"Bioeconomy Regional Investments. Driving Innovation into the Market. Examples in the Navarra Region (Spain)"

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ADIttech
ADVANCED INNOVATION & TECHNOLOGY CORPORATION
Navarra is a region located in northern Spain at the western end of the Pyrenees. It shares a 163-kilometre-long border with France. The region covers 10,391 square kilometers and has a population of almost 650,000. Navarra is a small region within Spain, but it is one of the most economically advanced together with the Basque Country, Madrid and Catalonia.

Navarra invest almost 1,9 % of its GPD on Research & Innovation (Spain average 1,3%)-2012

Navarra is one of the most industrialized regions in Europe. Industrial sector accounts for a 29% of the GPD. Navarra joined the VANGUARD REGION Initiative.

Approximately 17,5 % of the employment is linked to Research & Innovation. Navarra is the Spanish region with more patents/capita.

65% of electricity consumption in Navarra is produced from renewable sources.
ADIttech – Technology Corporation: Paving the way for a Systemic Innovation Ecosystem in Navarra
ADItech is a private non-for-profit Foundation gathering the Technology Centers located in Navarra. ADItech aims to create value by enhancing the market uptake of our research & innovation results, promoting investments and internationalization.

**Mission:** Becoming an **international reference in the technologies** we develop, focusing on excellence, incorporating **industrial interests** and major areas of research **promoted by the European Union**
4 business units (Strengths of our RIS3) – 950 employees (750 researchers)

- **ENERGY**
  - National Centre for Renewable Energies

- **AGRI FOOD**
  - National Center for Food Technologies (Agrifood sector)

- **INDUSTRY**
  - Multidisciplinary Center for Industrial Technologies

- **BIOMEDICINE**
  - Navarrabiomed-Fundación Miguel Servet and Center for Applied Biomedicine Research—
ADITech: Organizing the Innovation Eco-system and Value Chain

- Business creation
- Investors engagement
- Patents acquisition
- Foresight studies
- Technology transfer
- Moving technology upstream

Knowledge development
Applied Research & Innovation
Why Bioeconomy is important in Navarra?
Why Bioeconomy is Important in our Region?

Navarra has developed a forest & agrifood based strong economy.

**RIS3 – Smart Specialization**

*In Navarra Bioeconomy is part of the Regional Smart Specialization RIS3.* The Regional Innovation Strategy, RIS3, has been developed through the Model of Economic Development for Navarra and its implementation is periodically updated through the Technological Plans.

**BBI – PPP – Biobased Industry Consortium**

2 Technology Centers are members of the BBI

**Bio-based Industries Consortium**

**Large industries contributing from the private sector** (Agrifood, Chemical-Pharma, Paper)

**Other regional Stakeholders working on Bioeconomy**
Research & Innovation Facilities linked to Bioeconomy in our region

**Headquarter**
ADItech

**Energy**
- Sarriguren
- Sangüesa
- Aoiz

**Agrifood**
- San Adrián

**Industry**
- Noáin
- Pamplona
- Estella
- Cordovilla

**Biomedicine**
- Pamplona (CIMA)
- Pamplona (NavarraBiomed)
Example: “The 2nd Generation Biofuels (CB2G) Center: Boosting Regional Growth through Funds Synergies for Investments for Research and Innovation”
The CB2G constitutes an integrated trial and demonstration platform designed to develop processes, new biofuels and to apply bio-refinery concepts, either to biofuels production processes or to Biobased products.
Investment in the CB2G Plant for Bioeconomy Activities

The CB2G facility has been used progressively in a shift from mainly developments on energy projects, to an increased use for the development of Biobased products, with results closer to the market and with regional financing.

- ERDF Funds: 2.7 M €
- Spain Funds (ICTS): 1.5 M €
- Regional Navarра Funds: 13.1 M €
- CENER – Internal Resources: 0.3 M €

Total Investment in the CB2G Centre (2008 – 2013): 17.6 millions €

Up-stream approach

Capacity building and research infrastructures for H2020

Down-stream approach

Research & Innovation. Implementation and valorization of results from H2020 projects
How to align regional strategies to support innovation eco-systems

A regional Model for Generating Investments & Growth

FP7 & H2020 Projects

- FP7-KBBE – “LOGISTEC: Logistics for Energy Crops”
- FP7-Energy – “SECTOR: Supporting market introduction of torrefied products as sustainable energy carrier”
- FP7-Energy – “ECODIESEL: High efficiency biodiesel plant with minimum GHG emissions”
- INTERREG IVB – “VALUE: Technology transfer on recovery of waste vegetable processing industry”
- POCTEFA – “ENERGREEN: Readapting conventional micro-algae cultures to obtain microorganisms with higher productive potential

Regional Innovation funded projects in collaboration with large companies developed with the support of the CB2G

BIOPEST Project (Bioinsecticides) / Fer4Bio (Biofertilizers)
SYN2OL (Syngas) / INDUSOLIDFER (Bio-fermentation)
SIMBIOTPLUS Project (Animal Healthcare)
SIMDIACOL Project (Health)
Consolidation and New Challenges for the Regional Actors
Conclusions: “Synergies are a bi-directional road”

Regional Level
Stakeholders in Navarra are contributing to an improved Regional Bioeconomy Strategy

EU Level
ADItech is active in European initiatives

Call for the Expression of Interest
Selection of six Model Demonstrator Regions to receive Advisory Support from the “European Sustainable Chemicals Support Service”
Thank you!

Contacts

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