



Smart Specialisation across the world

The case of Latin America



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INTRODUCTION: new models for global trends



GENERAL TREND

GLOBALISATION + knowledge economy = importance R&D+I



- Competitive sophistication and differentiation
- Innovation as an open process (open innovation models)
- From local to global value chains ("glocalisation" and complex productive systems)
- Specialised diversification as a base for future development

New TERRITORIAL
SPECIALISATION approaches

Focus on VALUE ADDED and R&D+I

Focus on GOVERNANCE and STRATEGIES



INTRODUCTION: opportunities from collaboration



Since global challenges are shared across the world, the possibility of **profiting from mutual learning and transferring** arises.

The example of **UE-LAC** interest in territorial development approach

LATIN AMERICA

- Interest in Latin American countries to overcome dependence on commodities, and need to respond to competition from lowerwage countries = productive diversification
- Not possible top-down; Hence interest in decentralization (via to create adequate environments to develop more added-value activities)
- At the same time there is the need to remove obstacles created by national borders. There are administrative divisions that in the 21st century hamper development and contribute to marginalization.

EUROPE (EU)

- Great interest in European experience in regional development policies:
 - diversification based on innovation and competitiveness
 - Cross-border cooperation
- The new model of international diplomacy is different from a traditional one based on development aid: Today it is based on processes of technical collaboration (e.g. multi-level governance systems).
- This also leads to **new processes of triangular cooperation**, to facilitate the acceleration of processes of appropriation of the **technical and methodological skills**.









INTRODUCTION: some background on cooperation



- There are very positive experiences in many countries in different projects, some financed by UE (DEVCO), but others thanks to the support of the European Parliament.
- Priorities under this cooperation have been different on different continents, including issues of sustainability, urban development and cross-border cooperation.
- An additional issue is that of Smart Specialisation Strategies (RIS3).

REGIONAL INNOVATION SMART SPECIALISATION STRATEGIES



- Rethinking exercise on <u>how to achieve</u> the regional advantage under an international basis.
- More than 20 years of experience from European Cohesion Policy.
- > European leadership in territorial development
- USA is now promoting its RIS, Australia its RIS3 (Region Capitals, Hunter Region), as is the case in some parts of East Asia. And there is a particular demand in Latin American countries.







SMART SPECIALISATION: concept and strategies



The path of **European learning experience** in regional strategies...

CONTEXT

990... Technological innovations generating new products and processes as well as incremental improvements in them.

995... Oslo Manual 1st & 2nd Ed. (1992/1997)

Implementation of a new or improved product 2000... (products/service) or process, marketing technique, organizational model within the organization or regarding external relations

2005... Oslo Manual 3rd Ed. (2005)

CHARACTERISTICS

ORIENTATION

Building-up an innovation system: innovation tied to R&D and technology, stakeholders around the system, S&T policy definition

INSTRUMENTS

•R&D+T support

Quality

ICT investments

 Infraestructures Sensibilization

ORIENTATION

Innovation system dinamization: triple helix, cooperation networks, R&D+I policy integration, broad innovation

INSTRUMENTS

•Clusters & networks

•R&D+I collaboration

New sectors

•NTBF

 Intermediate agents Internationalisation

Transference

2010...

THE BROAD CONCEPT OF INNOVATION.

based on research and business models, design, brand image and value for end-users, taking into account the different stakeholders within the innovation cycle

2015...

Europe 2020 Innovation Union (2010)

ORIENTATION

Sustainable knowledge society: specialised diversity, global focus, socio-environmental sustainability

INSTRUMENTS

- New sectors
- Intermediate agents
- •Public procurement

- Regulation •Global alliances
- Key Enabling Technologies (KET)
- Social & networks





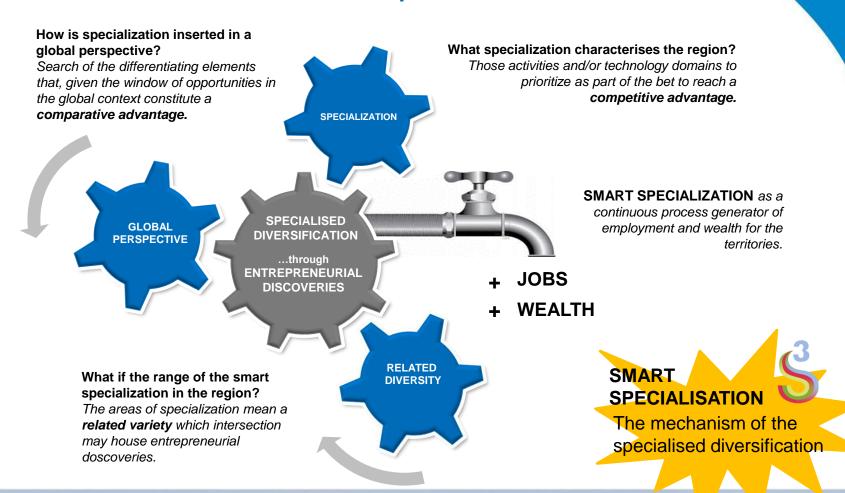




SMART SPECIALISATION: concept and strategies



3 KEY AXIS in Territorial Smart specialisation







SMART SPECIALISATION: concept and strategies



Smart Specialisation Strategies (RIS3)

STRATEG

- Sound territorial competitive analysis
- Sectors and technology prioritization
- Strategic definition
- Operative definition
- Resources and commitments
- Monitoring and evaluation mechanisms
- Participatory governance setting

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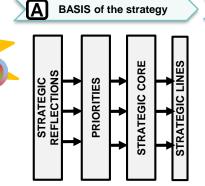


■Long term focus/vision

- Leadership engagement for the process
- Adequate management structure
- High level of social capital and trust
- Broad participatory processes in definition and implementation
- Open mind at all levels: absence of risk aversion

STAGES in building an STRATEY

From reflection to action and improvement...



POLICY INSTRUMENTS

GOVERNANCE SYSTEM

Territorial helix

OTHER TERRITORIES

C FINANCING

INTERNATIONAL FINANCING/ RESOURCES

NATIONAL FINANCING/ RESOURCES

REGIONAL FINANCING/ RESOURCES **MONITORING**

D

GOVERNANCE WITH A PARTICIPATORY PROCESS BASIS



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INTERNATIONAL COMPARISON



European and Latin American starting point

- Interest in regional innovation and competitiveness increased during the last decade in LAC.
- Most of the countries has initiated a policy definition process and decentralization (some cases).
- European Union experience in RIS attracted the interest of many LAC, but the implementation of this methodology differs across the continent.
- EU financed a number of projects focused on technical assistance on regional policy, strategy, governance and innovation.
- LAC and EU regions/countries differences (economic structure, technological level, institutional setting) in the framework of globalization results in collaboration opportunities for both sides.

RIS3 international focus approach

EUROPEAN EXPERIENCES OF INTERNATIONAL COLLABORACION ON REGIONAL POLICY

· ARGENTINA:

http://ec.europa.eu/regional_policy/en/policy/cooperation/international/latinamerica/argentina/

- CHILE: http://ec.europa.eu/regional_policy/en/policy/cooperation/international/latinamerica/chile/
- · COLUMBIA:

http://ec.europa.eu/regional_policy/en/policy/cooperation/international/latin-america/colombia/

- MEXICO: http://ec.europa.eu/regional_policy/en/policy/cooperation/international/latin-america/mexico/
- PERU: http://ec.europa.eu/regional_policy/en/policy/cooperation/international/latin-america/peru/
- URBAN AMBIT:

http://ec.europa.eu/regional_policy/en/policy/cooperation/international/latin-america/urbelac/

· CROSS-BORDER AMBIT:

http://ec.europa.eu/regional_policy/en/policy/cooperation/international/latin-america/eulac-cbc/

RIS COOPERATION:

http://ec.europa.eu/regional_policy/en/policy/cooperation/international/latinamerica/eulac-ris/

CROSS-BORDER RIS COOPERATION:

http://ec.europa.eu/regional_policy/en/policy/cooperation/international/latin-america/eulac-cbris/

CENTRAL AMERICA:

http://ec.europa.eu/regional_policy/en/policy/cooperation/international/latin-america/sica/





INTERNATIONAL COMPARISON: the LAC case



Existence and sophistication of RIS in different Latin-American countries...

- Prioritization effort on most competitive niches (low tech in general/ commodity export pattern)
- Focus on economic transformation (diversification)
- Search for positioning in international markets
- Lack of sound governance models
- Low levels of social capital

The same of the sa	
Country out of scope	5 31 42
No RIS	
There is RIS	THE STATE OF THE S
There is a RIS with participation, instruments and executive agents	
There is a regional strategy with participation, instruments, executive agents and an allocated b	udget
Source: Innopro Global Services & Alias Group (2015)	

Top 20 specialisation sectors	Number of region
Crop & animal production, hunting & related service activities	101
Power generation / renewable sources	50
Food, beverage δ tobacco products	40
Tourism, restaurants ⊕ recreation	38
Fishing & aquaculture	23
Human health activities (medical service)	23
Biotechnology	20
Mining of metal ores	19
Motor vehicle ∂ other transport equipments	19
Textiles, wearing apparel & lether & related products	17
Information service activities	16
Water collection, treatment & supply	14
Other manufacturing	13
Basic pharmaceutical products & pharmaceutical preparations	12
Forestry & logging	11
Chemicals & chemical products	10
Computer programming, consultancy & related activities	9
Machinery & equipment n.e.c.	9
Other mining and quarrying	0
Other sectors	126
TOTAL	579





INTERNATIONAL COMPARISON: the EU case



A new framework from the old RIS was defined and implemented in Europe since 2014: Smart Specialisation Strategies...

- Prioritization effort on most competitive niches (high tech)
- Search for positioning in international markets
- Focus in governance consolidation and evaluation/monitoring
- Challenges on implementation: changes in designing and delivering the policy (from financing to services).



Sector prioritized in RIS3	Number of regions
Agriculture, forestry & fishing	76
Construction	46
Creative, cultural arts & entertainment	57
Energy production & distribution	135
Human health & social work activities	158
Information & communication technologies (ICT)	107
Manufacturing & industry	488
Mining & quarrying	12
Public administration, security & defence	22
Avanced Services	72
Tourism, restaurants & recreation	79
Transporting & storage	74
Water supply, sewerage, waste management & remediation activities	37
Wholesale & retail trade	3

Source: Author based upon the data of the EYE@RIS3 tool http://s3platform.jrc.ec.europa.eu/map

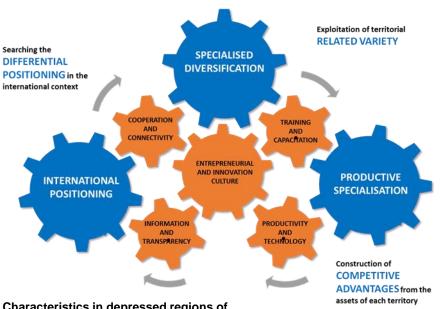






INTERNATIONAL COMPARISON: the EU case





The overall analysis of main strategies exercises and projects in LAC resulted in the identification of **5 areas** shared by most LAC territories and **linked** to **Smart specialisation**

Characteristics in depressed regions of Latin America for the definition of regional innovation strategies

regioi	iai innovation strategies	STRENGTH	OPPORTUNITIES	WEAKNESSES	THREATS
SES	TECHNOLOGY	LOW	MEDIUM	MEDIUM MEDIUM	
RESOURCES	FUNDING	-	LOW	HIGH	HIGH
RES	TERRITORY	HIGH	HIGH	LOW	MEDIUM
ES	TRAINING	LOW	MEDIUM	MEDIUM	MEDIUM
CAPACITIES	SOCIAL CAPITAL	-	MEDIUM	HIGH	HIGH
CAF	GOVERNANCE	LOW	LOW	MEDIUM	MEDIUM

Source: Author, based upon the final Report of the CBRIS project





SOME CASE EXAMPLES: Chilean case



- An interesting concrete example has been the "Proyecto Red" (Network Project) in Chile (2010-2013). Under the RED, the EU has worked with the Chilean government and regions, to develop regional innovation policies through the use of the EU's RIS methodology (in practice RIS3).
- Regarding the RED, the results have helped in the improvement in the definition of regional public policies to support innovation, particularly in the use of the regional part of the Fund for Innovation and Competitiveness (FIC-R).
- ➤ In this legislature the Government of Chile in its Agenda for Productivity, Innovation and Growth has launched various Strategic Programmes for Productive Development based on the principle of Smart Specialization, with national or regional dimension.
- They have been supported by the skills and orientations generated in the regions by the RIS, which continue to influences public spending priorities in different regions.





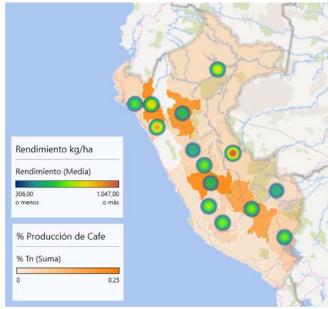
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SOME CASE EXAMPLES: Peruvian case



- Peru is embarked on its own policy with the National Productive Diversification Plan, which among other objectives intends to "reduce regional productivity gaps".
- ➤ In that country, the EU (REGIO) has supported in different regions the definition of regional policies and programmes to support innovation.
- In the Peruvian regions of Cusco and Puno EU support helped to define the needs in promoting competitiveness global markets and exploiting value chains in camelids (alpaca) and coffee, including prospects for future crossborder cooperation with Bolivia.
- The recommendations are being carried out in other project funded by the CAN (Comunidad Andina) INPANDES.















SOME CASE EXAMPLES: Cross border cooperation



- The Amazon triangle between Colombia, Peru and Brazil is distant from major markets with many logistics problems, energy supply and telecommunications. It is also an area where illegal production and environmental exploitation represent a challenge, requiring solutions involving of economic development and new sources of employment.
- ➤ In this case, the EU (REGIO) project helped to identify aquaculture as sector with development possibilities, and at the same time compatible with environmental sustainability in an area that is critical to the conservation of the planet.

SMART SPECIALISATION as a shared input for the triple frontier





[Arapaima]





brachypomus]



Gamitana **[Colossoma** macropomum]



Tilapia [Oreochromis]







SOME INSIGHTS ON SMART SPECIALISATION IN LATIN AMERCIA



General competitive gaps in Latin America, elements of smart specialisation and possible instruments

COMPETITIVE GAPS	SMART SPECIALIS	ATION (degree of relevar	nce for the element)	Some pessible MECHANISMS	
COMPETITIVE GAPS	SPECIALISATION	DIVERSIFICATION	GLOBAL FOCUS	Some possible MECHANISMS	
LACK OF CONNECTION between knowledge generators and training providers and the private sector	HIGH	MEDIUM	LOW	Technology transferMobility of staff/researchersTechnological entrepreneurship	
WEAKENING OF COOPERATIVE STRUCTURES due to inefficient management	HIGH	HIGH	MEDIUM	 Training and capacity-building activities Development of cluster structures Internships and exchange of experiences 	
BOTTLENECKS between different segments of the value chain	VERY HIGH	LOW	HIGH	Collaborative round tables Development of cluster structures	
Very low level of MODERNIZATION with an impact on productivity	HIGH	LOW	HIGH	 Technology transfer Technical training activities Specialist technical assistance	
LOW LEVEL OF TRAINING AND CAPACITY-BUILDING of technicians and managers in production plants	HIGH	MEDIUM	LOW	Training activities (in general)Mobility of researchersTechnical assistance	
Lack of an ENTREPRENEURIAL AND INNOVATIVE CULTURE and interest in differentiation and added value	MEDIUM	HIGH	MEDIUM	Awareness actions Training activities in management and innovation	
Little or no INFORMATION AND TRANSPARENCY in the system	MEDIUM	HIGH	LOW	Studies (technological, economic, market, etc.). Communication activities	
Limited LEADERSHIP (political and business) to transform the system	MEDIUM	MEDIUM	HIGH	Joint round tables Capacity-building activities in management	
Critical situation (poverty and development) of PRODUCERS	HIGH	MEDIUM	LOW	Marketing platforms Cooperatives of producers	

Source: generalisation based upon the final report of the EU-PERU "Cooperation on Regional Innovation Systems in the framework of Regional Policy" project.





LEARNINGS AND FUTURE AREAS



The EU (REGIO) projects have had considerable added value in Latin America.

A key contribution of the European experience has been first to convey the idea that REGIONAL DEVELOPMENT is only possible through STRATEGIC THINKING on a long-term approach and ADDRESSING SYSTEMICALLY THE DIFFERENT CHALLENGES to regional competitiveness.

MARTINIQUEARRICA
EMPEROR MULATTO
BANCOPHONE SANTIAGO
BELIZE LIMA
UITO
BOGOTACOLOMBIA BOGOTA EASTERPERU
ASIA REGIONCUBA MANAGUA AZTECS LANGUAGE
AMERICAS DE ZAMBO
CAROLINA BRAZIL PUNTA EUROPE BANK
CARACAS PATAGONIA MEXICO MESTIZO
VENEZUELA PATAGONIA MEXICO MESTIZO
VENEZUELA PATAGONIA AZTEC
PANAMA AREA QUEBEC

It has contributed to developing **SOCIAL CAPITAL** in areas that have carried out EU supported projects. So that once the project is finished **THE ACTORS** who were mobilized, **CONTINUE TO SEEK WAYS THAT ALLOW THEM TO FURTHER DEVELOP** the approaches previously defined.

WIN-WIN approach

The projects have promoted, with involvement of the regional firms, concrete alliances with European regions, and with European institutions and enterprises, creating NEW COMMERCIAL-TECHNOLOGICAL OPPORTUNITIES on each side



LEARNINGS AND FUTURE AREAS



The Next

in the Future

Another lesson is the IMPORTANCE OF COORDINATION AND INTER-INSTITUTIONAL COOPERATION, mobilizing

REGIO alongside the external relations services of the EU, with the support of the European Parliament, in order to deliver more effective international diplomacy in regional and urban development policy.



Possibilities

- Renewal of existing instruments and implementation of a new one:
 - European Parliament Preparatory Actions
 - Partnership Instrument (FPI/EEAS)
- Increase the scale and the scope of the technical cooperation across the world (commercialization, technology, global value chains, etc.).
- Internationalization the scope of come instruments such as S3 **Platform**
- Coordination of the different efforts in international cooperation within the EU Commission

EU world leadership in territorial Smart specialisation approach

