

Andalusian Regional Ministry of Agriculture, Fisheries, Water and Rural Development (CAPADR)

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Andalusian Circular Bioeconomy Strategy

Inaugural working group session of BIOTRANSFORM project, focusing on the theme of "Governance and financing challenges for circular bioeconomy"

10 October 2023

Regional Context



Sevilla Central CAP Services



Andalucía



1st European region in agricultural production

Total Area: 9 Mha

Agricultural Area: 4,4 Mha. Forestal Area: 4,6 Mha



Population: 49% in rural areas (4 Million people)

> 267.000 Farms



7.000 Agri-food industries

> 55.000 employees

23% of the PAS of Spain and 3% of the EU27



11.355 M€ Exports (2021): olive oil, fruits, vegetables

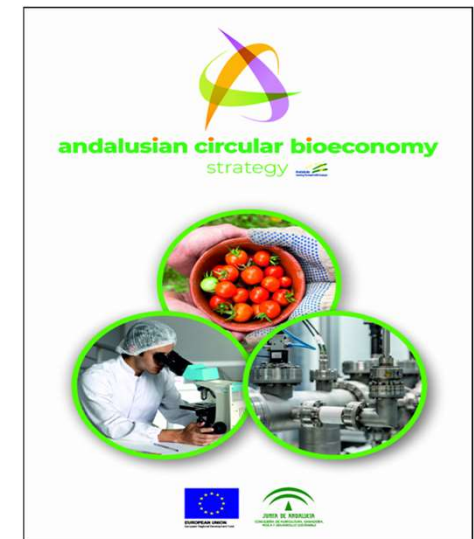


Andalusian Circular Bioeconomy Strategy

- Formulation of the Strategy by the Governing Council Agreement July 2016
- Approved 18 September 2018
- Direct contribution of 4 Regional Ministries:

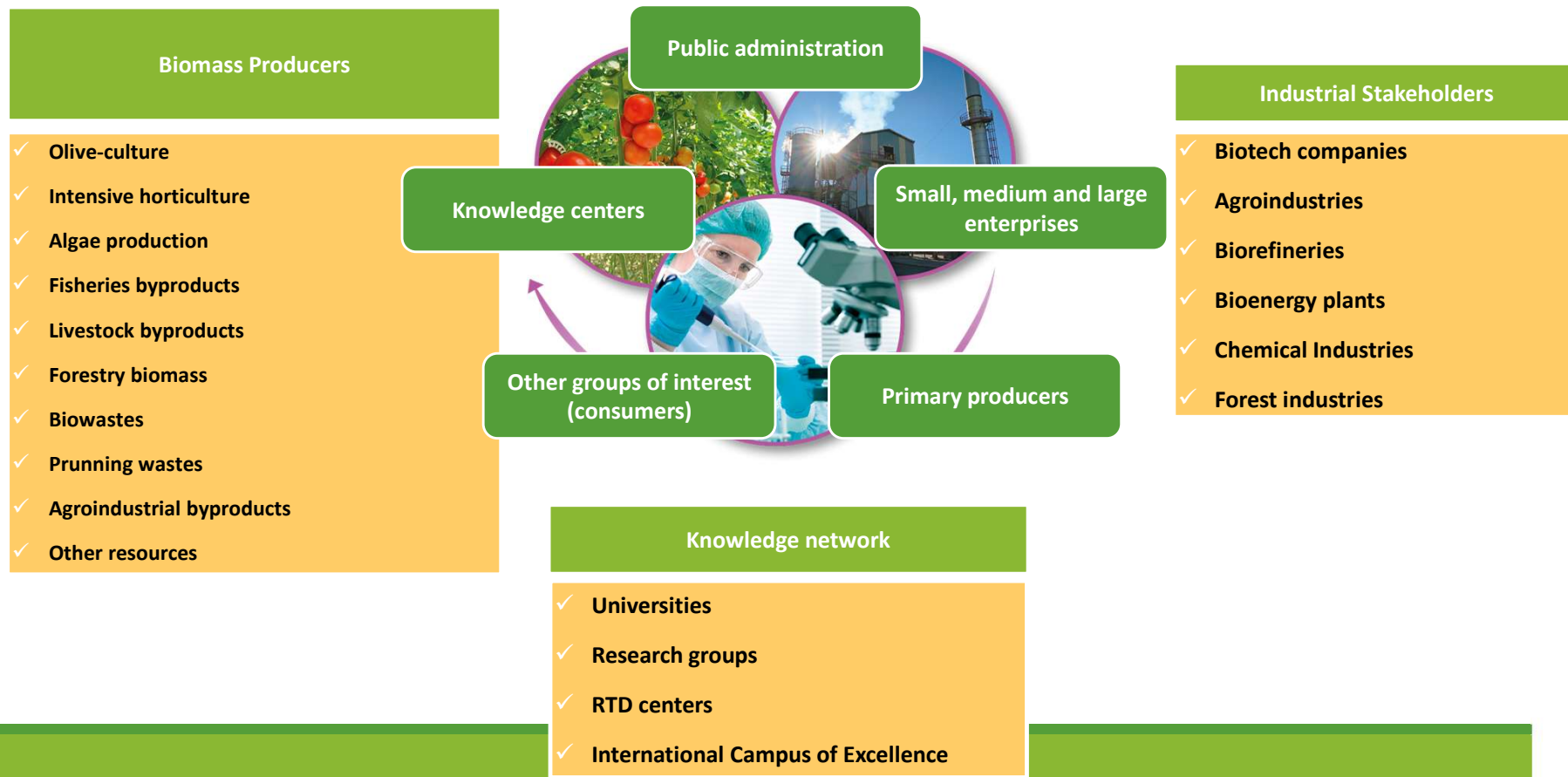
- Regional Ministry of Agriculture, Fisheries and Rural Development (Coordinator)
- Regional Ministry of Environment and Land Planning
- Regional Ministry of Economy and Knowledge
- Regional Ministry of Employment, Enterprise and Commerce

- External collaboration on Working Groups, more than experts → 50 experts
- Time Frame: 2030
- Under continuous review to adapt it to regulatory reality
- Total budget estimation: 1.4 M€





Stakeholders and capacities in the development of Andalusian Circular Bioeconomy Strategy





Andalusian Circular Bioeconomy Strategy

BIOECONOMY

Economic model based on use and production of biological resources and its sustainable and efficient transformation into bioproducts, bioenergy and services for the society

SCOPE

Andalusian Circular Bioeconomy Strategy (ACBS) is focused on bioeconomy segments and activities with lower implementation which claim for higher institutional support to facilitate its take-off and long-term consolidation

ACBS does not include directly primary production and agro-industrial transformation of food for human consumption. Specifically, sustainable practices for biomass production promoting a resource efficient use are considered





Andalusian Circular Bioeconomy Strategy

GENERAL OBJECTIVE

CONTRIBUTING TO THE SUSTAINABLE GROWTH AND DEVELOPMENT OF ANDALUSIA BY BOOSTING ACTIONS AIMED AT THE PROMOTION OF THE PRODUCTION OF BIOLOGICAL RENEWABLE RESOURCES AND PROCESSES

STRATEGIC OBJECTIVES

1. Increasing the availability of sustainable biomass for its use in innovative treatments

2. Increasing the volume of bioindustries and biorefineries in Andalusia

3. Increasing the bioproducts and bioenergy markets and consumption in Andalusia

CREATING AND MAINTAINING QUALITY JOBS

ENABLING THE INCORPORATION OF YOUNGSTERS

PROMOTING GENDER EQUALITY





Andalusian Circular Bioeconomy Strategy

4 STRATEGIC LINES

LE 1. Resources

LE 2. Logistics

LE 3. Processing

LE 4. Markets

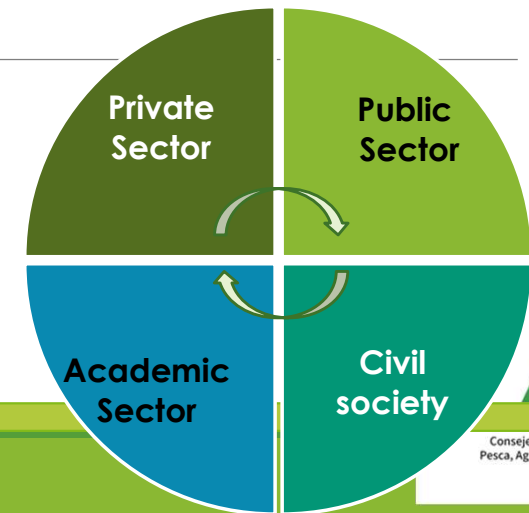
4 TRANSVERSAL PROGRAMMES

A. Communication

B. R&D+i and Education

C. Funding

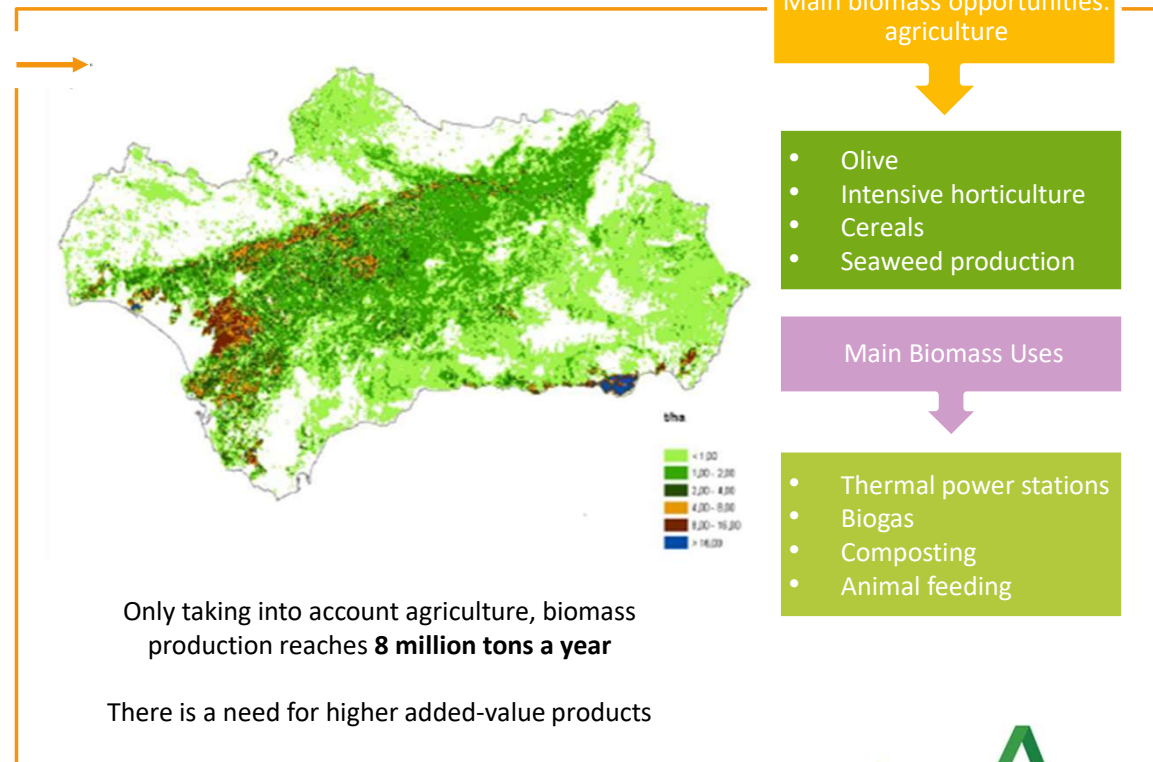
D. Collaboration





Challenges in Andalusia: biomass production systems and sectors of interest in the bioeconomy

- ✓ The agricultural sector and agribusiness (farming and livestock)
- ✓ The fishing sector and associated industry
- ✓ The aquaculture sector
- ✓ SANDACH
- ✓ The forestry sector and associated industry
- ✓ The seaweed production sector
- ✓ Municipal competence biowaste





Challenges in Andalusia: Biomass Resource Management, Logistics, and Transformation

Biomass resources must be **extracted, treated, and transported** to the facilities where they will be **processed and valorized** for their bioeconomic utilization

The management and logistics of biomass resources:

- Integrate **various operations** that ensure resources and products are available on time and in the right form
- **Adapt** to the type of resource, the transformed material, and the final bioproduct
- A **job** niche and population retention

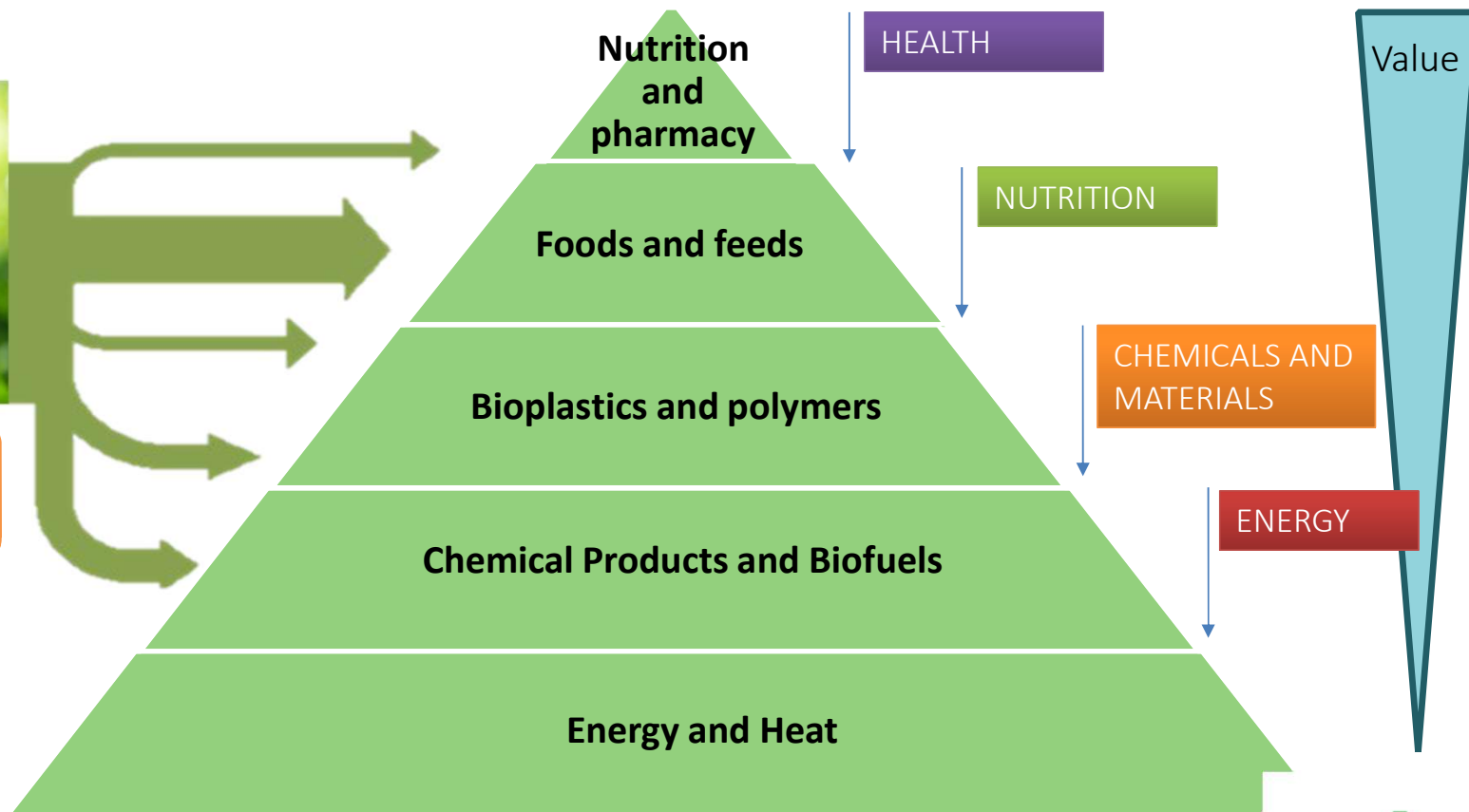




Challenges in Andalusia: To provide new added value to traditional uses

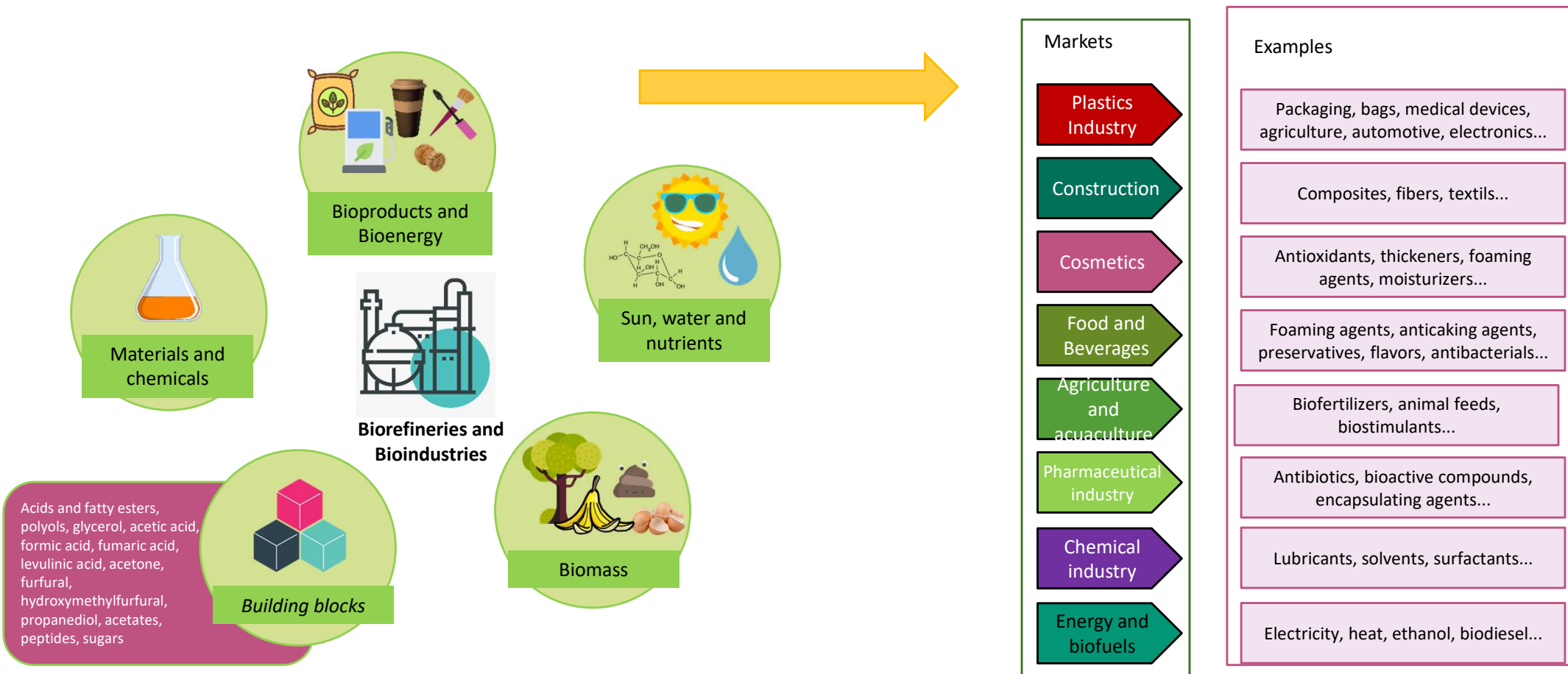


Cascade valorization





Challenges in Andalusia: Consumer markets for bioproducts





Challenges in Andalusia: Adaptation to regulations



Ley de **ECONOMÍA CIRCULAR DE ANDALUCÍA**





Challenges to the implementation of the bioeconomy

ICT-BIOCHAIN

Information and Communication Technologies to increase the efficiency of biomass supply chains



POWER4BIO

Supporting EU regions in the transition to the bioeconomy through tools, instruments and guidance for the development and implementation of bioeconomy strategies



Bio-based Industries Consortium

The Bio-based Industries Consortium (BIC) is a non-profit organisation that represents the private sector in a Public-Private Partnership (PPP) with the European Commission, focused on strengthening the bio-based industries sector in Europe

Mediterranean Innovation Alliance for Sustainable Blue Economy



2022 - 2025

SCALEUP
community-driven
bioeconomy development

Identifying and expanding **innovative and sustainable** biobased value chains in 6 European regions. Andalusia will work on the value chain of the **olive**



Challenges to the implementation of the bioeconomy

Training programme INTERCOONECTA

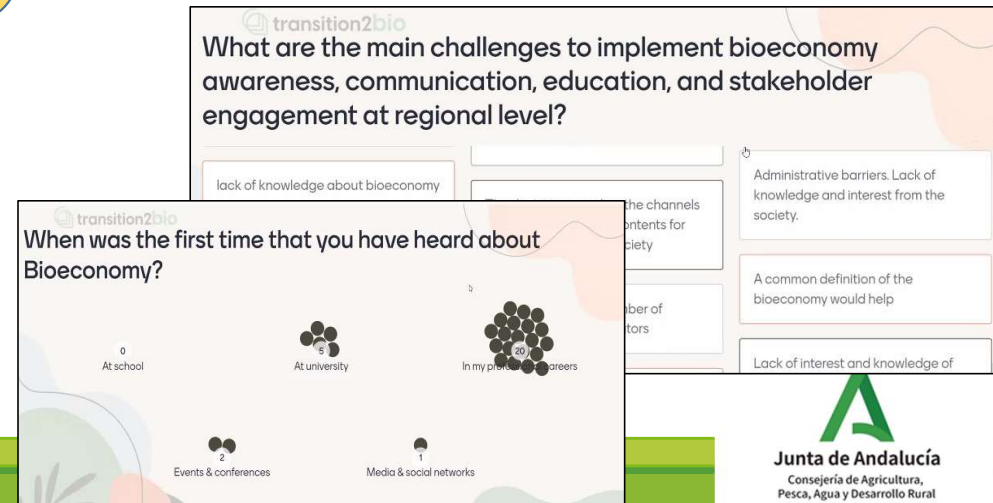
"Circular BioEconomy as a key element of innovation for the development of the new rurality through Central American rural MySMEs"



ROBIN aims to empower Europe's regions to adapt their **governance models and structures** in ways that accelerate the achievement of their **circular bioeconomy targets** while promoting social innovation and accounting for different territorial contexts



Communication about the bioeconomy is barely present in the **educational stage** and in **social networks, events, and advertising spaces**





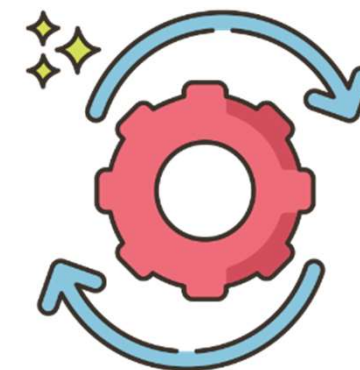
Updating of ACBS

Updating of actions and measures (**18 measures and 41 actions**)
Preparation of **monitoring indicators** for the implementation of the ACBS →
Collaboration with JRC (Joint Research Centre of the EC)

Increased focus on **awareness and communication** about the circular bioeconomy
Administrative simplification and the use of **new technologies**

Adapted to new regional and European regulatory and planning developments:

- **Andalusian Agri-food Sector Competitiveness Plan**
- **Andalusian Circular Economy Law**
- Planning for the **2021-2027 financial framework funds**
- Route established in the European Green Deal





Financial instruments for transition of bioeconomy

H2020
Horizon
Europe

European Regional
Development Fund
(ERDF)

**POTENTIAL
FUNDING**

European
Agricultural
Fund for Rural
Development
(EAFRD)

European
Territorial
Cooperation

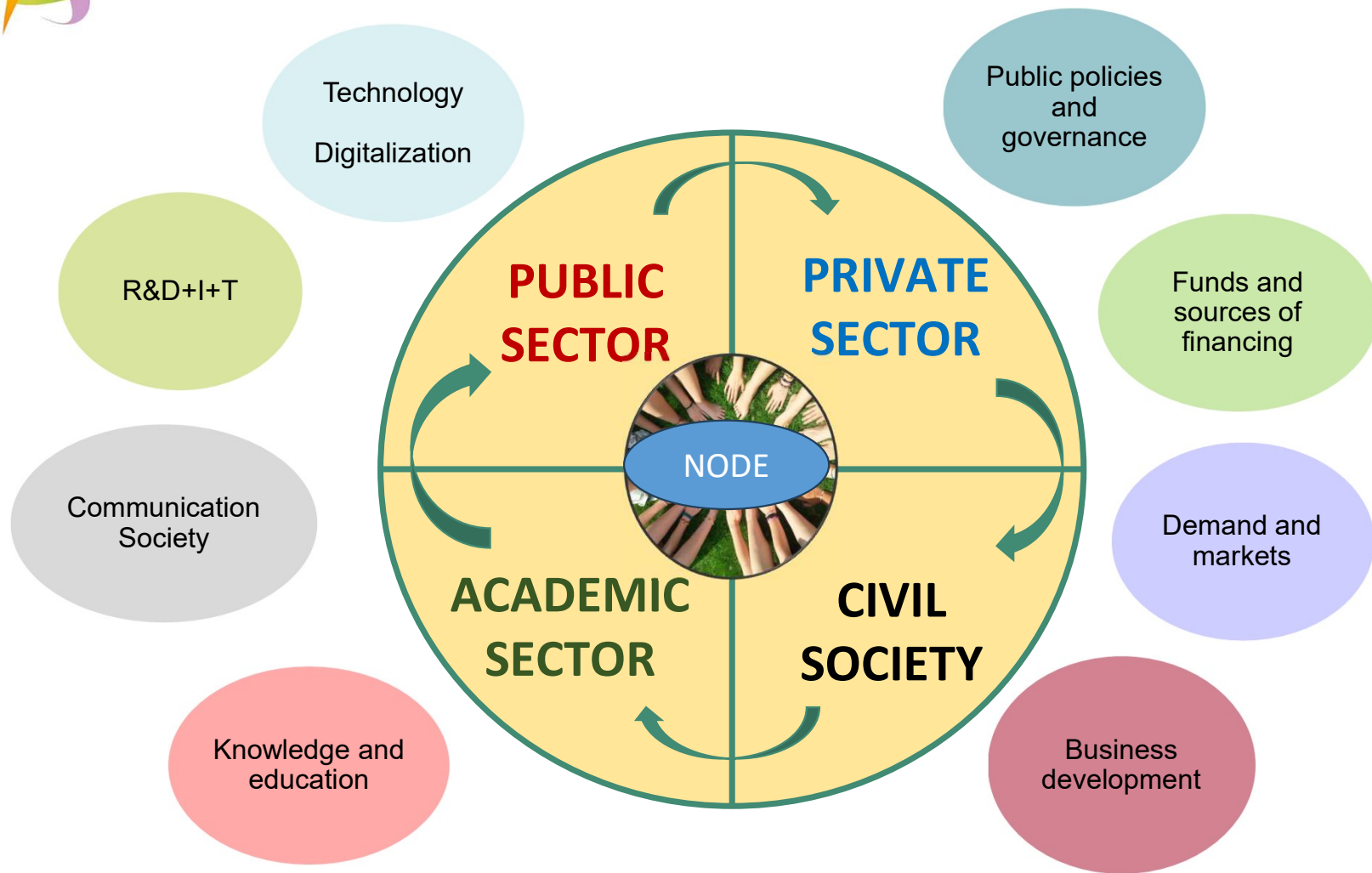
Bio-based
Industries
Consortium
(BIC)

Private
funding





Transition to Circular Bioeconomy: Coordinated Action



The implementation of the bioeconomy requires the integration and collaboration of various areas, policies, and stakeholders

Thank you for your attention!



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