

DIAGNOSIS IN THE MANAGEMENT OF GEOSPATIAL INFORMATION IN THE AMERICAS

3rd Meeting UN-GGIM: Americas
México, October 2016



UN-GGIM

United Nations Committee of Experts on
Global Geospatial Information Management

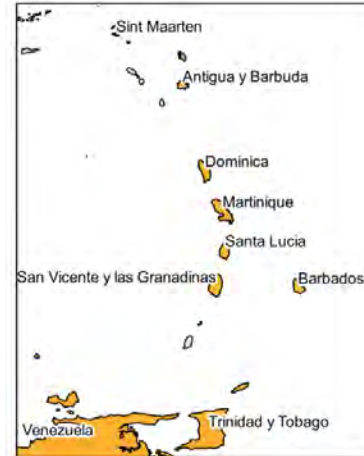
ggim.un.org

Objetives of the diagnosis

- ✓ Knowing the status of the **institutional framework** supporting geospatial information management in the region
- ✓ Knowing the current situation on the **use of norms, standards and technical specificactions.**
- ✓ Identify advances on the **integration of statistics and geospatial information** in the Americas.
- ✓ Knowing the situation risk, vulnerability and threat management and the use of geospatial information.



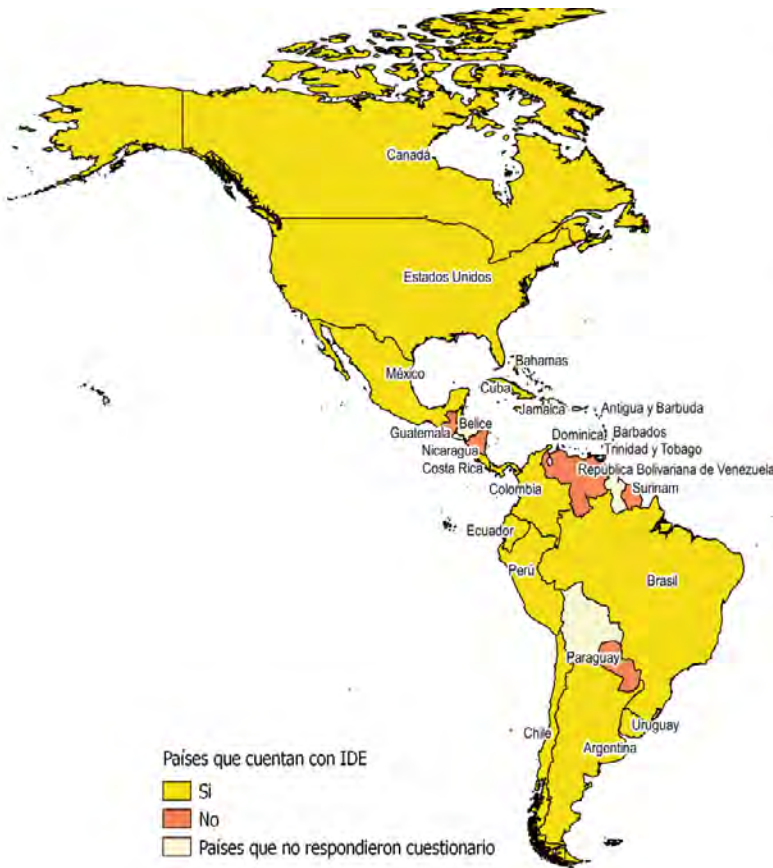
Response to the questionnaire



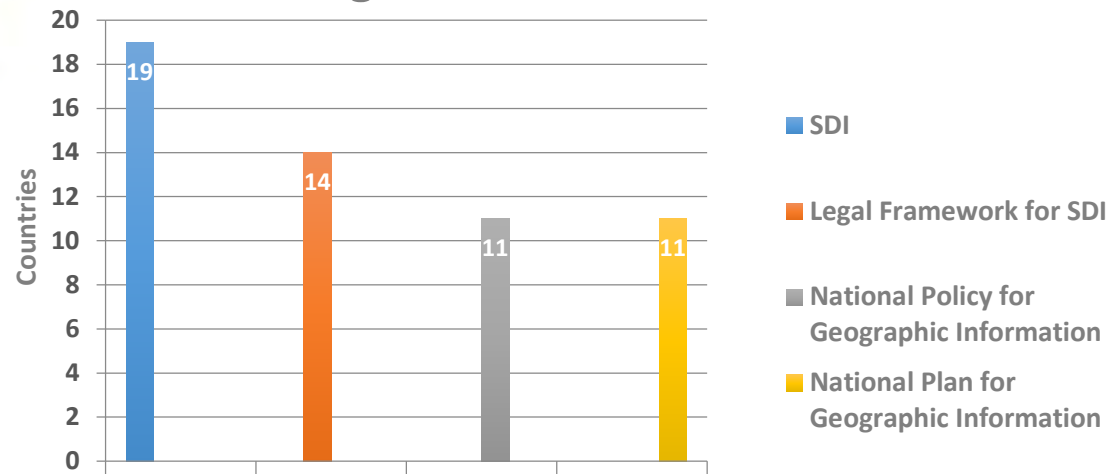
- Antigua y Barbuda
- Argentina
- Bahamas
- Barbados
- Belice
- Brasil
- Canadá
- Colombia
- Costa Rica
- Cuba
- Chile
- Dominica
- Ecuador
- Estados Unidos
- Guatemala
- Jamaica
- Martinique
- México
- Nicaragua
- Panamá
- Paraguay
- Perú
- República Bolivariana de Venezuela
- San Vicente y las Granadinas
- Sint Maarten
- Santa Lucía
- Surinam
- Trinidad y Tobago
- Uruguay



Institutional Framework for GI management

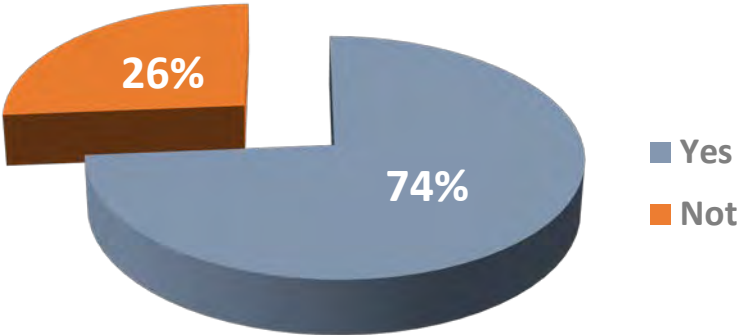


SDI and legal instruments

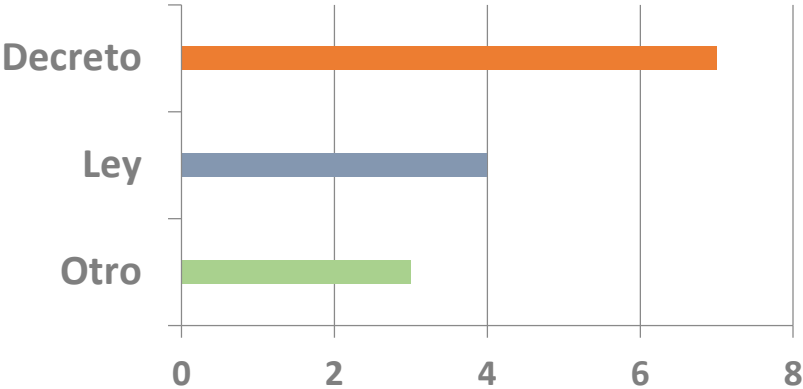


Institutional Framework for GI management

Legal Framework for SDI



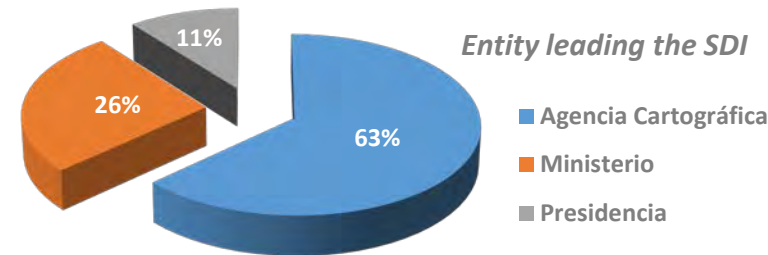
Type of Legal Framework



Institutional Framework for GI management

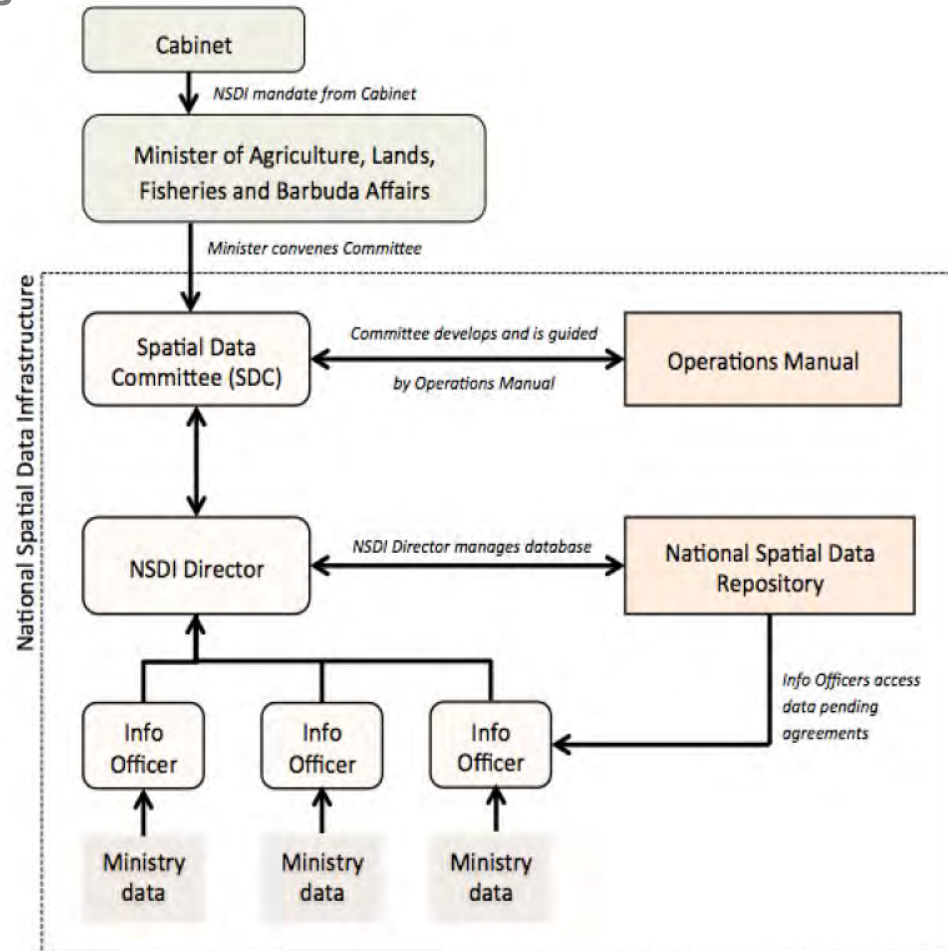
COUNTRY	SDI RESPONSIBLE ORGANIZATION
Antigua y Barbuda	División de Topografía y Cartografía
Argentina	Instituto Geográfico Nacional
Bahamas	Centro Nacional de Información Geográfica
Belice	Ministerio de Recursos Naturales y de Agricultura
Brasil	Comisión Nacional de Cartografía
Canadá	Natural Resources Canada's Centre for Mapping and Earth Observation
Colombia	Instituto Geográfico Agustín Codazzi
Costa Rica	Instituto Geográfico Nacional
Cuba	Oficina Nacional de Estadística e Información
Chile	Ministerio de Bienes Nacionales
Ecuador	Instituto Geográfico Militar y Consejo Nacional de Geoinformática
Estados Unidos	FGDC activities are administered through the FGDC Secretariat, hosted by the U.S. Geological Survey
Jamaica	Ministerio de Agua, Tierra, Medio Ambiente y Cambio Climático
Martinique	Instituto Geográfico Nacional
México	Instituto Nacional de Estadísticas y Geografía
Panamá	Instituto Geográfico Tommy Guardia
Perú	Presidencia del Consejo de Ministros
Sint Maarten	Ministerio de Vivienda, Ordenamiento del territorio, Medio Ambiente e Infraestructura
Uruguay	Presidencia de la República Oriental del Uruguay

SDI Responsible Organization



Institutional Framework for GI management

Organizational charts



Institutional Framework for GI management

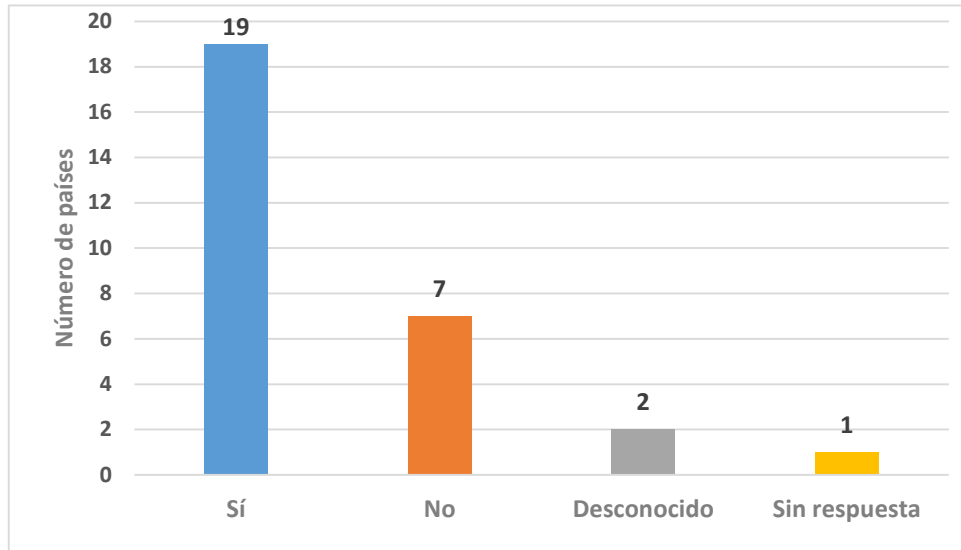
National Mapping and SDI

País / Funciones	Coordinador IDE	Proveedor de Datos	Participación/Coordinación Grupos de Trabajo
Antigua y Barbuda	X	X	X
Argentina	X	X	X
Bahamas	X	X	X
Belice	X	X	X
Brasil	X	X	X
Canadá	X	X	X
Colombia	X	X	X
Costa Rica	X	X	X
Cuba		X	X
Chile		X	X
Ecuador		X	X
Estados Unidos	X	X	X
Jamaica	X	X	X
Martinique	X	X	X
México	X	X	X
Panamá	X	X	X
Perú		x	X
Sint Maarten			
Uruguay		X	X

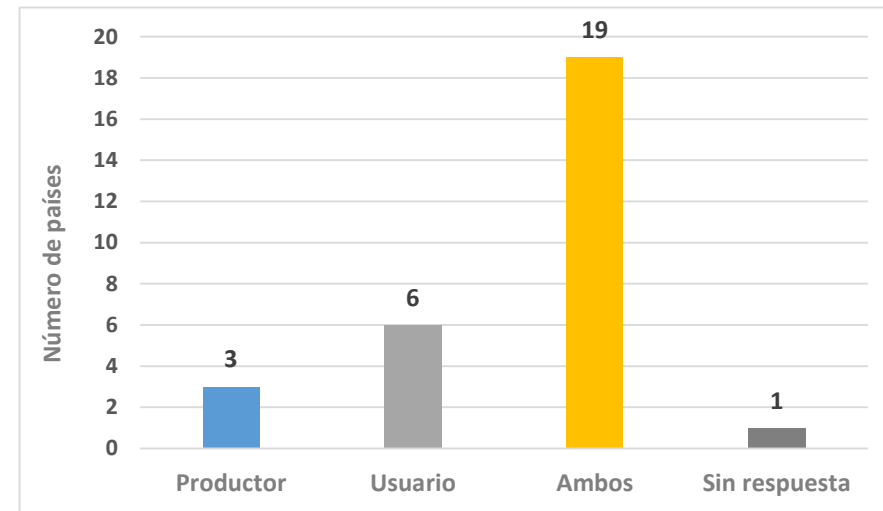


Standards and Specifications

Existence of national organization for GI normalization

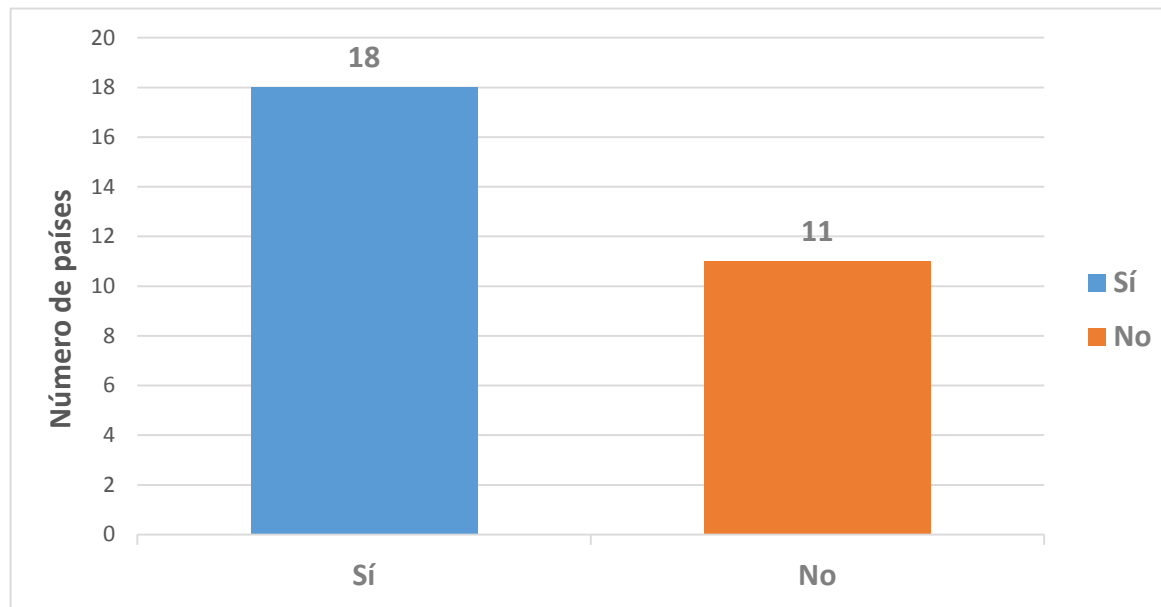


Users and producers of geospatial norms



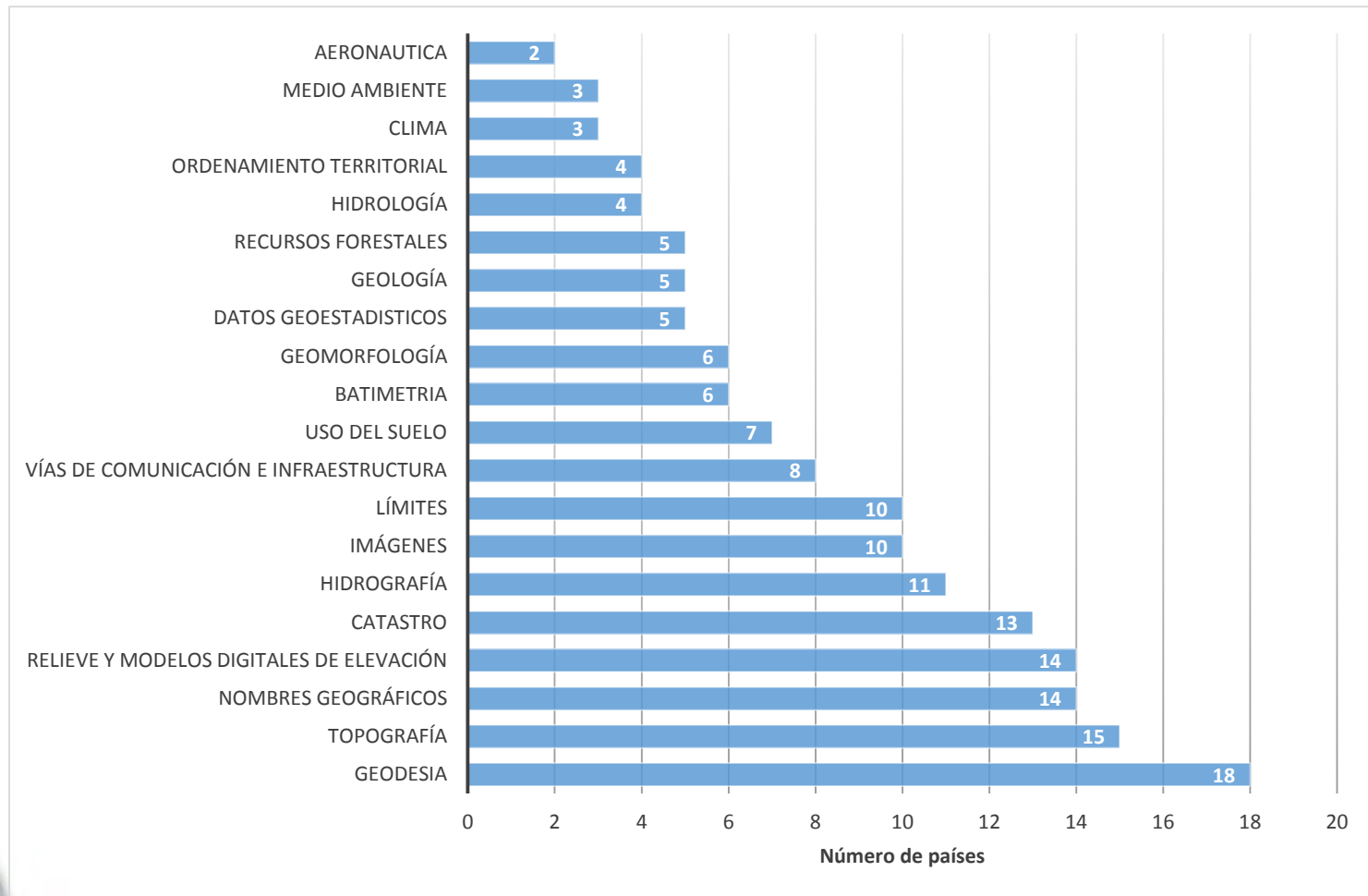
Standards and Specifications

Participation in regional or international normalization initiative



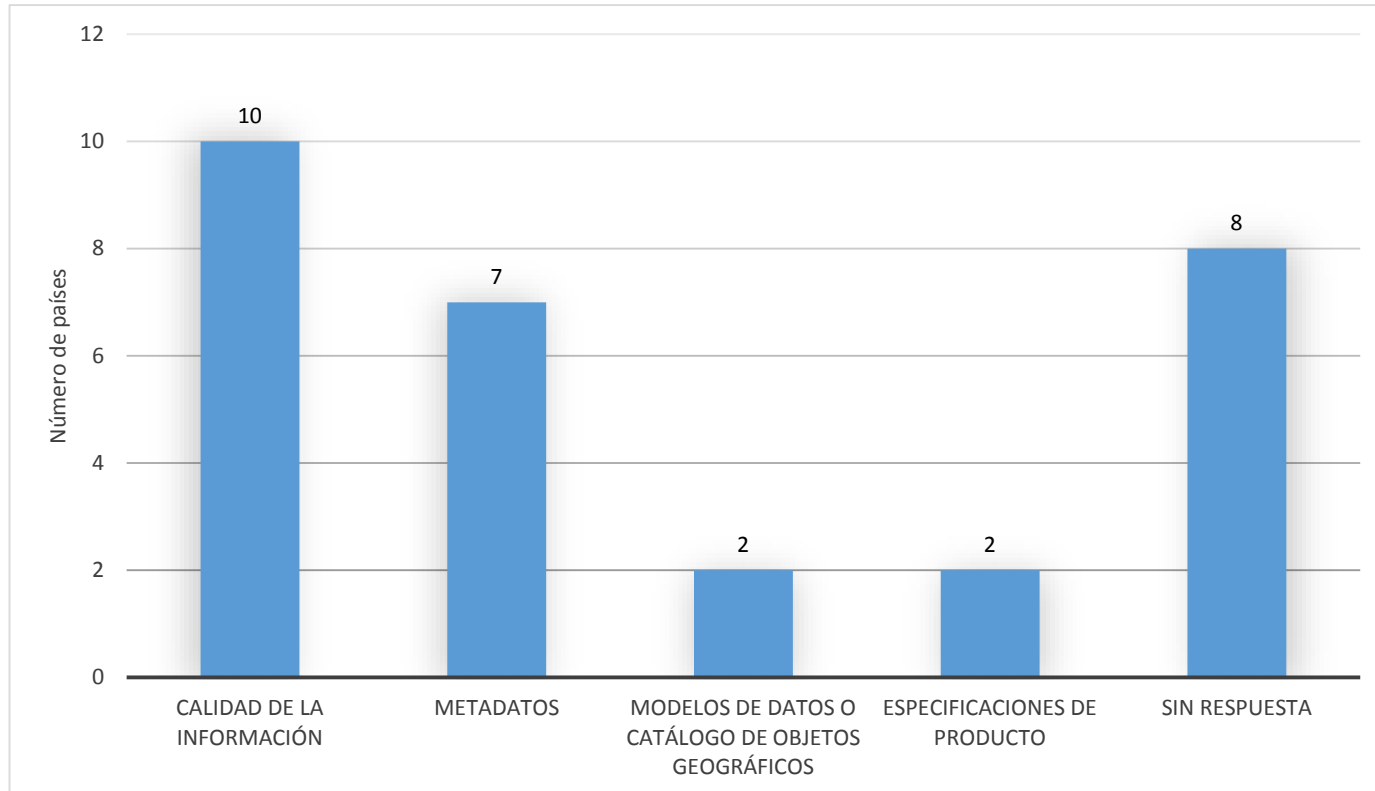
Standards and Specifications

Themes normalized by producers of norms



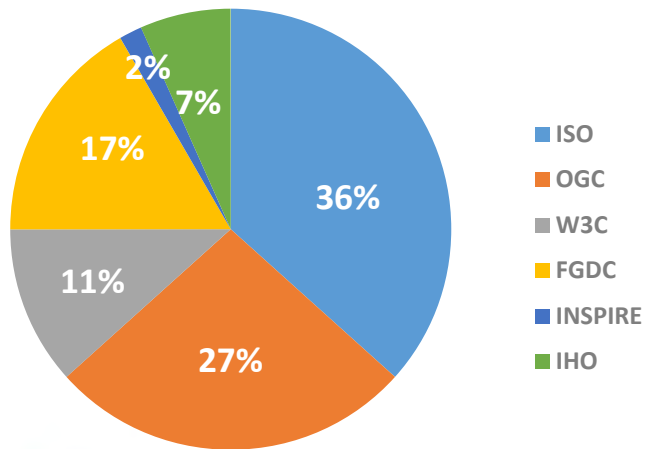
Standards and Specifications

Priorities stated by norms producers

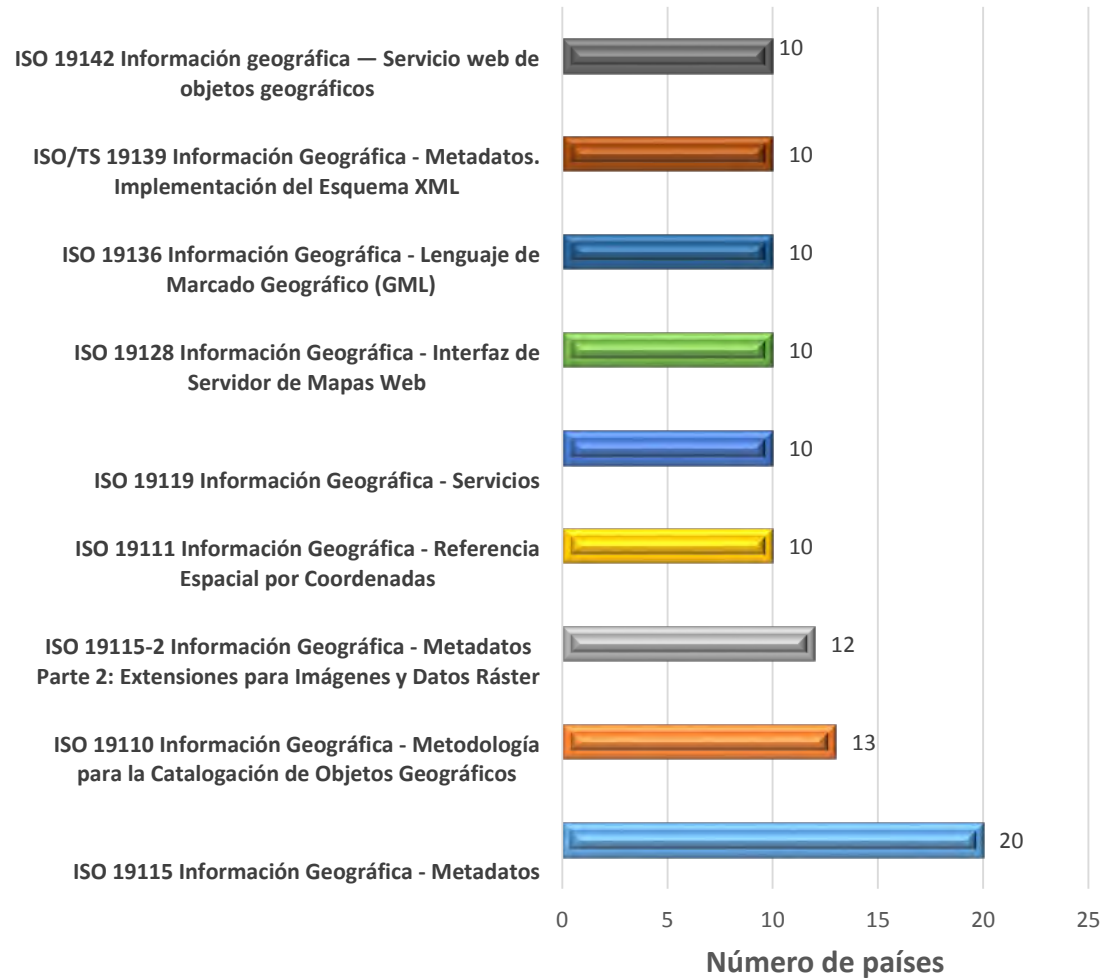


Standards and Specifications

Use of international standards

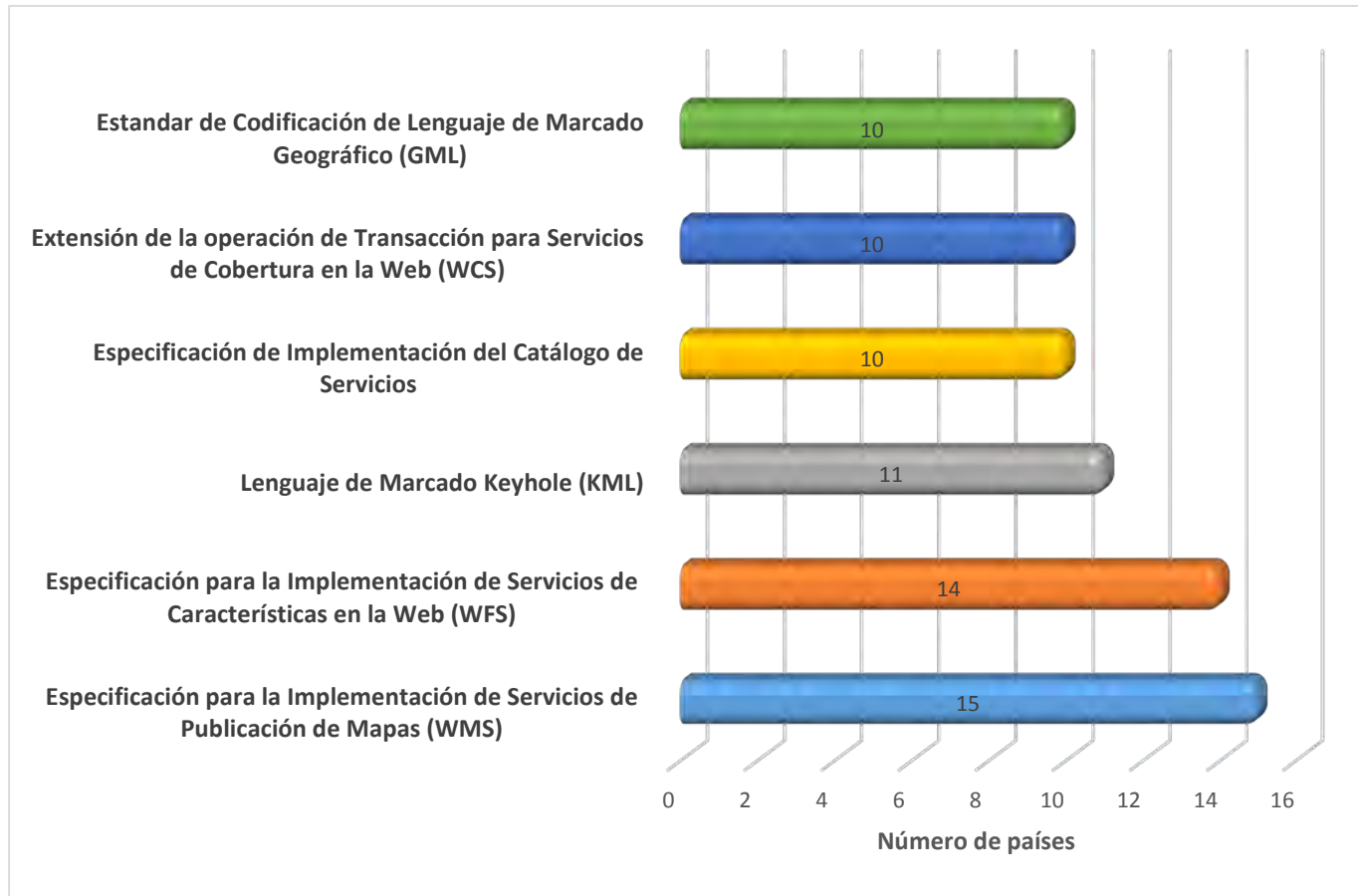


ISO Standards utilization



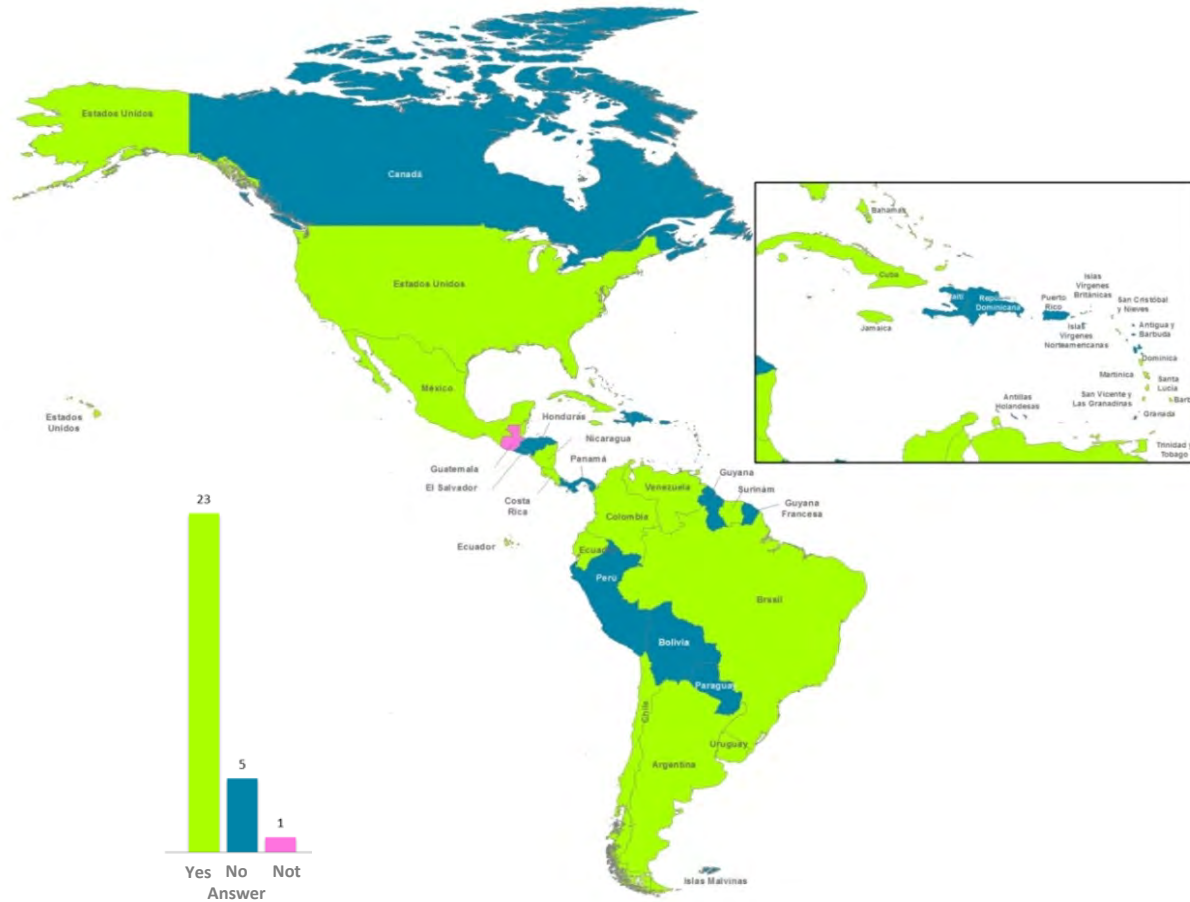
Standards and Specifications

Use of OGC standards



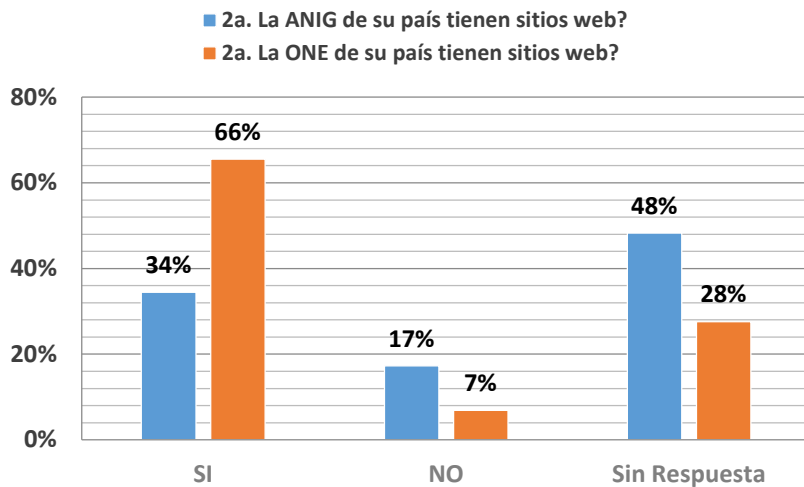
Geospatial and Statistic Information

Existence of geographic units for statistics aims

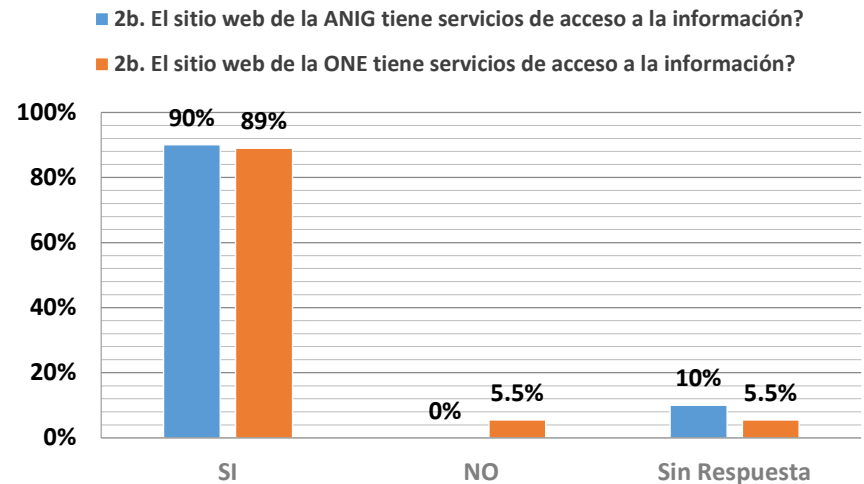


Geospatial and Statistic Information

Web Sites

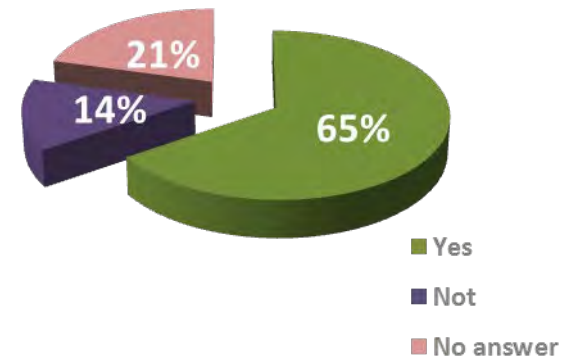
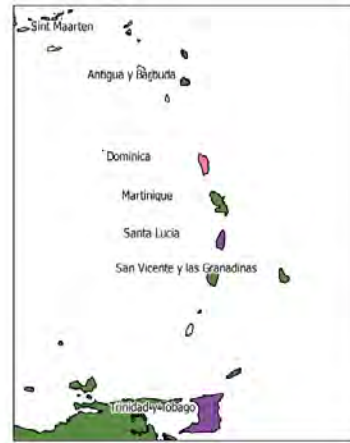
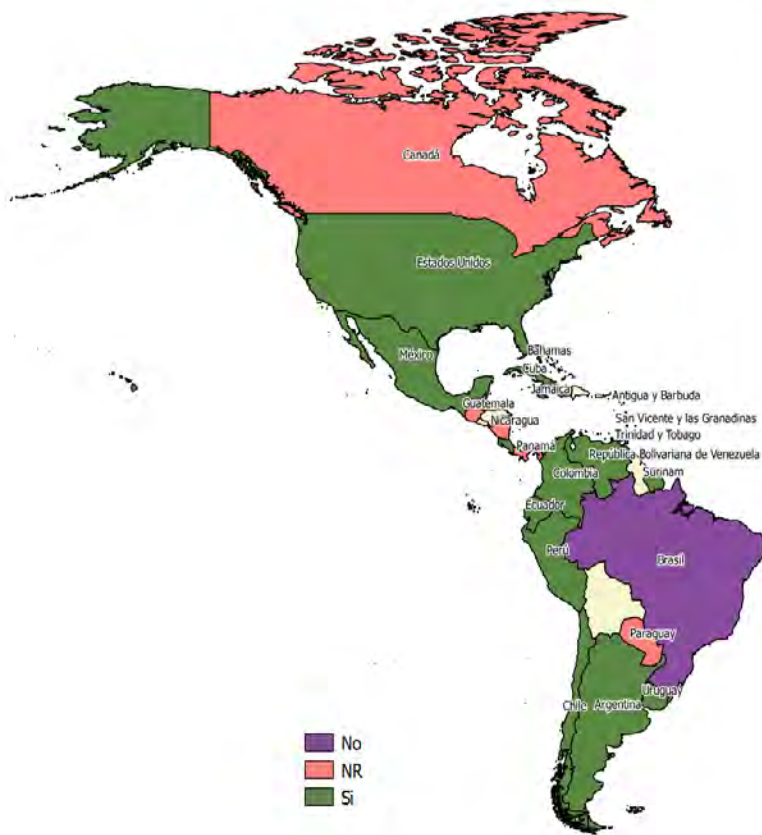


Access to information



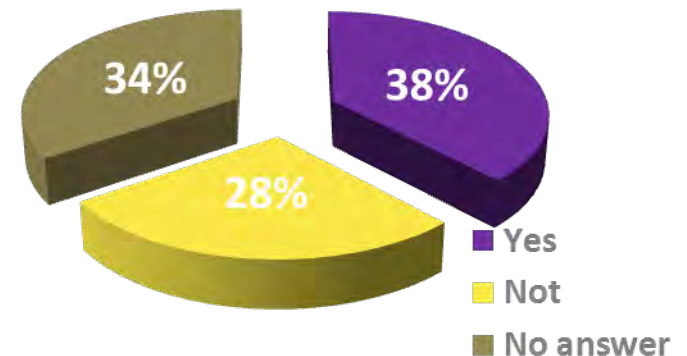
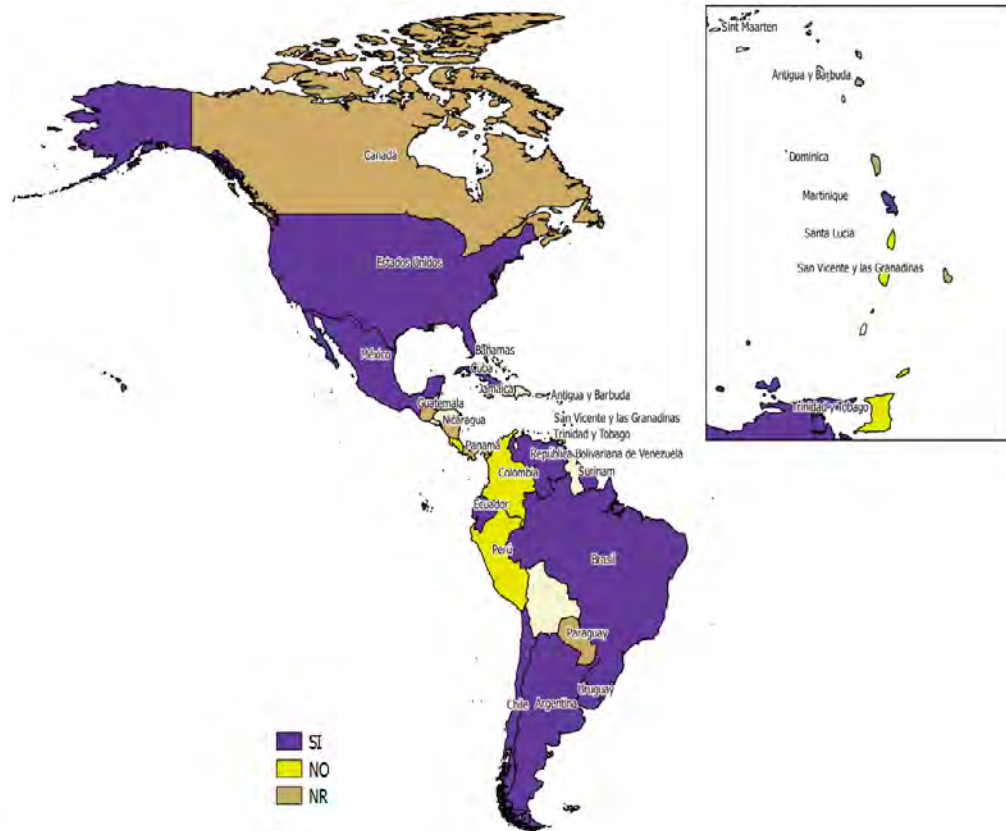
Geospatial and Statistic Information

Confidentiality of data by Law for objectives different to statistics



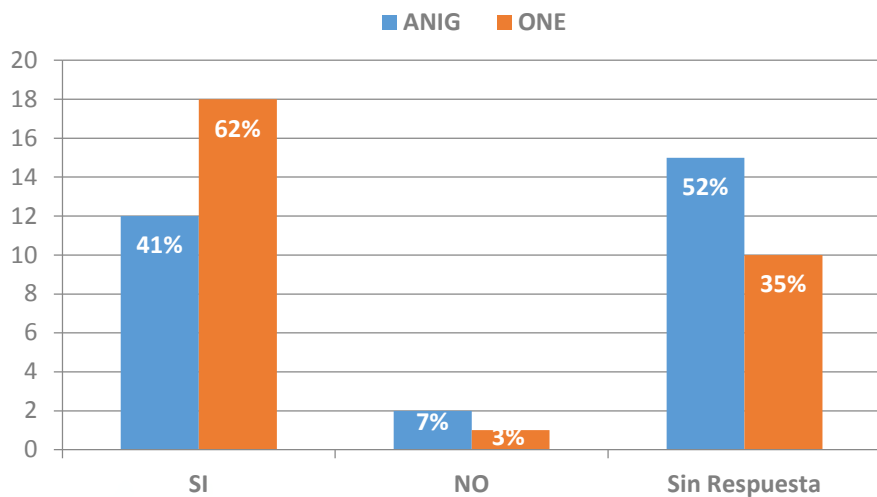
Geospatial and Statistic Information

Confidentiality of geospatial data by Law (safety, defence y sovereignty; integrity of people and their goods)

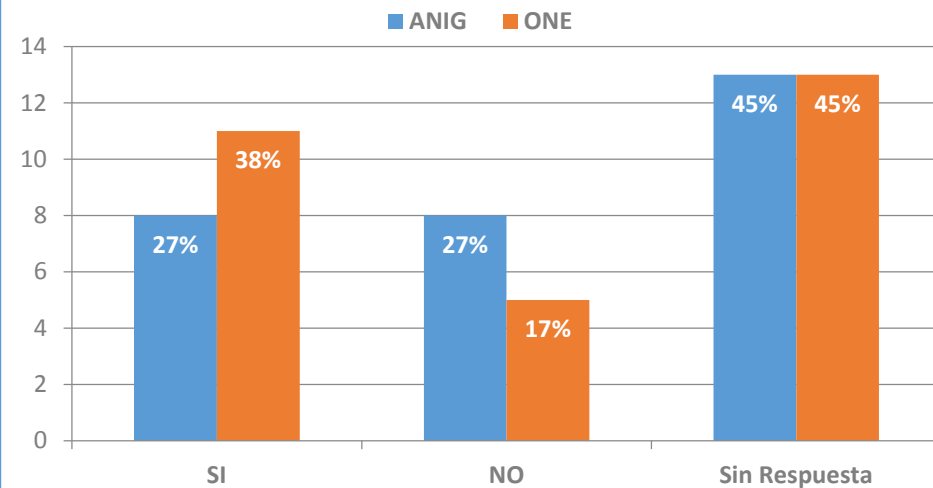


Geospatial and Statistic Information

Existence of norms and protocols for the staff managing confidential information



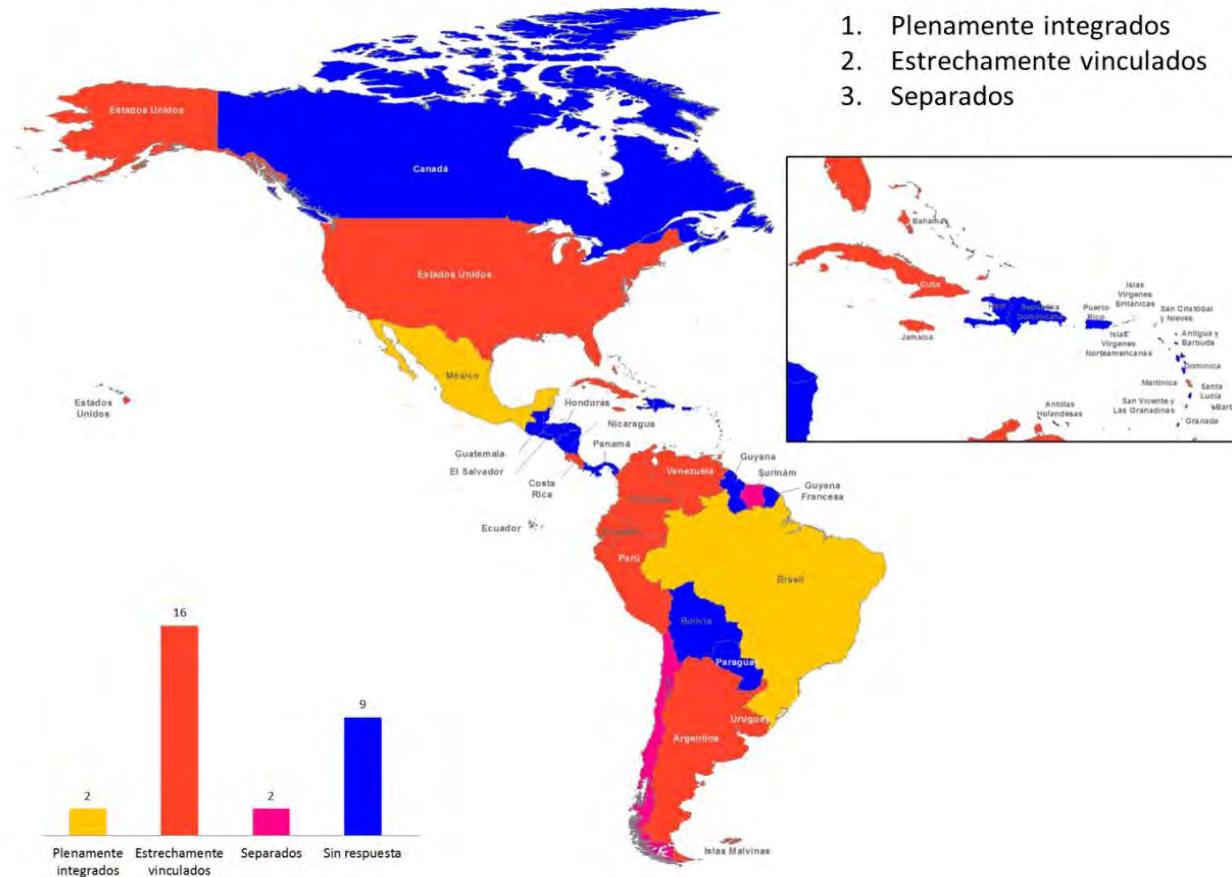
Existence of security protocols for geospatial and statistics data bases



GI National Agencies and National Statistic Offices

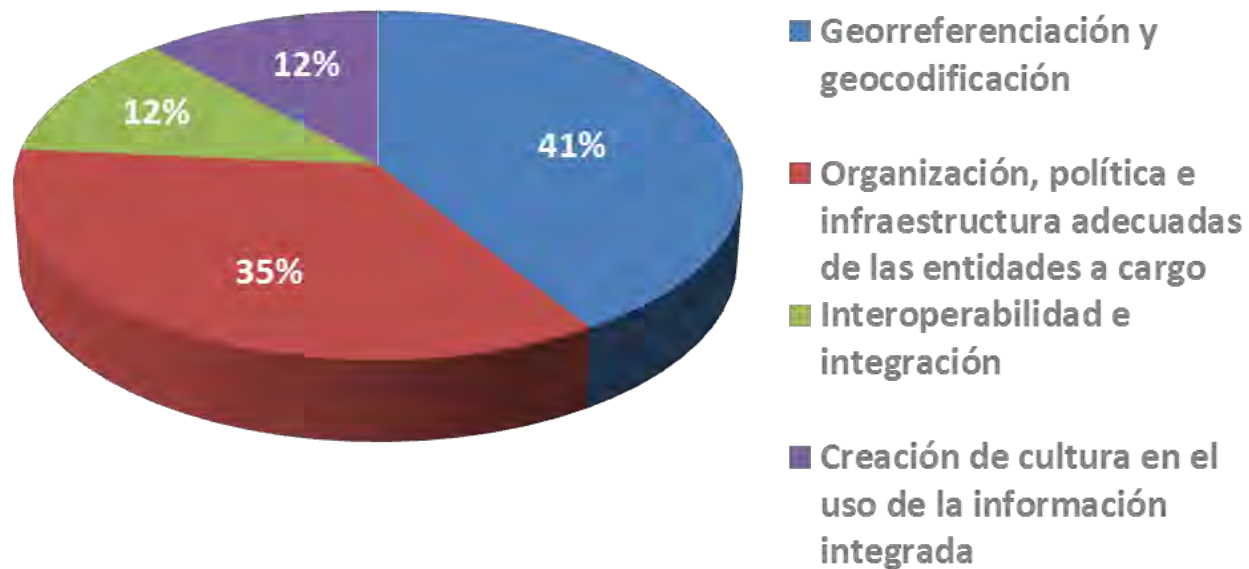
Indique el grado de relación entre la ANIG y la ONE de su país según la siguiente escala:

1. Plenamente integrados
2. Estrechamente vinculados
3. Separados



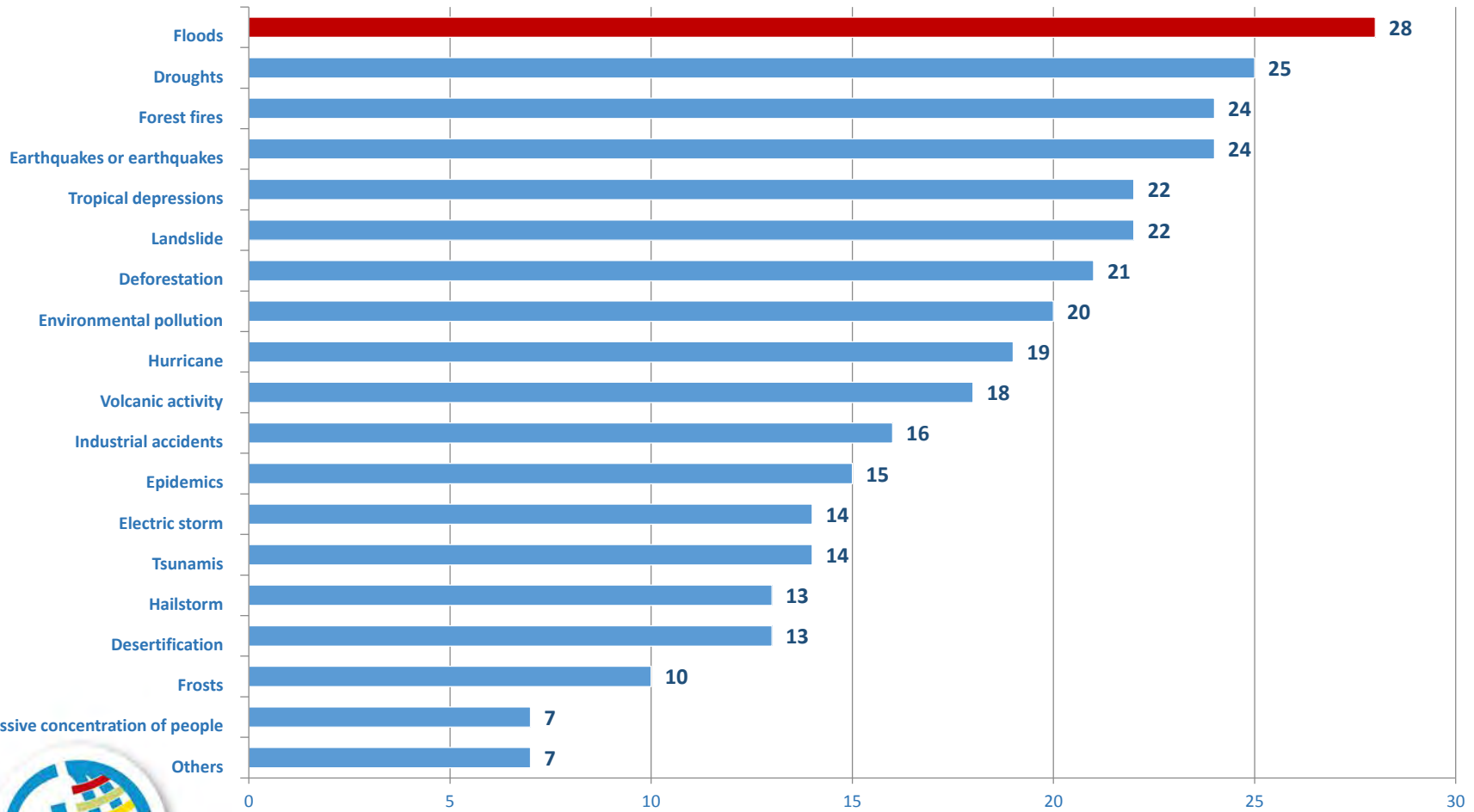
Means for integrating geospatial and statistics information

Ideas or thoughts on how geospatial and statistics information could be linked effectively



Access and Use of Information Geospatial for Risk Reduction and Climate Change

Types of phenomena present in countries



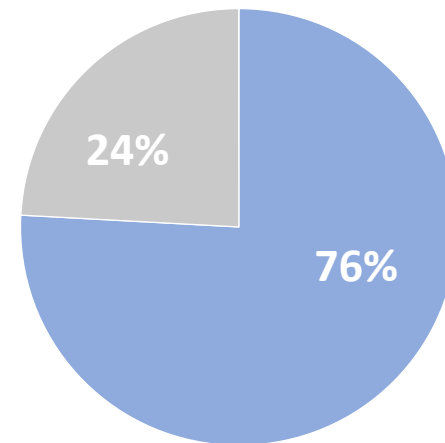
Access and Use of Information Geospatial for Risk Reduction and Climate Change



Access and Use of Information Geospatial for Risk Reduction and Climate Change

7 countries do not have any associated mapping for Risk, Threat and Vulnerability.

It is worrying considering that all countries have identified phenomenon that could affect *negatively their territories*.



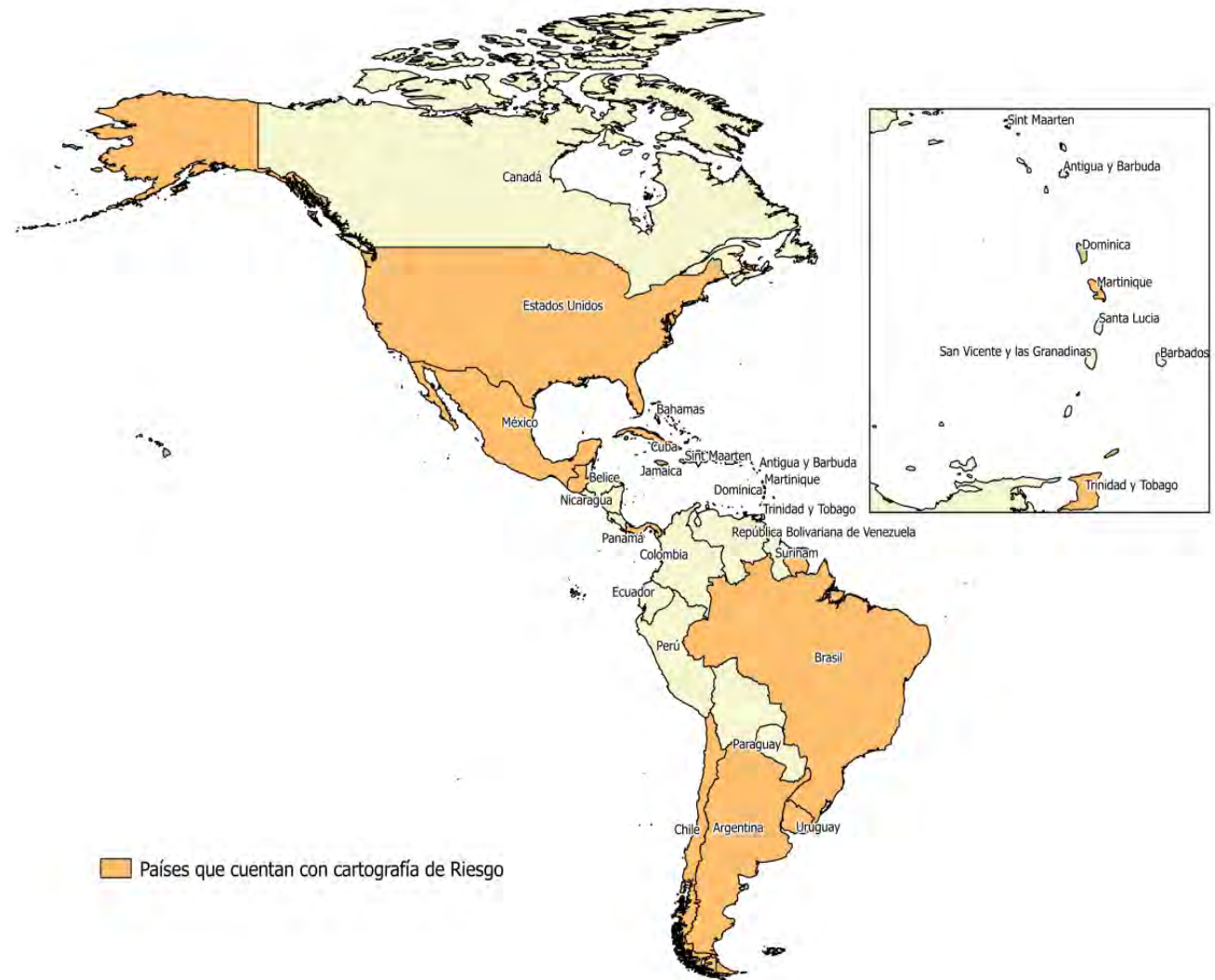
■ yes ■ Unresponsive



Access and Use of Information Geospatial for Risk Reduction and Climate Change

16 Countries have **risk maps**

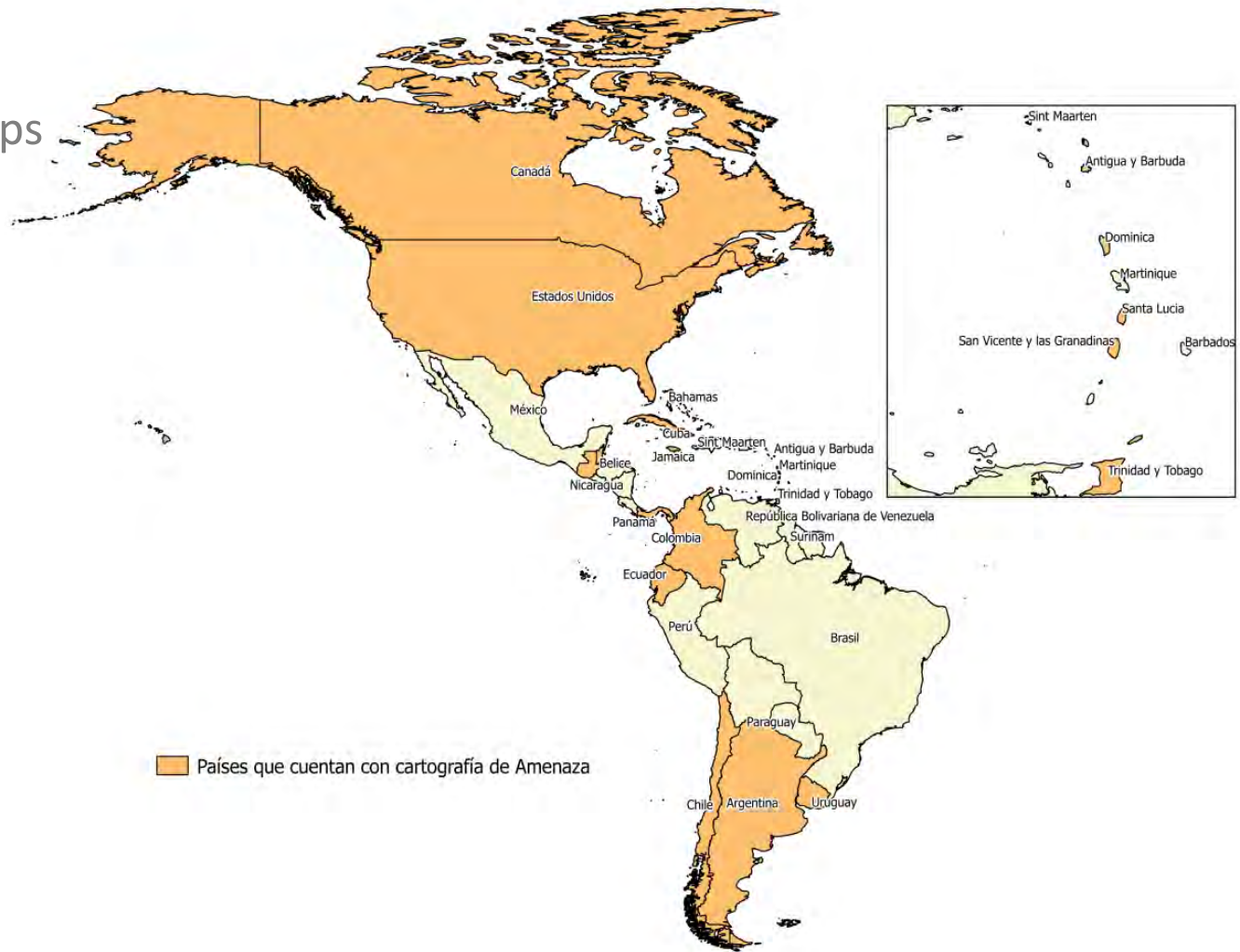
Argentina
Brazil
Canadá
Cuba
Chile
Dominica
USA
Guatemala
Jamaica
Martinique
México
Panamá
Sint Maarten
Surinam
Trinidad and Tobago
Uruguay



Access and Use of Information Geospatial for Risk Reduction and Climate Change

18 countries
count on **hazard** maps

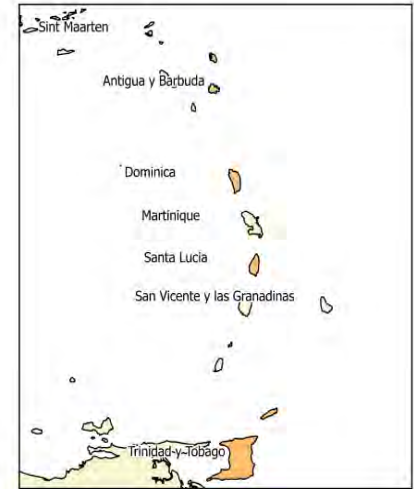
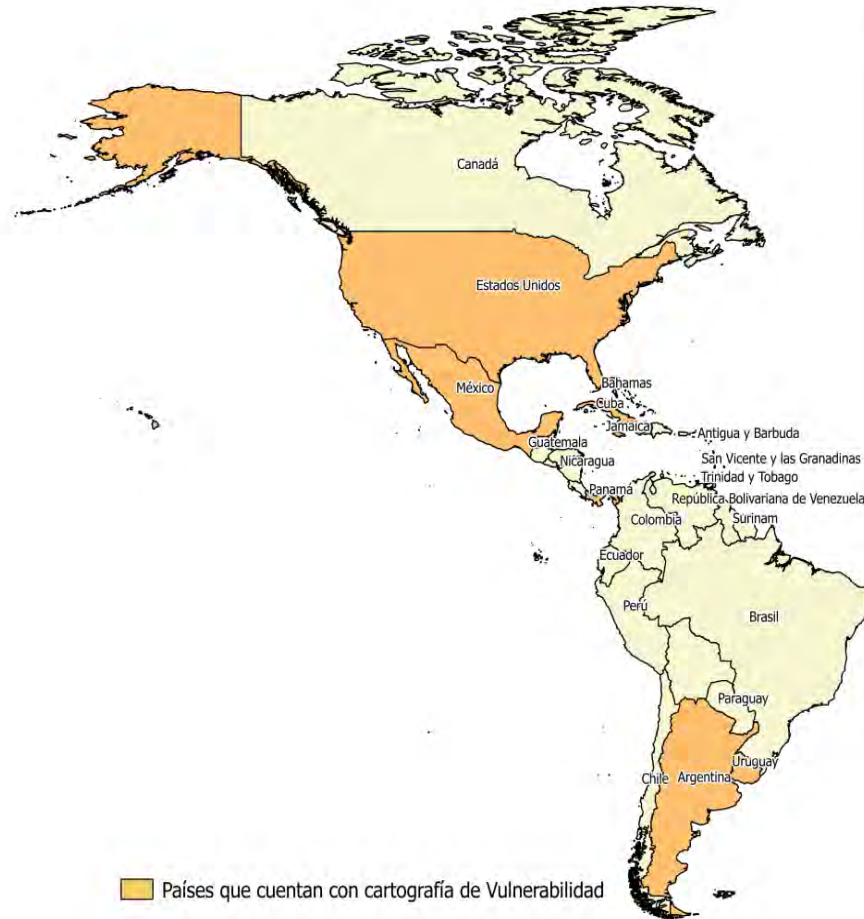
- Antigua and Barbuda
- Argentina
- Belize
- Canadá
- Colombia
- Cuba
- Chile
- Dominica
- Ecuador
- USA
- Guatemala
- Jamaica
- Panamá
- St. Vincent and the Grenadines
- Sint Maarten
- St. Lucia
- Trinidad and Tobago
- Uruguay



Access and Use of Information Geospatial for Risk Reduction and Climate Change

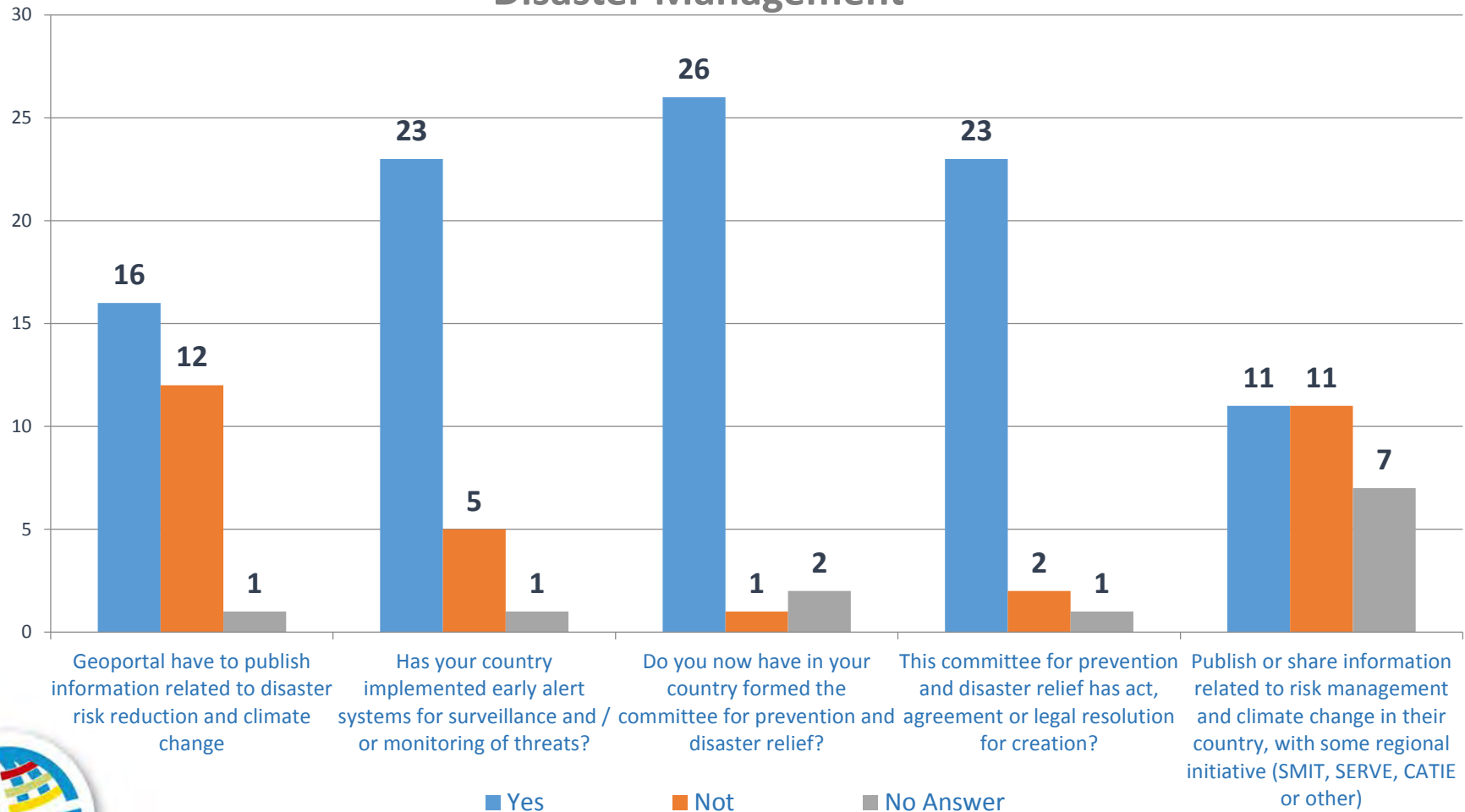
12 countries
count on
vulnerability maps

Antigua and Barbuda
Argentina
Cuba
Dominica
USA
Guatemala
Jamaica
México
Panamá
Sint Maarten
Trinidad and Tobago
Uruguay



Access and Use of Information Geospatial for Risk Reduction and Climate Change

Disaster Management



Final Remarks

- ✓ Acknowledgement to all the countries that provided national data and background to the diagnosis
- ✓ Important findings about gaps to be addressed
- ✓ Best practices to be disseminated and exchanged
- ✓ Baseline for UN-GGIM working groups
- ✓ Need to update this information periodically and extend to all the countries of the region





UN-GGIM:Americas

REGIONAL COMMITTEE OF
UNITED NATIONS
ON GLOBAL GEOSPATIAL
INFORMATION MANAGEMENT
FOR THE AMERICAS



UN-GGIM

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Global Geospatial Information Management

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