



UN-GGIM

UNITED NATIONS INITIATIVE ON
GLOBAL GEOSPATIAL
INFORMATION MANAGEMENT

Academic Network Americas – ANA
Prof. Rosario Casanova – Chair

<http://redacademica.org>

UN-GGIM Academic Network Americas

Executive Committee

Advisory Board

Chair: Rosario Casanova, Uruguay

Deputy Chair: Bhesem Ramlal,
Trinidad and Tobago

Secretary: Jorge Prado, México

- Daniel Páez, Colombia
- Daniel Del Cogliano, Argentina
- Charlotte Smith, United States
- Ricardo Crespo, Chile

Manage ANA and coordinate tasks.

Define general guidelines, membership applications, and academic actions



Country	Name of University	Person of Contact
Argentina	Universidad Nacional de La Plata www.unlp.edu.ar	Prof. Dr. Daniel Del Cogliano
Argentina	Universidad Nacional del Sur www.uns.edu.ar	Dra. Alejandra Mabel Gernaldi
Antigua & Barbuda	Institute of Technology www.abiit.edu.ag	Michael Charles
Brazil	University of Brasilia, Research center CIGA www.ciga.unb.br	José Leandro de Araújo Conceição
Canada	University of New Brunswick www.unb.ca	Prof. David J. Coleman
Canada	University of Waterloo www.uwaterloo.ca	Dr. Saied Pirasteh
Chile	Observatorio de Ciudades UC www.estudiosurbanos.uc.cl	Ricardo Truffello
Chile	Universidad de Santiago	Ricardo Crespo
Colombia	University of Los Andes www.uniandes.edu.co/en	Prof. Daniel Paez
Mexico	Geography Institute www.igeograf.unam.mx	Dr. Jorge Prado Molina
Trinidad & Tobago	The University of the West Indies sta.uwi.edu	Dr. Bheshem Ramlal
Uruguay	University of Republic www.fing.edu.uy	Dr. Rosario Casanova
USA	University of Alabama geography.ua.edu	Dr. Johanna Engström
USA	University of California, Berkeley sph.berkeley.edu	Dr. Charlotte Smith
USA	University of Maine www.umaine.edu	Prof. Harlan Onsrud
USA	Harvard University www.harvard.edu	Prof. Wendy Guan
USA	Texas A&M University-Corpus Christi www.tamucc.edu	Prof. Gary Jeffress

The Academic Network Americas is a forum for universities and educational centers involved in research and development in geospatial information and related topics, in different parts of the region.

Individual Members

Country	Name	Details
Brazil	Rafael Sanzio Araújo dos Anjos www.rafaelsanziodosanjos.com.br ciga.unb.br	Head Professor at UnB Director, Center for Applied Cartography and Geographic Information - CIGA Doctorate in Spatial Information Science from the University of São Paulo
Chile	Rodrigo Barriga-Vargas www.ubo.cl	Professor, Universidad Bernardo O' Higgins (Chile) PhD in Geography, University of Barcelona Spain
Uruguay	Laura (hidden) www.fing.edu.uy	Surveying Engineer, University of The Republic Bilingual Spanish and English



Objectives:

- Support the goals of UN-GGIM Americas.
- Serve as subsidiary of the UN-GGIM Academic Network.



Functions: UN-GGIM Americas

- Academic advice: involving strategic knowledge, research, education and training in geospatial information management.
- Elaborate academic strategies according to the UN-GGIM Americas Plan of Action.
- Advise on UN-GGIM capacity building programs in the Americas region.
- Identify and inform UN-GGIM concerning gaps in academic knowledge or problems that may exist or arise, and propose initiatives when appropriate to address such questions and challenges.



Functions: UN- GGIM World Academic Network

- Serve as subsidiary of the UN-GGIM World Academic Network, linking World view with Americas needs.
- Identify the challenges and opportunities in which UN-GGIM World Academic Network and UN-GGIM Academic Network Americas can promote inclusion based on an academic response.
- Translate important documents from the World Network into Spanish, Portuguese, and French when appropriate.



Work Plan 2018

OBJECTIVES
Promote the Academic Network Americas and recruit new members
Identify universities and educational centers involved in research and development in geospatial information and related topics in the Americas
Assess geospatial training and capacity requirements of governmental institutions of Member Countries
Identify the challenges and opportunities perceived by the Global Academic Network and by UN-GGIM: Americas and turn them into the academic sphere of the region to promote their inclusion for research and development
Develop academic strategies aligned with the UN-GGIM: Americas Work Plan and advise on their capacity building programs
Identify and inform UN-GGIM: Americas about different academic knowledge or problems that may exist or arise and propose timely initiatives for such issues and challenges
Promote collaboration among universities and research centers in the Americas
Explore the need for a Regional School of Geospatial Information Management



Activities

Survey needs for
training courses –
UN-GGIM Americas'
Members

Survey of available
courses & degree
and postgraduate
programs

Research
Network:
Projects

Identify topics in
common w/
Working groups,
Private Sector and
Academic Network



Survey of demands and needs of training courses – UN-GGIM Americas' Members

For the institutions that generate cartography or in charge of the Spatial Data Infrastructure:

***Are there are national academic centers that provide training in GIS:**

- cartography?
- geographical data capture methods?
- quality standards of geographic information?
- methods of assessing the quality of geographic information?
- geoservices?
- integration of statistics with geospatial information?

*** For training from abroad: Agency/Company Name, Thematic area addressed.**

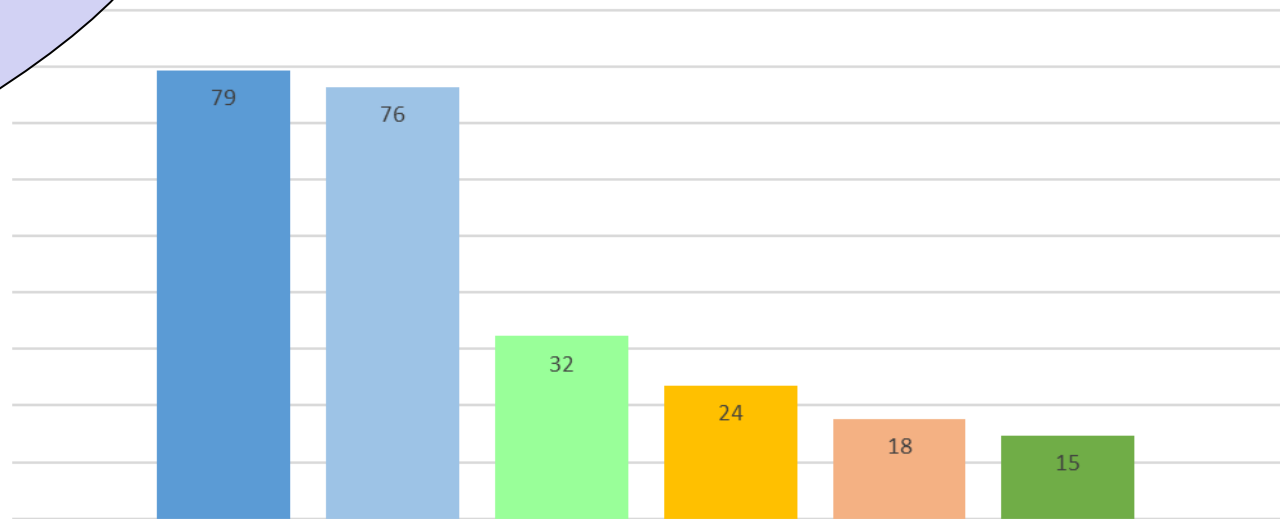
*** What thematic areas or specific concepts are needed to expand knowledge?**

34
responses



First draft
analysis:

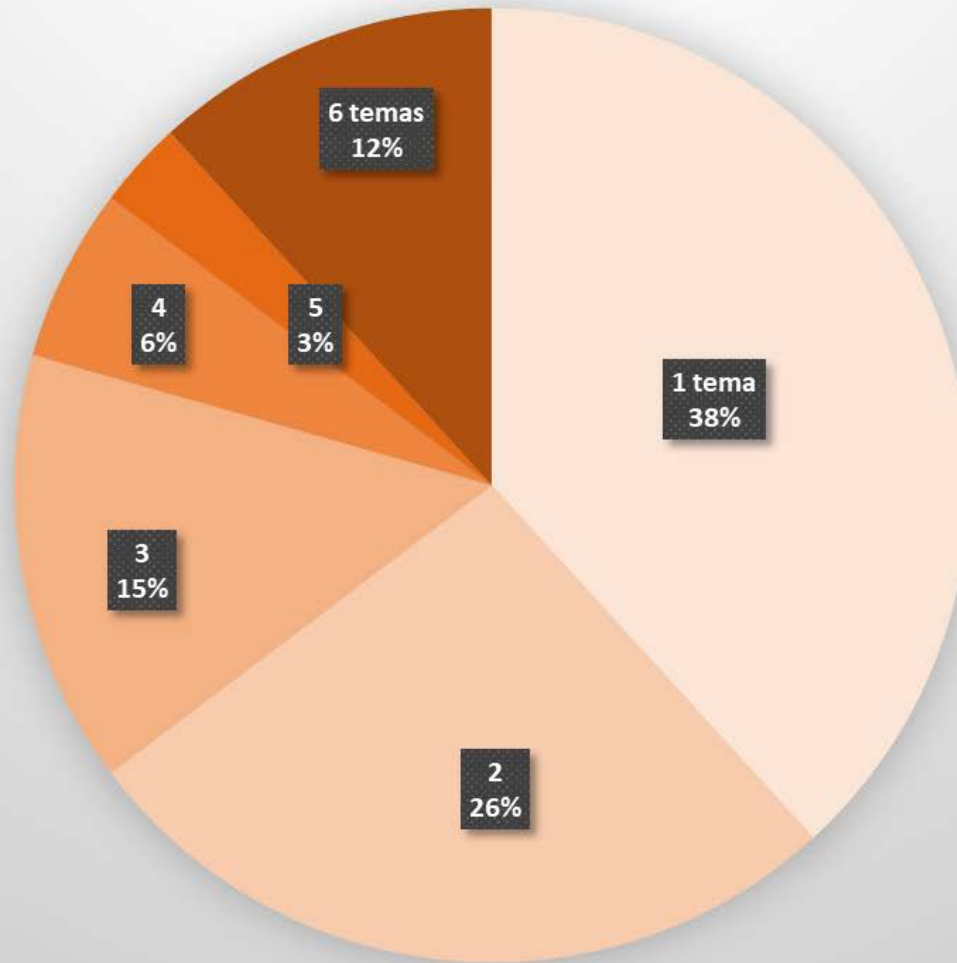
Países que tienen capacitación en/ Percentage of countries with education courses:



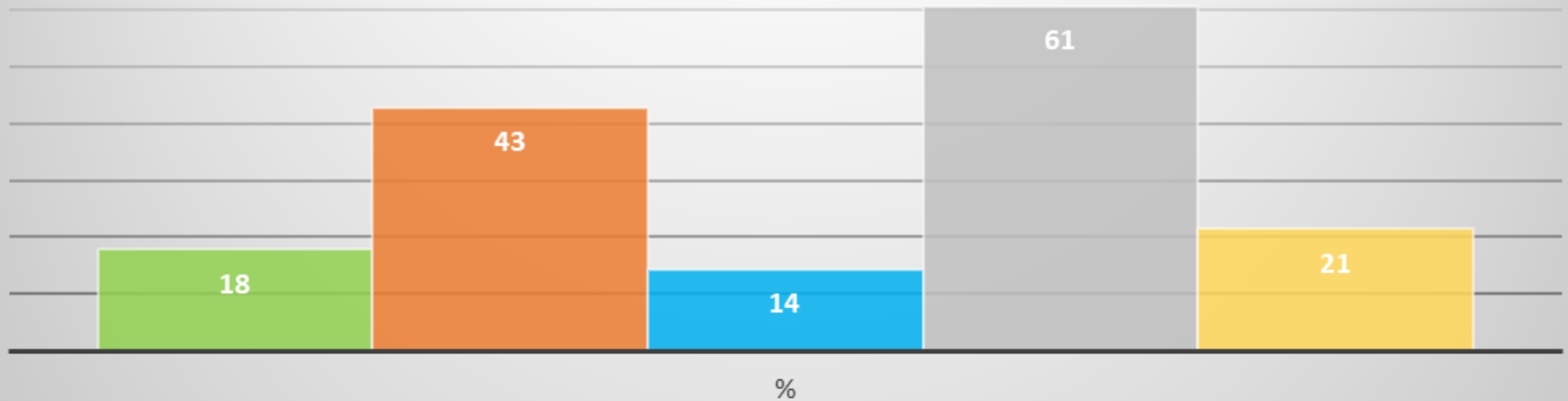
- Cartografía/ Cartography
- Métodos de captura de datos geográficos/ Geographical data capture methods
- Geoservicios/ Geoservices
- Normas de calidad de la información geográfica/ Quality geospatial Data Standards
- Métodos de evaluación de la calidad de la información geográfica/ Geospatial Data Quality Evaluation
- Vinculación de datos geoespaciales y estadísticos/ Integration of statistical with geospatial data



Porcentaje de países con centros educativos que forman en uno o más de los temas consultados/ Percentage of countries with educational centers give courses in one or more of the subjects consulted



Capacitación externa proveniente de/ Training from:



- UN-GGIM (UN-GGIM, UN-GGIM:Americas, Proyecto Caribe)
- Universidades/ Universities
- Organizaciones regionales/ internacionales (IPGH, Geosur, OGC) / International Organizations
- Instituto Geográfico (España, México, Colombia)/ National Geographic Institutions
- Empresas privadas / Private Sector



Porcentaje de países que identifican necesidad de capacitación en/ Percentage of countries that identify need for training in:



- Geoservicios/ Geoservices
- Manejo de IDE (políticas, interoperabilidad) / SDI Management
- Calidad de la Información Geográfica/ Geographic Data Quality
- Cartografía, Producción cartográfica/ Cartography
- Percepción remota (Fotogrametría, UAV) / Remote Sensing
- Vinculación datos geográficos y estadísticos/ Integration of statistics with geospatial information
- Big Data
- Aplicaciones específicas (modelados, hidrografía)/ Specific Apps
- IoT
- Uso de Datos colaborativos/ Voluntary Geographic Information (VGI)



Survey of available courses & degree and postgraduate programs – Academic centers

List of universities that responded to the survey

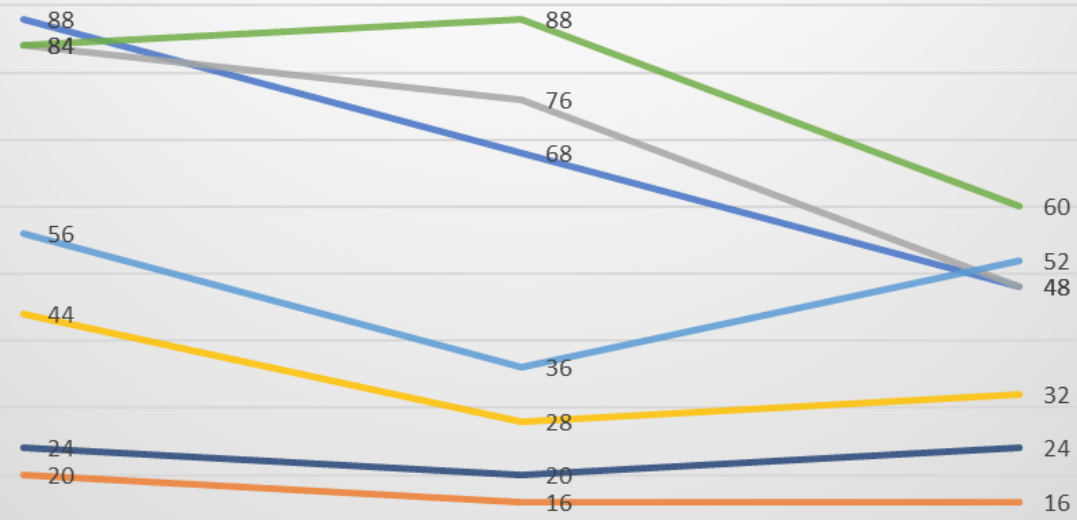
27 responses until July 30, 2018

Nombre de la Universidad, Facultad o Institución, País Name of University or Institute, Country	País Country
Universidad Nacional del Sur	Argentina
Universidad Nacional de Mar del Plata	Argentina
Universidad Nacional del Sur, Departamento de Geografía y turismo	Argentina
UNLP-Universidad Nacional de La Plata	Argentina
Universidad Nacional de Avellaneda	Argentina
Universidad Nacional del Sur	Argentina
Universidad Nacional de Villa Maria, Instituto de Ciencias Sociales, Argentina	Argentina
Universidad Nacional de la Patagonia San Juan Bosco	Argentina
Universidad Nacional San Juan	Argentina
Universidad Nacional de San Luis, Facultad de Ciencias Fisico, Matemáticas y Naturales	Argentina
Centro de Investigaciones Geográficas, Facultad de Ciencias Humanas	Argentina
Carleton University, Canada	Canada
Mount Royal University	Canadá
Universidad de Santiago de Chile	Chile
Instituto de Geografía / Facultad de Historia, Geografía y Ciencia Política / Pontificia Universidad Católica de Chile	Chile
Universidad de Manizales	Colombia
Universidad del Valle, Facultad de Ingeniería	Colombia
Pontificia Universidad Católica del Ecuador	Ecuador
PUCE, Ecuador	Ecuador
Universidad Nacional Autónoma de México	México
Universidad de Sonora	México
Universidad Autónoma de Nuevo León, México	México
Universidad Nacional Autónoma de México	México
Universidad Autónoma de Zacatecas	México
Facultad de Ingeniería - Instituto de Agrimensura	Uruguay
Universidad Bolivariana de Venezuela	Venezuela



Cursos que se dictan/ Courses being taught...

First draft analysis

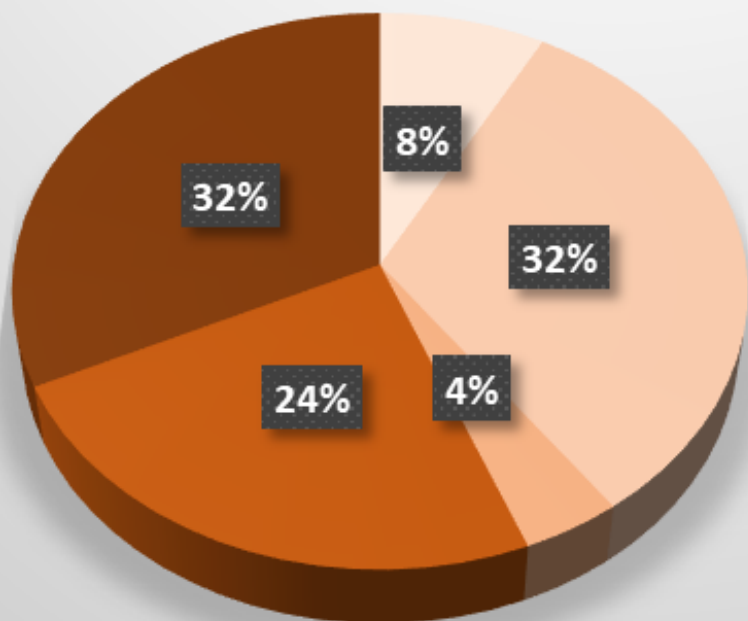


%	%	%
CURSOS DE ENTRENAMIENTO TÉCNICO / TRAINING COURSES	CURSOS DE GRADO ACADÉMICO / GRADUATE COURSES	CURSOS DE POSGRADO / POSGRADUATE COURSES

- Ciencia Geoespacial / Geospatial Science
- Computación geoespacial (usando R o python) / Geospatial computing (using R or python)
- Teledetección (Incluyendo imágenes satelitales) / Remote sensing (Other than Photogrammetry)
- Fotogrametría (No incluyendo imágenes satelitales) / Photogrammetry
- Integración de información estadística con datos geoespacial / Integration of statistics with geospatial information
- Cartografía / Cartography
- Geodesia / Geodesy



¿Cuál es el título más alto brindado por su Institución? /Which is the higher level of qualification given by your Institution (related to GIS)



- Certificado de cursos de entrenamiento/Certificate for training courses
- Grado Académico/ Bachelor Degree
- Certificado de Actualización Profesional/ Professional Upgrade Certificate
- Maestría/ Master Degree
- Doctorado/ Doctorate



Research Network: Collaboration Database *Researchers*

Date	Name	Deg.	Type of research work seeking	Year exp.	Area of expert	Start date	End date	LinkedIn profile	Link to Website	Contact Information (Email)
Fecha de ingreso de los datos	Nombre	Grado académico	Tipo de investigación que busca	Años de exper	Área de exper	Fecha de inicio	Fecha de finalización	Perfil de LinkedIn	Link a la página web	Información de contacto (Email)



Research Network: Collaboration Database *Researchers*

Project Title	Project Lead	Short Description of Overall Project	Short description of need	Education requested	Types of skills needed	Start date	End date	Conditions of collaboration (duration, location)	Salary available (yes/no)
Título del proyecto	Nombre del líder del proyecto	Breve descripción del proyecto general	Breve descripción de la colaboración que se necesita	Conocimientos académicos requeridos	Habilidades requeridas	Fecha de inicio	Fecha de fin	Condiciones para la colaboración (duración, ubicación)	Salario dispo (si/no)



Identify topics in common with Working groups, Private Sector and Academic Network

Take-away Messages

Data, information, and knowledge

Precise positioning

Changes in spatial distribution

Complexity and Connectivity

Land Administration affect the SDGs

Open access SDIs

Existing data is not always well connected

IoTs

Tangible frameworks

Offer knowledge available to other sectors

Measuring SDG indicators depend on SDI capabilities

Lack of data

Capacity building

From research to real-world impact

More megacities in less developed regions

Be aware of what we see and be aware of what and how to map

Visible SDIs

Increase access to information for sustainability

Models are context dependent

Shift the world to people's view



Capacity development, training, and interdisciplinary collaboration

UN-GGIM | ACADEMIC NETWORK

un-ggim.academicnetwork.org



What should we care for to achieve the goals?:
data collection (sensors, imagery,..), data storage,
data quality, data integration, etc.?

Clearly, any of these topics may imply at least
training, technology, or methods, research and
therefore cooperation becomes crucial.

Share your ideas/priorities with us:

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casanova@fing.edu.uy



Thank you and join us

<http://redacademica.org>



UN-GGIM

United Nations Initiative on
Global Geospatial Information Management