



Association of Caribbean States  
Asociación de Estados del Caribe  
Association des Etats de la Caraïbe



# Project for Strengthening of Spatial Data Infrastructures in Member States and Territories of the Association of Caribbean States

UN-GGIM: Americas  
Geospatial Data Infrastructures Workshop  
for the Caribbean



August, 2016



Association of Caribbean States  
Asociación de Estados del Caribe  
Association des Etats de la Caralbe



**SUNDAY, JULY 31<sup>st</sup> 2016**

**WELCOME REMARKS 9:00 – 9:15**

**1<sup>st</sup> SESSION**

**JORGE PRADO MOLINA**

**Head of Geospatial Analysis Laboratory, Institute of Geography, UNAM**

## **1. GENERAL CONTEXT OF SDI**

1.1 Introduction

1.2 Geographic Information (GI)

1.2.1 Geographic Information Systems (GIS)

1.3 What is an SDI?

1.3.1 The importance of GI, GIS and SDI in decision making

1.3.2 Components of an SDI

## **2. SDI ORGANIZATION**

2.1 Components of an SDI

2.1.1 Resources: databases, maps, servers and availability

2.2 Data and Metadata

2.3 Standards to enable interoperability

2.4 Services offered by SDI

2.5 Software

2.5.1 The importance of using free software

## **3. DESIGNING AND SDI**

3.1 Project definition

3.1.1 Objectives

3.1.2 Layers of Information and databases that will be included

3.2 Designing and implementing an SDI

3.3 Available Information

3.3.1 Maps, maps sheets and databases

3.4 Management and maintenance of the SDI

3.4.1 Access to information

3.4.2 Connecting with other SDI



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**MONDAY, AUGUST 1<sup>st</sup> 2016**

**CARIBBEAN PROJECT PRESENTATION 9:00 – 9:15**

**Rolando Ocampo Alcántar**

**President UN-GGIM: Americas**

**2<sup>nd</sup> SESSION**

**AARÓN ISRAEL VILLAR MATA**

**Deputy Director of Geomatics Solutions, INEGI**

#### **4. CONSIDERATIONS IN TECHNOLOGICAL IMPLEMENTATION OF AN SDI**

##### 4.1 Data structure and modeling

4.1.1 XML

4.1.2 GML

4.1.3 UML

##### 4.2 Geoportals (concepts and examples in the world)

##### 4.3 Interoperability concepts

##### 4.4 Standard services (WMS, WMTS, WPS, WFS, WCS)

4.4.1 Standards

4.4.2 Characteristics of services

4.4.3 Service components

##### 4.5 Implementation of geoservices

4.5.1 Considerations

4.5.2 Best practices

4.5.3 Existing software

##### 4.6 Technological implementation in Mexico

4.6.1 Digital Map of Mexico

4.6.2 MxSIG

4.6.3 Base map

#### **5. SDI MEXICO**

5.1 Organizational framework

5.2 Regulatory framework

5.3 Thematic framework

5.4 Technological framework

#### **6. EVALUATION**