CTFC

Towards a 2030 Bioeconomy strategy in Catalonia

RDInnoweek_ERIAFF
Florence, 28 march 2019

Generalitat de Catalunya
Government of Catalonia

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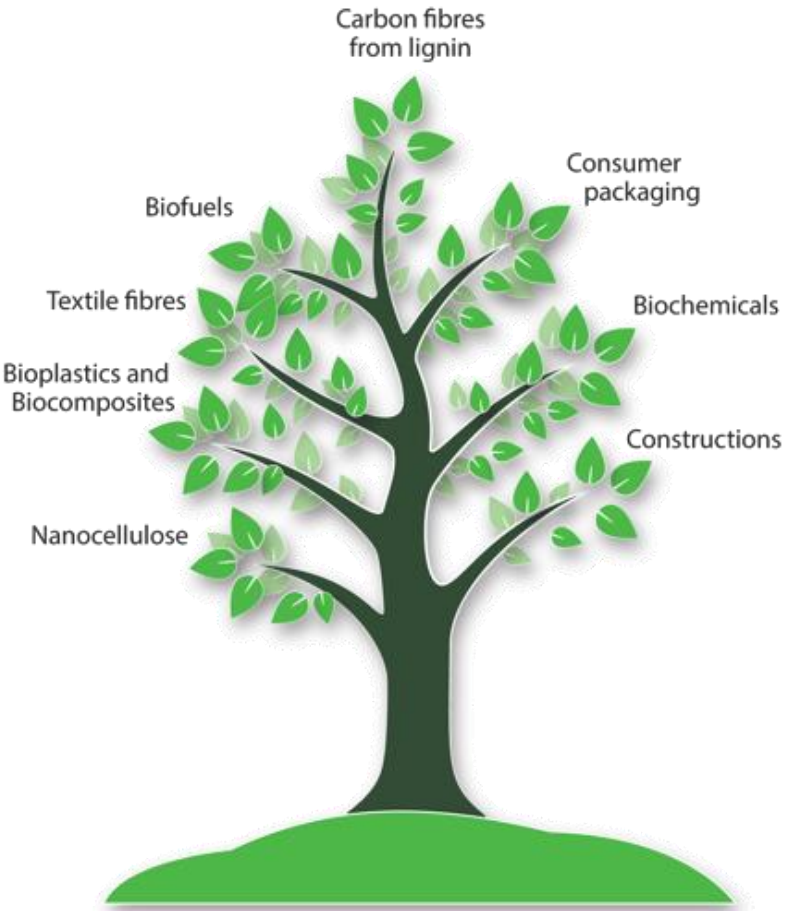
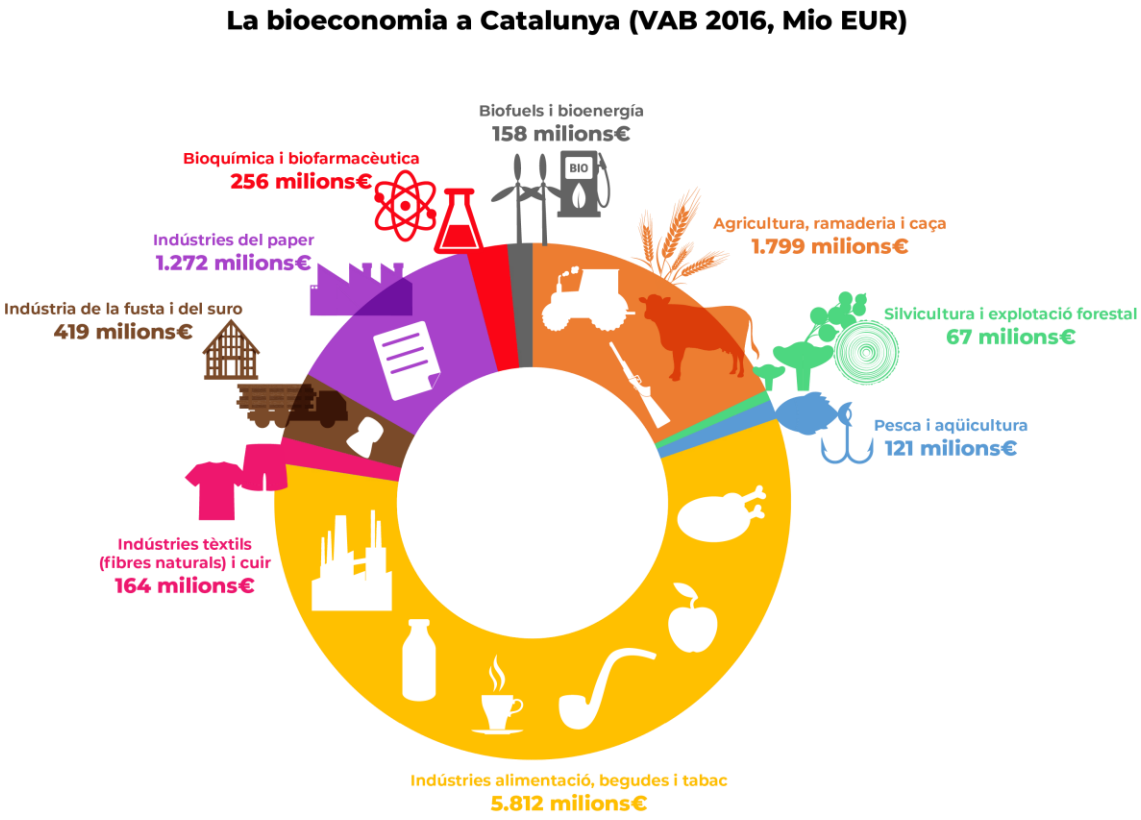
01

Concept and corrent weight in the economy



- Biologic and renewable resources for producing goods and services
- Decarbonizing the economy
- Natural capital, biodiversity conservation
- Based on research and innovation
- Inclusive (rural areas vs metropolitan areas); potential in big cities
- *Circular* bioeconomy



- 9,6% of the total gross production, 43.561 Mio EUR;
- 4,8% of the total GVA;
- Generates 187000 employments, 5,2% of the total
- But as well the environmental services! Other indicators than GVA…

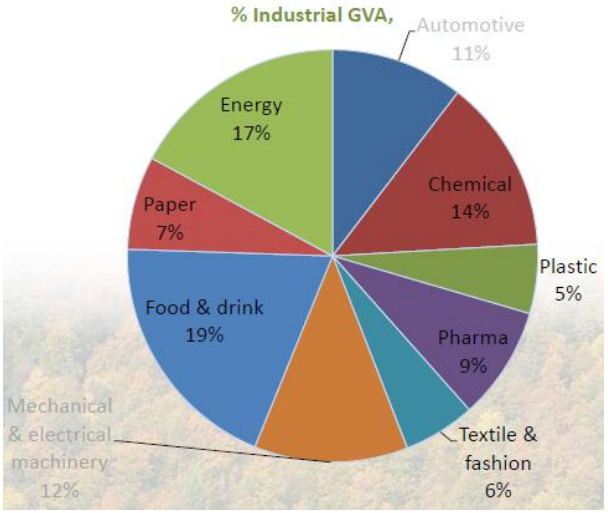
02

Potential for implementation

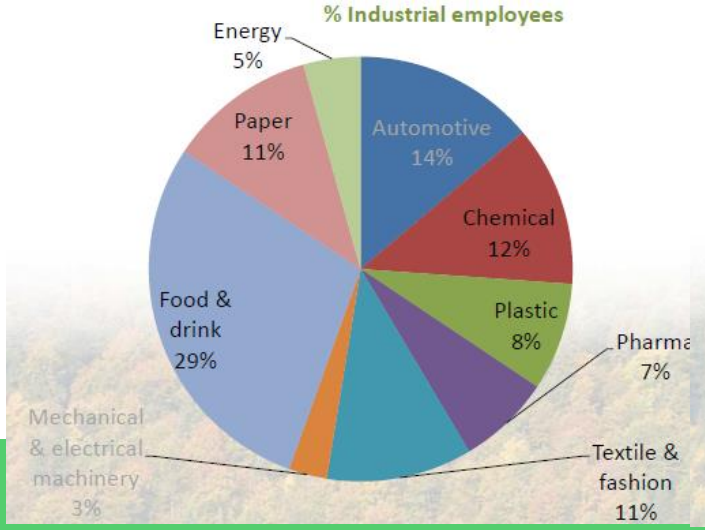
- **Potential for implementation related to agro-food industry, construction, chemical industry, Pharma, energy, nowadays representing 14,7% of GVA in the region.**

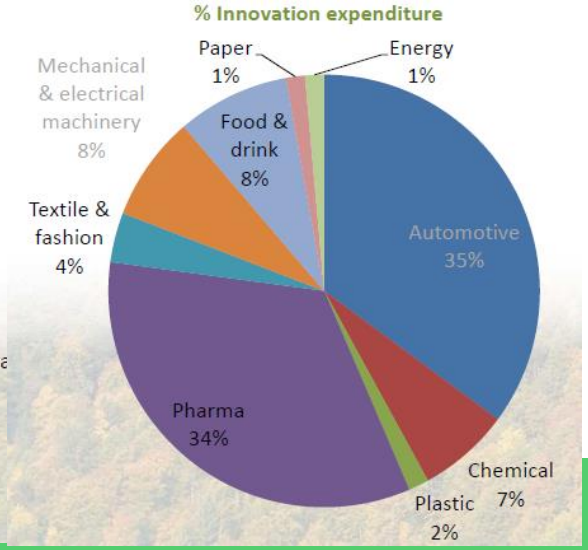
Industry

Automotive
Chemical
Plastic
Pharmacy
Textile & fashion
Machinery
Food & Drink
Graphic arts
Energy



Agriculture: 0.9 % of GVA
Industry: 19.6 % of GVA
Construction : 4.7 % of GVA
Services: 74.8 % of GVA





Potential uses for Bioproducts in Catalonia

Chemical + Plastics+
Food & drink
17065M€/770/31853

Pharma/Cosmetics
10681M€/295/28400

Textile
3822M€/2563/26125

Energy

Turnover €/enterprises/employees

organic acids
phenol
furfural HMF
laevoglucose
hydrogen
ethanol
methanol

Cosmetics

Textile fibers

Packaging

Flavours

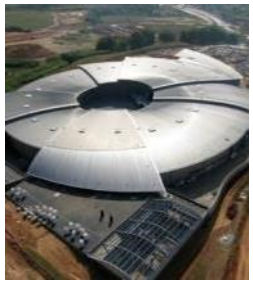
Scents

Biofuels

Leading scientific facilities

Renown applied and basic research groups supporting technological transfer and a complete network of scientific and tech centres represent the base for Catalonia's research and innovation programme.

IDIADA automotive testing facility



ALBA Synchrotron

Tech & Science parks

IMB CNM

Supercomputing centre

A wide range of, universities and research groups all pioneers in life sciences, nanotechnology, photonics, etc.

TECNIO centres for technology transfer in different areas which give added value to business projects.

Strategically located, globally connected.
Leading scientific facilities, industrial and logistics premises.

Barcelona is one of the few cities in Southern Europe with full-modal transport integration. International port and airport, high-speed railway and motorways within a 12-kilometre radius, each with global connectivity.

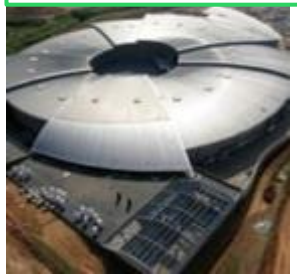
City Centre

80 airlines
200 destinations worldwide
Over 35 million passengers
100.5 tm cargo
Best South European Airport
Best European Cargo Airport

Excellent road network connecting internal market. The **Mediterranean Rail Corridor**, a EU priority project.And leader in the Mediterranean in vehicle traffic.

Port & Logistics

Scientific facilities & Industrial and logistic premises



Airport

Tarragona. The largest chemical park of Catalonia

ChemMed Tarragona represents **25% of the Spanish Chemical industry** and produces about 50% of its plastics

Two industrial parks, along with port facilities, occupy 1,200 ha. They include:

- Refinery with a capacity of 200,000 bpd
- Refinery specializing in the production of bitumen, leader in the Spanish market
- Two ethylene crackers with a global production capacity of 1,370 Kt of ethylene / year
- The only producer of ethylene oxide in Spain, with an installed capacity of 140,000 t / year

ANNUAL PRODUCTION: 20 million tons