Creation of LACCIR

LACCIR’s Organization

LACCIR’s Activities: 2007 – 2009
- ICT research map preliminary data and statistics
- LACCIR Requests For Proposals (RFPs)
- LACCIR Collaboration infrastructure
- Supporting programs for graduate students

Ongoing Projects, RFP2008
ICT research and development has played an important role in OAS’s agenda:

- Ministers Meeting Lima 2004 Action Plan
- Fourth Summit of the Americas, Mar del Plata 2005 declaration
- Ministers Meeting Mexico 2008, LACCIR presentation

Latin American and Caribbean (LAC) research universities challenges:

- Raise the visibility and importance of academic research in the region, with emphasis in ICT applications
- Strengthen connections to the worldwide research community
- Leverage in-LAC collaboration, research capacity and impact
- Increase graduate students pipeline and mobility within LAC

For several years Microsoft Research (MSR) has collaborated with LAC research universities, has nurtured a partnership with OAS and IADB and has on-going projects with FAPESP-BRASIL and NSF-USA
MSR calls for proposals to create LACCIR
First Announcement, MSR Summit May 2007
Goal: Stimulate Latin American academic collaborative research in ICT as an enabler of economic and social development.

- Financially supported by Microsoft Research (MSR): US$1.540.000 seed grant for four years + grants from IDB and OAS
- Implemented with a HUB (PUC Chile + Univ. of Chile) and SPOKE universities throughout Latin America & the Caribbean
- Sponsorship and support from IADB and OAS
- Partnerships with FAPESP-BRAZIL, NSF-USA
- Collaboration with CLARA, IAI, CONICYT, COLCIENCIAS, and other I+D agencies

250 Researchers from 50 Universities in 16 countries who have joined in LACCIR activities.
LACCIIR Main Activities

- **Dynamic Web Portal**: LAC map of ICT researchers, projects and graduate programs, data collection and statistics (publications, thesis, projects, R&D resources).

- **Grants and support** for ICT applied collaborative research projects within LAC. Present: seed grant money from MSR & IADB. Future: new funding.

- Support for **LAC graduate students** mobility: shortstays, internships, fellowships in LAC universities and MSR.

- **Collaboration infrastructure** for LAC ICT researchers and educators:
  - CXP for video-conferencing and e-learning. MS software/servers platform.
  - Workshops and **summer schools**. Repository of papers and theses.
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- Ongoing Projects
Oversees, defines goals and objectives
Seeks new research funding

Administration of LACCIR
Evaluation of research proposals

Dissemination of: RFP, scholarships, VideoConf, network, ICT Indicators/Metrics, matching funds

Elaboration and execution of collaborative research projects; research map
"HUB" Universities managing LACCIR:
- Pontificia Universidad Católica de Chile (legal representative)
- Universidad de Chile

"Spoke" Universities federated to LACCIR:
- Uruguay: Universidad de la República
- Mexico: Tecnológico de Monterrey and Instituto Politécnico Nacional
- Argentina: Universidad de Buenos Aires
- Costa Rica: Universidad de Costa Rica
- Trinidad and Tobago: University of the West Indies
- Brazil (soon): University to be selected outside Sao Paulo
- Colombia (soon): Univ. to be selected with COLCIENCIAS
With strong support from MSR, the LACCIR Federation is formally working together with the Inter-American Development Bank (IADB) and the Organization of American States (OAS) to:

- Advance the ICT research agenda in Latin America and the Caribbean
- Increase research opportunities for faculty and graduate students
- Increase the capacity and visibility of the LAC research community, both within the region and worldwide
- Obtain new sources for ICT R&D funding
A partnership With FAPESP-BRASIL

MSR has established a related project with FAPESP: (Fundação de Amparo à Pesquisa do Estado de São Paulo) -- the largest state scientific funding agency in Brasil, located in the State of São Paulo.

- MSR and FAPESP jointly fund academic research in the State of São Paulo
- LACCIR and FAPESP are defining (during 2009) a common agenda for RFPs and SSPs
- More information at www.agencia.fapesp.br
Currently working on the definition of joint activities:

- **NSF-PIRE**: development of innovative models for long-term, international research and education partnerships. Funds for institution-to-institution research conducted by U.S. universities and LACCIR counterparts.
- **NSF-PASI**: short courses in topics of current research activities.
- Research fellowship programs.
- Summer institutes.
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Ongoing Projects
LAC Research Observatory

An initiative to collect statistics / indicators

- CS&ICT Education
  - PhD programs
  - Number of students / graduate
  - Number of professors with PhD degrees

- Research Funds
  - Number of international projects (and grants amounts)
  - Available funds (focus, restrictions, total amount)

- Publications
  - Journal and conference papers

Researchers and Projects Map


- Brasil
- Chile
- Uruguay
- Other LAC
Why collaboration?


- Brasil: 2500 (in collaboration) + 500 (non collaboration)
- Mexico: 2000 (in collaboration) + 1000 (non collaboration)
- Chile: 1500 (in collaboration) + 500 (non collaboration)
- Argentina: 1000 (in collaboration) + 500 (non collaboration)
- Uruguay: 500 (in collaboration) + 1000 (non collaboration)
- Costa Rica: 1000 (in collaboration) + 500 (non collaboration)
- Other LAC: 500 (in collaboration) + 500 (non collaboration)

Non Collaboration vs In Collaboration
Why collaboration?

Within LAC Collaboration in CS/CE ISI Publications 2000-2006

- Other LAC
- Brasil
- Chile
- Mexico
- Argentina
- Uruguay
- Costa Rica

In-LAC Collaboration
In-No LAC Collaboration
LAC Research Observatory

www.laccir.org
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Ongoing Projects, RFP2008
Request for Proposals (RFP) 2007, 2008, 2009
High Quality Research (Indexed publications) and ICT applications for sustainable development. (education; healthcare; energy; earth, environment and climate change)

Collaboration At least two different LAC countries and one p poke.

Matching Funds Potential from national funding agencies.
Addressing Latin America and Caribbean priority social and economic challenges through advancing ICT research

USD 250,000 MSR grant distributed among 5 projects

Participants:
18 Proposals Submitted
105 Researchers Involved
29 Institutions Involved
11 Countries

5 Winner Proposals:
23 Researchers Involved
12 Institutions Involved
7 Countries
4 ICT Application areas: Education, Productive Chains, e-Government and Healthcare
Addressing Latin America and Caribbean priority social and economic challenges through advancing ICT research

USD 250,000 (MSR grant + IDB grant)

5 Winner Proposals:

23 Researchers Involved
12 Institutions Involved
5 Countries
4 ICT Application areas: Environment, Agrobusiness, e-Government and Micro- Economies
LACCIR RFP 2007-2008

- Proposals: 89%
- Researchers Involved: 55%
- Institutions: 72%
- Countries: 45%
LACCIR RFP 2007 - 2008

Participation by Country

- Chile: 60%
- Mexico: 70%
- Argentina: 50%
- Uruguay: 40%
- Brazil: 30%
- Colombia: 20%
- Belgium: 10%
- Costa Rica: 10%
- Dominican Republic: 10%
- Ecuador: 10%
- India: 10%
- Paraguay: 10%
- Puerto Rico: 10%
- USA: 10%
- Canada: 0%
- Venezuela: 0%
- Peru: 0%
Total Amount: USD 300,000
Up to 6 proposals to be selected for funding (USD 50,000 each approx.)

More information: www.laccir.org
Open Date: June 23rd, 2009.

Last Date for Submission: September 21st, 2009

Awards Notification: December 14th, 2009
LACCIR RFP 2009

ICT Application Areas

Healthcare
Education
Energy
Earth, environment and climate change

Call for Proposals available at www.laccir.org
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- Ongoing Projects, RFP2008
Infrastructure for LACCIR R&D Activities

- Internet Servers
- Conference XP
- Microsoft Software Library
- LACCIR Web Portal + SharePoint
Activities on the Collaborative Infrastructure

- Thesis Defenses
- Virtual Communities
- Keynote Speeches
- Projects Meetings
- Regular Courses
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- Ongoing Projects, RFP2008
Second Request for Proposals:

- Main goal: Supporting the research work of MSc. and PhD students
- Open to all universities in the Latin American and Caribbean region
- Visiting a research center in a different LAC country of her/his university
- LACCIR provides around U.S. $5,000 for travel and stay expenses
- Total amount available through this RFP is U.S. $75,000 (15 awards)

Opening Date: June 29, 2009
Last Date for Submission: August 31, 2009
Awards Notification: October 30, 2009
Further information at: www.laccir.org
Request for MSR Fellowships and Internships Proposals

Main goal: Supporting the research work of MSc. and PhD. students

Fellowships at Local University:
- 2 years duration
- PhD students
- Tuition fees
- Living expenses
- Conferences travel expenses

Internships at MSR:
- 3 months in MSR at Redmond
- PhD. and MSc. students
- Travel and living expenses

LACCIR announces, disseminates and pre-selects candidates.
Agenda

MSR & LATAM

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Ongoing Projects
Ongoing Projects, First RFP

- 7 Countries
- 13 Research Teams
- 3 Matching Funds
- 25 Publications (so far)
- 14 Presentations (so far)
Instructional Design Assistant → helps the teacher assemble learning objects

Including web pages

Produce standard packages of L.O. using SCORM. (Sharable content Object Reference Model)

Uruguay, Brazil, Argentina, Ecuador, Mexico
Ongoing Projects, First RFP

- Quality Evaluation of Food Products → Computer Vision System that processes the picture and measure visual attributes related to quality
- Low cost
- For small and medium enterprises
- Chile, Mexico
Ongoing Projects, First RFP

- Digital Workbook Tool supports asynchronous collaboration
- Tablet PC and students’ class notes
- One Note 2007 and Conference XP
- Chile, Colombia
Collaborating in Disaster Relief Efforts → coordination between several critical information systems

- Firemen, police, national government, Red Cross
- Hospital personnel, armed Forces

- Brazil, Chile
Ongoing Projects, First RFP

- **Smart Phones** → collaboration in hospital work
- Discuss diagnosis and/or treatment
- Gather artifacts and human resources
- Hospital staff spends over 50% away from their base location
- Mexico, Chile
Ongoing Projects, First RFP

- 7 Countries
- 13 Research Teams
- 3 Matching Funds
- 25 Publications (so far)
- 14 Presentations (so far)
Ongoing Projects, Second RFP

- 6 Countries
- 13 Research Teams
- Starting on 2009
Domestic environment monitoring with opportunistic sensor networks

3 MM children under 5 die each year from environment related causes.¹

One laptop per child

Uruguay, Brazil.

¹ Source: [WHO](http://www.who.int/mediacentre/factsheets/fs284/en/index.html)
Ongoing Projects, Second RFP

- **Time Saver** → Decentralized virtual worlds for the provision and integration of public services in Latin America

- Semantic interoperability facilitate the seamless and coherent interaction among diverse public services

- Web 3.0 technologies can enrich current productive environments

- Brazil, Chile
Quality evaluation and preservation of grains in silo bags

Harvest bags (or silobags) are a grain storage system that is being increasingly adopted worldwide.

Monitor and automatically adapt the internal conditions of the grain stored into silobags, in order to improve their preservation state.

Argentina, Uruguay
E-Cloudss. Building data management services in Clouds

Unlimited computing and storage capacities transparently managed through services:
- space management
- computing
- scalability
- services management

Mexico, Brazil, Uruguay
Ongoing Projects, Second RFP

- Supervise and allocate cash registers at grocery stores
- Measure waiting times of clients in queues
- Incorporate decision theory to efficiently allocate cash registers

Chile, Mexico.

Hi Rosario:
We have a special offer for you today, Shampoo just for $7.99.