

INSTITUTO GEOGRÁFICO AGUSTÍN CODAZZI LA GEOGRAFÍA OFICIAL DE COLOMBIA

SDI Capacity Building Model for Developing Countries. Case Study: Colombia

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Capacity Building - Definition

- Creation and development of **capabilities and capacities, individual and institutional**, to solve problems on geographic information management and to accomplish the institutional mission in a long term form

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aims at...

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Relationships

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Capacity Building Model

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Research and Development

Science and Technological National System

- Strengthen CIAF as R&D Center on Geographic information oriented to:
 - Innovation technology to solve specific problems related to adoption of new technology, development of new methodologies, creation of new geographic services and improvement of processes
 - Research of territory, redeeming the role of geography as fundamental knowledge for development

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Transfer of knowledge

- Upgrade and Creation of advanced programs including SDI issues (Academic and data producer institutions)
 - Master's Degree in Geography
 - Master's Degree in Geomatics
 - Graduate studies in Land valuation
 - Graduate studies in GIS
- Short Courses: new themes such as: spatial data infrastructures, standards, metadata, data quality, maps on-line

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Transfer of knowledge. Workforce Model

Need to generate a workforce model

- **Roles:** Coordination, data management, marketing, project management, analysis, system administration, teaching, visualization

**Workforce Development Models for Geospatial Technology, U. Mississippi, 2001*

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Transfer of knowledge. Leadership and profiles Competences Model

<p>Technical Competencies</p> <ul style="list-style-type: none"> • Manage of ICT-GI • GIS • Programming skills • Cartography • Photogrammetry • Remote Sensing • Processing • Technical writing 	<p>Business Competencies</p> <ul style="list-style-type: none"> • Broad and integral vision • Change management • Costs benefit analysis • Ethics Modeling • Business understanding • Performance assessment • Visioning • Information sharing
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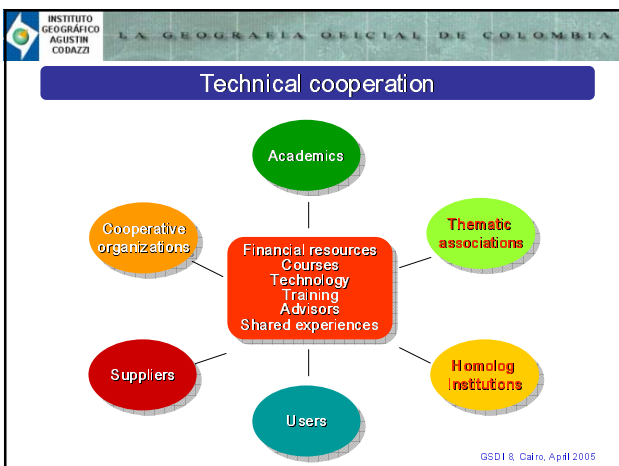
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Transfer of knowledge. Leadership and profiles Competences Model

<p>Analytical Competencies</p> <ul style="list-style-type: none"> • Creative thinking • Knowledge management • Model building skills • Problem solving skills • Research skills • Systems thinking 	<p>Interpersonal Competencies</p> <ul style="list-style-type: none"> • Leadership • Communication skills • Conflict management • Feedback skills • Learning processes • Questioning • Relationship building skills • Self-learning and self-management
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Technical cooperation - Paradigm

United Nations, 2002

- Acquisition of interactive knowledge/Learning
- Institutional commitment/Sustainability
- Institutional scope and alliances: diverse players and levels
- Policies scope
- Leadership
- Outcome and self-evaluation

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Organizational structure

<p>Institution</p> <ul style="list-style-type: none"> • Vision/Mission • Strategies • Organizational culture • Processes • Resources 	<p>Relationships</p> <p>Other institutions</p> <ul style="list-style-type: none"> • Suppliers • Users
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Conclusion

- SDI development can be achieved if **persons, organizations and developing** countries acquire appropriate capabilities to assimilate and to incorporate new technologies to enable them to face the new challenges imposed by the information society.

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Thank you !

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