



CASA – SCAR NATIONAL MEETING at INIA (Spain)

“The EU Bioeconomy Panel and the participation of ADItech as regional stakeholder”



ADItech

ADVANCED INNOVATION & TECHNOLOGY CORPORATION

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Madrid, 10-11th May, 2017

Outline of the Presentation

1. ADItech and Navarra region in a snapshot
2. Navarra Innovation Ecosystem
3. The EU Bioeconomy Panel and the regional stakeholders participation
4. An active contribution from the regional stakeholders to the EU Bioeconomy Panel
5. Conclusions

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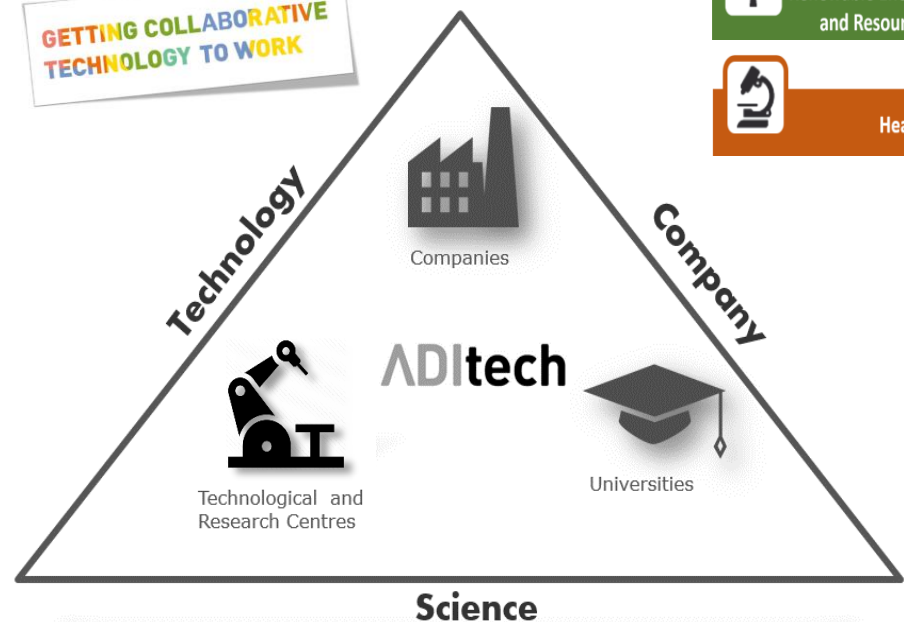
ADItch in a Snapshot

ADItch is a private foundation bringing together 7 Technology and Research centers located in Navarra region (Spain). ADItch main office is located in Pamplona city and has also a Brussels office

Mission: to connect **science**, **technology** and **industry** in Navarra, with the aim of contributing value to society, developing new products that incorporate the latest knowledge on technology and innovation and R&D, generating jobs and economic development in the region.



GETTING COLLABORATIVE
TECHNOLOGY TO WORK



Board of ADIttech's Foundation

22 companies

6 board representatives from the technological Units

7 Institutional representatives



Navarra Region in a Snapshot

Navarra Region is located in the North of Spain. Next to the East border with the regions of Aragon and La Rioja, and to the Northwest by the Basque Country



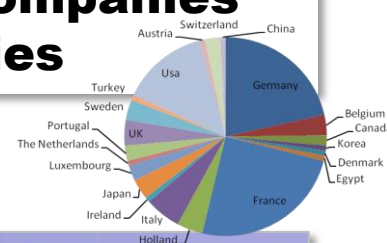
GDP

30.900€

**Manufacturing
Share**

31,5%

**Over 100 multinational companies
from 20 different countries**



NAVARRA IS IN:

19TH

PLACE AMONG THE 271 EUROPEAN REGIONS,
WITH THE HIGHEST LEVELS OF QUALIFIED
PEOPLE IN SCIENCE AND TECHNOLOGY

MORE THAN 125

Foreign multinational companies located in Navarra

640.000

People live in Navarra

197.000

People are resident in Pamplona

10.391

Square kilometres of territory



Navarra Innovation Ecosystem



- **6 Technological Centres**

Non profit innovative institutions focused on development of technology to be deployed in industry

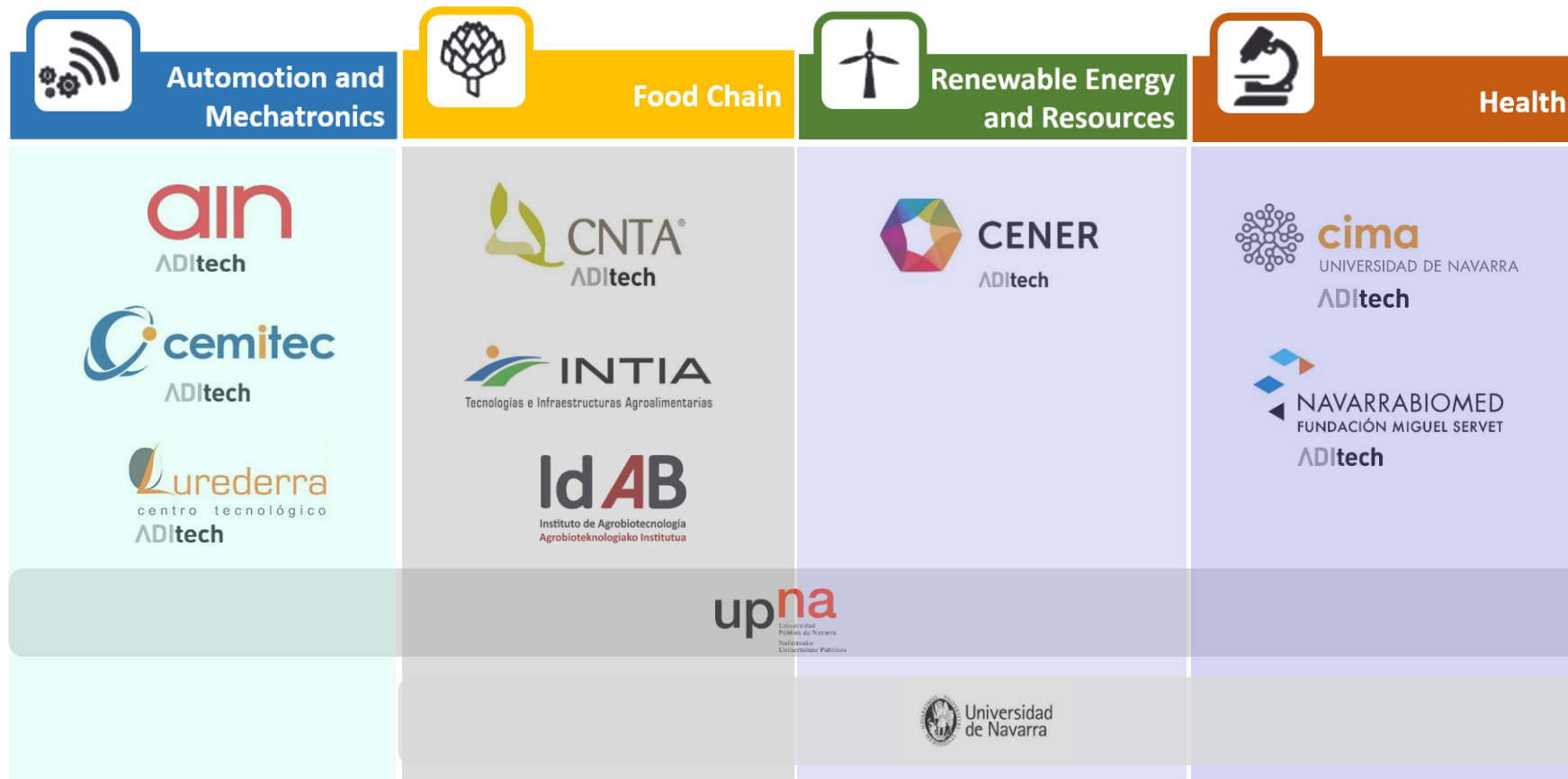
- **3 Research Centres**

Non profit R&D institutions focused on generating new knowledge

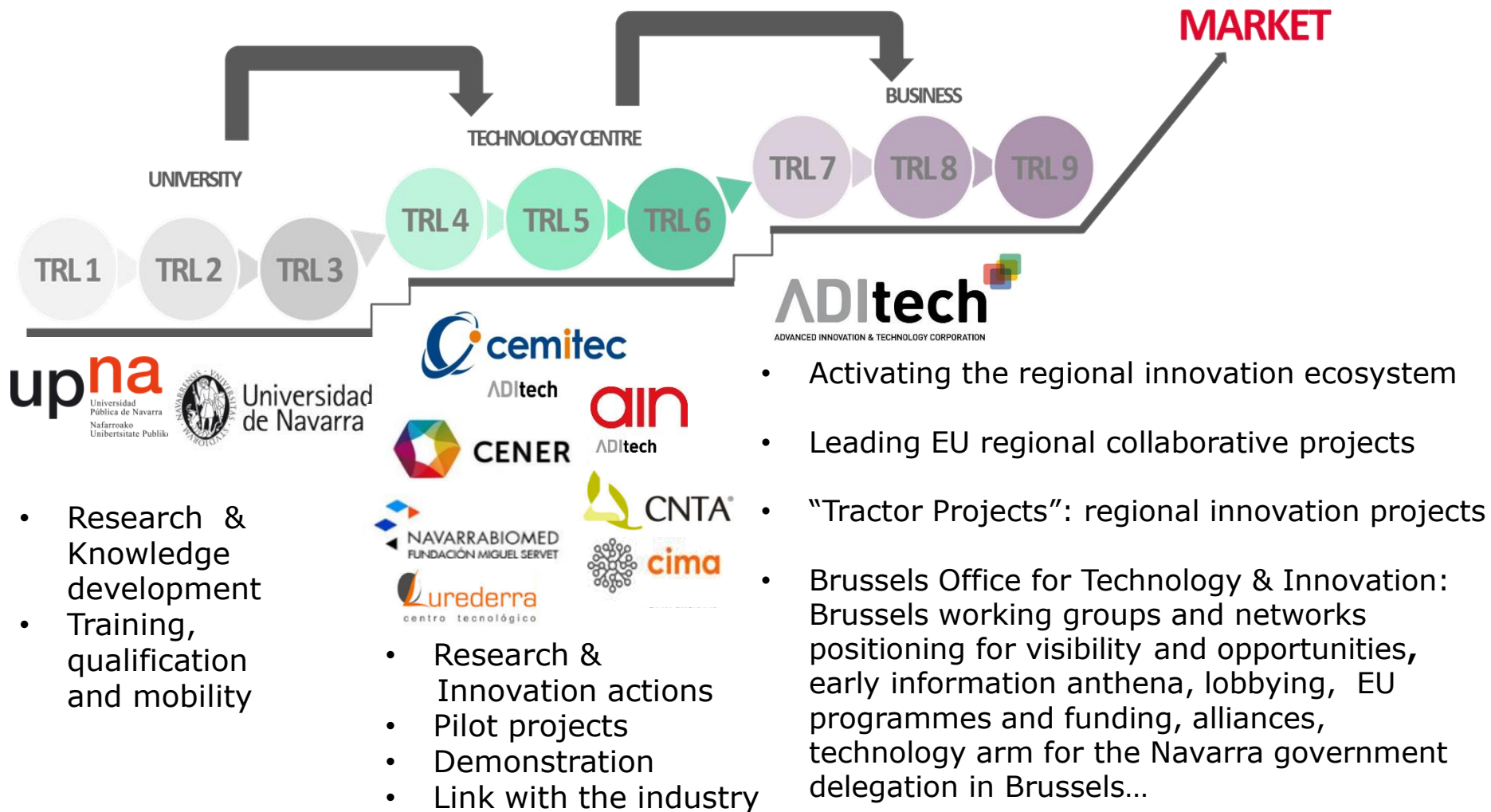
- **2 Universities**

High level academic institutions focused on teaching but also on basic scientific research activity

RIS3 vs. Research Centres and Infrastructures



TRL scale vs. Research Centres and Infrastructures





The EU Bioeconomy Panel and the regional stakeholders participation

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EU Bioeconomy Strategy and Action Plan

Investment in R&I



- Horizon 2020
- Increase multi-disciplinary & cross-sectoral R&I
- Smart Specialisation
- EFSI

Policy Interaction & Stakeholder Engagement



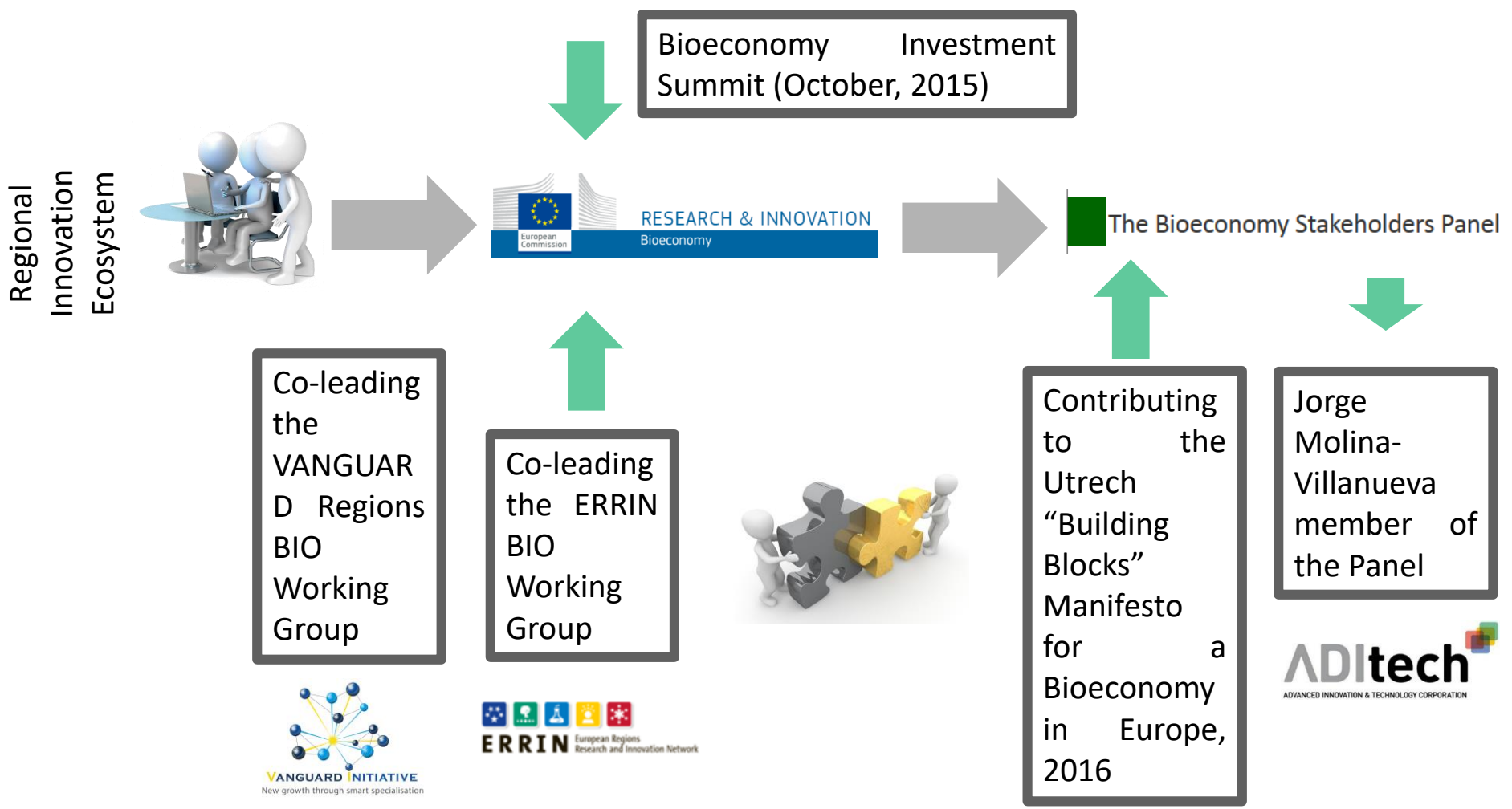
- **Bioeconomy Panel**
- Bioeconomy observatory
- EU Policy coherence
- Development of regional and national bioeconomy strategies
- International cooperation

Enhancement of Markets and Competitiveness in Bioeconomy



- Sustainable intensification of primary production
- Expansion of new markets
- Increase EU competitiveness
- BBI JU

ADIttech active contribution



Members of the Panel 2016 - 2020

30 people from:


- NGOs
- Trade Unions
- Regions and regional organizations
- Technical Institutes and Universities
- Industry and Sector Representatives



Pan-European and representing approx. 18 member states

4 Spanish representatives: ADITECH, CEPESCA, FIAB, IVIA

http://ec.europa.eu/research/bioeconomy/pdf/list_of_members-short.pdf#view=fit&pagemode=none



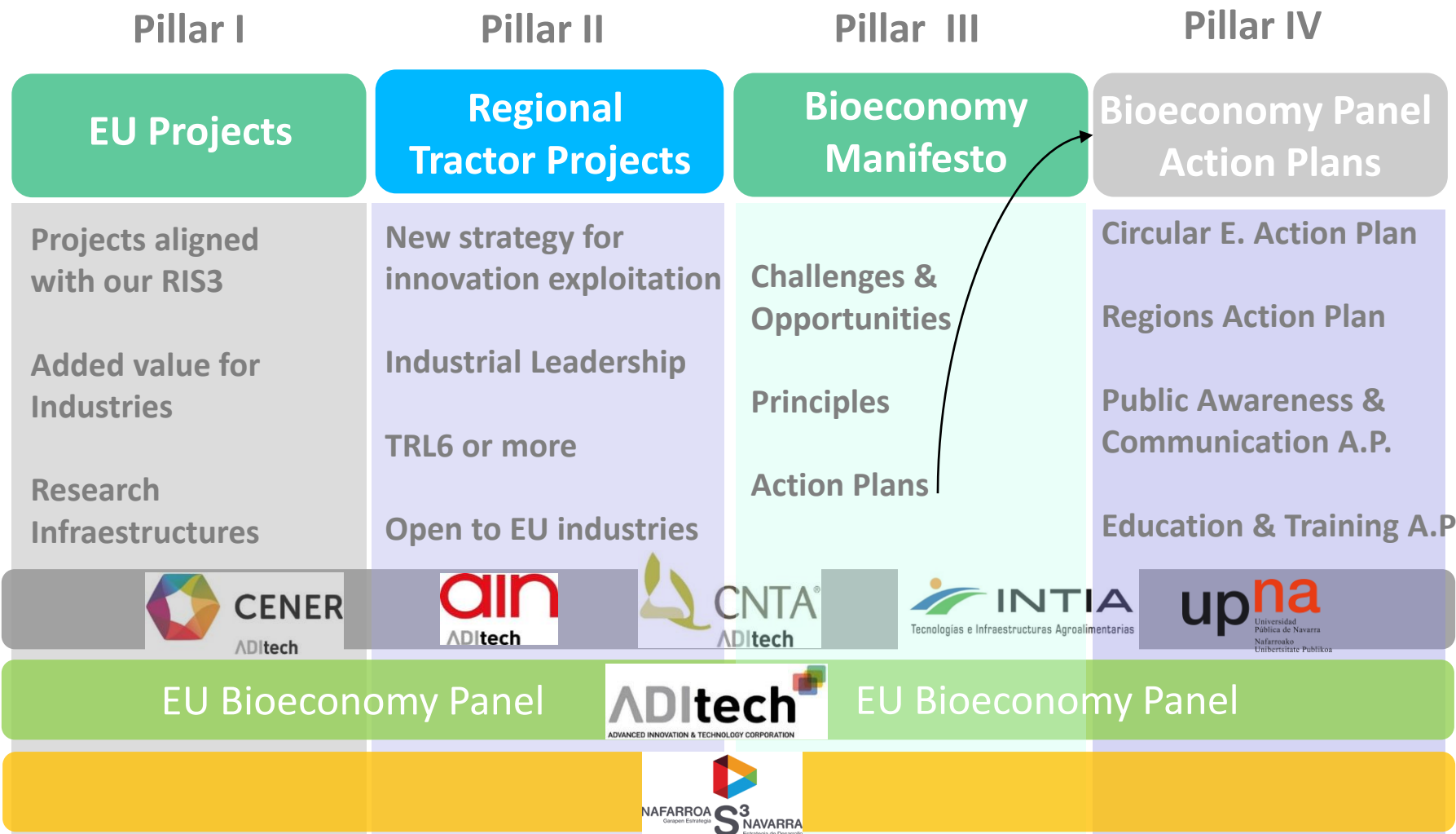
An active contribution from the regional stakeholders to the EU Bioeconomy Panel



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Sinergies between the EU Bio Panel and the regional stakeholders interests



Pillar I: on EU Projects



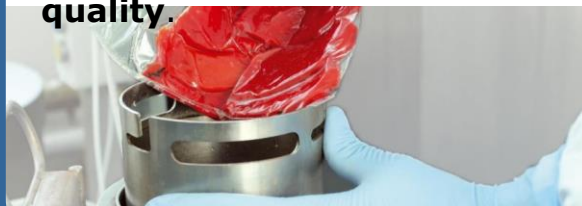
PROJECTS

www.cnta.es



hipster-project.eu

Combined **high pressures processing with temperature** to achieve more sustainable food, safer, with a longer shelf life and with better sensory and nutritional **quality**.



resfood.eu

Maximise resource productivity and **recycling and re-use of valuable materials** by research and demonstration of the proposed green solutions.



BIOSEA

Validation and scale-up a complete production process of **ingredients from** the lipid, protein, carbohydrates and minority compounds fractions from **algae**, using cascading biorefinery approach



Pillar I: on EU Projects

PROJECTS

www.intiasa.es

SME ORGANICS

Interreg Europe

EC proposal for an Action Plan for Organic Food and Farming encourages regions to find the most adequate policy and funding mix to support the development of the regional organic sectors.

Enhancing SME competitiveness and sustainability in the organic sector

The overall objective of SME-ORGANICS is to improve policies and programmes under the Investment for Growth and Jobs goal in order to enhance the competitiveness and sustainability of SMEs in the organic sector



LIFE AGROIntegra brings to the agri-food sector the most innovative IPM techniques through practical demonstrations that allow farmers to see first hand their technical and economic feasibility.

Pests monitoring and warning system
Pests risks alerts

Development of the DST (Decision Support Tool)
Advising Tool on Integrated Pest Management

Culture guides
Culture and Integrated Pests Management Guides

AGROIntegra will provide its tools and the protocols of action.



Smart Farming represents the application of modern Information and Communication Technologies (ICT) into agriculture, leading to what can be called a Third Green Revolution.

3 interconnected technology fields addressed by Smart AKIS Network:

- ✓ Management Information Systems
- ✓ Precision Agriculture, including Decision Support Systems
- ✓ Agricultural automation and robotics



An alternative for sustainable agro-livestock management and soil improvement.



The main objective of the project is to demonstrate, under different agroclimatic and livestock systems conditions, the viability of an innovative pasture management system based on the regenerative agriculture principles and its environmental effectiveness, as well as to dissemination and transfer the obtained results.



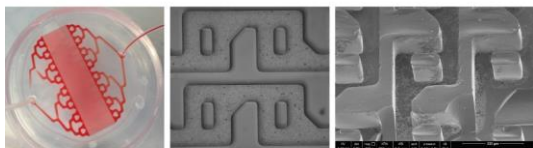
Pillar I: on EU Projects

www.aditechcorp.com



NET-MARKET-FLUIDICS
www.netmarketfluidics.eu

It is a **market approach project** for tackling the bottlenecks preventing the deployment of micro and nanofluidics in Europe.



The creation of a European network with the main research groups working on these lines will allow researchers to better analyze the main **challenges for micro & nanofluidics applications**.



INKREASE
Interreg Europe

INKREASE aims at mainstreaming policies and tools **improving the capacities of innovation ecosystems**, the collaboration between research and business communities and the economic valorisation of research results into the regional strategy.



www.interregueurope.eu/inkrease



NAVARDMI-HUB

This Innovation Action is improving the adoption of Cyber-Physical Production Systems (CPPS) in manufacturing SMEs by providing regional innovation ecosystems made of competence centres, manufacturing enterprises and IT SMEs.

**BUSINESS EXPERIMENTS IN
CYBER PHYSICAL PRODUCTION SYSTEMS**

ADitech leads one of these REGIONAL INNOVATION ECOSYSTEMS in Navarra focused on Cyber-Physical Systems and Internet of Things in manufacturing.

<http://www.beincpps.eu>

<http://i4ms.eu>



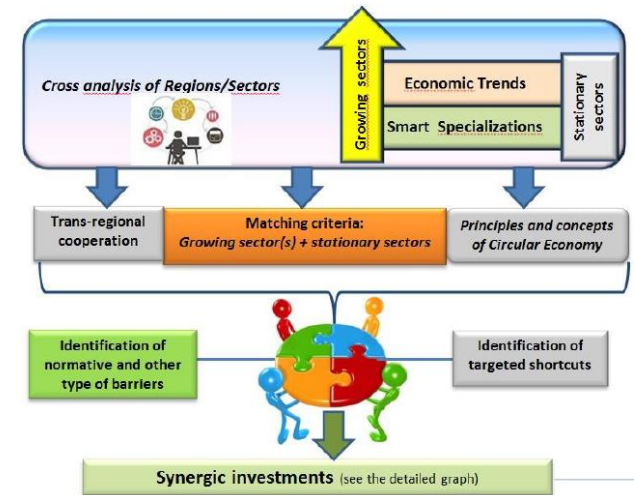
Pilar I: on EU Projects

PROJECTS



SCREEN aims at the definition of a replicable system towards a transition to Circular Economy in EU regions within the context of the RIS3.

The concept of the action is to develop a EU reference framework for establish operational synergies between Horizon 2020 and the European Structural and Investment Funds related to Circular Economy.



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No730313

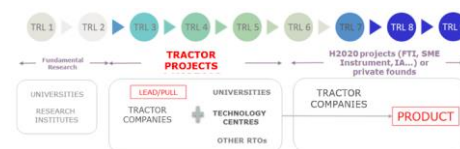


Tractor Projects

New strategy for R&D results exploitation

Definition: These innovation projects, promoted and coordinated by ADitech, are a successful funding scheme of the management of R&D regional funds with a focus on approaching to market needs, seeking tangible and exploitable R&D results that solve real industrial technological challenges.

Concept: Entities of **Navarra Innovation System** will make an investment to develop a technology / service / product that will be transferred to a Tractor Company.



>35 COMPANIES ENGAGED
>45 PROJECTS IN PROGRESS

TECHNICAL SUCCESS RATIO >75%
REVENUES GENERATED in 2016 2,6 M€

Supported by:



Coordinator entity:



Beneficiaries:



Navarra Innovation System

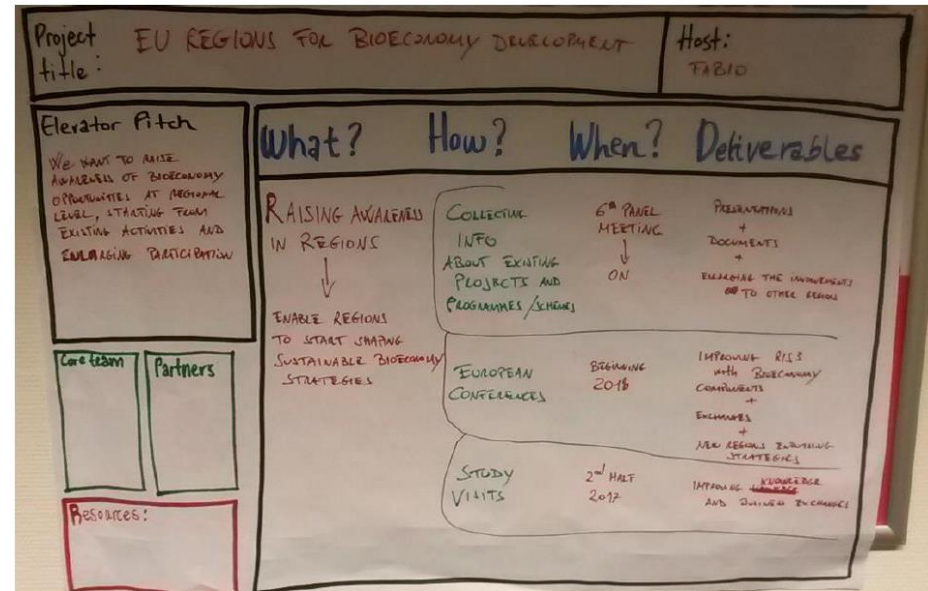
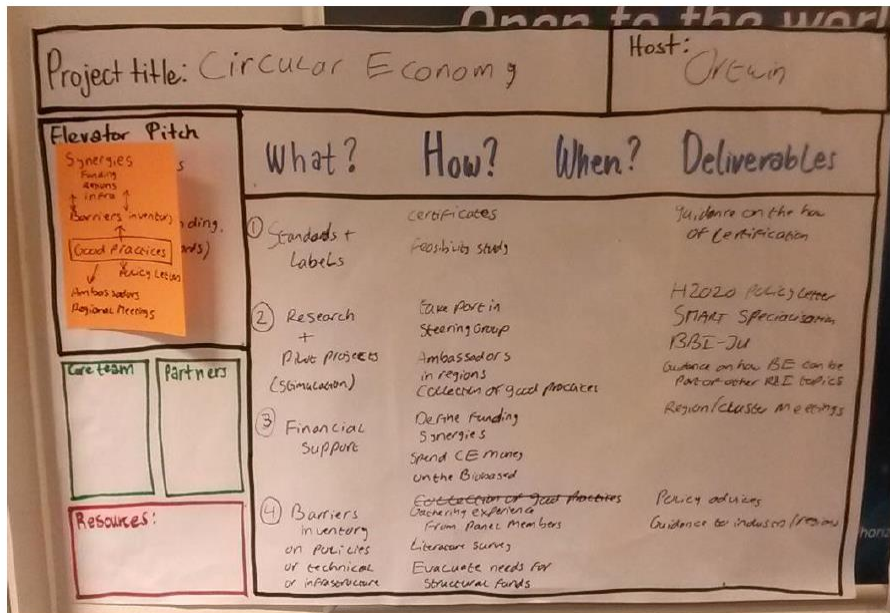
Pillar III: Bio Panel – Have your own say in the Manifesto

<p>Slide3.</p> <p>Manifesto Content</p> <ul style="list-style-type: none"> • Introduction • Challenges and Opportunities • Guiding Principles • Actions • Recommendations to the EU and MS 	<p>Slide 4</p> <p>1. Introduction</p> <ol style="list-style-type: none"> 1. Who we are 2. What is the Bioeconomy 3. Why we need the Bioeconomy 3b. What is the Challenge <p>↓</p> <ol style="list-style-type: none"> 1. Who we are 2 What is the bioeconomy (take away history part) 3 Why we need the bioeconomy 4. Why this document
<p>Slide 5</p> <p>2. Challenges and Opportunities</p> <ol style="list-style-type: none"> 4.Three pillars of Sustainability (Move to section Guiding Principles) 5.Mitigating Climate Change 6.Socioeconomic sustainability 7.Managing the planets limited resources (take out?) 8.Rural renaissance and marine 9.Manage the planet's limited resources (same as 7 and 13) <p>↓</p> <ol style="list-style-type: none"> 4. Planetary Boundaries (BB7+BB9) 5.Mitigating Climate Change 6.Socioeconomic sustainability 8. Opportunities for rural areas 	<p>Slide 6</p> <p>3. Guiding principles</p> <ol style="list-style-type: none"> 10. Bioeconomy can gain critical mass by closer cooperation between sectors and value-chains (Connectivity?) 11. Stable legal framework for investments 12. Food and water security 12b. Materials for societal needs 13. Sustainable land use 14. EU Energy Policy 15. Resource Efficiency 16. Role of Regions 16b. Valorising agricultural land (???) 17. Marine and aquaculture (not a guiding principle, rather a description of blue bioeconomy -> this could be moved to Challenges and Opportunities. If we add Marine, we should also consider adding other bioeconomy value chains?) <p>↓</p> <p><u>Addressing Societal Challenges</u></p> <ol style="list-style-type: none"> 10. Three pillars of sustainability (people, planet, profit) 11. Contribution to climate change mitigation 12. Resource efficiency and smart consumption 12. Efficient use of land and resources <p><u>Facilitating the bioeconomy</u></p> <ol style="list-style-type: none"> 13. Stable legal framework for investments 14.Closer cooperation between sectors and value-chains 15. Knowledge and research driven (NEW) 16. Role of Regions

The possibility to influence from Navarra stakeholders:

- More than merely creating sustainable growth, the bioeconomy should also make possible a regeneration of the natural capital. The **stock of natural capital has been globally reduced by human activity**, the bioeconomy, based on renewable biological resources, should guarantee the improvement of the current natural capital conditions through a **regenerative bioeconomy**, not only the reduction of negative impacts but also an increase in the eco-effectiveness of industrial systems under a systemic approach. ("From doing less bad to doing good").

Pillar IV: Bio Panel: Actions Plans



- Being part of the Bioeconomy Panel gives you the possibility of creating synergies with other EU initiatives and stakeholders
- The region and the stakeholders of the region can play an active role in Brussels

Conclusions



Bioeconomy development in EU regions

Mapping of EU Member States' / regions' Research and Innovation plans & Strategies for Smart Specialisation (RIS3) on Bioeconomy

Final Report – February 2017

Framework Contract: 2014.CE.16.BAT Lot 2

Specific Contract: RTD/F1/PP-03681-2015

“State of the Art”



Boosting Bioeconomy: Market needs and scaling up

23rd May 2017

House of Dutch Provinces

Trierstraat 59-61, B-1040 Brussels

Draft Agenda

Time	Draft Agenda
09:30	Registration
09:50	Welcome <ul style="list-style-type: none">Northern NetherlandsRichard Tuffs, Director, ERRIN
Part 1: Plenary Session	
10:00	The European Bio-economy Strategy: Information on Biochemical and Biomaterials <ul style="list-style-type: none">Waldemar Kütt, Head of Unit, European Commission Q&A
10:30	Bio-Based Industries – 2017 topics on biochemical, polymers, composites and bio-plastics <ul style="list-style-type: none">Nelo Emerencia, Coordinator Programming, BIC
11:00	Coffee Break
11:15	EIT Raw Materials <ul style="list-style-type: none">Up-scaling projects KAVA (tbc)
11:30	World Chemical Summit <ul style="list-style-type: none">Pilar Navarro, Director, World Chemical Summit
11:45	Knowledge infrastructure / technical infrastructure in bio-economy <ul style="list-style-type: none">CENER's Industrial research infrastructures for developing, validation and up-scaling bioprocesses: conclusions after 4 years of operation experience, Javier Gil, Director of Biomass Area, CENER – Technology Center, Navarra - Spain

“State of Play”



Thank you i



**Jorge Molina-
Villanueva**

Director EU Programmes &
Head of Brussels Office

Madrid, 10-11th May, 2017

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