Project for the strengthening of Spatial Data Infrastructures in the Caribbean

Outcomes

General Objective

To promote the development of **Spatial Data Infrastructure (SDI)** in the Caribbean, in order to strengthen the generation, use and sharing of geospatial information, including for policy making
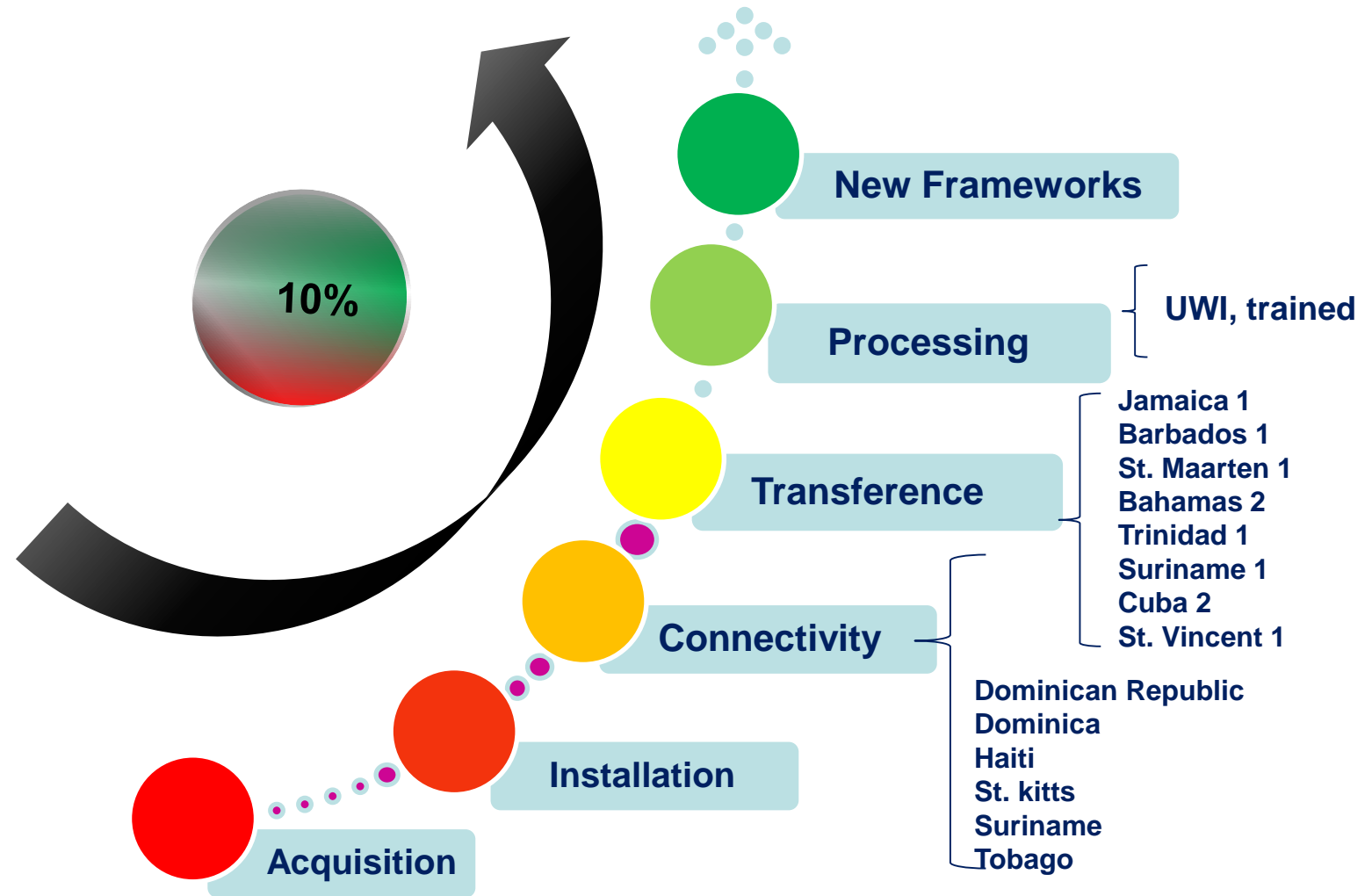
Specific Objectives:

- Reduce Geospatial Data Infrastructure gaps within the Caribbean region, and with respect to the rest of the Continent.

- Support the integration and participation of Caribbean countries in both; the United Nations Experts Committee on Global Geospatial Information Management and the regional committee UN-GGIM: Americas

Progress on the strategic Objectives

Business Unit: Caribbean Project	Strategic option:			Indicators Tracing	STRENGTHEN			
Strategic Objective	**Strategies**			**Indicators Tracing**	**GOALS / Specific objectives**			
					minimum	medium	optimum	Real
1 Strengthen the geodetic network	Increase stations	Increase number of stations		5% further in the region	3%	5%	10%	More than 10%
		Increase data availability						
		Increase security location						
2 Broadcast Geographic Information	Create Digital Map of the Caribbean	Increase number of geoportals		10% further in the region	5%	10%	15%	5%
		Increase dissemination of G.I.						
		Increase the number of users						
3 Promote the use of G. I.	Construct Land Cover Map	Consider Project countries		90% of the coverage for the region	80%	90%	100%	100%
		Ensure the quality of the project						
		Disseminate results by geoportal						
4 Capacity Building	Training in geographic skills	Increase basic skills		90% of participations for the countries in the project	80%	90%	100%	80%
		Increase intermediate skills						
		Increase transversal competences						
5 Using geographical standards	Apply standards in processes	Increase in production processes		20% of processes	10%	20%	30%	20%
		Increase in integration processes						
		Increase in dissemination processes						
6 Update computer technology	Renew computers	Update servers		2% of equipment available	1%	2%	3%	More than 3%
		Update computers						
		Update network equipment						
7 Geographic Metadata	Promote the Application	Define a profile for the Region		20% of the countries in the project	10%	20%	30%	Less than 10%
		Train them on application						
		Implement use						

1. Strengthen the geodetic network

Stations 2014	Project Goal	Result
Reported 48	10% Additional	33% Additional
Active 30	Active 35	Active 46
GPS 17	GPS 17	GPS 17
GNSS 31	GNSS 36	GNSS 46

10%

New Frameworks

Processing — UWI, trained

Transference
- Jamaica 1
- Barbados 1
- St. Maarten 1
- Bahamas 2
- Trinidad 1
- Suriname 1
- Cuba 2
- St. Vincent 1

Connectivity
- Dominican Republic
- Dominica
- Haiti
- St. kitts
- Suriname
- Tobago

Installation

Acquisition

Bahamas (2)
Cuba (3)
Jamaica
Haïti
República Dominicana
St. Kitts & Nevis
Sint Maarten
Dominica
St. Vincent & the Grenadines
Barbados
Trinidad & Tobago
Suriname (2)

2. Create the Digital Map for the Caribbean

3. Construct the Land Cover Map

https://conabio.github.io/caribbean/index.html

http://caribbean.conabio.gob.mx/

3. Construct the Land Cover Map

4. Capacity Building Programme

Production Skills

- Geodesy
- Cartography
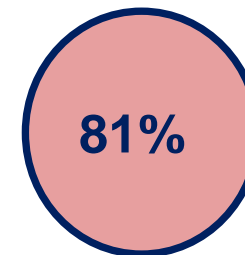- Remote Sensing
- Photo Interpretation

Integration Skills

- Metadata
- Geographic Databases
- Geographic Information Systems
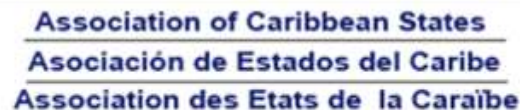- Geo-portals & Geo-services

Use of information

Statistical and Geographic Link
Sustainable Development Goals
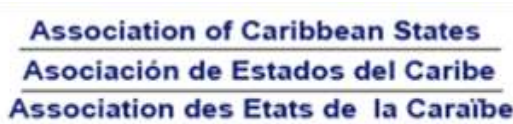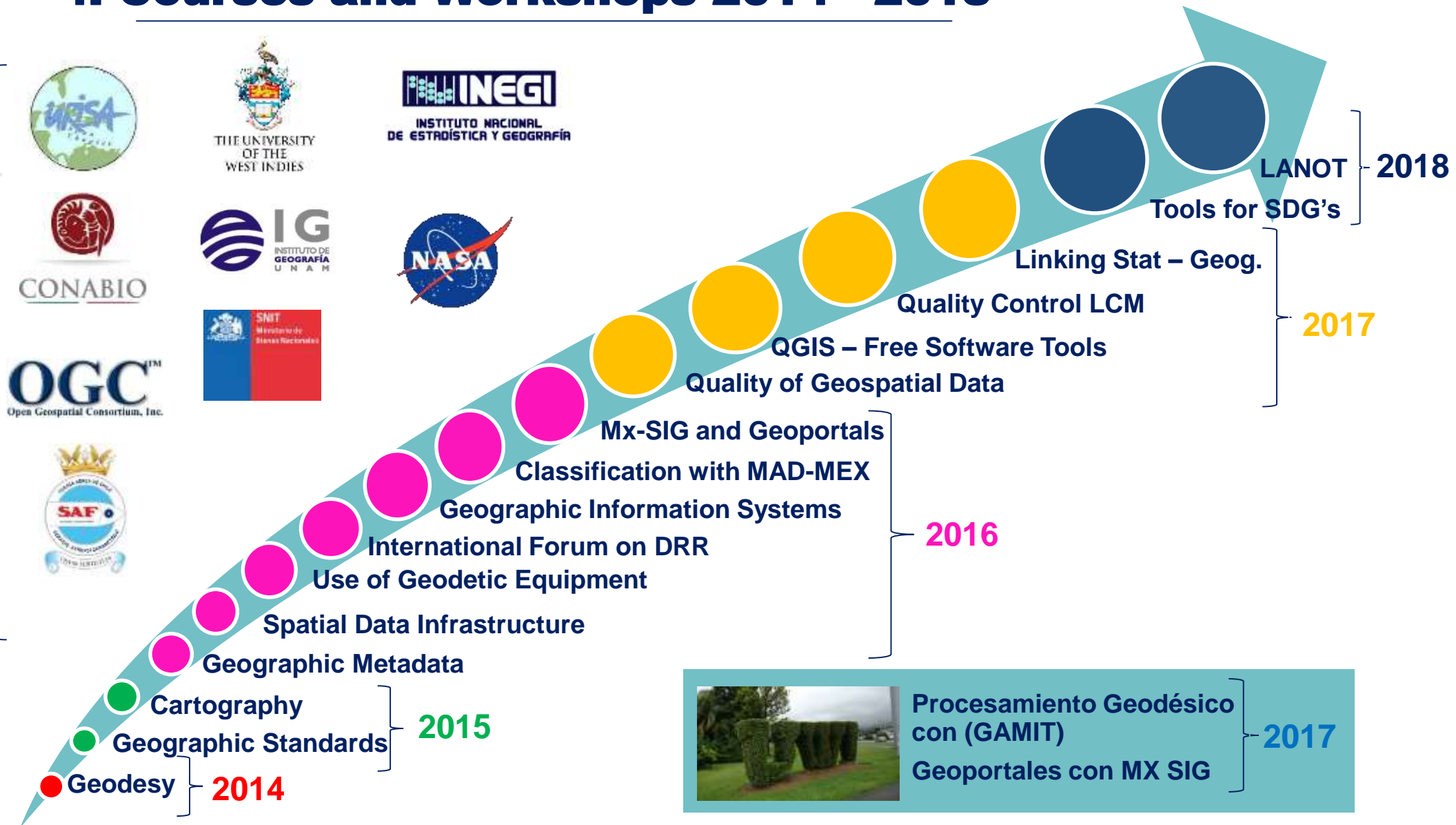Mexico's Website for DRR & LANOT

Attending Indicator

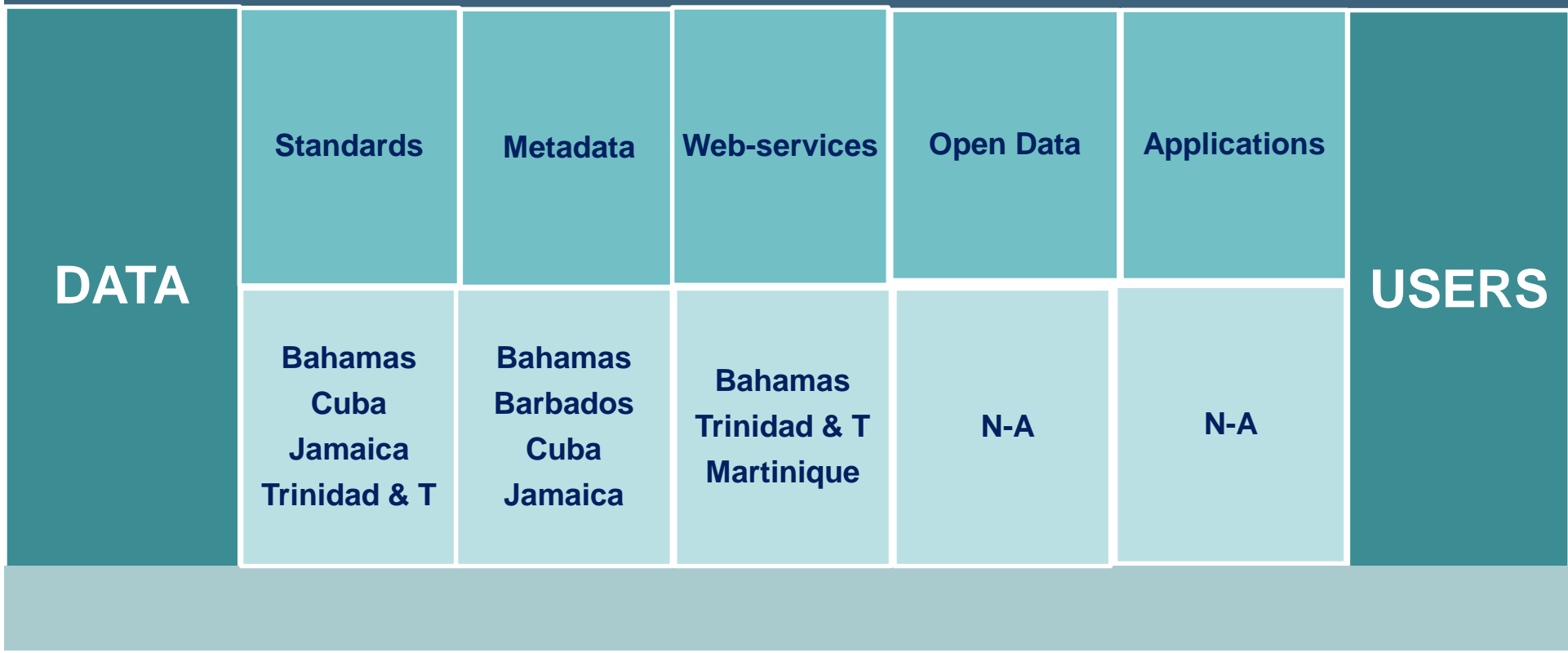| 80 Minumum | 90 Medium | 100 Optimum |

81%

Cross-cutting Skills

Geographic Standards → Applications' Development → Software G.I.S. → Policies

4. Courses and Workshops 2014 - 2018

Instructors:

- LANOT — **2018**
- Tools for SDG's
- Linking Stat – Geog.
- Quality Control LCM — **2017**
- QGIS – Free Software Tools
- Quality of Geospatial Data
- Mx-SIG and Geoportals
- Classification with MAD-MEX
- Geographic Information Systems — **2016**
- International Forum on DRR
- Use of Geodetic Equipment
- Spatial Data Infrastructure
- Geographic Metadata
- Cartography — **2015**
- Geographic Standards
- Geodesy — **2014**

Procesamiento Geodésico con (GAMIT)

Geoportales con MX SIG — **2017**

5. Standards and 6. Metadata

Steps to implement them

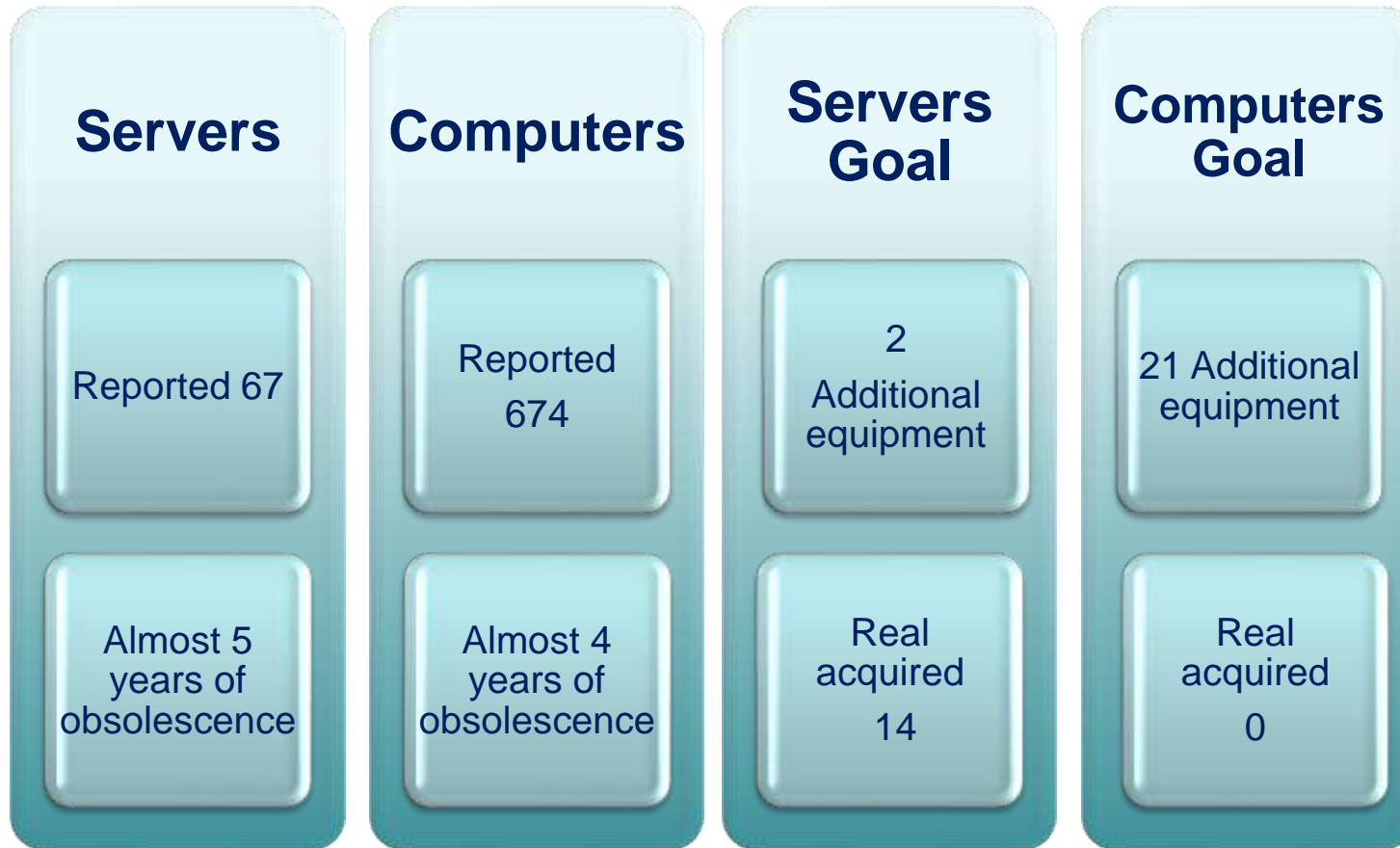| DATA	Standards	Metadata	Web-services	Open Data	Applications	USERS
	Bahamas Cuba Jamaica Trinidad & T	Bahamas Barbados Cuba Jamaica	Bahamas Trinidad & T Martinique	N-A	N-A	

Disponibilidad de metadatos
Porcentaje de cumplimiento

Causes of impact

- Lack of National Policies
- Significant differences
- Other Priorities

7. Update Computer Technology

Servers	Computers	Servers Goal	Computers Goal
Reported 67	Reported 674	2 Additional equipment	21 Additional equipment
Almost 5 years of obsolescence	Almost 4 years of obsolescence	Real acquired 14	Real acquired 0

Causes of impact

- Budget Calendar

- Long Bidding Processes

- Prices of Historical acquisitions

- Restrictions by International trade treaties

The Future

1. Maintenance of the technological infrastructure delivered

2. Incorporate the Geodetic Network of the Caribbean into the SIRGAS Network, modernize reference frames and take advantage of data for the region within the framework of the UN-GGIM subcommittee

3. Implementation and improvement of Geomatics Solutions in each country

4. Strengthen the exchange of processes, methodologies and good geospatial practices

5. Promote the use of geographic standards and metadata individually and collectively, seeking integration and alignment with the rest of the continent

6. Promote in the countries that require it, the update of their geographical data

7. Promote open data culture and its exchange in the region

8. Motivate and encourage the participation of the representatives of the countries in UN-GGIM

9. Establish alliances with international non-governmental organizations as well as the public and private sectors

10. Encourage distance training programmes

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