



ECONOMIE DE LA CONNAISSANCE ET TERRITOIRES DE DEMAIN

Living Lab: Antioquia

Departamento del Conocimiento



Sept. 30/2010



Approximate area of 64,000 square kilometers

Population approx. 6 million

125 municipalities

10 Sugregions

Medellin Population is 2.2 million



Reasons that justify that Antioquia be a 'Department of Knowledge'

In the Department of Antioquia is a **significant dynamic in Science, Technology and Innovation**. Of the 1,407 projects approved by the Administrative Department of Science, Technology and Innovation, Colciencias, in Colombia in 2009, 407, or 36%, were approved for the Department of Antioquia, with greater participation.

However, despite being **leaders in innovation** in the country, Antioquia requires more effort and investment to develop this department in a more competitive region, for this reason we seek international cooperation to reduce poverty and inequality.



Reasons that justify that Antioquia be a 'Department of Knowledge'

Of the 4,072 research groups, recognized and classified Colciencias this year across the country, **628 are located in Antioquia**, or 15.4% with the largest share of the total in the country. **21% of researchers in Colombia**, are active generation and transfer of knowledge in public and private institutions of higher education, technology development centers, hospitals and other entities based in the Department of Antioquia.

In the Department of Antioquia are 67,000 firms, which in 2009 exported to the world US\$ 4,126 million. Of these, US\$ 1,360 million were gold, \$ 640 million plantain, clothing \$ 340 million, \$ 200 million coffee, flowers \$ 150 million, \$ 150 million plastic, paper \$ 125 million. The rest are exports of less than \$ 50 million. There is no high-tech export market, the medium technology is barely 16%.



Reasons that justify that Antioquia be a 'Department of Knowledge'

Antioquia is the trading center of technology and knowledge at national level.

The **Department of Antioquia bets on a significant and sustained increase local competitiveness**, and this drives large projects such as hydroelectric Ituango, the Mountain Highway, the East Tunnel, the Port of Urabá, and has as one of its greatest concerns improving the coverage and quality of primary, secondary and higher education. Therefore, **the Science, Technology and Innovation, is a fundamental pillar of the Development Plan**. Antioquia **has the talent**, and is taking the right steps to be very competitive in Latin America region **through knowledge management and innovation**.



Antioquia as Territory of Knowledge

Joint Elements



Strategic Areas of Knowledge Management

- Biodiversity and Genetic Resources,
- Biotechnology,
- Food and agro-industrial innovation,
- Nanotechnology,
- Textile industry
- Mining Industry
- 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.



Innovation Center: The beginning of a model

'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 (ST+I)**, 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. Antioquia is one of the best.
7. Electronic Participation. Colombia occupies the first position in Latin America and the Caribbean, followed by Mexico and Chile. Antioquia is one of the best.
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 (ST + i).



Colombia Features

- 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.



Project Object

The structure and operation of the Department of Antioquia as a Department of Knowledge, from advances in the application of **Information and Communications Technologies** (ICT), increased levels of **Education, Science, Technology and Innovation** (ST + I), the continuous generation of **business and entrepreneurship** and the strengthening of entrepreneurship for *productivity and competitiveness of Antioquia*, taking into account *the legal and regulatory 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:



Living Lab project scope

1. Promoting the culture of open innovation in different sectors of society Antioquia, mainly from academia and the productive sector,
2. Implementation of an open innovation model, with the support of all actors in society, through methodologies of Living Lab in the Department of Antioquia and its 9 sub-regions,
3. Implementation of infrastructure wired and wireless connectivity to the Internet,
4. Training, awareness and Digital Literacy in ICT and in the model R&D + i,
5. Run an 'aggressive' regional policy mass of computers with their software, connected to the Internet,
6. Implementation and appropriation of a model R&D + i (Scientific Research and Technological Development and Innovation) with european methodologies of Living Lab, in the context of the Regional System of Science, Technology and Innovation,



Living Lab project scope

7. Continuous generation of Entrepreneurship,
8. Strengthening Entrepreneurship, by applying research and innovation, and also intensive, productive, efficient and innovative ICT,
9. Consolidation and strengthening of the Alliance: University - Industry - State,
10. Development of Internet Content in various sectors,
11. Implementation of Integrated Information Systems,
12. Designing a comprehensive system of information security in the long term.
13. Appropriation and Use of Information and Communications Technologies (ICT) in all areas of application.



Areas of application of the Living Lab

- e-Government (Territorial Government On-Line), ***
- e-Education (Tele-education, tele-training, e-Learning), ***
- e-Health (Integrating Telemedicine and Telehealth) ***
- e-Employment (telework), including a model Electronic Commerce (e-Commerce) ***
- e-Land (Agriculture), ***
- e-Mobility ***
- e-Environment **
- e-Justice, ***
- e-Tourism **
- e-Security (Public Safety) ***
- 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 model of Living Lab 'Antioquia, Department of Knowledge' 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



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