



ICT Mapping in ALCUE-Net:

Current focus of ICT EU-LAC joint research projects

Maria Lima Toivanen,
Technical Research Centre of Finland, VTT



EU-LAC Projects



- + 45 running projects with Latin American participants under FP7 Cooperation and Capacities programmes, and @Lis programme
- 20 ICT projects (including LEADERSHIP and CONECTA 2020)
- 12 e-Infrastructures projects
- 4 BILATs: Argentina, Chile, Brazil and Mexico
- 2 INCO-NETs: EUCARINET, ALCUE-NET
- 1 ERANet-LAC
- 3 Thematic projects: EU-LAC Health, ENSOCIO, ALCUE KBBE
- 3 @Lis: ECLAC/CEPAL (political and regulatory dialogue), CLARA (research networks) and REGULATEL (Regulatory Forum)

The Mapping Exercise



- Objective
 - To constitute a database of bi-regional ICT-related projects in the areas of e-inclusion, e-health, smart cities and living labs as well as of applications and technologies deployed in those areas.
 - To allow for identification of twinning projects
 - To identify ICT-related funding instruments in LAC and EU
 - To identify collaborating institutions
- Methodology (exploratory)
 - Survey of cooperation on ICT through contact with national funding agencies in both regions
 - Information received from: Argentina (MINCYT), Brazil (IBICT), Costa Rica (MICIT), Mexico (CONACYT), Peru (CONCYTEC), Trinidad & Tobago (NIHERST), Chile (CONICYT), Finland (VTT, AKA), Portugal (FCT)
 - Other agencies surveyed: CYTED, STIC-AmSud
- Results: quantitative and qualitative
- Potential for cooperation between projects and schemes

Funding Instruments Used



Funding Instrument	Number of Projects	Total Funding
FP7	61	not all completed
PCCI - Proyectos de Intercambio Programa de Cooperación Científica Internacional	10	50801,51€
CYTED	21	?
STIC-AmSud	53	1376724,00€
Competitiveness and Innovation Framework Programme	1	?
Atracción de Centros de Excelencia Internacional para la Competitividad - CORFO	2	17538589,30€ (1)

Countries Working Together



LAC	EU	Other
147 Brazil	130 France	9 China
86 Chile	119 Spain	8 India
74 Argentina	57 United Kingdom	6 United States
42 Colombia	52 Italy	5 Israel
39 Uruguay	51 Germany	4 South Africa
28 Peru	31 Portugal	4 Canada
25 Mexico	23 Greece	3 Japan
16 Cuba	20 Belgium	2 New Zealand
9 Costa Rica	19 The Netherlands	2 Malaysia
8 Venezuela	11 Denmark	2 Korea
8 Ecuador	10 Sweden	2 Australia
6 Paraguay	9 Austria	
4 Trinidad & Tobago	8 Switzerland	
4 Panama	7 Poland, Bulgaria	
4 Guatemala	5 Finland	
	4 Slovenia, Russia, Norway	
	3 Romania, Latvia, Ireland, Czech Republic, Cyprus	

- Number of counts: all times a partner institution per country was mentioned
- Countries mentioned only once or twice not counted (29)

Fields/Applications/Technologies



Field	Field	Field
13 e-Health	2 Algorithms	1 Intelligent Transport System
10 Future Internet	1 Voice recognition	1 Content Languages
10 Intelligent System and Transport	1 Ubiquitous Computing	1 Content and Mobility
6 Internet and Internet of Things	1 Serious Games	1 Communication networks
6 Education	1 Remote connectivity	1 Communication
5 Climate/climate change	1 Rehabilitation	1 Collaboration
3 Telecommunications	1 Radio communication	1 Children protection
3 Cloud Computing	1 Perception	1 Bioinformatics
2 Image recognition	1 Networking	1 Augmented reality
2 Energy and Energy efficiency	1 Multimedia Content	1 Astronomy
2 Computer System	1 Mining	1 Artificial Intelligence
2 Big Data	1 Mathematical modelling	1 Aerospace
	1 Living Labs	1 Active ageing

Examples of Projects for Twinning - EU



- **IMPRESS** - Intelligent System Development Platform for Intelligent and Sustainable Society (FPEU-Brazil joint call)
- **RISC** - A network for supporting the coordination of Supercomputing research between Europe and Latin America
- **TUCAN3G** - Wireless technologies for isolated rural communities in developing countries based on cellular 3G femtocell deployments
- **PODITROPI** - Technology Platform for Point-of-Care Diagnostics for Tropical Diseases
- **HUMANBRAIN** - The Human Brain Project
- **LEADERSHIP** - Latin America-Europe Advanced Dialogues to Enhance ICT Research and Innovation Partnership

Examples of Projects for Twinning - CYTED



- Ibero-American Network of Free software in biomedicine
- Ibero-American Network of algorithms, distributed computing and free software for troubleshooting routing, scheduling, system
- Iberoamerican Network for the development of digital terrestrial television and interactive applications
- Improving the quality and accessibility of interactive services on DTT to reduce the digital divide
- Thematic Network on applications and usability of interactive digital television
- Iberoamerican Network for the study and development of applications based on tactile interfaces adapted for people with disabilities
- Iberoamerican Network for the usability of educational repositories
- Iberoamerican Network supporting the teaching and learning of skills through collaborative and ubiquitous environments
- Latin American Research Network on new models of open and user-based innovation

Examples of Projects for Twinning - STIC-Amsud



- **ALAP** - Ambient assisted Living for Ageing People
- **ARVS** - Hybrid model based markerless 3D tracking for augmented reality and visual servoing
- **NANORADIO** - Design for reliability and portability of RF Interfaces based on Nanoscale CMOS technology
- **CAMPUS** - Context Aware Mult-agents for Pervasive and Ubiquitous Systems
- **LWM** - Learning while moving
- **DSVANET4ITS** - Dependable and secure VANETs for intelligent transportation systems



Questions & Comments?



Thank you!

Maria Lima Toivanen

Senior Scientist

maria.limatoivanen@vtt.fi

