



CTA Science & Technology SWOT Analysis Workshop

Caribbean Agricultural Research & Development Institute (CARDI): Programmes and Priorities

Hotel De Reehorst, Ede, The Netherlands
13-15 November 20113

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Mandates

- To provide for the research and development needs of the agriculture of the Region as identified in national plans and policies
- To provide and extend the application of new technologies in production, processing, storage and distribution of agricultural products of Member States
- To provide for the co-ordination and integration of the research and development efforts of Member States where this is possible and desirable

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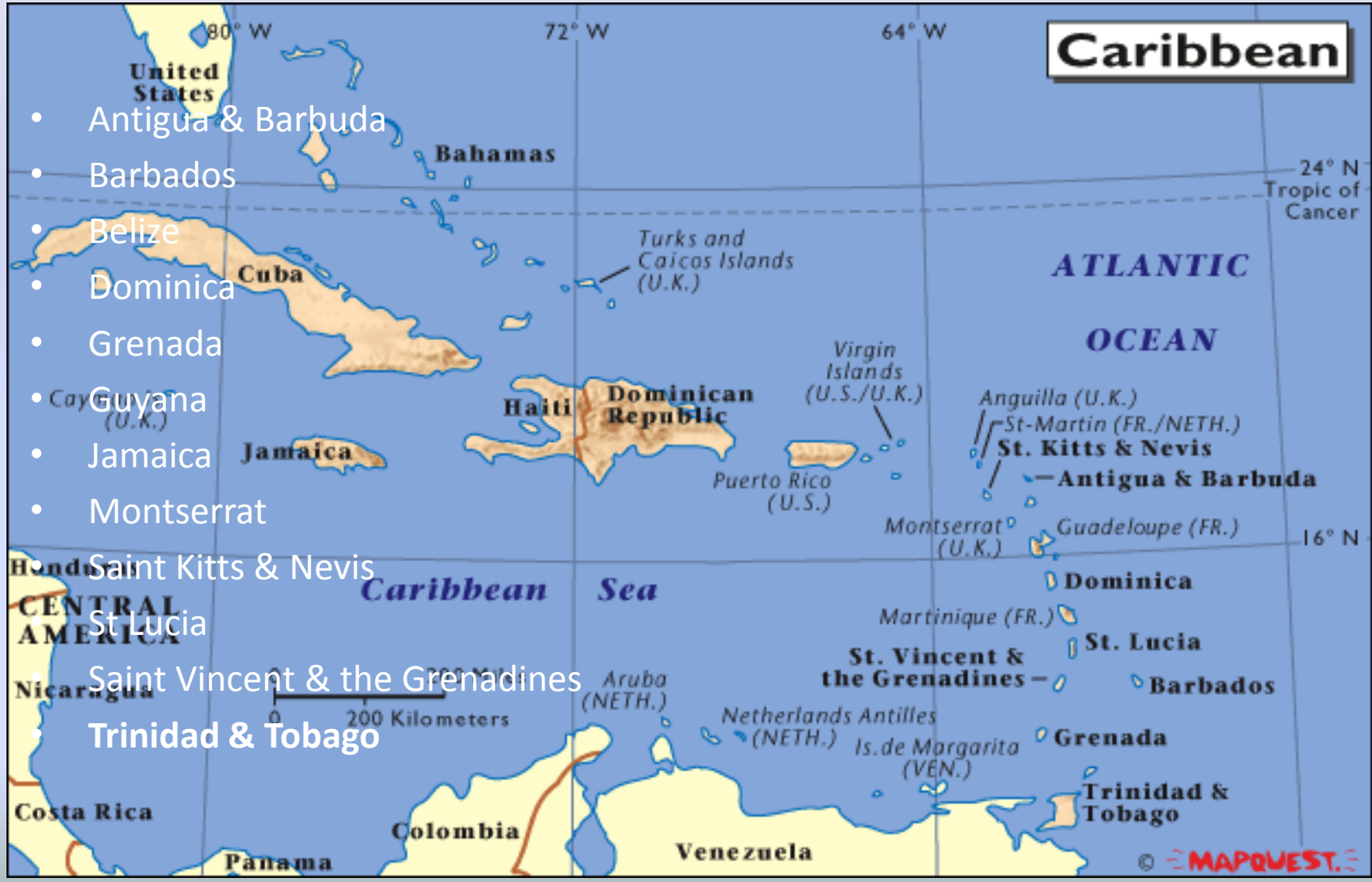
Where?



- Antigua & Barbuda
- Barbados
- Belize
- Dominica
- Grenada
- Guyana
- Jamaica
- Montserrat
- Saint Kitts & Nevis
- St Lucia
- Saint Vincent & the Grenadines
- **Trinidad & Tobago**

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What?

- Commodity development – Crops/Livestock
- Germplasm management
- Emerging issues
- Protected Agriculture
- Biotechnology development
- Technical systems and services
- Promotion of Science, Technology and Innovation
- Invasive species management
- Climate change
- Soil and water management
- Strategic Alliances

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How

- Bottom-up & Client-Led
- Working Together
- Transparency & Accountability

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Who (Beneficiaries, Clients, Partners)

- Consumers
- Farmers and Farmer Organisations
- Ministries of Agriculture
- National Organisations
  - UTT, NARI, NAMDEVCO, SRC
- Regional and Hemispheric Organisations
  - CARICOM, CFNI, CEHI, IICA, UWI
- International Organisations
  - FAO, CFC, CTA, CGIAR

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Institutional Capacity

- Agronomy
- Entomology
- Plant Breeding
- Horticulture
- Post Harvest Technology
- Soil Management
- Livestock Science
- Biotechnology
- Biometrics
- Market Research & Analysis
- Information systems

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Why?

- **Regional food import bill now stands in excess of US 4 billion dollars**
- Rising unemployment, poverty, hunger and crime
- Decline in traditional sectors
- Global economic issues
- Global environmental issues

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Key Binding Constraints

1. Limited financing and inadequate new investment in agriculture
2. Deficient and uncoordinated risk management measures including praedial larceny
3. Fragmented and unorganized agricultural private sector
4. **Inadequate research and development**
5. Outdated and inefficient agricultural health and food safety systems
6. Inefficient land and water distribution and management systems;
7. Inadequate transportation systems particularly for perishables
8. Weak and inadequate information and intelligence systems, weak markets, and lack of linkages and participation in growth market segments
9. Lack of skilled human resources.

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The Issues

- Food and nutrition security that takes into consideration the availability of complex carbohydrate crops, diet changes, modern lifestyles with implications for health as well as energy and ageing populations.
- The numbers of poor and undernourished continues to rise even as global food production rises; the majority of these continue to live in rural areas
- Climate change and resulting ecosystems degradation are going to affect the rural poor disproportionately.
- The future growth of energy demand and increasing price volatility are major challenges for agriculture and food security.

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Context Now

"Climate Has Changed. Climate Will Change. Climate Demands Change."

- Increased temperatures in the Caribbean over the last 40 years
- Increased drying predicted over the next two decades
- Increased instability in the financial markets
- Energy and food price volatility

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Priorities

- **Roots and tubers**
  - Climate ready collections
  - Value adding/processing
  - Clusters and commodity groups
  - Value chain analysis
  - Enterprise development

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Priorities

- **Livestock development**
  - Climate resilience
  - Sustainable production systems
  - Value adding/processing
  - Clusters and commodity groups
  - Value chain analysis
  - Enterprise development

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Priorities

- **ICTs**
  - **Livelihood improvement**
  - The delivery of extension and advisory services
  - **On farm production and productivity**
  - Market information systems
  - **Knowledge generation, diffusion and application**
  - Enterprise development

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Priorities

- **Climate change**
  - **Crop modelling**
  - **Pest modelling and IPM**
  - **Agro meteorology**
  - Water management
  - Protected agriculture
  - **Germplasm management**
    - Crops
    - Livestock

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Priorities

- **Policies**
  - Stakeholder engagement
  - Evidence from science and practice
  - The Caribbean Week of Agriculture
    - Workshops
    - The Alliance
    - COTED
  - Media engagement
  - Policy briefs
  - Public consultations

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Conclusions

- **Climate change**
- **Global financial challenges**
- **Energy volatility**
- **Effective partnership between research and those it serves**
- **Focused and effective research for development (AR4D)**
- **Global collaboration, particularly South-South**
- **Sustainable intensification**

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THE END

THANK YOU

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