

The UrBioFuture Project







Support for Research and Innovation activities promoting the Bioeconomy and Circular Bioeconomy

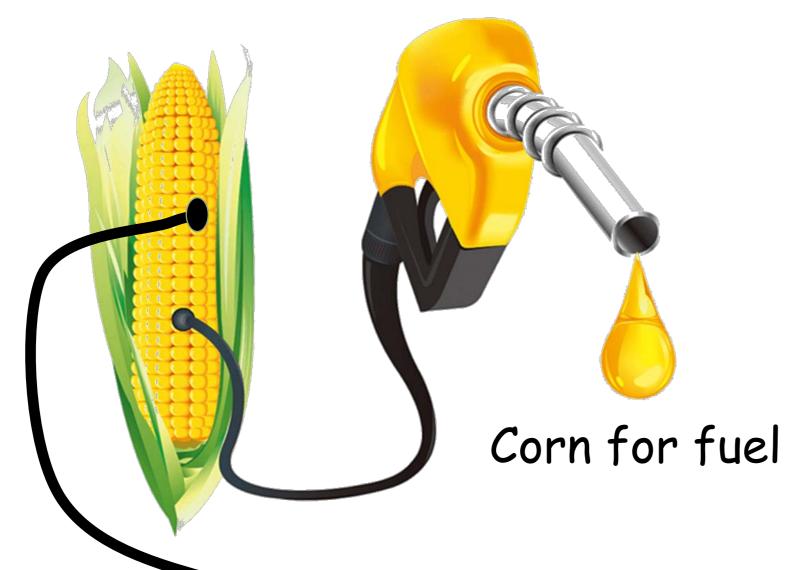






To promote the Circular Bioecoomy

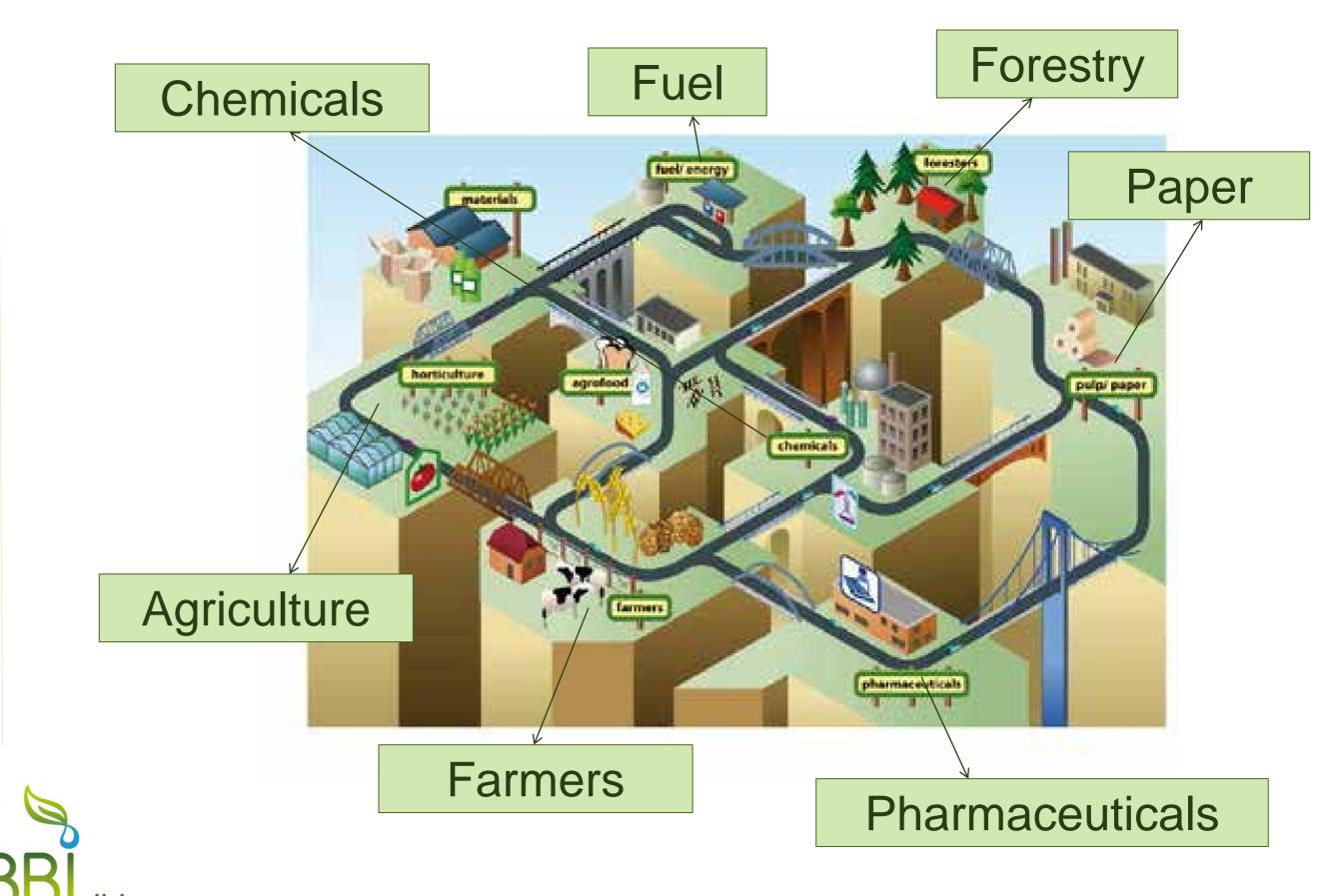
Create New Value Chains





Corn for biodegradable plastic

Create new cross-sector interconnections



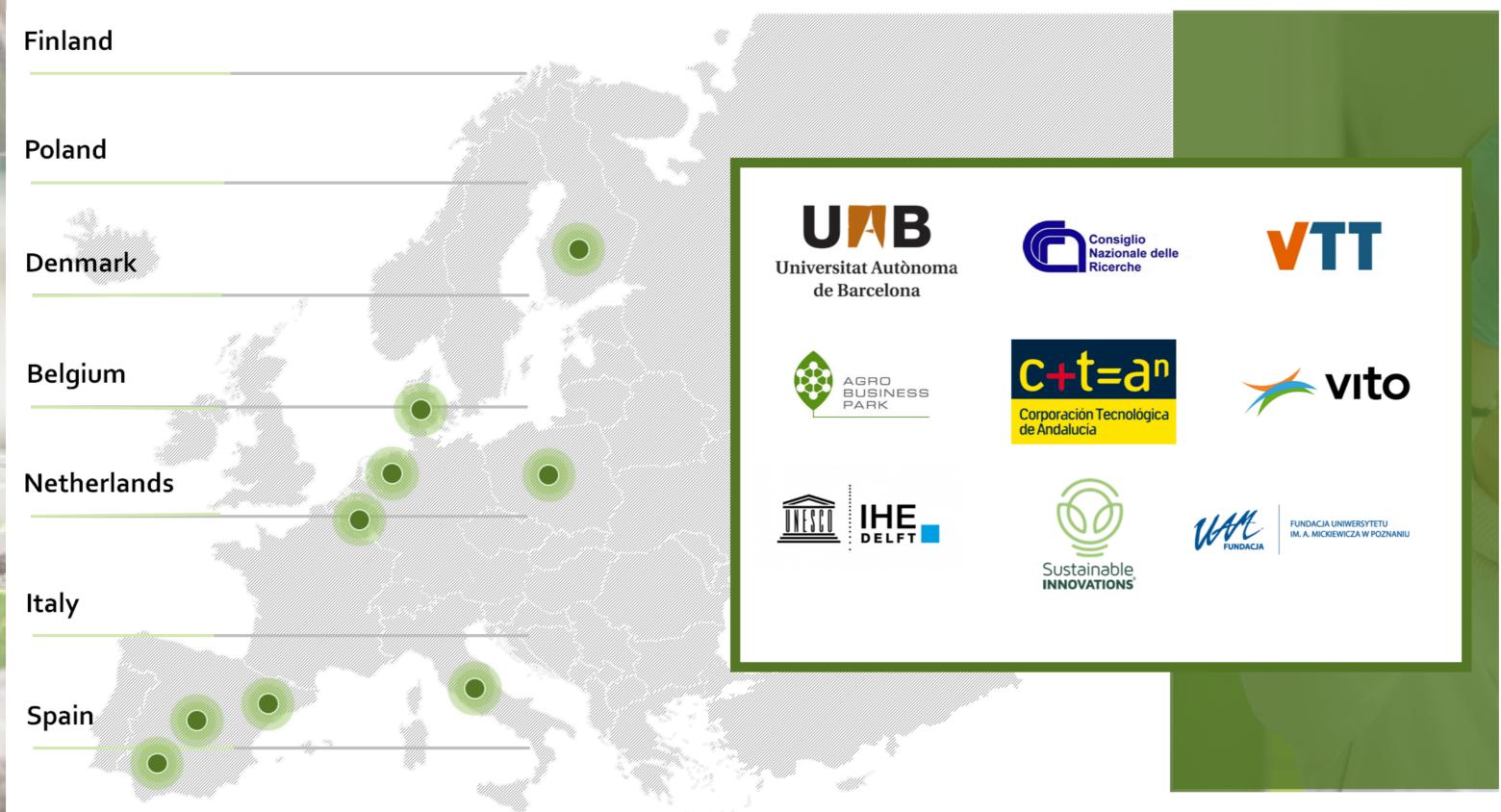








UrBioFuture: Partnership & Aim



UrBIOfuture main goal is to bring Europe to the forefront of the bio-based sector by boosting careers, new educational programmes and research activities.





Project development

02

Educational Programmes mapping

04

Identification of the gaps among the industrial needs and educational programmes Ub///
The

"UrBioFuture Experience"



01

Design:

- 1. Stakeholders List
- 2. Survey for the industrial stakeholders
- 3. Template for the educational programmes mapping

03

Analysis of the Industrial needs

05

Conclusions and guidelines









Events

Materials

Best practices

guide

Outline educational programmes

Outline of

pilot infraestructures

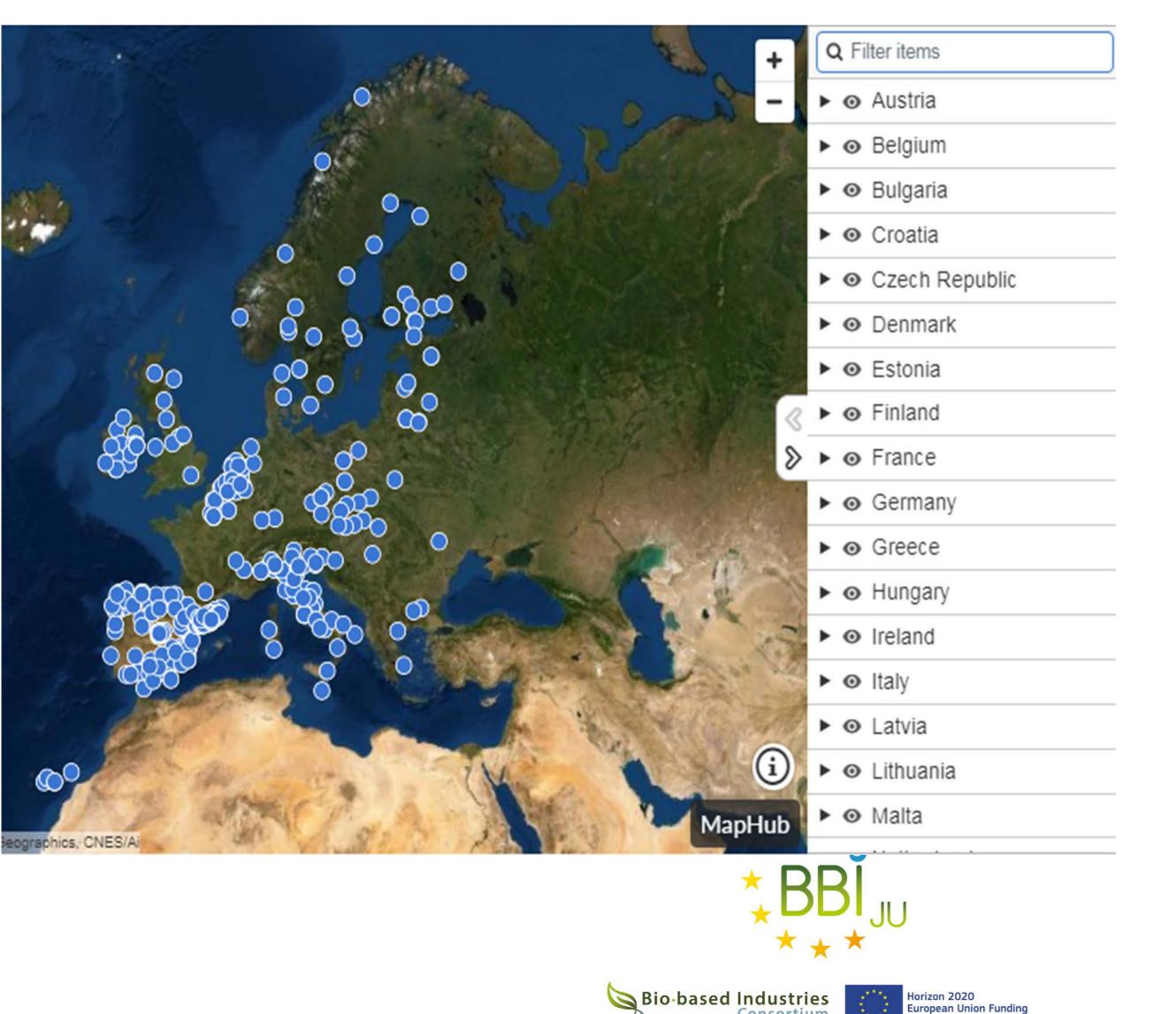
programme

UrBIOfuture

Experience



Educational Programmes Mapping



1228

Educational Programmes



Educational Programmes analyzed

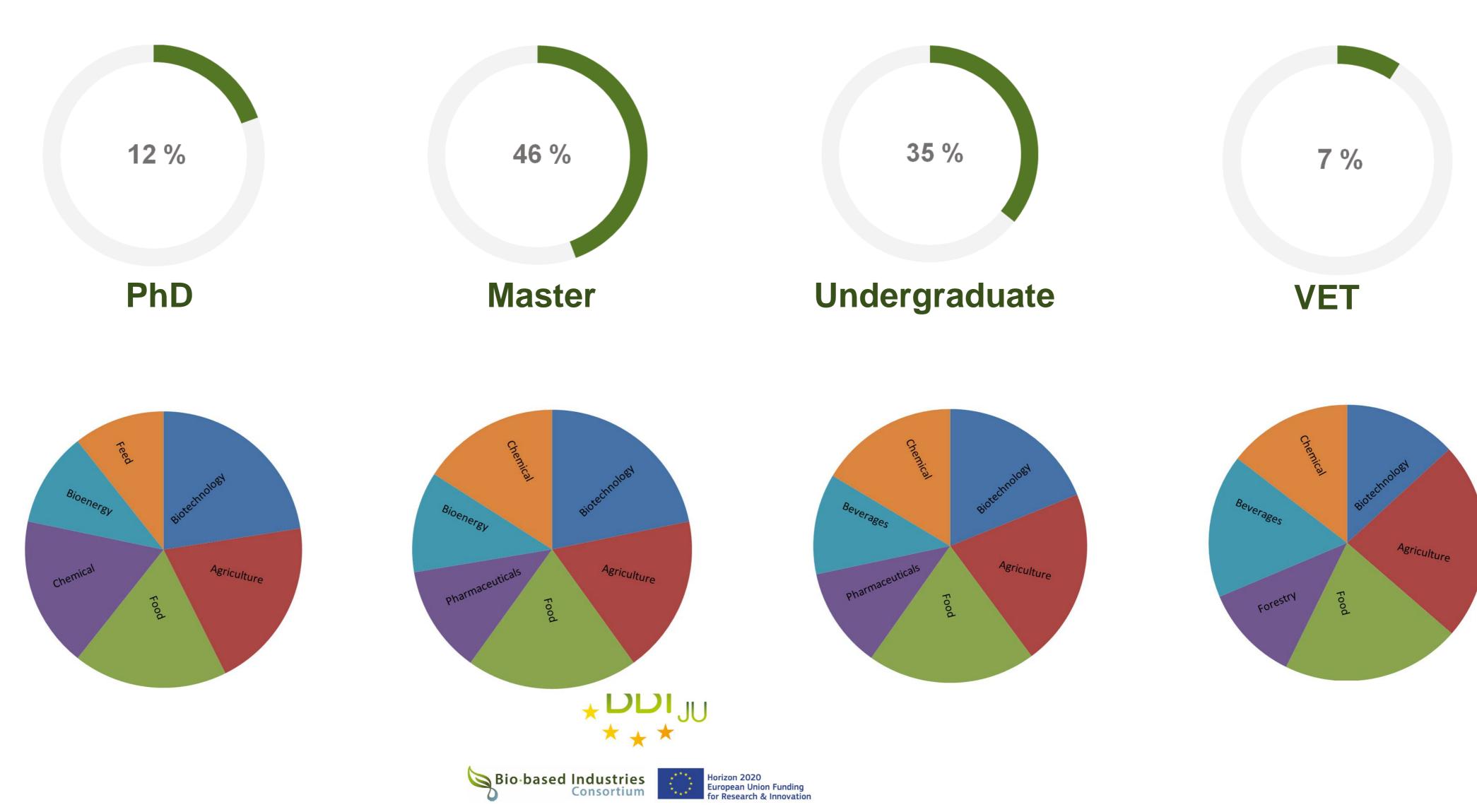


European Countries



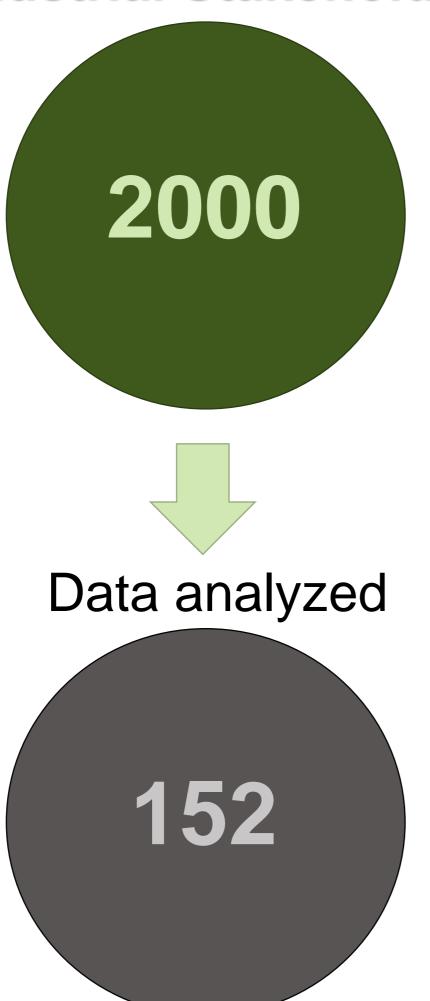


Educational Programmes mapping

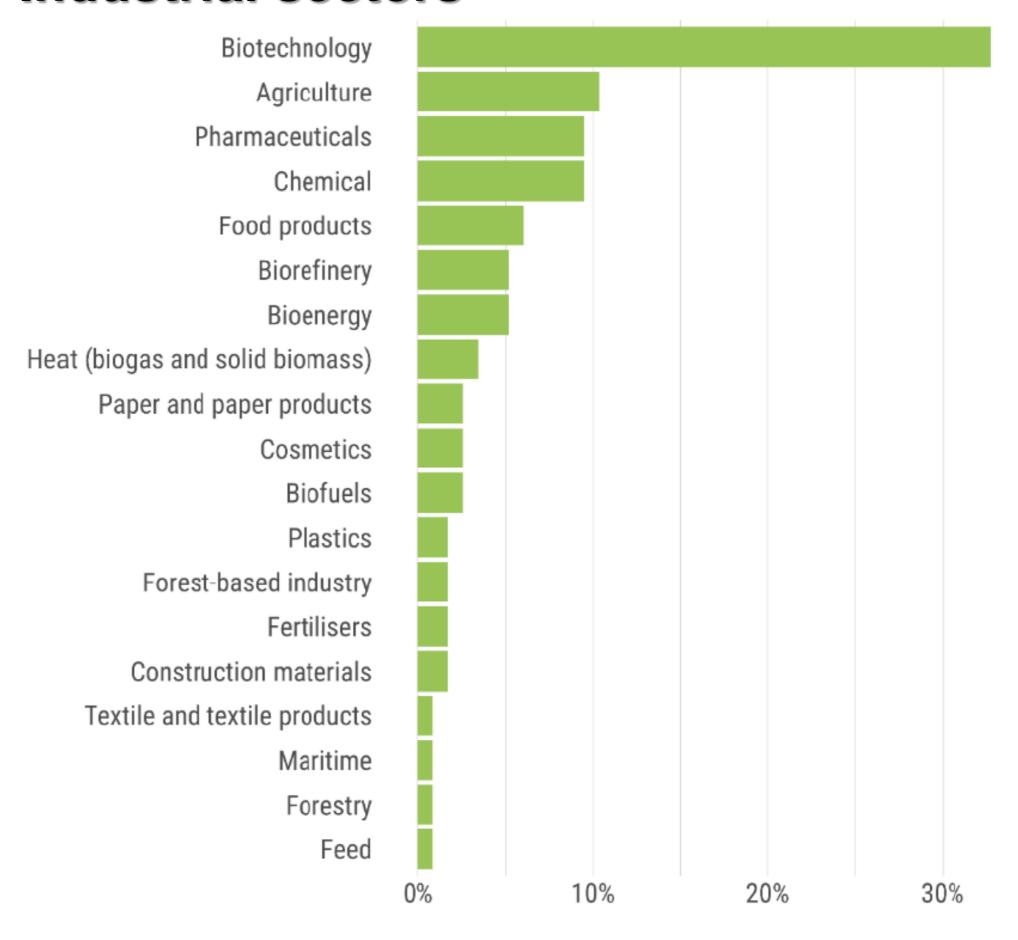


Survey to the Industrial Stakeholdeers

Industrial Stakeholders



Industrial sectors











Gaps among Industrial needs and educational programmes

Categories in which gaps and needs were identified by the bioindustry sector

Research & Innovation Personal initiative and entrepreneurship Management Sustainability and Industry Specialists in bio-based sector business/market development Technology / STEM (Science, Technology, Engineering and Maths) Sales and Marketing Basic Scientific Knowledge Rules and Regulations Soft Skills Technical expertise in primary conversion processes Technical expertise in materials, products and functionalization Technical expertise in secondary conversion processes Technical expertise in sustainable biomass production Data Management Social Responsibility - CSR





Main gaps





Conclusions: the European panorama



European Complexity

➤ Each country and region has its own legal framework and educational system.

Each region has it's own bio-based industry focus.









Educational system and Industrial sector

- The education system should analyze the industrial needs and prepare future professionals for the complexity of the bio-industry;
- The industry should collaborate with educational institutions, especially with incompany activities, proposing challenges and objectives that students must address and achieve.



Guidelines

- 1.Educating people with interdisciplinary skills i.e. skills related to industry 4.0, digital skills, standard requirements for new bio-products, critical thinking and problem solving
- 2. Reshaping classroom learning and developing flexible teaching by including experiences that stimulate creativity and problem solving skills.
- 3. Proposing Case-Study or Project-Based courses on bioeconomy and bioindustry
- 4.Creating strong links between European and national policy makers in order to lobby for the reduction of the administrative and financial restriction that compromise creation of traineeships in research centres and industries.
- 5. Promoting the training activities for educators in the bioeconomy sector.

