















Albert Puigvert Tuneu

Manager

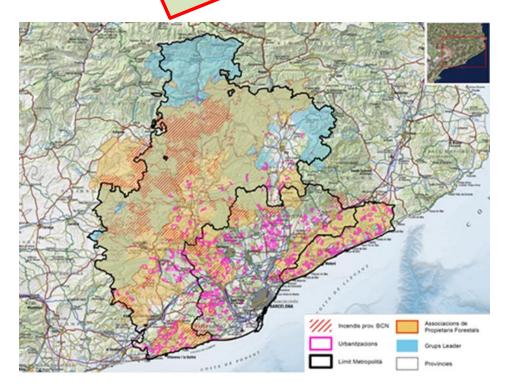
Associació d'iniciatives Rurals de Catalunya

European City Regions facing today's challenges

Committee of Regions 27 November 2017

Which is the scope of action?

In Catalonia 2/3 of the territory are forest land. This means 66% of the total area, which represents serious difficulties to ensure its economic viability



Non Metropolitan Region of Barcelona

POPULATION

Barcelona 's region 5.523.922 inhab.

PECT's area
1.191.161 inhab.
(16 % of the total population)

DENSITY

Population density in Barcelona's region 715 inhab./km²

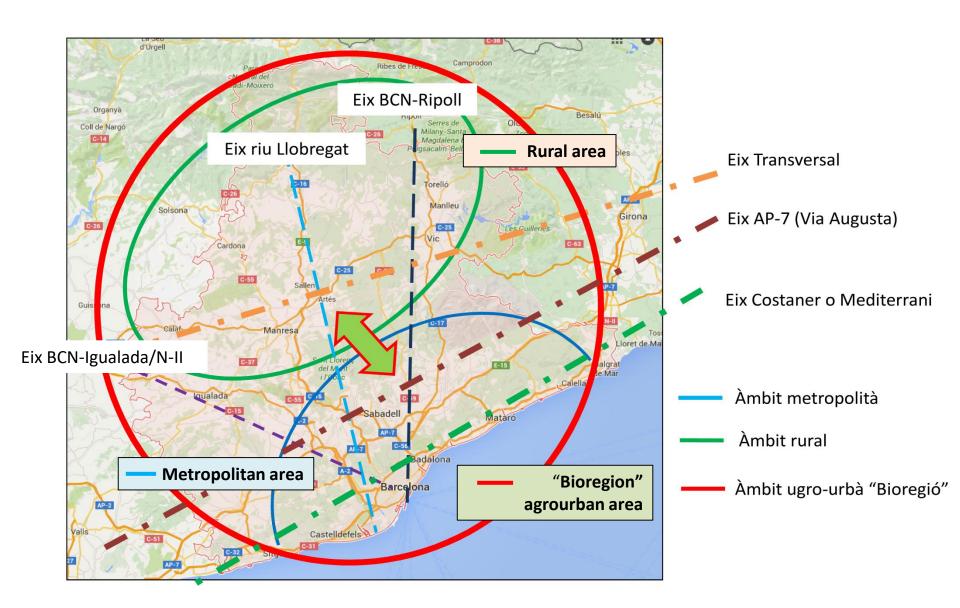
PECT's area
210 inhab./m²
(30 % of the total average)

SURFACE

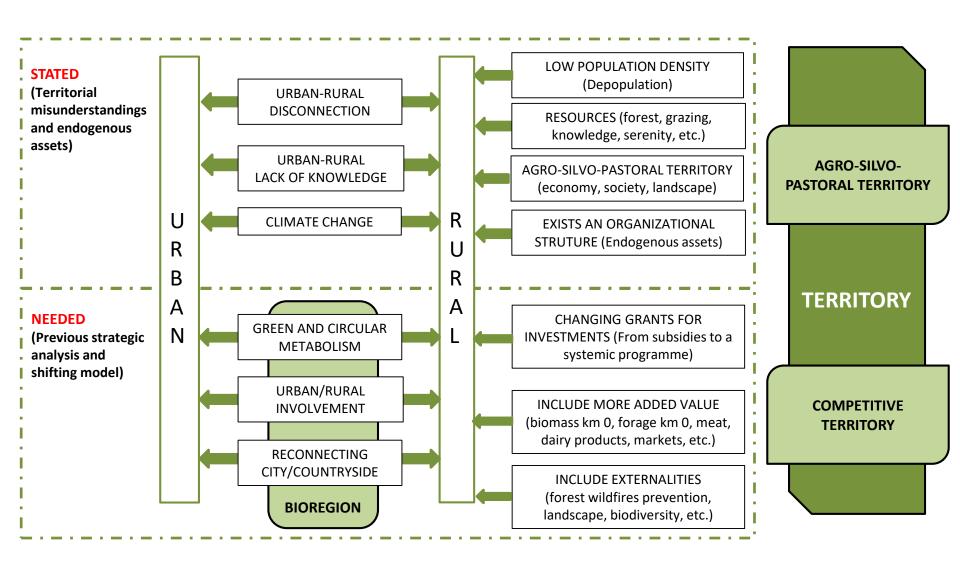
Barcelona 's region 7.728,17 km²

PECT's area
5.661,66 km²
(73,26 % of the total area)

Which is the scope of action?



Where does the project come from?

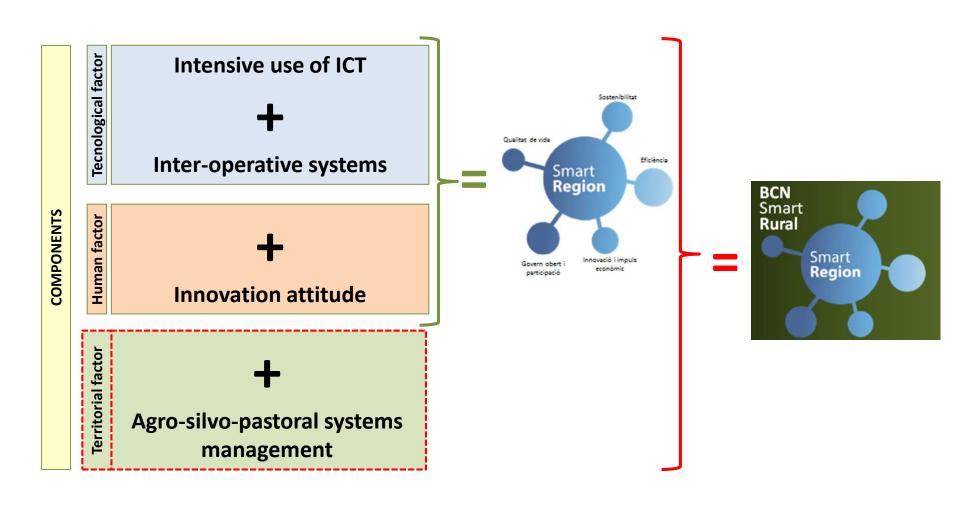


We wonder...?

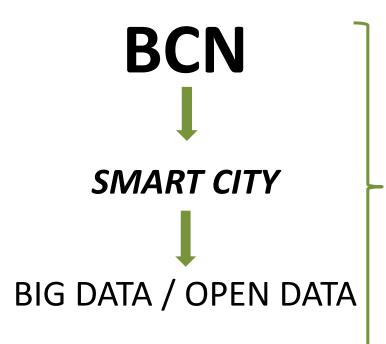
BARCELONA, CAN BECOME A SMART CITY? IS IT A SMART CITY?

- Smart Cities are cities which use mecanisms based on Information and Communication Technologies (ICT), oriented to improve the management on differents services as well as the quality of life of its inhabitants.
- Without rural areas is not possible to develop smart cities and their purpose on sustainability and energy, water, food efficiency
- ➤ A city, a territory, a country who wants to be resilient needs to address the relation and interaction between rural and urban worlds. Two different but complementary spheres.

What do we understand by Smart rural?



What do we understand by Smart rural?



BCN SMART CITY?

«One talks about a smart city when the city tries to address public issues using ICT solutions, and promotes the inclusion and collaboration of the interested stakeholders at municipal level

AGRICLTURAL AREAS
TERRITORY + FARMERS + PRODUCT

CITIZENSHIP

«Smart based on the conviction that cities (territories) have to be self-sufficient in energy, recourses and food production»

What do we understand by Smart rural?



We will never achieve smart cities if we doesn't understand the territory as an agro-urban system, a unique area with own and complementary specificities.

Without rural areas it is not possible
to develop smart cities
and their purposes on sustainability,
green and circular economiy,
increase on resilience,
and energy, water and food eficiency, etc.

For this reason it is essential an holistic vision:

of the smart city
and the smart territory

Who are the partners and the participants?

3 PARTNERS

Public Administration:

Diputació de Barcelona

Innovation agent:

Centre Tecnològic Forestal de Catalunya (CTFC)

Private Sector:

Associació d'Iniciatives Rurals de Catalunya (ARCA)







9 PARTICIPANTS

- Consell Comarcal del Moianès
- Consorci del Lluçanès
- Federació Catalana d'Associacions de Propietaris Forestals (BOSCAT)
- Local Action Groups:
 - *Associació pel desenvolupament rural de la Catalunya Central,
 - *Associació per a la gestió del programa Leader Ripollès Ges Bisaura,
 - *Associació per al Desenvolupament Rural integral de la zona Nord-Oriental de Catalunya (ADRINOC),
 - *Consorci pel desenvolupament de la Catalunya
- Centre de la Propietat Forestal de Catalunya
- Clúster de Biomassa de Catalunya
- ✓ Area: 565.975 ha (84,94 % of the total PECT's territory)
- ✓ Other: 85.236 ha (15,06 % of the total PECT's territory)



















«BCN SMART RURAL»

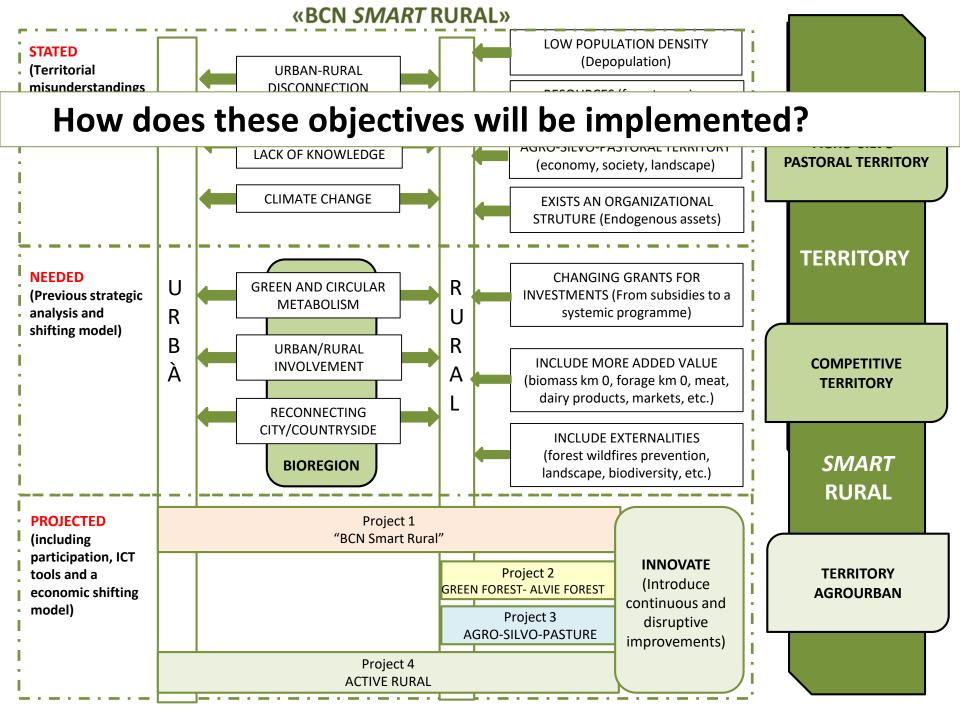
Which are the objectives of "BCN SMART RURAL?

1.- Encourage and develop a smart strategy for the territorial-rural development, based on innovation and knowledge, which promotes new products, services and solutions linked to the valorisation and improvement of the agro-silvo-pastoral sector.

It will be based on the principles of the green and circular economy, at local 'level' (linking the economic activity with local needs), that will increase the benefits at economic level (technologic and knowledge transfer, improvement on commercialisation, and economic diversification), social level (employment, decreases on forest wildfires' risk), environmental level (sustainable resources management, conservation of landscapes and biodiversity), and territorial re-balance.

2.- Articulate a 'smart rural in cities', by improving the interaction between urban areas and their surroundings (urban region).

Smart means intelligent, but also clever, ingenious... According to Richard T.T. Forman, professor of Harvard and father of the urban ecology, the region is the area that the city has to take into account to generate and use its resources with more or less sufficiency. For this reason it is essential to respect the areas of the region related to water, food and biodiversity and interconnected with the city.



How are these objectives implemented? **«BCN SMART RURAL»** Service sto new peasantry **ENTREPRENEURSHIP** and continuous innovation Forest management for **KNOWLEDGE** & steen and circular **PARTNERS AND PARTICIPANTS** TECNOLÒGIC DE CATALUNYA Diputació Barcelona Diputació Barcelona Associació LEADER Associació pel Desenvolupa Rural de la Clúster Biomassa Diputació CAT CENTRAL Op. 5 **Project 1 Project 2 COORDINATION** "BCN SMART RURAL" **GREEN FOREST-ALIVE FOREST Project 3 Project 4** &cononic development. **AGRO-SILVO-PASTURE ACTIVE RURAL** Diputació D'increasing the value High ecological value Barcelona Productive activity of the products LEADER Associació **LEADER** CONSELL COMARÇAL **EMOIANÈS** CAT CENTRAL BOSCAT Centre de la Propietat Forestal

«BCN SMART RURAL»

How do we include ICT?

Technology at the service of society and its territory, in order to valorise and innovate the agro-silvo-pastoral management, promoting employment, improving the quality of life and the environment, while reconnecting urban and rural, city and countryside, famers and citizens.



Geolocalisation, Augmented Reality, Apps, Sensors, beacons, websites, etc.

- 1.1. Creation of Farm incubators1.2 Creation of Technological an
- 1.2. Creation of Technological and Knowledge Bank Services
- 1.3. Governance Hub
- 2.1. Strategic Forest Planning
- 2.2. Km0 Biomass Plan

ACTIVITIES

- 3.1. Structuring the Agroforest mosaic
- 3.2. Rural Equipments
- 3.3. Network of Bancter (Farm land bank)
- 4.1. Innova Km0 competitiveness projects
- 4.2. Ruralitsation Programme

- Creation of a virtual platform of young farm entrepreneurs.
- Creation of an Observatory of analysis and planning using a virtual Open Data platform, related to the rural and forest areas data as well as its economic activities.
- Inclusion of forest inventory new techniques using LIDAR technologies, remote sensing and development of an ICT platform with geographic information systems to delimitate the Priority Action Zones for the prevention of forest fires and the minimization of the effects of the disturbances caused by climate change.
- Creation of a digital Open Data platform to support the "Land bank" (available farm land, potentially available farmland, demanding farmers, etc.), and impact monitoring systems of the project in the agrourban territory.
- Creation of Apps and Augmented Reality devices that support agrotourism, routes and itineraries, as well as local products and their selling points.

«BCN SMART RURAL»

Which is the budget?

«BCN SMART RURAL» TOTAL BUDGET (part eligible): 4.738.955,50 €

Valorisation and innovation of the agro-silvo-pastoral systems management at the Non Metropolitan Region of Barcelona

PRIORITY ERDFAXIS

Priority axis 1
Research, knowledge and Innovation

Priority axis 4
Promoting low carbon
economies

Priority axis 6
Conservation of the environment and resource efficiency

Project 1 (1,2 M€)

Provide support to improve agro-silvo-pastoral enterprises and activities **«BCN SMART RURAL»: Services to new peasantry and continuous innovation transfer**(3 operations / 7 actions)

Project 2 (1,2 M€)

Promote forest management and the use of energy resources

GREEN FORSET- ALIVE FOREST:
Forest management for a green and
circular economy
(2 operations/ 3 actions)

Project 3 (1,3 M€)

Boost and consolidate the agrosilvopastoral activities by recovering grassland and abandoned land

AGRO-SILVO-PASTURE: High ecological value productive activity

(3 operations / 4 actions)

Project 4 (0,7 M€)

Promote a network of awareness and commercialisation of agro-silvo-pastoral products

ACTIVE RURAL:

the value of the products
(2 operations / 5 actions

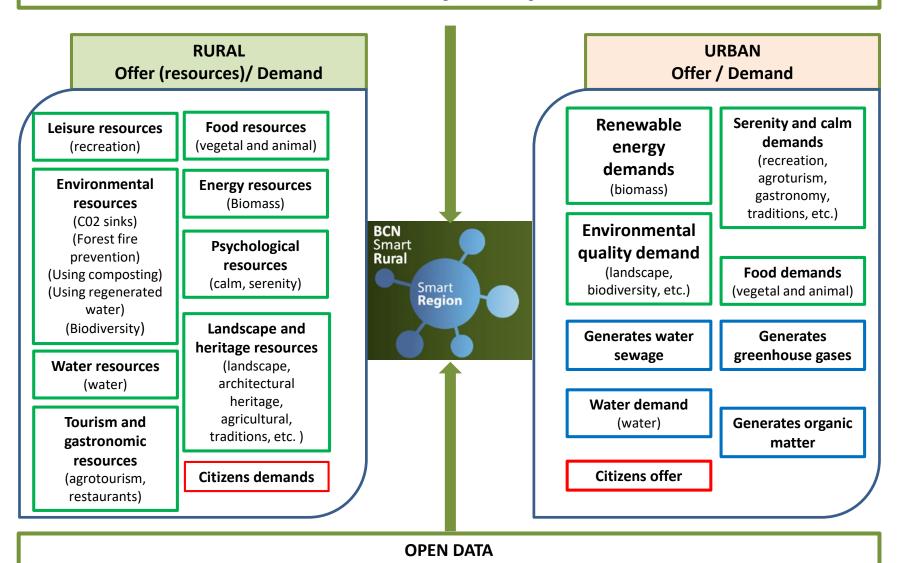
COORDINATION PECT «BCN SMART RURAL» (0,26 M€)

(1 operation/ 2 actions)

European Conference on Rural Development. **Declaration of Cork 2.0 "A Better Life in Rural Areas"** (6.9.2016)

Political orientation 1:

Greater recognition of the potential of rural areas to offer innovative, inclusive and sustainable solutions to address current and future social challenges, such as the economic prosperity, food security, climate change, resource management, social inclusion and integration of migrants.









Territorial Specialisation and Competitiveness Project (PECT)

«BCN SMART RURAL»

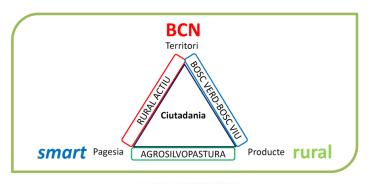
Valorisation and innovation of the agro-silvo-pastoral systems management at the Non Metropolitan Region of Barcelona

Coordination:

Sustainability and Territory Area Diputació de Barcelona

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RIS3CAT



