

Caribbean Agricultural Research and Development Institute









# CARDI's Annual Technical Report 2021

Omaira Avila Rostant (MPhil) – CARDI Belize Unit

Presented at the Annual General meeting of the Belize Ministry of Agriculture, Food Security and Enterprises (MAFSE)

April 21st and 22nd 2022

### **CARDI's newly appointed Executive Director**





#### Mr Ansari Hosein - Executive Director / Animal Scientist

The Chairman of the Board of Governors of the Caribbean Agricultural Research and Development Institute (CARDI), the Honorable Crenston C. Buffonge, Minister of Agriculture, Lands, Housing and the Environment, Montserrat has announced the appointment of Mr. Ansari Hosein as the Executive Director, CARDI with effect from 1st March, 2022.



A Centre of Excellence delivering innovation and technologies for the Region's food and agricultural sectors

### Mission

To contribute to the sustainable development of the Caribbean by the co-generation, diffusion and application of knowledge, through agricultural research for development



St. Vincent & the Grenadines

Cayman Islands

VALUE CHAIN SERVICES Improved

Strategic Programmes

Cross-cutting Issues

production and productivity of key commodities

Increased incomes

Increased contribution by agriculture to GDP STRENGTHENING

Enhanced institutional infrastructure that supports research excellence and efficiency

Increased infrastructural and human resource capacity

Increased level of available resources

Improved internal and external



Partnerships & Strategic Alliances

Increased partners and partnerships for conducting relevant high quality agricultural research

Aligned to more research networks engaged in new and emerging areas of agricultural research for development



training

Recognised for excellence in tropical agricultural. research. development and

Increased awareness of CARDI nationally regionally and internationally

Development of supportive policies for strengthening agriculture value chains





























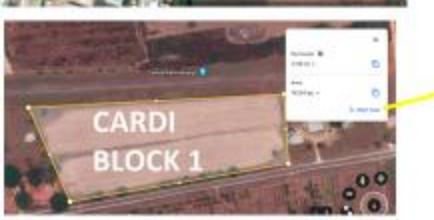






- Seed development program
  - -Research
- Water issues in 180 acres (Rain fed)







CARDI Belize Research and seed development Fields





# Institutional Strengthening UNIT IMPROVEMENT









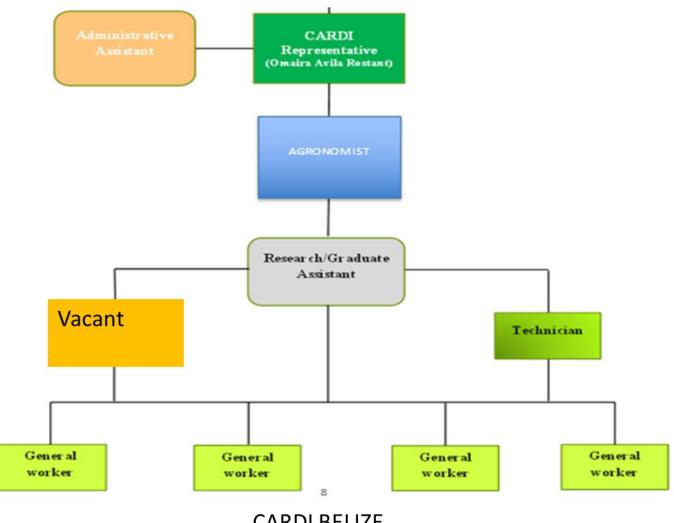


### **CARDI Belize - Staff**



Strength team work and staff working coditions





CARDI BELIZE Organizacional Chart





















Discussion on Belize's Draft Standards for

















### Project 1

### Alliances for Coconut Industry Development, Expansion and Enhanced Support for the Caribbean (Coconuts II)

- Support the BBS for the adoption in Belize of the coconut packaged natural water and oil standards
- MAFSE Coconut nursery at Central Farm Upgrade
- Belize to received 6000 coconut nuts from Jamaica

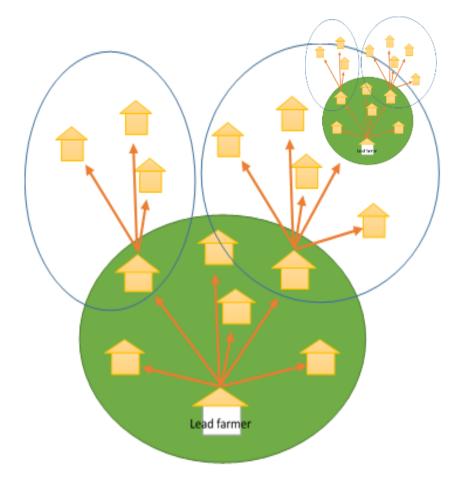
#### **Achievements** 2021

- 23 farmers identified and work programme created for the implementation of the Lead farm approach for training
- CARDI-SIRDI MoU including a letter to support the coconut production as part of the Diversification for Sugar cane farmer
- ITC to directly support several institutions for the development of the industry

### The 2<sup>nd</sup> phase of the Coconut Development project

funded by: the European Union (EU) and CARIFORUM through the Alliances for Coconut Industry Development Expansion and Enhanced Support for the Caribbean is being implemented in the Caribbean since 2019 by the International Trade Centre (ITC) and the Caribbean Agricultural Research and Development Institute (CARDI).

The Aim: It is to build capacity of local innovative farmers to effectively share knowledge and skills with other farmers within their localities.



Exponential growth of the Lead Farmers model:

### Impact and replicability

1 lead farm trained 10 ring farmers; 10 new lead farms trained in total 100 farmers; 100 lead farmers trained 10000 farmers

### What is the Lead farm approach?

It is an extension approach which encourages farmers to learn from each other.

#### This approach:

- It is a farmer-led participatory approach
- Allows community role models farmers lead
- Encourages long lasting exchange of information
- Foments partnerships for trading, bulk purchasing and selling,
- Foments community friendships that leads to successful community

https://agreport.bz/wp-content/uploads/2022/04/Belize-Ag-Report\_Issue-45-Spring-2022.pdf

#### "Pilot Demonstration of the Generation of Electrical Energy through the use of

Arundo donax as a supplemental feedstock in cogeneration" in Belize







Belize Electricity Limited

nd date: July 2022



#### INVESTIGATING SUSTAINABLY GENERATED GREEN ENERGY







### Achievements 2021

Project 2

Pilot Demonstration of Generation of Electrical Energy through the use of wild Cane as a supplemental feedstock in cogeneration in Belize (2019-2022)

- Trial Year 1 has been completed and results are promising
- Two varieties of wild cane have been evaluated and adapted for crop production they are Arundo donax an Gynerium saggitattum
- Varieties are collected and in the process of being send for identification the UWI Herbarium
- Facilities to support the project are completed at CARDI and SIRDI.
- Monthly data is being collected with Arundo donax showing great adaptability to agro production systems



### **Regional Sweet Potato**

Value Chain Enhancement and Technology Transfer Project











### Project 3

### Regional Sweet Potato Value Chain Enhancement and Technology Transfer Project (2021- 2024)

- Collected and maintaining 5 accession to date
- Four variety for consumption of the tuber

### Achieveme nts 2021

- One for the consumption of leaves as vegetable
- Varieties are being grown for morphological and molecular characterization of main varieties in Belize
- Production/ processing technology trails



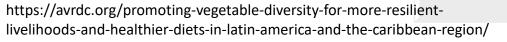




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AVTO	Ty1/Ty3	Ty2	Bwr-12	Bwr-12 Bwr-6					Ph-2	Ph-3	12	Mi	Com
				SLM6- 124	SLM6- 118	SLM6- 94	SLM6- 17	SLM6- 110					
VTO1915	+	+	+	-	-	-	-	-	_	+	-	+	dual purpose
VTO2101	-	+	+	+	+	+	+	+	-	-	-	-	fresh market
VTO1903	+	+	+	-	-	-	-	-	-	-	+	+	fresh market
VTO2123	-	+	+	+	+	+	+	+	-	-	-	-	dual purpose
VTO2128	+	1	+	-	-	+	-	-	-	-	-	-	fresh market
VTO2127	+	_	+	-	-	+	-	1	ı	ı	_	_	fresh market
AVTO2132	Ty3a	-	+	+	ı	+	+	+	-	-	-	-	fresh market
VTO2138	-	-	+	+	+	+	+	+	-	-	-	-	fresh market
VTO1908	_	-	-	-	ı	ı	-	-	-	-	+	_	fresh market
VTO1954	+	+	+	_	-	_	_	-	+	+	+	-	fresh market







### Project 4

# The LAC Vegetable Network: Promoting vegetable diversity for more resilient livelihoods and healthier diets in the Latin America and Caribbean Region"

### Objective

Achievemen

ts 2021

- Adaptability trial of 30 varieties breed for resistance Tomato yellow leaf curl disease, bacterial wilt resistance and late blight resistance
- Trial in six countries in Central America and the Caribbean: Belize, Guatemala, Haiti, Honduras, Nicaragua, and Paraguay.
- Construction of a nursery with a capacity of approximately 5000 plantlets
- CARDI became member of the LAC vegetable network and started the multi location adaptability trials for 40 varieties of selected material at the world Veg Centre located in Taiwan.
- 12 varieties Tomato trial transplanted on the MAFSE fields
- 16 varieties of peppers trial transplant
- 12 varieties of pumpkin













### Project 5

### Iron Bio fortified beans Trials in Belize Partners: CARDI, IICA, MAFSE, CIAT, Harvesting Plus

- 14<sup>TH</sup> national, regional and international research institutes have partner to form the CARICOM Bio fortification Network.
  - -In Belize, being implemented by CARDI, IICA, MAFSE, CIAT, Harvesting Plus with adaptation trials of 51 lines of beans rich in iron
  - -In Guyana being implemented by NAREI, IICA, CIAT, Harvesting Plus with adaptation trials of rice beans rich in zinc.

### Achievement s 2021

- In 2021-2022, the first adaptation trial to test 51 introduced varieties of been have been tested in 2 different climatic environments have been completed.
- In 2020 and 2021 climatic adaptability trials were conducted for 51 varieties and data is being analysed

#### Data collection for accuracy, Training evaluating and monitoring











CENTE	RAL FARM RCBD 202	0-2021	YO	CREEK RCBD 2020-2	.021	STANN CREEK RCBD 2020-2021			
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16-SMG 22	43-SMN 100	check-ICTA LIGERO	40-SMR 282	12-SMG 12	23-SMG 34	39-SMR 279	26-SMG 37	21-SMG 32	
6-DAN 32	17-SMG 24	3-BNA 12	check-ICTA LIGERO	13-SMG 13	45-SMN 104	12-SMG 12	20-SMG 28	11-SMG 11	
13-SMG 13	24-SMG 35	26-SMG 37	19-SMG 26	9-SMG 7	41-SMN 87	50-SMN 123	35-SMR 257	30-SMG 41	
3-BNA 12	20-SMG 28	37-SMR 274	21-SMG 32	29-SMG 40	32-SMR 168	25-SMG 36	check-CENTA PIPIL		
21-SMG 32	5-DAN 27	14-SMG 19	8-SMG 6	20-SMG 28	13-SMG 13	27-SMG 38	47-SMN 107	31-SMR 100	
37-SMR 274	32-SMR 168	40-SMR 282	42-SMN 97	33-SMR 228	19-SMG 26	check-AMADEUS	32-SMR 168	33-SMR 228	
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10-SMG 8	42-SMN 97	20-SMG 28	35-SMR 257	7-NDZ 11	22-SMG 33	31-SMR 100	7-NDZ 11	25-SMG 36	
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35-SMR 257	45-SMN 104	27-SMG 38	4-DAN 15	34-SMR 238	2-BNA 9	21-SMG 32	9-SMG 7	43-SMN 100	
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### Biocontrol's for Asian thrip (OIRSA)











### Technical assistance

# Suitable Management Strategies against Asian Bean Trips (*Megalurothrips usitatus*).

- Stablish and complete the field experiment Suitable Management Strategies against Asian Bean Trips (Megalurothrips usitatus).
- Six Private Pesticide providers are invited to try their protocol as a fast methodology to give options to farmers in how to control this new invasive pest. 6 chemical based and 3 biocontrol based

Achievement s 2021

- CARDI to manage the national research together with BAHA
- CARDI team join the BAHA and MAFSE team in the National Survey and Identification of the ABT and sets on the taskforce







### CARDI SEED PRODUCTION PROGRAMME FOR SMALL FARMERS OF CEREALS, BEAN AND PEPPERS

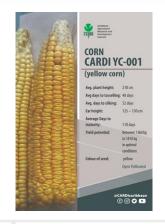




### **Objective:**

Developmental project to have clean seed available to farmers that are open pollinated and price competitive







### CARDI YC001 -**Open pollinated** yellow corn

Sold approximately 1400 Lbs **20Lbs/acre = 1**40 acres

140 produce 2000 lbs acre= 280,000 lbs OP corn from small scale farmers

Directly - Around 81 Small scale farmers



#### **Main Action Results achieved** Sold approximately 340 **Produce 10 acres** Lbs of different

varieties of red and black small beans

12 varieties of

cassava

(Manihot esculenta)

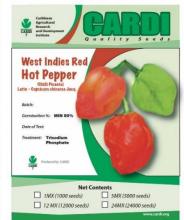
Sold and give away

acres.

Being promoted for approximately 50 sticks farmers and to support capable of planting 1 as seed for MAFSE rootcrop multiplication programme







Who benefited

Around 50 Small scale

farmers

### **Produce** hot pepper

- West indies red
- Moruga red
- **Scotch Bonnet**

Sold approximately 110 ounces of seeds capable of planting around 110 acres driven by the export market of hot pepper in Belize and in the Caribban

Directly to farmers 43 Indirectly through MAFSE cover structure programme and Maria Sharp and Hot mama's contracted farmers around 40 Small scale farmers

### **CARDI Belize Services to farmers and value chain stakeholders**

### **Seed Drying services**



Drying services access for 20000 lbs Bean 6000 lbs peanuts 50000 lbs corn

- CARDI has a capacity of drying 50,000 Lbs of grains in
- 4 mobile dryers each capable of drying 4,000 Lbs
- 1 Fix Unit drying 10,000 lbs small scale drying

### **Seed Laboratory Service**

- Around 30 certificates since 2018 have been produce for local grain exporting companies accessing the service of purity test
- 100 certificates since 2018 have been produce germination test







Grass seeds germination test using paper based on ISTA Rules

### **Equipment Rental**

1) Supported Land preparation for 50 small farmers

Ploughing Harrowing Beds for drainage







Beans purity test for export quality of grains based on ISTA Rules



Rental of tractor services to farmers within close proximity to CARDI

### Supported MAFSE's activities

Participated in several Minister's Mai visit to the Districts of Belize



- CARDI is a member of the PCB board
- Support extension unit activities



CARDI

Booth at the World Food Day MAFSE programme in Orange Walk Station (15<sup>th</sup> November 2021)



Part of the Belize Bilateral Meeting with Mexico (July 8th 2021)



Online panel Discussion for International Women's
Day on
WOMEN IN AGRICULTURE
(February 2021)

### **Support University of Belize**

### Support UBCF agriculture programme











### Support IT intership programme

# Received Students from the University of Belize IT Programme as interns 12 weeks programme for Bachelors and 9 week for Associate



Technology's Hand in CARDI Data Management: Crop Inventory Management System – Enrique Nabet



Management:
CARDI Service System – Naim Villanueva



Technology's Hand in CARDI Data Management: Seed management system – Garcia

### **CARDI BELIZE outreach ad partnership activities**







- CARDI booth at the Belize Defense Force Open day
- CARDI supported the Activity at the Central BDF distributing corn and beans and showing CARDI's work







CARDI partner with the Salvadorans embassy to meet with the Valle of Peace Salvadorian community invited by ambassador Hon Mrs. Julia *Carolina* Rovira Aguilar

PPCR\_Project\_and\_CARDI\_Ag rometeorological\_(Agro-Met)\_Training\_Workshop (August 31st to September 1st; 9<sup>th</sup> December 2021)

18<sup>th</sup> Persons from Belize were trained













FAO

**OIRSA** 

ITC

EU

CIAT

**IICA** 

**Harvesting Plus** 

#### **Local partners**

MAFSE

**BAHA** 

PCB

UB

SIRDI

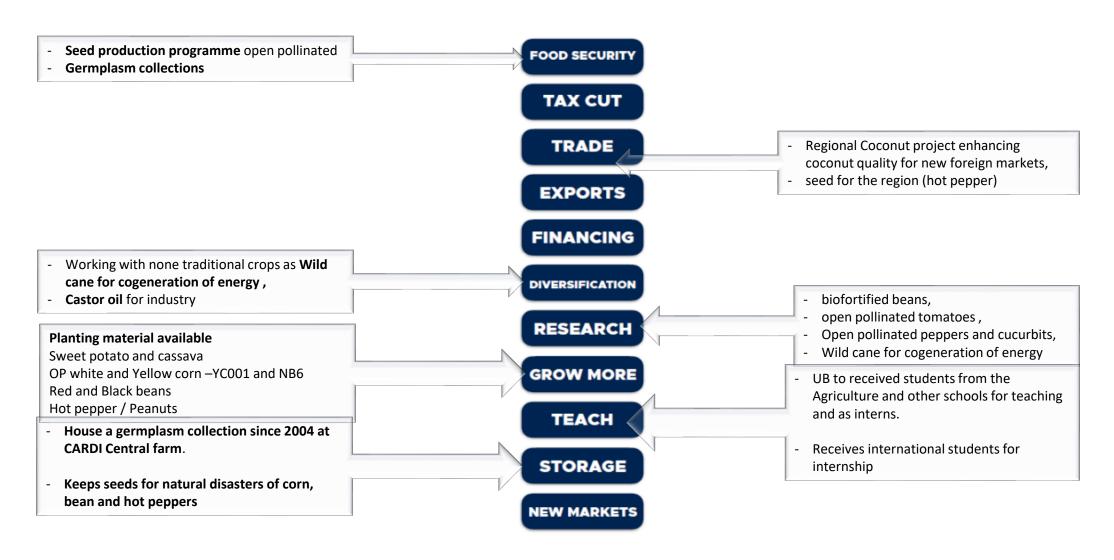
CCCCC

NCCO

Met Office



# CARDI's Programmes affinity with the Present Belize National Agricultural programme















### Lessons learnt for Institutional strengthening and Partnership Alliances

- CARDI'S Needs to improve its Communication style and channels with key partners to involve them in the work being completed in the institute
- Documentation of achievements need to be improved
- Delivery time need to be improved
- CARDI needs to organise with key partners to carryout join trainings.

### **Lessons learnt for Value chain strengthening**

- Lack of access to water has become a main issue for research and development programmes
- Planting timing for been it is very important and determines the success of the crop, as well as affect cost of production.
- Climate variability have affected the traditional planting cycles of been, specially for time of harvesting causing been losses.
- Climate variation a major factors on Asian Thrip incidence

### 2. Future priorities and plans

- COCONUT- Training of farmers will be the main focus in 2022. Capacity building for farmers coconut management and will be synchronize with MAFSE programme.
  - Multiplication of planting material
  - > Identification of local plants that can be used as mother plants to new coconut elite planting material
  - Training on how to collect plant samples for identification April 2022
- WILD CANE- Final data collection to be completed and first harvest of *Arundo donax* to be done
  - > Seek to expand the project to a programme for at least 3 more years.
- Calorific analysis, destruction capacity and seed viability trials to be completed.
- Complete the data collection and reported by June 2022
- WORLD VEG To replicate the trial in 2023
- To host a three days Central American meeting in Zamurano, Honduras in July 2022.
- > ASIAN THRIP RESEARCH Needs to repeat the experiment in more locations
- **BIO FORTIFIED SEEDS** Two more yield trails will be conducted to further select the best varieties for the country and the region.
- Continue adaptability trials of key crops
- Continue corn and bean single line evaluation
- Continue supporting CARDI's Developmental programmes



### **CARICOM Soybean project**

CARDI Belize outdated equipment traditionally use for soybean







Soybean seed cleaner donated to CARDI in 2006 to big to be used at CARDI



### 3. Conclusion and recommendations

- 2022 will be time to develop the 2023- 2028 strategic plant
- CARDI's seek to continue strengthening its capacity to evaluate the adaptability of key crops with the aim to enhance Belize's, seed security and seed resiliency and sovereignty.
- CARDI's to continue supporting MAFSE's programmes to develop the coconut industry and work as one in order for the project to have a successful completion.
- The project seek to adopted as a programme to have a real impact on the industry
- Start awareness programme on the iron Biofortified bean consumption. In order to address the iron deficiency in of the CARICOM
- Repeat the trial using biocontrol
- Continue the evaluation of open pollinated varieties of open pollinated tomatoes, hot pepper and sweet pepper, and pumpkin, with the objective to create a seed saving programme for small scale farmers.
- Continue working in supporting the local seed production programme of hot pepper.







### THANK YOU



### Caribbean Agricultural Research and Development Institute

Improving lives through agricultural research

### **CARDI BELIZE UNIT**

www.cardi.orgCARDIcaribbeanCARDIcaribbean

CARDI, Central Farm, Cayo District, Belize, C.A.

P.O. Box 2, Belmopan, Belize, C.A.

Tel: (501) 824.2934/

(501) 824.2936

Cell: (501) 615.4903

Email: cardi@btl.net