



National Spatial Data Infrastructure and Geospatial Policy: Data policy around geospatial data and conservation



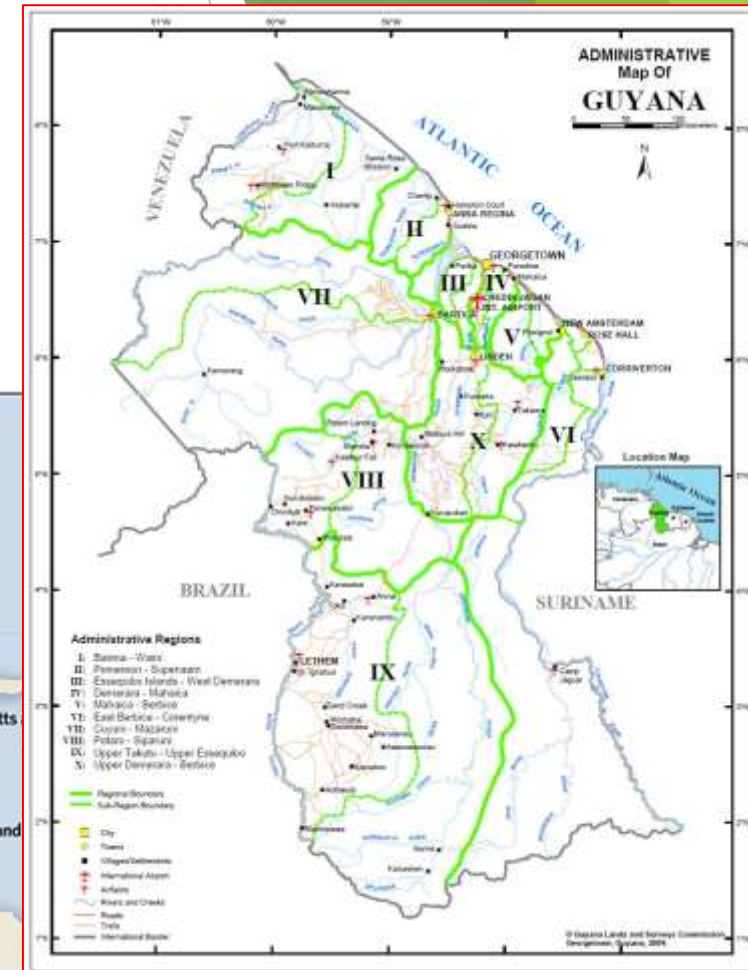
Geospatial World Forum 2019

Presented by: Chetwynd Osborne
Guyana Lands and Surveys Commission

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Geospatial Revolution

- ▶ Geospatial information influences nearly everything:
 - ❖ Way we think, behave and interact
 - ❖ Conservation
 - ❖ Policies to inform key decision making
- ▶ Population (2012 Census): 748,000
- ▶ Total Area: 215,000 sq. km
- ▶ Per Capita GDP (2016): US\$3,883
- ▶ Traditional Socioeconomic Base:
 - ❖ Agriculture
 - ❖ Forestry
 - ❖ Mining



Guyana Lands and Surveys Commission (GLSC)

- ▶ **Under the Lands and Surveys Commission Act of 1999, GLSC is mandated:**
 - ❖ **To have charge of and act as guardian over all public lands, rivers and creeks of Guyana;**
 - ❖ To formulate policy on geographic and land information and set standards in relation to digital data, establish the framework for a national network of geographic information systems and develop and maintain a parcel-based land information system.
- ▶ National Focal Point Agency of UNCCD (since 2003) and has the responsibility to implement the National Action Plan to combat degradation (NAP), aimed at reducing land degradation and drought and rehabilitating degraded lands.

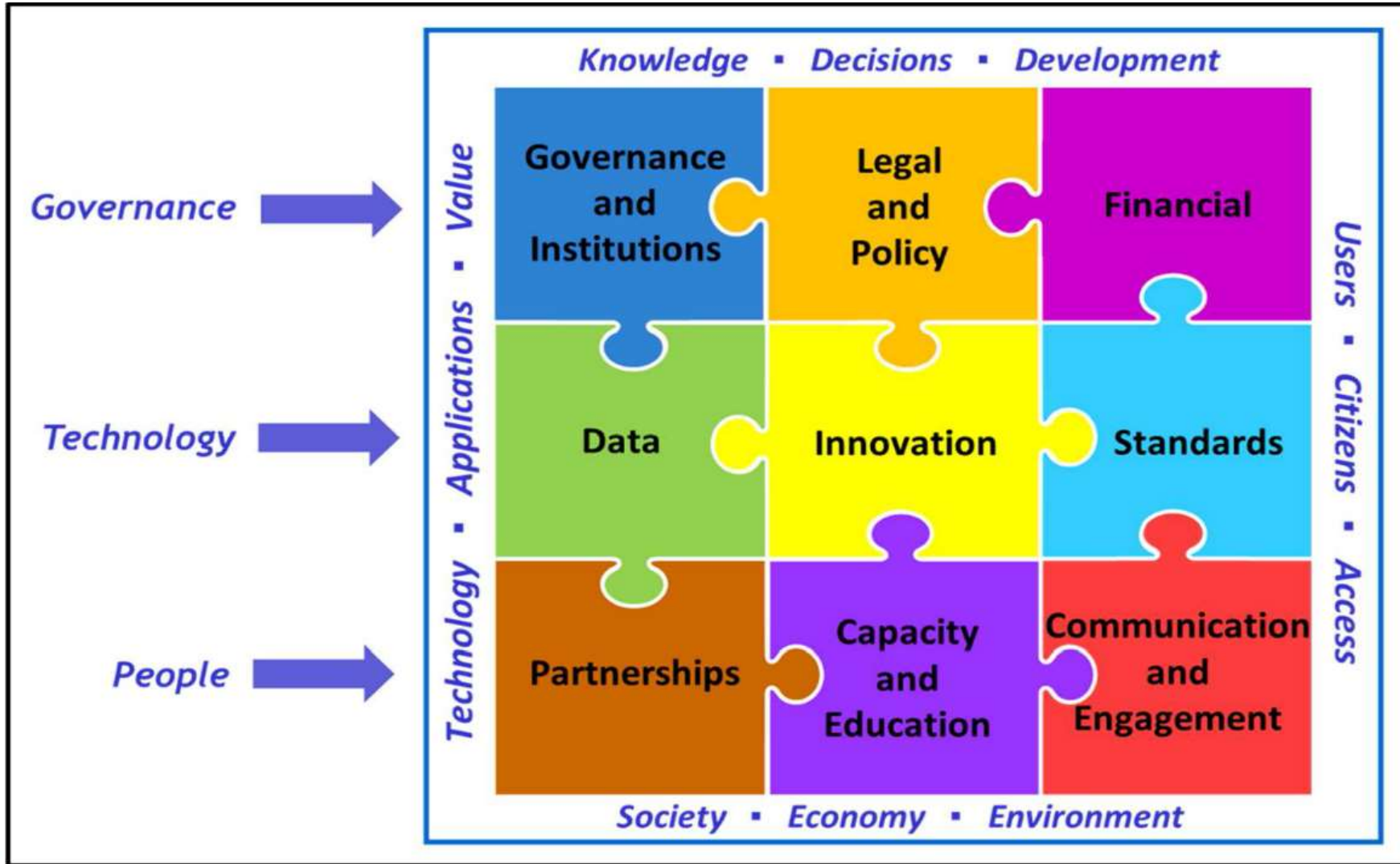
Sustainable Land Development and Management Project (SLDM)

- ▶ The SLDM project will support the development of a harmonized national land policy and legislative framework and strengthened capacity of the Guyana Lands and Surveys Commission (GLSC), and partner Ministries and agencies.
- ▶ Design and development of an integrated and robust spatial data infrastructure and open-data geospatial information system.
- ▶ This National Spatial Data Infrastructure (NSDI) will support the improvement of land administration, enhancement of tenure governance, as well as improvement of technical support services and mechanisms.
- ▶ These measure will encourage adoption of sustainable and climate-smart land use systems and management practices including application and enforcement of regulations, incentive measures, knowledge sharing as well as assessment and monitoring in line with the SDGs.

Sustainable Land Development and Management Project

- ▶ The development of the NSDI will be guided by the National Geospatial Policy, that is currently being finalized at the highest level of Government.
- ▶ This Geospatial Policy is a revision of the 2015 National Policy on Geographic Information, which called for the development of a NSDI by 2020.
- ▶ The NSDI will be aligned to the UN Integrated Geospatial Information Framework (UNIGIF) to capture international best practices.
- ▶ Guyana's Green State Development Strategy: Vision 2040 will guide Guyana along a green trajectory with a strong geospatial component to inform conservation measures.

Integrated Geospatial Information Framework (IGIF)



Current Geospatial Data Initiatives

- ▶ Environmental Information Management and Monitoring System (EIMMS) – led by the Department of Environment (DOE);
- ▶ Property Valuation – led by the Ministry of Communities (MoC) and the Ministry of Finance (MoF);
- ▶ 3D City model for Georgetown - led by Central Housing and Planning Authority;
- ▶ High resolution LiDAR 3D survey – ExxonMobil funded work being undertaken by Fugro;
- ▶ High accuracy Digital Elevation Model – led by Hydromet
- ▶ Re-establishment of Continuous Operating Reference System (CORS) network, being undertaken by GLSC with the support of Ordnance Survey, UK;

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Trends.Earth and Conservation



TRENDS.EARTH

A new tool to assess the health of the land that supports us



Land
Productivity

The biological productive capacity of the land.



Land
Cover

The physical material covering the Earth's surface
— from trees and sand to water and asphalt.



Soil
Carbon

The amount of carbon stored in organic matter
(plants and living things) — stored in the soil.



GLSC

GUYANA LANDS & SURVEYS
COMMISSION

Bedankt van Guyana

- ▶ Address: 22 Upper Hadfield St., D'Urban Backlands
- ▶ Number: 592-226-6490
- ▶ Email: ceooffice@glsc.gov.gy
- ▶ Website: <http://www.glsc.gov.gy/>