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Opportunities for improved value chain development

By

Ms. Vermaran Extavour, International Expert - VC and Project Coordination, FAO, and
Mr. Roberto Sandoval, Disaster Risk Management Officer, FAO

The views expressed are those of the author and do not necessarily reflect the views of UNCTAD.
Food Security and Smart Agriculture: The role of technology and services

Opportunities for improved value chain development
Ease of doing business & competitiveness

- Weak economic growth and dependency on few sectors: GDP contributions from services (incl. tourism) vs agriculture
- Caribbean economies rank 122 (out of 190) on average in terms of ‘Ease of doing business’ (global ranking)
  - Main business development constraints: registering properties and getting credit
- Caribbean ranked lowest in all pillars of the Global Competitive Index
  - Innovation and technological readiness level significantly below other regions
  - Innovation is a major source of growth and a necessary condition for competitiveness

![GDP Contributions from Services vs Agriculture](image)

![Ease of doing business rank 2019](image)
The Caribbean has increased its internet access across all countries, especially in the area of mobile broadband and fixed broadband subscriptions.

Significant increases are in mobile broadband subscriptions in countries such as Barbados and St. Kitts and Nevis.
Youth have increased access and use of the internet
Women are reportedly accessing the internet more than men
Examples of on-going digital CSA work in the Caribbean

**Dominica and Saint Lucia**

1. Support to the establishment of a Drone Team within the Ministry

2. Drone fleet operationalization; AgriDrone policy/manual development for safe and lawful use

3. Basic and advanced drone, GIS mapping and DRM trainings; re-tooling of extension officers;

Example: Drone mapping pilot of a highly vulnerable upland community in Dominica (FAO-assisted)

Photos: i) Morne Prosper Village, Dominica. ii) Ministry staff doing pre-flight check (3 September 2020)
Examples of on-going digital CSA work in the Caribbean

St. Lucia and St. Vincent and the Grenadines
Resilient Environment and Agricultural Caribbean Habitats (REACH) Project
Partners: CIMH, CDEMA, CIMA Foundation and University of Florence

Integrate Agriculture sector Risk information

- Development of crop disease model for Black Sigatoka
- Development of a precision irrigation model
- Linked to web and mobile platforms

Caribbean-wide

- Development of practical guidelines on the use of remote sensing data for agriculture.

Image taken from UNDP ERC Project Report
Digitalization and Value chain development
Applications along the Value Chain

➢ Rapid VC Selection
➢ Rapid VC Analysis
➢ Animal Identification and Traceability – Suriname and 4 other Caribbean countries
➢ Traceability systems implemented in fisheries
➢ Spatial Monitoring and Reporting tool – Fisheries vessels

Traceability: Lobster – Belize
Fish - Grenada

Spatial Monitoring And Reporting Tool - Belize
Policy level

- E-Agriculture strategy for 5 countries
- Developing a database of best practices of digital solutions
- 1000 villages initiatives – linking farmers/fishers to rural tourism markets
- Establishing E-Agriculture hubs
- SSC with China to develop policy frameworks and support knowledge sharing
“Meeting the challenges facing the agri-food and non-food systems means dealing with complexity and working in an integrated manner so that proposed solutions are fit for both the problem they address and the main objectives being pursued for the system as a whole”
Thank you
Ms. Vermaran Extavour
International Expert - VC and Project Coordination
Vermaran.Extavour@fao.org

Mr. Roberto Sandoval
Disaster Risk Management Officer
Roberto.Sandoval@fao.org