



UNESCO - Fondation des Territoires de Demain

## Innovation et prospective

Séminaire de la Fondation des Territoires de Demain  
Programme international 2040

Le 11 mars de 10h à 12h30 et de 15h à 17h30 - Unesco, Paris - rue de Miolis, Bâtiment Fontenoy, salle VII.

# Living Lab: Antioquia Departamento del Conocimiento



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Presidente



Approximate area of 64,000 square kilometers

Population approx. 6 million

125 municipalities

Medellin Population is 2.2 million



# What is a Territory of Knowledge

## Joint Elements

- I - Education Sector
- C - Government Sector
- T - Productive Sector
- Civil Society Organizations
- Citizen

+ **CT&I** + UP and Entrepreneurship + **CULTURE and ART** =

**TERRITORY OF KNOWLEDGE**  
(Productivity and Competitiveness)



# Strategic Areas of Knowledge Management

- Biodiversity and Genetic Resources,
- Biotechnology and food and agro-industrial innovation,
- Nanotechnology,
- R & D on infectious diseases prevalent in tropical areas,
- Advanced Materials,
- Telecommunications,
- Electronics and
- Metalworking



# Description

Living Lab **Antioquia Department of Knowledge** is developed using open innovation, by connecting citizens and users of all ICT products and services with those who produce, in a real and complete interaction between all actors involved in the Living Lab.

"**Antioquia Department of Knowledge**" Living Lab, is a new economic development model, which incorporates integrally with a systemic and holistic approach, everything that has been leading the region in relation to strategic planning led to innovation, research and generating ventures.

Antioquia is currently the department of Colombia that has the best connectivity conditions, particularly in the public and private education sector, both in colleges and in basic and secondary education.



# Description

- There is an institutional network that is consolidated, combining efforts between the state, Academia, Private Sector and the Third Sector (NGOs) on issues of research and innovation.
- Progress in implementing the processes of productivity, research and innovation, Science, Technology and Innovation, as well as the emergence of many new companies based on a successful leadership in generating ventures and departmental governments mayor of Medellin, especially over the last five years.
- Growing network of research centers and universities already work closely with the State and the productive sector through partnerships University - Business - State, apart from strengthening and quality in higher education.



**Route “n”** is a **Business Innovation Center of the City of Medellin**, which promotes new knowledge-based business with international participation, by promoting, developing and strengthening the ecosystem of Science, Technology and Innovation. **Route n** is the platform that leads to Medellin city to become the leader in innovation and business in Latin America. **Route n** promotes knowledge for the empowerment of current business and developing new industries.



## Features to note

1. For the last 5 years in the Department of Antioquia and by the support of the Information and Communication Technologies - ICT, has been brewing a powerful alliance between the State, the Academy and the Productive Sector;
2. The Education in the Department of Antioquia is the first and most fundamental mega project of the Antioquia government.
3. The Department of Antioquia is the region of Colombia that has received the most investment in recent years, by the national government in Science, Technology and Innovation, and in Information and Communication Technologies (ICT).
4. Institutional innovation for multisectoral coordination between government, academia, the productive sector and the third sector (NGOs).





## Features to note

5. The Department of Antioquia has taken a major boom and awakening of CSR in production and financial sector, over the past 5 years.
6. According to the latest UN report, Colombia's leading E-Government in Latin America and the Caribbean. It ranks first among 33 countries in the region, as ranked by the United Nations.
7. Electronic Participation. Colombia occupies the first position in Latin America and the Caribbean, followed by Mexico and Chile.
8. Its primary key attribute of the "Living Lab Antioquia Department of Knowledge" is the enormous capacity for creativity of your people, shown over the years by the strength of its people in the country's business innovation.



## Other Features

- Availability of connectivity across the Department.
- Possibilities of reaching all municipalities with the highest Internet Technology.
- High corporate social responsibility.
- High coverage of ICT in Public Institutions.
- Existence of a new regulatory framework of the Information and Communications Technologies (ICT) and Science, Technology and Innovation (CT + i).



## Other Features

- Leadership and commitment of high national government to the territories of the country.
- Existence of a national policy for digital territories with very good results in three years of operation.
- One of the highest levels of Internet penetration (among the 10 best in the world).
- Colombia is the Ibero American country with the highest number of users of social networks like facebook after Spain.

## Object

Structuring the Department of Antioquia as a Department of Knowledge, from the progress in implementing the **Information and Communication Technologies, Education, Science, Technology and Innovation**, the continuous generation of **enterprises** and the strengthening of **entrepreneurship** for productivity and competitiveness of Antioquia, and taking into account regulatory and legal development in the country in relation to the above topics.

The **Foundation Country of Knowledge** and the **Governor of Antioquia**, after identifying the organizational system (institutional network), are underway to develop the operational model, resources, strategies, programs, projects and activities necessary to structure, implement and consolidate the Department of Antioquia as a **Territory of Knowledge**, including all municipalities in the department, with a comprehensive, systemic and holistic approach towards the year 2019, year that marks the bicentennial of the Independence of Colombia, in the following aspects:



1. Implementation of an open innovation model, using methodologies of Living Lab,
2. Implementation of infrastructure wired and wireless connectivity to the Internet,
3. Training, awareness and Digital Literacy in ICT,
4. Overcrowding Computer with its software, connect to the Internet,
5. Implementation and appropriation of a model R & D + i (Scientific and Technological Research + Development + Innovation), in the context of the Regional System of Science, Technology and Innovation,
6. Continuous generation of Entrepreneurship,
7. Strengthening Entrepreneurship, by applying research and innovation, and also intensive, productive, efficient and innovative ICT,
8. Consolidation of Alliance: University - Industry– State,
9. Development of Internet Content in various sectors,
10. Implementation of integrated information systems,
11. Design of a computer security system in the long term,
12. Ownership and Use of Information and Communications Technology in the following areas of application, in order of importance for the Department of Antioquia:



## Areas of application of ICT

- e-Government (Territorial Government On-Line), \*\*\*
- e-Education (Tele-education, tele-training, e-Learning), \*\*\*
- e-Health (Integrating Telemedicine and Telehealth) \*\*\*
- e-Security (Public Safety) \*\*\*
- e-Commerce (SMEs and MSMEs Digital) \*\*
- e-Employment (Telecommuting) \*\*\*
- e-Land (Agriculture), \*\*\*
- e-Justice, \*\*\*
- e-Tourism \*\*
- e-Prevention \*\*\*
- e-Culture, \*\*
- e-Democracy, \*\*
- e-Community (Social Networking) \*\*
- e-Home (Home Automation) \*\*
- e-Entertainment, \*
- e-Global Communications (Networking). \*

Nivel de prioridad: \* Baja, \*\* Media, \*\*\* Alta



# Organization

The Living Lab < Antioquia Department of Knowledge > model is participatory and integrated between the various actors in the institutional network of Antioquia, with a systemic, holistic, integrated approach, through a collaborative scheme Networking, where each institution, entity, company, union or NGO , is budgeting and financial autonomy with an open and flexible organizational model.

Organigrama



**Thank you...!**



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**Gestores:**

