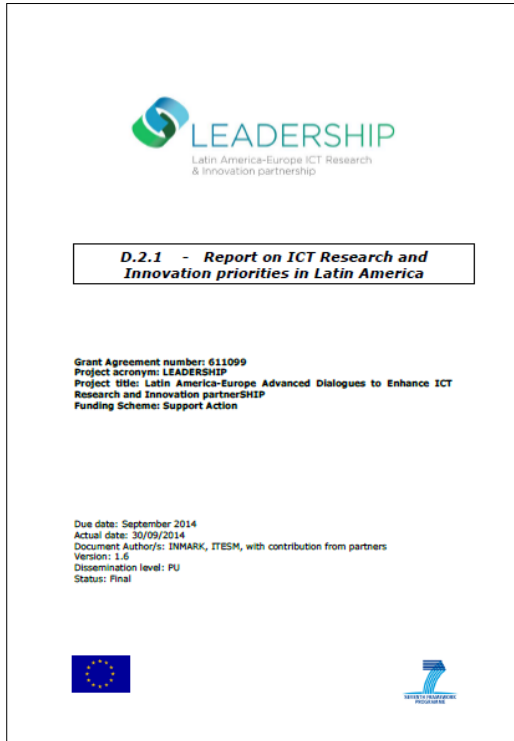


Areas for EU-LAC cooperation in ICT Results from LEADERSHIP Survey

ALCUE NET and CONECTA 2020 ICT Technology
Platforms Workshop

Lisbon, 19 October 2015

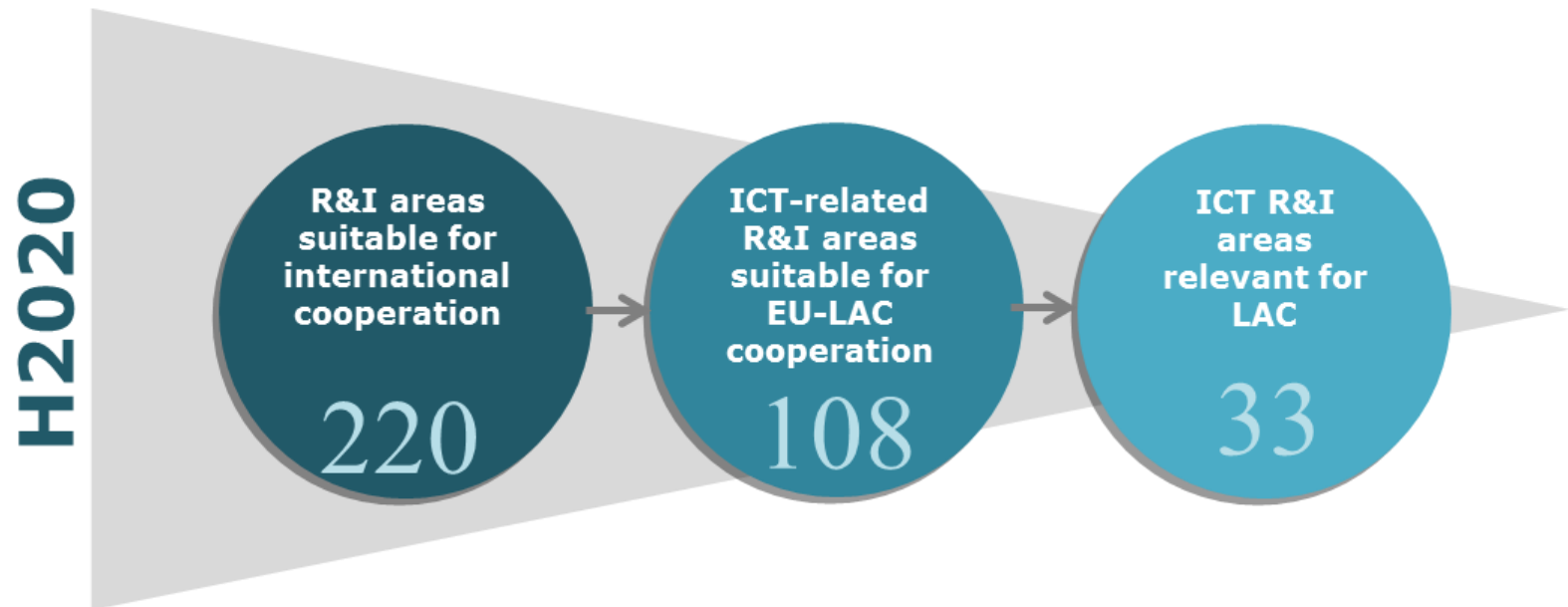
ICT R&I priorities in LAC



- Presents the methodological approach to conduct the survey and the respondents profile
- Gives an overview of the **respondents' R&I performance**, based on employment and investment rates dedicated to R&I activities
- Describes respondents' **participation in international R&I cooperation** programmes.
- Details **R&I cooperation with Europe**, including respondent's experience, main barriers to participate in EU R&I projects and possible measures to enhance cooperation with Europe.
- Presents the **ranking of ICT priorities in Latin America** for future cooperation with Europe and its alignment with Horizon 2020 topics and R&I areas.
- Finally, it presents overall **conclusions**

About the survey

- Survey online from 16 June to 15 July 2014
- Distributed to 4.313 relevant ICT stakeholders in LAC
- ICT R&I priorities included in the survey selected in three steps



Respondents profile

523

Respondents

126



123



117



72



43



Professors & researchers (45%)



Universities & Research centres (56%)



Large organisations (58%)

Directors, Managers & C-level positions (40%)



Industry (23%)



Small & medium organisations (42%)



Government institutions (13%)



R&I Performance in LAC



82%

Perform R&I activities

Future Internet - software, smart networks (27%)

Content technologies & info management (13%)

Health, demographic change & wellbeing (11%)

A new generation of components and systems (8%)

Secure, clean and efficient energy (7%)



95%



88%



83%



76%



76%

57%

Invest +10% of
their **employees**
to R&I



63%



60%



56%



51%



48%

55%

Invest +10% of
their **budget** to
R&I



63%



62%



56%



55%



42%

R&I cooperation participation

82% 
Have participated in R&I
cooperation programmes

54%
International
programmes

	60%
	55%



110 participated in
EU programmes

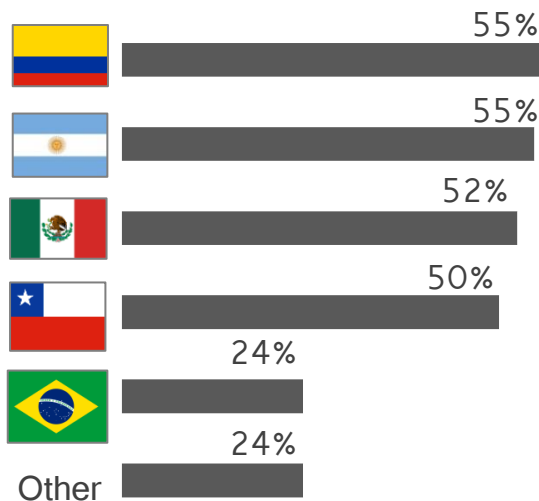
	33%
	23%



89%

Evaluated their
experience as
Positive  

H2020
Future participation
50% yes



R&I areas

1. Future Internet
2. Secure, clean and efficient energy
3. Content technologies and information management
4. Health, demographic change and wellbeing
5. Inclusive, innovative and reflective Societies

ICT priority topics in LAC

Topic	Average					
Inclusive, innovative and reflective Societies	3,47	3,35	3,44	3,46	3,66	3,42
Secure, clean and efficient energy	3,43	3,26	3,33	3,38	3,61	3,48
ICT Cross-Cutting Activities - Cybersecurity	3,42	3,16	3,38	3,27	3,58	3,54
Health, demographic change and wellbeing	3,41	3,28	3,40	3,28	3,54	3,45
Future Internet	3,32	3,16	3,41	3,16	3,39	3,39
Micro- and nano-electronic technologies, Photonics	3,28	3,16	3,49	3,27	3,23	3,32
Content technologies and information management	3,26	3,09	3,33	3,27	3,31	3,30
Robotics	3,21	3,23	3,16	3,13	2,99	3,48
e-Infrastructures	3,17	3,00	3,24	3,10	3,29	3,13
A new generation of components & systems	3,16	3,04	3,29	3,00	3,10	3,29
Advanced Computing	3,12	2,94	3,24	3,10	3,21	3,13
Factories of the Future (FoF)	3,09	2,91	3,14	3,02	3,10	3,20

Scale from 1 – not relevant to 4 – very relevant

ICT for societal challenges, Future Internet and Cybersecurity are key topics for Latin American participants in Horizon 2020

ICT priority topics in LAC

- The top 5 ICT priority topics for R&I in LAC are associated to
 - Societal challenges (ICT for inclusion, efficient energy and health)
 - Cybersecurity and Future Internet.
- The following topics are among the top 5 ICT topics of all target countries
 - Inclusive, innovative and reflective Societies
 - ICT Cross-Cutting Activities – Cybersecurity
 - Health, demographic change and wellbeing
- Secure, clean and efficient energy is also in the top 5 ICT topics in Argentina, Chile, Colombia and Mexico.
- Future Internet is in the top 5 ICT topics of Brazil and Colombia.

Top 10 ICT priority R&I areas

No	Topic	R&I area	Average
1	Inclusive, innovative and reflective Societies	ICT-enabled open government	3,53
2	Inclusive, innovative and reflective Societies	ICT platform for Learning and Inclusion	3,50
3	Content technologies and information management	Technologies for better human learning and teaching	3,50
4	Health, demographic change and wellbeing	Advanced ICT systems and services for Integrated Care	3,48
5	Health, demographic change and wellbeing	Digital representation of health data to improve disease diagnosis and treatment	3,48
6	Secure, clean and efficient energy	Smart Cities and Communities solutions integrating energy, transport, ICT sectors	3,46
7	Content technologies and information management	Big data	3,46
8	Secure, clean and efficient energy	New ICT-based solutions for energy efficiency	3,44
9	ICT Cross-Cutting Activities	Cybersecurity, Trustworthy ICT	3,42
10	Future Internet	Advanced Cloud Infrastructures and Services	3,40

Top 10 ICT priority R&I areas

- The top 10 ICT R&I priorities are grouped into 6 H2020 topics out of the 12 selected for the survey
- Six of the top 10 priorities are under societal challenges topics:
 - Inclusive, innovative and reflective societies
 - Secure, clean and efficient energy
 - Health, demographic change and wellbeing
- The other four priorities in the top 10 ranking are under ICT Work Programme topics:
 - Future Internet
 - Content technologies and information management
 - ICT Cross-Cutting Activities – Cybersecurity

Top 10 ICT priorities by country



No	R&I area	Average					
1	ICT-enabled open government	3,53	3,45	3,47	3,37	3,80	3,43
2	ICT platform for Learning and Inclusion	3,50	3,33	3,45	3,53	3,66	3,49
3	Technologies for better human learning and teaching	3,50	3,23	3,47	3,70	3,49	3,61
4	Advanced ICT systems and services for Integrated Care	3,48	3,37	3,43	3,33	3,57	3,54
5	Digital representation of health data to improve disease diagnosis and treatment	3,48	3,43	3,40	3,33	3,55	3,52
6	Smart Cities and Communities solutions integrating energy, transport, ICT sectors	3,46	3,24	3,34	3,37	3,68	3,55
7	Big data	3,46	3,38	3,47	3,53	3,53	3,49
8	New ICT-based solutions for energy efficiency	3,44	3,25	3,36	3,47	3,62	
9	Cybersecurity, Trustworthy ICT	3,42	3,16	3,38	3,27	3,58	3,54
10	Advanced Cloud Infrastructures and Services	3,40	3,12	3,53	3,10	3,51	3,51

Top 10 ICT priorities by country



- Most target countries share the majority of the top 10 ICT priorities.
 - Mexico, Colombia and Chile share 8 of the top 10 ICT priorities
 - Argentina share 6 and Brazil shares only 5
- “ICT platform for Learning and Inclusion” is a priority in all LAC target countries without exception.
- “ICT-enabled open government” is the number one priority in Argentina and Colombia
- “Technologies for better human learning and teaching” is the number one priority in Chile and Mexico
- “Smart networks and novel Internet architectures” is the number one priority in Brazil
 - It is the only one that is not included in the general Top 10 ranking

Top 10 ICT priorities by organisation type

No	R&I area	Average	Assoc.	Research Centre	Private company	NGO	Government organisation	Univ.
1	ICT-enabled open government	3,53	3,50	3,60	3,62	3,67	3,76	3,40
2	ICT platform for Learning and Inclusion	3,50	3,83	3,48	3,45	3,83	3,71	3,47
3	Technologies for better human learning and teaching	3,50	3,83	3,44	3,43	3,83	3,57	3,51
4	Advanced ICT systems and services for Integrated Care	3,48	3,67	3,44	3,48	3,33	3,59	3,48
5	Digital representation of health data to improve disease diagnosis and treatment	3,48	3,67	3,43	3,48	3,50	3,53	3,49
6	Smart Cities and Communities solutions integrating energy, transport, ICT sectors	3,46	3,50	3,57	3,38	3,67	3,68	3,38
7	Big data	3,46	3,50	3,53	3,50	3,33	3,49	3,41
8	New ICT-based solutions for energy efficiency	3,44	3,83	3,46	3,44	3,17	3,53	3,39
9	Cybersecurity, Trustworthy ICT	3,42	3,33	3,46	3,34	3,50	3,76	3,36
10	Advanced Cloud Infrastructures and Services	3,40	3,67	3,29	3,54	3,67	3,35	3,37

Top 10 ICT priorities by organisation type

- The great majority of the top 10 ICT priorities are common to the organisations participating in the survey.
- The following priorities are in the top 10 of all organisation types:
 - “ICT platform for Learning and Inclusion”
 - “Technologies for better human learning and teaching” are shared by all organisation types without exception
- “ICT-enabled open government” is the number one priority for Government organisations, Private companies and Research Centres.
- “Technologies for better human learning and teaching” is the number one priority for Universities and NGOs.
- Boosting public sector productivity and innovation through cloud computing services is a priority for Government organisations, NGO and associations.

Conclusions

- Horizon 2020 is perceived in Latin America as a great opportunity for future cooperation between both regions in the field of ICT
- Future Internet and ICT for societal challenges are key topics for Latin American participants in Horizon 2020
- Most of the top 10 ICT priorities are of common interest for Latin American countries.
 - Six of the top 10 priorities involve R&I areas under societal challenges
 - The other four priorities are within the ICT Work Programme
 - “ICT for Learning and Inclusion” and “Technologies for better human learning and teaching” are in the top 10 of all organization types
- There are still important barriers for Latin America participation in Horizon 2020
 - Lack of access to information about EU programmes
 - Difficult access to funding for LAC participants
 - Lack of experience in participating in EU projects

Visit our stand!

EU-Latin America ICT Hub

INCO Village

Meetings and speaker rounds

- Funding programmes
- Smart cities
- FIWARE
- ICT R&I Priorities
- Open innovation & Living Labs
- Digital Agendas
- ERANet EU-CELAC Joint call



EU-Latin America ICT Hub

Supporting dialogues and partnership building for EU-Latin America cooperation in ICT R&I

ICT 2015, Lisbon 20-22 October 2015

Location: [INCO village](#)

The EU-Latin America Hub provides a single-window view of opportunities for EU-LAC cooperation in ICT R&I. The EU-Latin America Hub shows an updated ICT landscape of Latin America strongest economies to foster cooperation, based on the LEADERSHIP project' outcomes: **White Book** for EU-LAC R&I cooperation in ICT; **Policy Briefs, and Country Briefs** on LAC Digital Agendas, ICT Regulations, Funding Mechanisms and ICT R&I Priorities.

AGENDA - 1-to-1 meetings and speaker rounds

Tuesday 20 October

14:30-15:15	Latin American Funding Programmes open to Europeans	Adolfo Castejón, Federico Brusa, CAF – Latin America Development Bank
15:30-16:15	Smart Cities in Latin America: trends and applications	Mario Castaño, Dennis Garcia, CINTEL
16:30-17:15	ERANet EU-CELAC Joint Call on Research and Innovation 2015-2016	Maira Karouso, CONACYT Alejandra Davidziuk, MINCYT

Wednesday 21 October

10:00-10:45	FIWARE in Latin America: Opportunities for collaboration in validated scenarios (e.g. smart cities, health, energy)	Miguel González, Tecnológico de Monterrey, and Hugo Estrada, Infotec
11:00-11:45	Latin American Funding Programmes open to Europeans	Adolfo Castejón, Federico Brusa, CAF – Latin America Development Bank
14:30-15:15	ICT R&I priorities in Latin America	Yolanda Ursa, INMARK, Maira Karouso, CONACYT
15:30-16:15	Open innovation and Living Labs: Challenges for EU-LAC cooperation in R&I	Nina Rilla, VTT, Silvia de los Rios, UPM

Thursday 22 October

10:30-11:15	Latin American Funding Programmes open to Europeans.	Adolfo Castejón, Federico Brusa, CAF – Latin America Development Bank
11:30-12:15	Smart Cities in Latin America: trends and applications	Mario Castaño, Dennis Garcia, CINTEL, Colombia
12:30-13:15	Latin American Digital Agendas: the framework for ICT cooperation	Aarón Sandoval, CONACYT



Thank you

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