

# United Nations Conference on Trade and Development

## **Global Commodities Forum**

**13 – 15 September 2021, Geneva and Barbados (online)**

**Food Security and Smart Agriculture: The Role of Technology and Services**

By

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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



# Challenges for Caribbean Agriculture

## COVID Impact

Caribbean Agriculture, local food systems and rural communities were hard hit by COVID-19, experiencing food supply chain disruptions, higher freight costs, job layoffs and price inflation in inputs and supplies.





# Key Innovations and Technology for Caribbean Agriculture



**Relevant IoT Applications for Productivity & Climate Smart Agriculture  
BioTechnology & The BioEconomy**

# IICA's Response



- **Interpretation Center of Tomorrow for Agriculture ( CIMAG) at IICA HQ** - an ambitious educational project at the service of its member countries.
- CIMAG / seeks to highlight the fundamental role of new technologies in the agricultural sector and its impact on the well-being of families living in rural and urban areas, through a virtual educational space



Applying science and innovation in traditional crop production **to improve productivity, manage disease and enhance nutrient density (fortification).**



**IICA**  
MINISTRY OF AGRICULTURE AND LIVELIHOODS  
**BANANA TECH-PACK 2020**



**CARICOM BIOFORTIFICATION NETWORK**

**PAHO** **PennState** **IICA**







# Technical Cooperation in ...

Innovation and Technology: Enhancing Productivity, Health and Safety

Strengthened livestock production through Anti-Microbial Resistance, Livestock Genetics and capacities to address emerging crises.



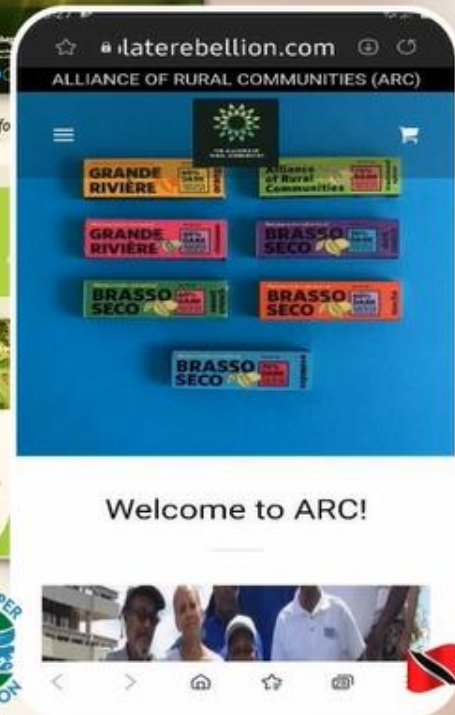
Ministry of Industry, Commerce, Agriculture & Fisheries



NEW ZEALAND



**Developing apps**  
to facilitate  
marketing and  
trade, farmers'  
record keeping and  
traceability,  
extension and  
government  
e-services





## Policy and Institutional Support

These and other appropriate innovations and technologies can become a reality with the appropriate institutional frameworks for robust planning and policy which prioritize and support for:

- Research and Development needs;
- Extension Services Reformation; and
- Protection of private sector investments in the Caribbean agricultural sector.

**This will create the enabling environment to capture the opportunities for building production and productivity of agricultural supply chains in the Caribbean, reducing vulnerability, building resilience, and strengthening Food and Nutrition Security.**