

**Workshop1: Policy Issues Towards Effective Applications of Geospatial
Technologies and Data in DRM**

Human Capacity Development issues for effective mainstreaming GST/D in DRM Management

Date : Monday 30 August,2021

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Objective

Increase participants awareness on the roles of human capital for effective and efficient use of geospatial technologies and data in disaster risk management.

Outline

- **The Business case for human capacity development**
- **Geospatial Technologies skills required**
- **Current skill levels in the Caribbean**
- **Issues in human capacity development**
- **Buy or Train options**

The Business Case for Human Capacity Development

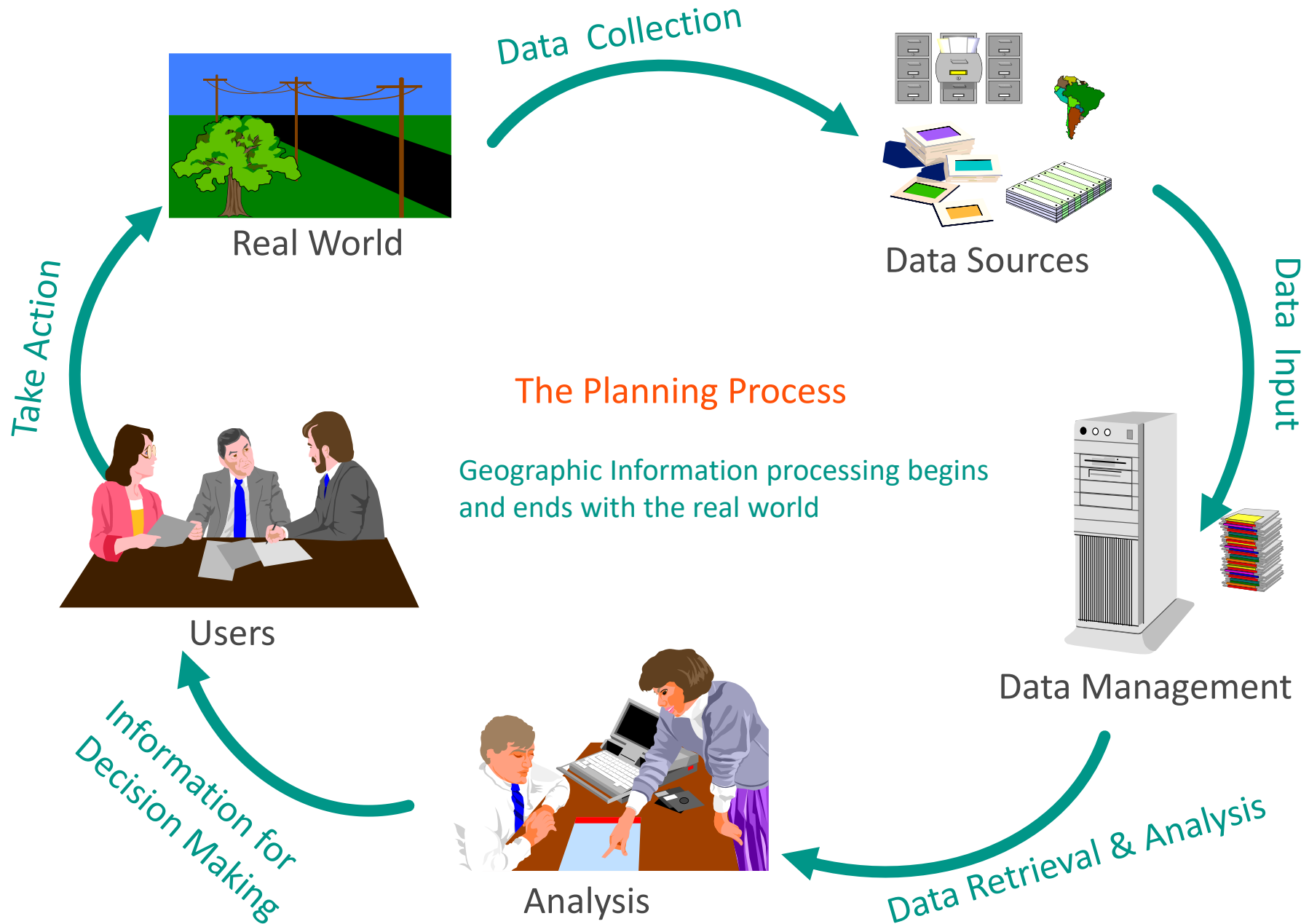
Building a knowledge-base agency

Providing Data-driven Decision Systems

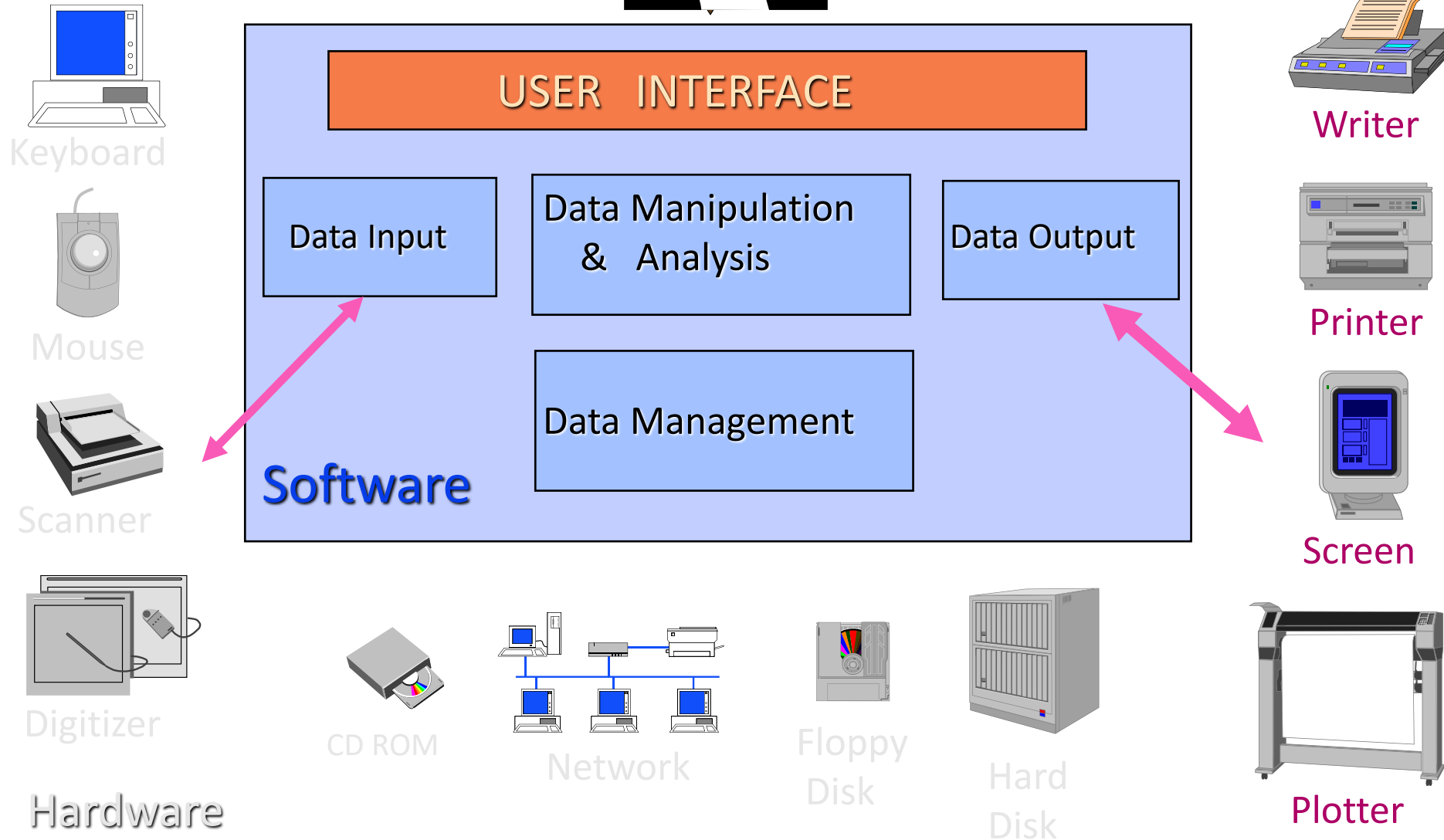
Effective use of tools and resources

Increasing efficiency

Gain public confidence



Components of GST system



Skills Required

Knowledge of geographic information systems (GIS)

Knowledge of spatial analysis tools (modelling)

Knowledge of satellite remote sensing (data collection)

Knowledge of global navigation satellite systems (GNSS)

Unmanned aerial vehicle (Drone: real-time data collection)

Processing of satellite imageries

Database design and management

Current level of GST/D Human Capacity in the Caribbean

Rating of knowledge on the use of the following Geospatial Technologies and Data for disaster risk management	Below average	Average	Fair	Good	Very good
Knowledge of geographic information systems (GIS)	12%	5%	19%	33%	31%
Knowledge of spatial analysis tools	10%	17%	17%	34%	21%
Knowledge of satellite remote sensing	19%	19%	33%	22%	7%
Knowledge of global navigation satellite systems (GNSS)	17%	14%	24%	29%	16%
Unmanned aerial vehicle (Drone technology)	33%	19%	28%	16%	5%
Processing of satellite imageries	36%	16%	28%	14%	7%
Database design and management	24%	22%	21%	22%	10%

What are the issues in GST/D Human Capacity Development?

The roles of Human Resources in effective use of GST/D resources for DRM are:

- **Critical Thinking**
- **Analysing**
- **Modelling**
- **Decision making**
- **Taking responsibility**
- **Doing it right most of the time**
- **Sharing skills and knowledge**
- **Communicating**

How do you develop the Human Capacity Required: Buy or Train?

Buy

- Not enough in the market to hire
- Require high pay and good benefits
- Not enough incentives to keep
- Not enough challenges to keep
- Not encouraged to be innovative
- Will leave as soon as there is better pay packet

Train

- High cost of training
- Access to quality and affordable training institutions
- Ability to retain trained staff
- Immediate use of knowledge gained
- Succession planning
- Access to tools and data to practice what was learnt
- Sense of loyalty

What are the Human Capacity Development Options?

- a. Certificate, diplomas, and degrees programmes**
- b. Online or blended mode of delivery**
- c. Short courses or MOOC courses**
- d. In-house training: learning by doing**
- e. Use of pilot project to develop confidence**
- f. Exchange of regional specialists through study leave**

Thank you!

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