

3° CONVERSATORIO VIRTUAL
3° VIRTUAL WEBINAR

CONVERSEMOS SOBRE EL MARCO INTEGRADO DE INFORMACIÓN GEOESPACIAL (UN-IGIF)

CONVERSATIONS ON THE INTEGRATED GEOSPATIAL INFORMATION FRAMEWORK (UN-IGIF)

Barbados Perspective

27 de noviembre 2024

November 27, 2024

Vía Estratégica N°4: Datos
Strategic Pathway N°4: Data



UN-GGIM:Americas
REGIONAL COMMITTEE OF UNITED NATIONS
ON GLOBAL GEOSPATIAL INFORMATION
MANAGEMENT FOR THE AMERICAS



UN-IGIF
INTEGRATED GEOSPATIAL
INFORMATION FRAMEWORK

SETTING THE CONTEXT



BARBADOS

Small island developing state

430 square kilometers

Terrestrial & Marine data

-more fundamental datasets
-limited theme descriptions

-geoportal for delivery
-no dataset profiles

Data Themes

Custodianship, Acquisition and Management

Data Curation and Delivery

Data Supply Chains

-greater data acquisition
-secured storage
-no established roles

-need for a data theme road map
-no data gap analysis

- Improved data to support national development and innovation
- Reduction of costs and duplication
- Data accessible to users

- Lack of governance structure
- Some data silos exist

CAPTURING & ACQUIRING DATA



Global Geodetic Reference Frame



Geographical Names



Addresses



Functional Areas



Buildings and Settlements



Land Parcels



Elevation and Depth



Population Distribution



Land Cover and Land Use



Geology and Soils



Physical Infrastructure



Water



Transport Networks



Orthoimagery

1972

1982

1991

2006

2015

2019

2023



Orthoimagery

Acquired to update national datasets including road network, buildings, land use, elevation models

Added deliverable to an IFI-funded coastal risk management project

Acquired in support of proposed national projects (parcel fabric, building ids)

Acquired through joint venture with the Caribbean Community Climate Change Centre

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Orthoimagery



Land Parcels



- Converting survey plans and land tax parcel index plans into a digital land parcel fabric
- Internal staff work on keeping the parcel fabric up-to-date



Addresses



Population
Distribution



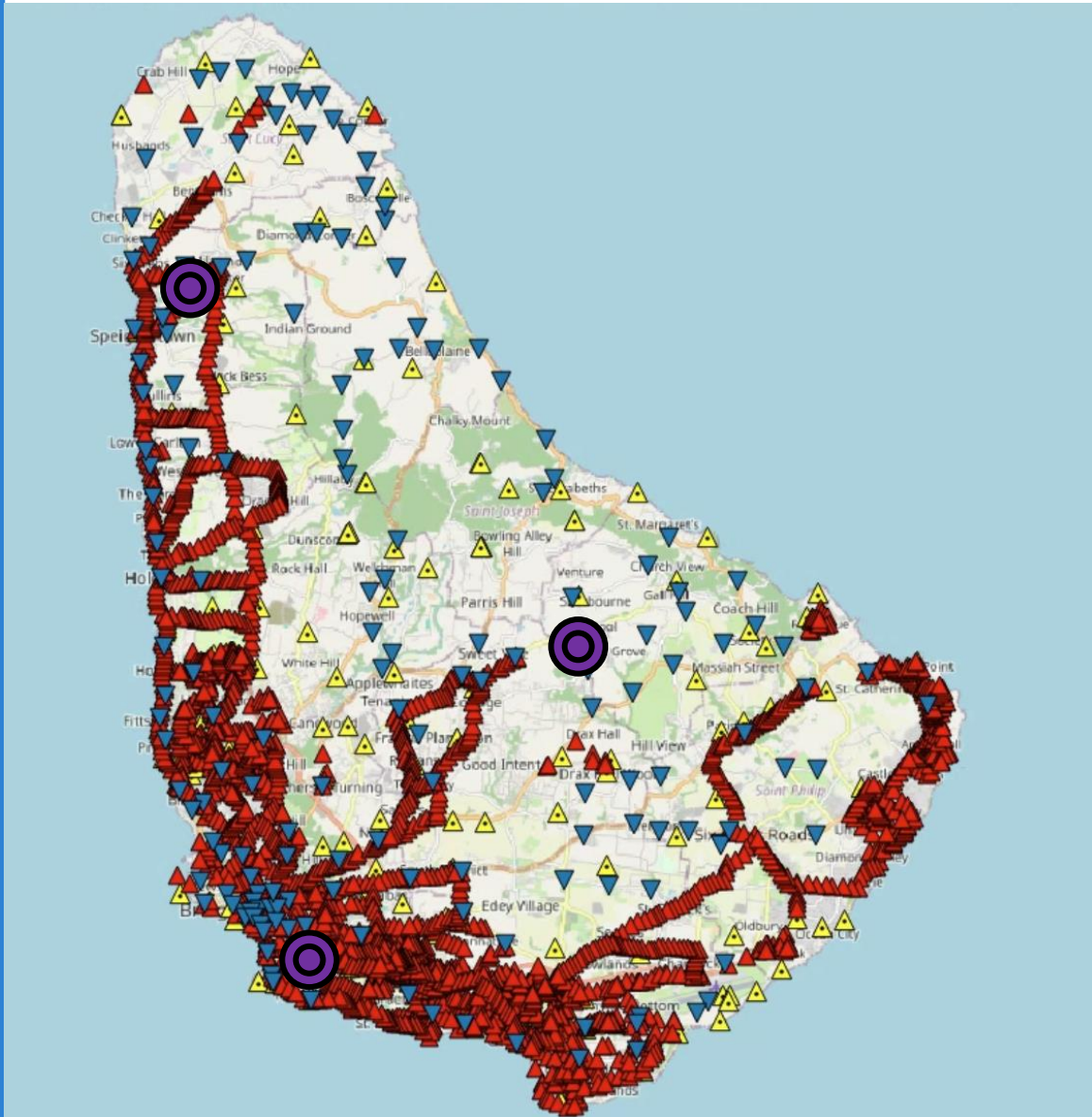
Buildings and
Settlements



Land Parcels

- Building ID as a stand-in for a national addressing system
- Building ID as a geocode and unique identifier for the integration of statistical and geospatial information
- Data partnership between ***Barbados Statistical Service*** and ***Lands & Surveys Department***
- Land parcels in the National Digital Parcel Fabric use the established land tax map reference number as a unique identifier to integrate land related data
- Data partnerships between ***Lands & Surveys Department, Land Registry, Planning & Development Department*** and ***Barbados Revenue Authority***

MAINTAINING ACCURATE POSITIONING



National GNSS RTK CORS Network

Primary Horizontal Control

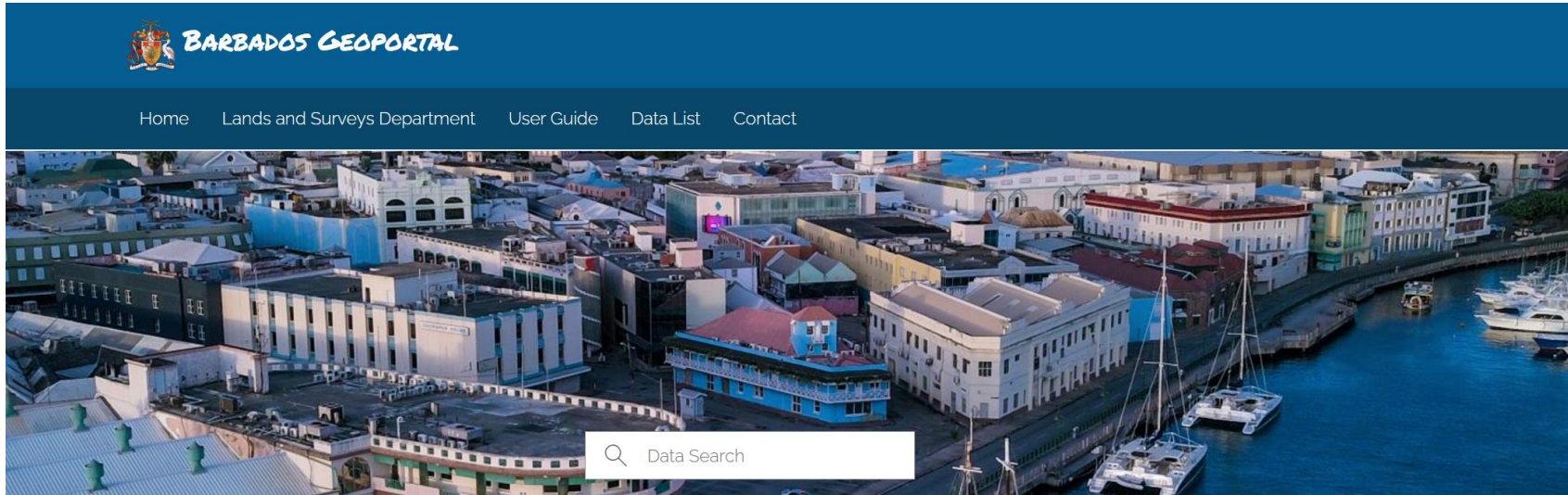
Primary Vertical Control

WGS84 Transformation Parameters

Barbados National Grid

Lamont Vertical Datum

DATA DELIVERY



LANDS AND SURVEYS DEPARTMENT
Surveying our lands - Mapping our spaces

The Barbados Geoportal provides users with the ability to search, view, download, and analyze spatial datasets housed within governmental departments across various disciplines.

BROWSE DATA BY THEME OR CATEGORIES



[Statistics](#)



[Planning & Development](#)



[Land](#)



[Imagery](#)



[Water](#)





Physical
Infrastructure

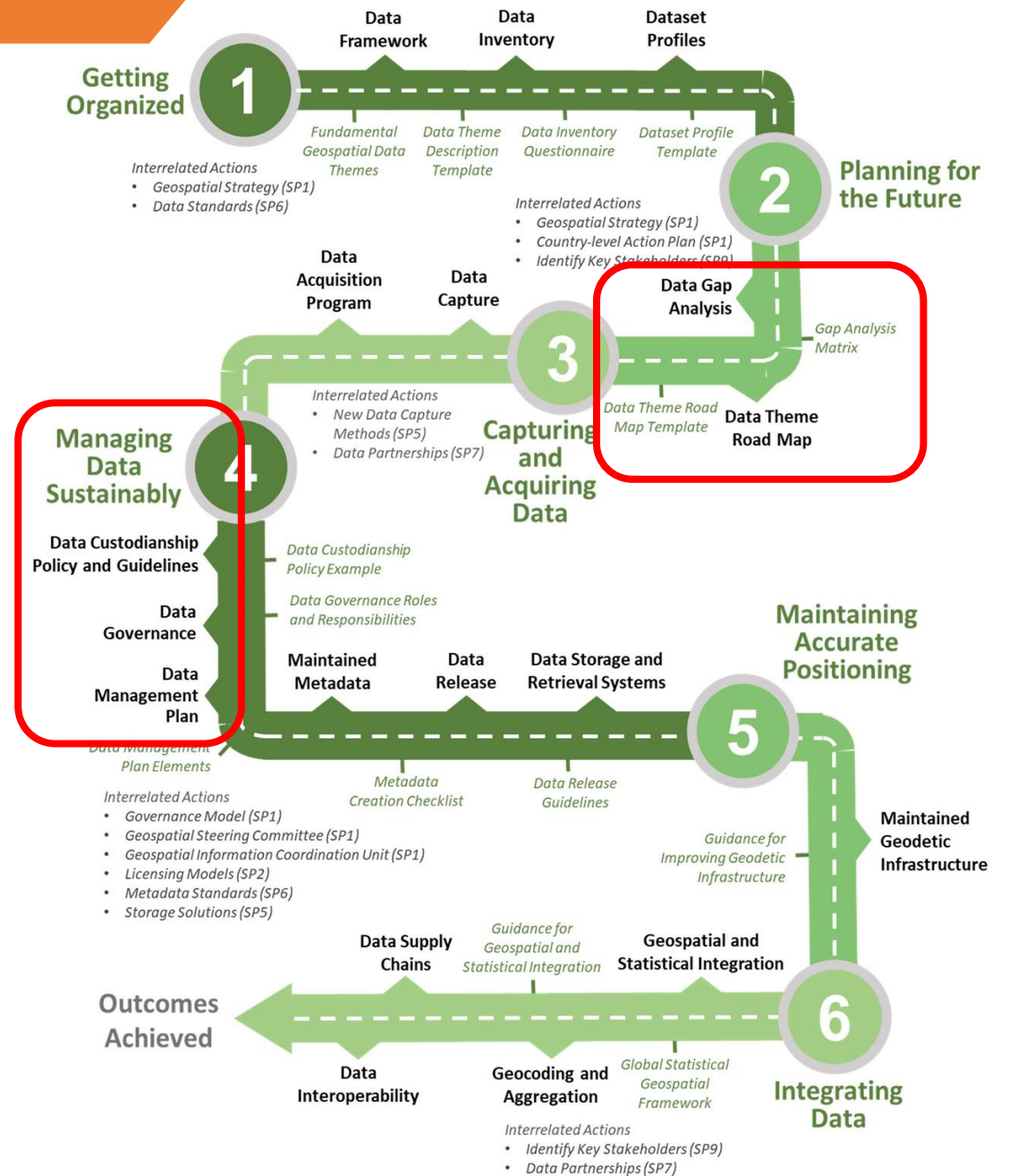
- Mandate from Cabinet to create a National Infrastructure Asset Repository
- Multi-stakeholder meetings (more than 8 agencies)
- Reinforces the need for
 - Data Governance Framework and Policy
 - Data Custodian Policy and Guidelines
 - Metadata Creation Checklist

NEXT STEPS

Managing Data Sustainably

Planning for the Future

Data for SDGs and Resilience as themes in a Data Management Plan



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