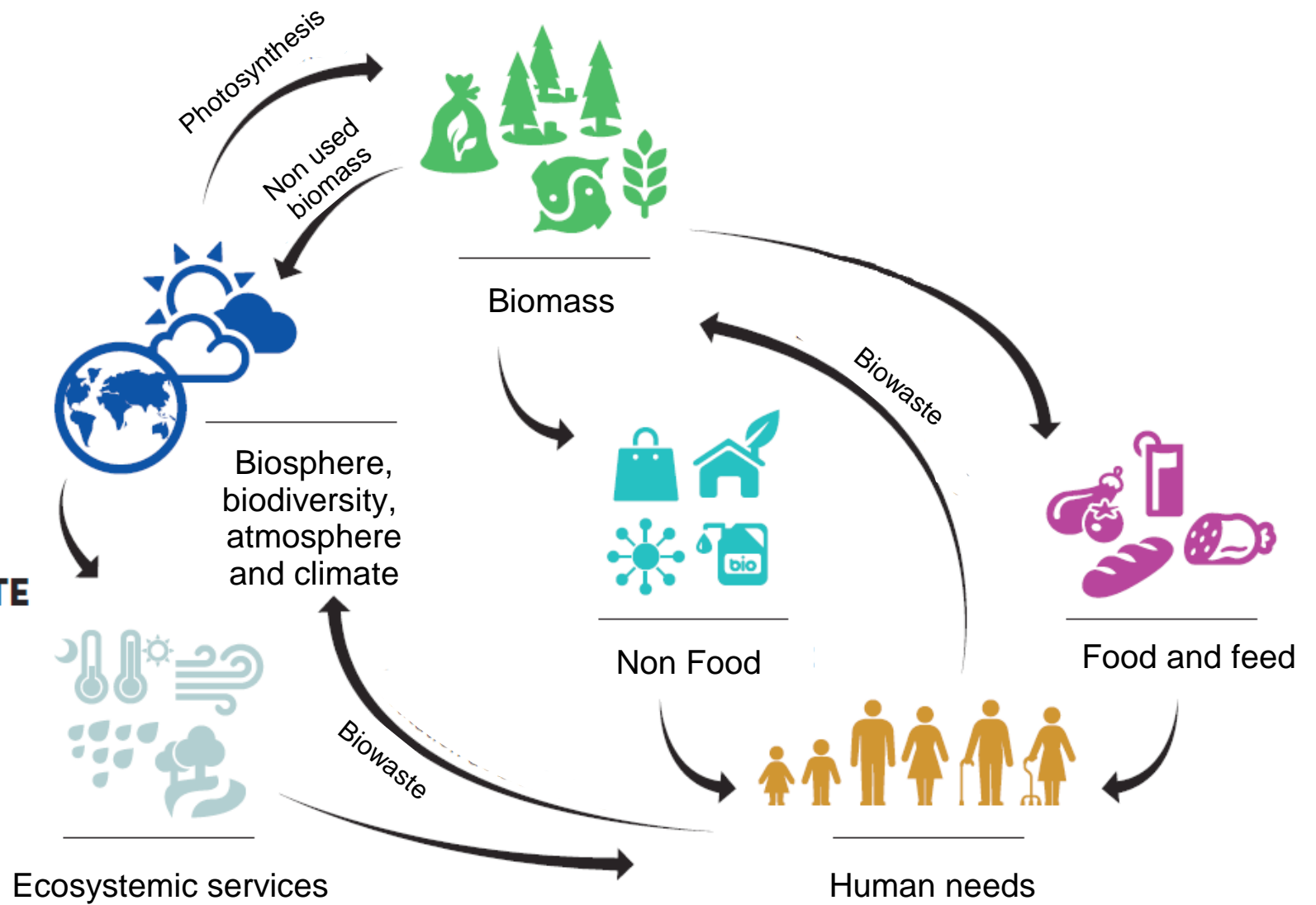
Why a strategic action plan for bioeconomy in France ?

- Promote new products and solutions, based on innovation, for the ecological and energy transitions
- Ensure new economic opportunities for agriculture, forestry, fisheries and for rural territories
- Strengthen sustainability of the global system, producing « food first » and minimizing environmental impacts



Need for a global view of the bioeconomy, including food and feed, materials, energy **and ecosystem services**, from research and innovation to economic and territorial development

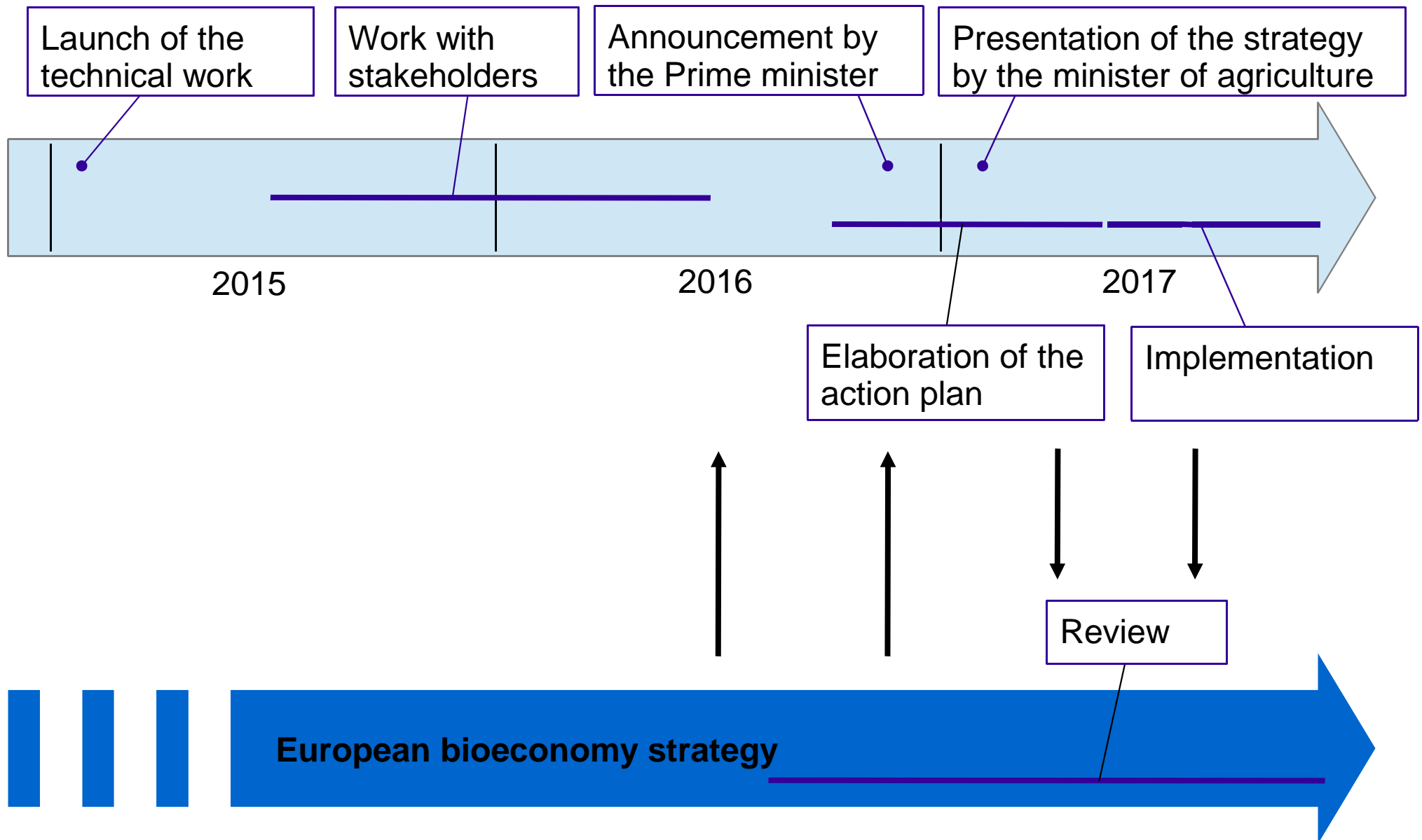
LA BIOÉCONOMIE :
POUR NOTRE AVENIR
ET CELUI DE LA PLANÈTE



Building the bioeconomy strategy

- An interdepartmental initiative started in 2015 : agriculture (+food and forestry), environment, research, economy
- Participation of stakeholders : industry, agriculture, forestry, NGO, research, local stakeholders,...
- Some principles for the governance:
 - Bridging the gaps and promoting global approaches
 - Managing the transition process with stakeholders
 - Working at different territorial levels
 - Monitoring the development of the bioeconomy

Building the bioeconomy strategy



Some important steps for the bioeconomy in France and Europe

- Bioeconomy products on the market: promote standards and certification
- Build innovative industrial eco-systems: strengthen links between first stage production and transformation
- Bioressources : promote solutions to produce “more and better”, thanks to agro-ecology
- Sustainability: evaluate positive and negative impacts of bioeconomy
- Dialogue with the society: open the debate to citizens
- Research and innovation : reinforce targeted research ; promote transversal and territorial R&I approaches on the bioeconomy

Links with the european bioeconomy strategy



- Review and up date of the european strategy are important
- A broader scope for the bioeconomy could be interesting : involve all concerned DG, promote a systemic approach
- Continue the work on research and innovation (BBI, H2020,...)
- Spread the bioeconomy at the local level