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I. Introduction.

The Inter-American Institute for Cooperation on Agriculture's Bahamas office is pleased to present the country strategy for the year 2015 - 2018. The IICA Country Strategy for the Bahamas will serve as a guide to channel the technical cooperation provided by the office over the next four years.

The country strategy reflects the needs of the agricultural sector, gathered through a consultative process with stakeholders in the agricultural sector, documents and publications and communications produced and released with main stakeholders. The stakeholders include the Ministry of Agriculture and Marine Resources (MAMR), the Bahamas Agricultural and Industrial Corporation (BAIC), The Bahamas Agriculture and Marine Science Institute (BAMSI) and other institutions of the public and private sector.

The technical cooperation actions in the 2014- 2018 Country Strategy are result-oriented and are linked to the four (4) instruments of action (Flagship Projects, Rapid Respond Actions, FonTC, Projects with external resources) outlined in the Mid-term Plan (MTP 2014- 2018).

To enable the countries to achieve these transformations, the Institute will focus its efforts on 11 contributions related to the strategic objectives of the 2010-2020 Strategic Plan, which are:

A. Strengthening the capabilities of the Member States at the national, regional, multinational and hemispheric levels to establish public policies and institutional frameworks in order to make agriculture more productive and competitive, improve management of rural territories, adapt to and mitigate the impact of climate change, and promote food and nutritional security.

B. Implementing, through public and private institutions, technological, institutional and business innovations aimed at boosting the productivity and competitiveness of agriculture and the production of basic foodstuffs of high nutritional quality.

C. Increasing the capabilities of the public and private sector to ensure agricultural health and food safety and thereby improve productivity, competitiveness and food security.

D. Strengthening the business and associative capabilities of the different stakeholders in the agricultural production chains.

E. Increasing the capacity for area-based social management24 among stakeholders in rural territories, especially those involved in family agriculture, in order to improve food security and rural well-being.

F. Enhancing the capabilities of different stakeholders of the agricultural chains and rural territories in the integrated management of water and sustainable use of soil for agriculture.

G. Increasing the capacity of public and private institutions to promote and implement measures for adapting agriculture to climate change and mitigating its effects, as well as promoting integrated risk management in agriculture.

H. Improving the efficacy and efficiency of food and nutritional security programs in the Member States

I. Ensuring that producers and consumers benefit from a greater use of native species, promising crops and native genetic resources with food potential.

II. . Methodology.

The method of formulating the country strategy was mainly done by SWOT analysis that were implemented in workshops in 7 islands.

i) Consultation with Producers, Processors and other private sector stakeholders

The development of the IICA Country Strategy was initiated by a Strengths, Weakness, Opportunity and Threat (S.W.O.T) session conducted on seven of the major islands of the Bahamas. The IICA country representative and National Technical Specialist along with a government official travelled to the islands of Grand Bahama, Andros, Abaco, Eleuthera, Exuma, Long Island, Acklins and New Providence to meet with farmers to conduct SWOT analysis and conduct an agricultural needs assessment for each island visited.

1) A Strength Weakness Opportunities and Threats (SWOT) analysis exercise was done with the participation and input of the stakeholders (farmers and agri-business persons) to determine the challenges and opportunities in the agriculture sector.

2) The method of consultation was an agri-business and associative analysis survey filled out by the stakeholders. The purpose of the survey was to determine the extent of production planning, marketing and the interaction and involvement each stakeholder has with associations and cooperatives.

Resulting from the S.W.O.T and stakeholder consultation, the IICA Bahamas office has identified six priority areas for technical cooperation. These are:

- i) Institutional modernization and strengthening,
- ii) Agribusiness and value chain development,
- iii) Agrotourism development,
- iv) Food security
- v) Family agriculture
- vi) Sustainable use of natural resources for agriculture.

ii) Consultation with Governmental, international and private stakeholders

We had various consultations and discussions to establish the priorities of the Ministry of Agriculture, the Bahamas Agricultural and Industrial Cooperation (BAIC), The Bahamas Agriculture and Marine Science Institute (BAMSI), Department of Cooperative Development

(DCD) to establish the current drive to position the agricultural sector as a leading economic force in the Bahamas.

Discussions were also held with the Ministry of Grand Bahama, Ministry of Education, Ministry of Financial Services, Ministry of Health. Ministry of Environment, Bahamas Development Bank and other agencies.

On the other hand we had continuous exchange of information and strategies with farmers' organizations and main international organizations like FAO, IDB, PAHO, GEF, OAS, UN Women, etc.

iii) Documents' consultation

We took in consideration documents that outline strategies like the Rebuilding Bahamian Agriculture: A 20 year plan (MAMR)-2014 and Rapid Assessment of Bahamas Agricultural Sector (FAO)-2009 which constitute the official current and previous plans for developing agriculture in the Bahamas.

III. IICA Country Strategy

i. Analysis of the context. Up-to-date general state of the sector in the country.

In the Bahamas successive agricultural census for the past 30 years have shown a continuous decline in the number of farms and farmers. It is for this reason that agriculture contributes to less than 3% of the Gross Domestic Product (GDP). Within the last two years the government of the Bahamas has displayed a new found determination to reinvest in agriculture thus committing to reducing the country's food import bill. The government of the Bahamas' most recent major investment is the Bahamas Agriculture and Marine Science (BAMSI). According to the Prime Minister, The Rt Hon. Perry Christie, the new Institute will be a centre for research-based activities; will provide hands-on training in fields such as crop and livestock production, farm management, environmental conservation and marine resources. The Institute will also offer academic instruction and will house an arboretum and a tutorial farm.

The Government of the Bahamas recognizes the economy can no longer be sustained by a limited number of sectors. It also sees the need to support economic development in the Family Islands so as to restrict the migration of the population to the more densely populated Islands of New Providence and Grand Bahama. However, development of the rural sector on several islands can be costly and therefore the strategies and actions to achieve the goal of economic diversification will require a measure of selectivity.

The agriculture sector is challenged to produce in a situation in which banks and other lending agencies are not willing to fund agricultural projects, particularly since it is deemed as high risk due to frequent damages from storm and hurricanes, as well as market related phenomena. Lack of secured land tenure, as it relates to collateral for securing loans, further accounts for the low level of investments in the sector. Additionally, despite having access to land, most lessees are constrained to find funding to support their projects because the lease document is not widely

accepted by the commercial banking sector in order to secure financing. There are also no financial mechanisms such as insurance to support rehabilitation in the event of a natural disaster

Other challenges faced by the sector include a shortage of skilled personnel in both the agriculture and fisheries sectors to deal with a variety of critical issues that include agricultural biodiversity research and management, participation and implementation of international agreements and sustainable management of the natural and marine resources as well as implementation of policies, strategies and programmes.

The decline of the Agricultural Sector of The Bahamas has been manifested in a number of areasoutput, contributions to GDP, and the size of the farming community. The most conspicuous area has been in the decline of manpower, respectfully in expertise and in the number of professionally trained officers.

Currently we can describe two main wide agricultural chains, livestock and fruits and vegetables. We split them this way as most individual producers is not exclusively dedicated to one specific product and each individual product is not significantly big in volumes.

Small ruminants are the most important activity in livestock with important farmers in most of the islands. Pigs are a growing activity and poultry is also important with big and small projects in several islands capable of providing a high percentage of local consumption of meat and eggs.

In terms of fruits and vegetables, the main products are onions, pumpkin, cucumbers, peppers, tomatoes, avocados, bananas, among other. Main productions are in Andros, Abaco and Eleuthera, but present in other few islands.

The situation of agriculture is expecting a boost from the creation of the Bahamas Agriculture and Marine Science Institute (BAMSI) that has started training students in agriculture and that have established a tutorial/commercial farm that will promote the production of a large variety of tropical fruits, production of sheep and goats and the largest aquaponic project in the country to produce tilapia and vegetables combined.

They also plan to affiliate farmers to their network to commercialize their products, along with the Bahamas Agricultural and Industrial Corporation (BAIC) that handles the packing houses in several islands and the Produce Exchange in New Providence.

The reality as an archipelago is that some islands have water enough, specially the pine islands, while other (coppice islands) do not have enough water. Quality of soils is a major challenge. To this we have to add problems with transportation and logistics, high costs of labor and services, lack of agricultural insurance and financing, etc.

ii. International vision and hemispheric trends in agriculture and rural life.

International food prices began to rise again during the second half of 2010 and this upward trend continued in the first half of 2011. Following sharp increases in 2007-08, prices stabilized in 2009,

due to the combination of the economic downturn and the financial crisis that affected the global economy during the second half of 2008 and in 2009. The analysis considers the factors responsible for the fluctuations in agricultural prices and highlights the importance of governments being able to respond more quickly and with more suitable policies to any future price spikes. It concludes that variations in prices are due to a complex set of variables, some related to structural determinants of supply and demand, but also to cyclical factors. Furthermore, the behavior of domestic macroeconomic variables, responding to specific policies, affects the evolution of international prices. Some examples of this are the pressure on the real and financial demand created by expansionist monetary policies, and the stimulation of the region's imports as a result of the devaluation of the dollar.

Agricultural production is expected to grow in 2011, with cereals leading the way, but measures to improve the performance of agriculture will be needed in the long term. Some of the most important predictions are that: a) energy and perspective on Latin America and the Caribbean (LAC)food prices will rise in real terms over the long run; b) China will continue to be one of LAC's most important partners, demanding more food products, which will help revive agricultural trade flows; c) the need to achieve food security will make it necessary to produce more good-quality food and to do so competitively; and, d) the development and improvement of research, innovation and information in the countries will continue.

According to a report "The Outlook for Agriculture and Rural Development in the Americas 2011-2012" the agricultural sectors of LAC should view the long-term trend of higher agricultural commodity prices as an opportunity, because some countries have land available that could be incorporated into production and the region possesses a relative abundance of water, biodiversity and human resources. However, it also highlights the continued existence of major technological gaps, which – if overcome – would raise yields and thereby increase food production significantly.

Thanks to the growing demand for meat and milk, the outlook for the livestock sector in the years ahead is one of great opportunities. However, given the increasing use of biofuels, it is predicted that there will be continued pressure on the prices of some inputs, especially grains. In addition, the biggest challenge that the commercial, intensive livestock sector will face will be to achieve greater efficiency and a better balance between the financial benefits for companies and the social benefits for consumers and communities. The strengthening of family livestock production and its integration into markets would appear to be an important strategy for improving the supply of protein foods and enhancing food security programs in vulnerable communities. The promotion of innovation, free competition and training for human resources will be of key importance for this sector. Two other challenges for the sector in the years ahead, related to the environment, will be climate change and natural resources management.

The analysis shows that while both urban and rural poverty fell between 2000 and 2007, thanks to the growth of the region's economy and agriculture, the crisis caused it to rise again. However, in 2009 poverty in the LAC region as a whole rose by only 0.1% and extreme poverty by 0.4%. The increase was slightly higher in rural areas than in urban areas. What the crisis did highlight was a general trend towards a downturn in the job market. The impact on poverty was limited for a number of reasons, including: a) the strategies implemented by households, which combined agricultural and nonagricultural income, to cope better with the crisis; b) the positive trend in income from non-agricultural work, which partly offset the fall in income from agricultural work,

income from self-employment and, in some countries, the remittances received from abroad; and, c) income from transfers under public programs. The chapter concludes with a series of policy recommendations. One issue that is highlighted is the need for the region to include in its political agenda a debate on the situation of the rural labor market and the creation of decent employment, to help reduce rural poverty.

iii. Challenges and opportunities for agriculture in the country.

The document 'Rebuilding Agriculture: A 20 year plan produced by Mr. Godfrey Eneas, consultant to the Minister of Agriculture has been adopted as a major resource for plans for agriculture in the country.

In our Charter of Governance, we called for revolutionizing Bahamian agriculture. Revolutionizing Bahamian Agriculture "Grow What We Can...Buy What We Must"

How: Through import substitution, we will:
a) Save foreign exchange
b) Earn foreign exchange
c) Secure the domestic market for local producers

Mechanism: —New Agriculture will be:

a) Technologically driven
b) Environmentally friendly
c) Scientifically based
d) Value chain approach
e) Research oriented
f) Competitiveness rooted
g) Innovative

Development:

- Establish a Centre of Excellence via: Bahamas Food Sciences Institute on Andros Island within 3 years, possibly on Cat Island/Long Island within 7 years in conjunction with [College of the Bahamas].
- Upgrade the Packing Houses to Agribusiness Centres a) Construct agribusiness centres on East Grand Bahama and Abaco
- Introduce a Biotechnology Unit for plant propagation/production
- Establish slaughtering and processing facilities as part of an upgrade on North Andros, Eleuthera, and Long Island.
- Create a model commercial farm to teach farmers new techniques

Policy: Reorganize the Department of Agriculture as a Regulatory Agency

- Expand the role of BAIC to include Agricultural Development. Devise a National Food Production Plan
- Enhance pothole farming as a viable production alternative. Initiate a special program to attract young people and women to the industry.
- Foster greater cooperation with international agencies such as the Food and Agriculture Organization, IICA and CARDI

Diversification: Attract Foreign Direct Investment. Encourage Bahamian entrepreneurs to invest in food production and processing.

Challenges

- 1. An aging cadre of farmers.
- 2. Unattractiveness of agriculture to youth.
- 3. Unbalanced economic development.
- 4. Declining populations on a number of key Family Islands.
- 5. Lack of research in various critical areas of the sector.
- 6. Lack of infrastructure for participation in a global economy.
- 7. Lack of skilled manpower both as agricultural professionals and as farm producers.
- 8. The Agribusiness Sector is under- developed.
- 9. Escalating health care costs as a result of non-communicable diseases emanating from dietary change.
- 10. Crumbling public sector marketing system.

11. Unpreparedness for the World Trade Organization's Agreement on Agriculture i.e. inability to sign bi-lateral agreements.

iv. Needs/requests for technical cooperation.

The Institutes overall core strategy for each country is as follows.

Strategic objective 1: To improve the productivity and competitiveness of the agricultural sector.

The Institute will support The Bahamas in: a) building, strengthening and managing agricultural innovation systems, including the development of productive, organizational and business solutions; b) strengthening agricultural health and food safety services; c) developing trade and agribusiness; d) establishing regulatory frameworks and positions based on consensus in international forums, and e) designing innovative systems of incentives.

Strategic objective 2: To strengthen agriculture's contribution to the development of territories and the well-being of the rural population.

Using a holistic approach, IICA proposes to support the task of effectively integrating the agricultural sector into the rural milieu, as the best pathway to promoting equity and inclusion. This implies at least: a)implementing public policies that promote investment in rural areas, the

aggregation of value and retaining value in the production areas, as well as social inclusion plans and land planning and management processes; b) strengthening agricultural extension and advisory services; c) developing models, methodologies and instruments to strengthen small and mediumscale agriculture, as well as family agriculture; d) linking agricultural producers to value chains and markets; and e) improving access to production resources, information, training, technology and markets.

Strategic objective 3: To improve agriculture's capacity to mitigate and adapt to climate change and make better use of natural resources.

In order to develop a sustainable agriculture, IICA will support its member countries in: a) Developing and implementing harmonized policies and programs to promote planning processes to adapt agriculture to alimete abange, affective soil management and the afficient use of water

to adapt agriculture to climate change, effective soil management and the efficient use of water resources;

b) Increasing and improving the capacity of innovation systems to develop practices and materials that facilitate the efficient adaptation of agriculture to climate change and the development and application of technologies and processes to reduce the impacts of agriculture on the climate and on natural resources;

c) Increasing farmers' knowledge so that they can apply "environment-friendly" practices; and d) strengthening integrated risk management programs.

Strategic objective 4: To improve agriculture's contribution to food security.

In order to add value to the different initiatives aimed at resolving the problem of food and nutritional insecurity, IICA is committed to: a) implementing public policy options aimed at ensuring availability of and access to quality foods in vulnerable rural areas and populations; b) promoting innovation as a means to boost productivity and competitiveness as central elements of food and nutritional security; c) promoting competitive, sustainable and inclusive business models, particularly in family agriculture, to guarantee a supply of good quality food and better incomes; d) providing support to reduce losses of raw materials and food in the processing stage; e) promoting family agriculture's contribution to the food supply; and f) increasing institutional competencies in the area of food and nutritional security.

11 Contributions of the MTP Requests	
A. Strengthening the capabilities of the Member States at the national, regional, multinational and hemispheric levels to establish public policies and institutional frameworks in order to make agriculture more productive and competitive, improve management of rural territories, adapt to and mitigate the impact of climate change, and promote food and nutritional security.interface itilLegal impl implA. Strengthening the capabilities of the Member States at the national, regional, multinational and hemispheric levels to establish public policies and institutional frameworks in order to make agriculture more productive and competitive, improve will Accessionii)Legal implWillAccession willKernel AccessionVillAccession willMarkWillAccession willKernel Mark	al framework SPS, policies and lementation ension service earch system lity and standards ket information system ess to cooperation funding ess to financing keting system

B. Implementing, through public and private institutions, technological, institutional and business innovations aimed at boosting the productivity and competitiveness of agriculture and the production of basic foodstuffs of high nutritional quality.	i) ii) i) ii)	Improvement of infrastructure (ie. Germplasm bank, slaughter houses and meat processing, food processing, packing houses, feed mills, experimental farms and crops, etc.) Greenhouse initiatives Aquaponic projects Urban agriculture programme
C. Increasing the capabilities of the public and private sector to ensure agricultural health and food safety and thereby improve productivity, competitiveness and food security.	i)	Technical cooperation to public and private sector in AHFS
D. Strengthening the business and associative capabilities of the different stakeholders in the agricultural production chains.	i) ii) iii]	 Capacity building for farmers' organizations and equally for youth and women's organizations in the rural milieu. Organization and strengthening of agricultural chains. Coordination of actions among different international and local stakeholders.
E. Increasing the capacity for area-based social management among stakeholders in rural territories, especially those involved in family agriculture, in order to improve food security and rural well-being.	i)	Capacity building at community level in agriculture, handicraft, processing for improving family units and community projects.
F. Enhancing the capabilities of different stakeholders of the agricultural chains and	i)	Capacity building in better use of resources.
rural territories in the integrated management of water and sustainable use	ii)	Projects in water capture and management.
of soil for agriculture.	iii] iv]	 Innovations in improvement of soils and alternatives for crops. Introduction of crops adapted to salty and brackish water and to reduced use of water.
G. Increasing the capacity of public and private institutions to promote and	i)	Capacity building in adaptation to
implement measures for adapting agriculture to climate change and mitigating its effects, as well as promoting integrated risk management in agriculture.	ii)	Capacity building in climate-smart agriculture.

H. Improving the efficacy and efficiency of	i)	Programs aimed at educating
food and nutritional security programs in		consumers on best practices
the Member States	ii)	Backyard farming initiative
	iii)	Research on product's varieties to
		be propagated for better local
		supply.
I. Ensuring that producers and consumers	i)	Preserve local varieties
benefit from a greater use of native species,	ii)	Explore new uses and processing
promising crops and native genetic	-	for local products.
resources with food potential.	iii)	Explore introduction of new crops.
	,	1 1
J. Improving institutional capacity to	i)	Improve the logistic from crops to
address losses of food and raw materials		harvest, to post-harvest to
throughout the agricultural chains.		distribution channels and final
		consumers.
	ii)	Research and implement
	-	techniques for preservation and
		processing of food.
K. Strengthening the Member States'	i)	Assist to focal points and national
capacity for consensus and participation in		committees or in their formation.
international forums and other	ii)	Follow up on participation of local
mechanisms for the exchange of knowledge	-	stakeholders in international
and mobilization of sizable resources for		forums
inter-American agriculture.	iii)	Follow up on results of
)	participation in international
		forums.

v. ICS Instruments of action.

In order to promote its innovative capacity, the effective and transparent use of its resources and the delivery of concrete results to The Bahamas, the Institute will use projects as the units for integrating its actions, programming, allocating resources, generating results and monitoring and evaluating institutional contributions. A project is understood as a set of activities designed to provide a creative solution to resolve a problem, take advantage of an opportunity, create knowledge, innovate, generate tools and methodologies, provide services to the country and promote organizational and process changes that serve to improve agriculture and increase its contribution and role in the development of rural territories i.e. the Family Islands.

i. "Flagship Projects": these will serve as the "backbone" for delivering IICA's technical cooperation, and will aim to achieve the 11 institutional contributions proposed for the 2014-2018 period related to competitiveness, sustainability and inclusion; In annex A are indicated the areas where we understand The Bahamas can benefit and participate in the Flagship Projects.

ii. "Projects financed with external resources": these instruments will be financed entirely with external funds and designed or implemented to complement and expand IICA's actions under this

MTP; In annex B we present the actual current projects with external funds, others being negotiated do not appear as still in phase of negotiation or of search for counterpart funds.

iii. "Rapid Response Actions (RRA)": these are designed to respond to specific requests and opportunities that arise in a country or in a group of countries prompted by political, social or economic changes, environmental emergencies or other emerging issues; At least one is being prepared to address local requests of technical cooperation.

iv. The "Technical Cooperation Fund" (FonCT): this mechanism will be used to finance preinvestment initiatives, formulate projects aimed at securing external resources and to mobilize new financial resources complementary to the Regular Fund.

The four flagship projects are:

- 1. Competitiveness and sustainability of agricultural chains for food security
- 2. Inclusion in agriculture and rural territories
- 3. Resilience and comprehensive risk management in agriculture
- 4. Productivity and sustainability of family agriculture for food security and the rural economy

Externally Funded Projects

At this moment this office handles a project of research with funds from CARDI and is part of 2 regional projects with the European Union, Agriculture Policy Program (APP) and Sanitary and Phytosanitary Project (SPS).

IV. Follow-up, monitoring, and evaluation of the ICS.

As stated in the 2014-2018 MTP, IICA will focus its work in a result oriented management approach, in which it will be necessary to count with a planning, programming, monitoring and solid evaluation, efficient and transparent system.

A special effort will be made in the follow-up and self-evaluation processes carried out at all levels of the Institute to enable the projects, units and personnel of the Institute to make needed adjustments in their plans and activities, in order to ensure that they make a significant contribution to achieving the objectives identified in the MTP. ¹

To achieve the results of the technical cooperation, IICA will have an institutional strategy of monitoring and comprehensive evaluation of the Flagship Projects (FP), the Rapid Response Actions (RRA), pre investment initiatives of the Technical Cooperation Fund (FonTC) and externally funded projects, all within the IICA Country Strategies (ICS).

All action developed in the operation of the Institute embodied in the present ICS, will be strengthened through the integration of all of its technical and administrative services; the strengthening of the institutional culture of results-driven management; the improvement of monitoring and evaluation processes; and transparency and accountability in all of its activities.

¹ Pg. 56 2014-2018 MTP

The Institute will count with the adjusted Unified Institutional Management System (SUGI) to the new needs of technical cooperation model, which will allow tracking, monitoring and evaluating of IICA's actions in the countries and the hemisphere.

Monitoring and evaluation will contribute to a better understanding of the progress of the Institute, it will play an important role in accountability, the reporting and transparency of their actions, and identify potential obstacles to prevent compliance and adjustments required in the different strategies in a spirit of coordination and responsibility. e. Accountability

IICA is an organization committed to accountability. The Institute's work is organized conceptually as a chain of outcomes actions; with this structure, IICA can faithfully honor its commitment to accountability and to keeping its principals informed of what has actually been achieved compared with what was initially planned.²

All of the Institute's technical cooperation actions will be carried out in strict compliance with its internal regulations and its fundamental values, particularly those of transparency and accountability.³

² Pg. 16 2014- 2018 MTP

³ Pg. 33 2014-2018 MTP

ANNEX A

Name of Project	Development of mark	etable varieties of sweet pota	toes and cassava	
Instrument of Action that finances it	Flagship Project	Externally funded project	Rapid Response Action	Technical cooperation Fund
	Competitiveness and sustainability of agricultural chains	CARDI		
Background	Root and food crops t levels are easily satur for consumer friendly Some food crops hav value for residents wi to commercializing improvements in qual is consistent with a fe The Department of A management. Interver to allow early plantin automated grading, w The DOA plans to su North Andros to assis areas of the country. Of the roots and tuber of root crops produce significant acreages o In both Abaco and An Internet for purchasin Technical information have established cont seeds, chemicals and Andros also sells agri cooperative than from Due to financial const production efficiency	ypically have an "inferior goo rated, particularly if production or "ready-to-eat" foods. we potential in extra-regional if th cultural roots in the tropics selected areas of their oper lity and presentation to stimul easible operation. Agriculture (DOA) of the MA ntions include variety trials to g of seedlings, construction of reighing and packaging machi- abstitute locally grown cassav- st farmers in extending the she est, sweet potato is the most sig ed, in an effort to satisfy incre- of sweet potato have been plar ndros, the resident extension of ng seeds and searching for infi- n is also obtained from the Un- acts. The Mennonite commu- other agricultural supplies and cultural supplies to the farmir n other sources. traints, many farmers are unal traints, many farmers are unal	d" status. Markets which have experienced a general incr in does not keep pace with the strong dynamic of consur- markets where they are considered as being exotic or ha . These commodities can be studied along their entire ch- ations. If inroads can be made in the extra regiona ate domestic demand, then a critical level of sales may b MR has a program for improved seed availability and expand the harvest period, provision of greenhouses to fa f modern post-harvest facilities in North Andros and the nes for onions. The for imported cassava. A washing and waxing facility elf life of locally grown cassava. The facility will be dup nificant, followed by cassava. There has been an increase asing local demand for those commodities. In both Aba ted using improved varieties. Sufficers are called upon for technical advice and informate formation is becoming prevalent, particularly among yo iversity of Florida and other institutions in Florida, where nity supports agriculture in North Andros through the sa d the rental of tractor equipment. The agricultural Coope ag community. Some feel they obtain better prices from the ple to make use of the modern technology available and the al projects is nearly impossible, as bank loans are difficu	rease in income mer preference ave a nostalgic ain with a view 1 markets and e achieved that improved crop rmers on credit e installation of was erected in licated in other e in the amount aco and Andros cion. Use of the bunger farmers. e some farmers le of improved erative in North the agricultural his leads to low lt to obtain and
	the interest rates are u Some are engaged in submitted takes too l	sually considered to be high. other activities to supplemen ong and constrains the farme	Farmers tend to save to provide input for the following cr t their farming income. Payment from the packing hous r's ability to finance further production. This also occu	opping season. ses for produce urs on the local

	market in New Providence where farmers make private arrangements with vendors and retail food stores for the sale of their crops.											
Issues in the country	Agronomic practices of farmers are not adequate, that include management of pests and diseases, post-harvest handling and transportation damages, quality and presentation of the products. There is a need to add value by freezing and processing.											
General objective	The purpose of the project is to choose and obtain planting material for promising varieties of sweet potato and cassava, prepare trial crops in chosen islands, follow up its management and results and once knowing which are the ones with best results, train farmers and make planting materials accessible to farmers.											
Baseline	The Department of Agriculture (DOA) of the MAMR has a program for improved seed availability and improved crop management. Interventions include variety trials to expand the harvest period, provision of greenhouses to farmers on credit to allow early planting of seedlings, construction of modern post-harvest facilities in North Andros and the installation of automated grading, weighing and packaging machines for onions.											
	The DOA plans to substitute loc North Andros to assist farmers in areas of the country.	cally grown cassava for imported cass in extending the shelf life of locally gro	ava. A washing and waxing facility own cassava. The facility will be dup	was erected in licated in other								
Issues (Indicator)	Current level	Proposed goal	Component/Result	;								
Number of varieties	0	3	ER - 1. At least 3 varieties of each and material obtained.	crop selected								
Number of islands where varieties are tested	0	3	ER – 2. The respective varieties te 3 islands each.	sted in at least								
Number of farmers participating in trial crops and training	0	60	ER – 3. At least 60 farmers trained with planting material.	and provided								
Number of reports at the end of the project	0	1	ER – 5. Final report containing det results obtained in the research.	ails of the								
Structure of the Project	4 expected results											
Component 1												
Specific objective 1	The purpose of the project is to choose and obtain planting material for promising varieties of sweet potato and cassava, prepare trial crops in chosen islands, follow up its management and results and once knowing which are the ones with best results, train farmers and make planting materials accessible to farmers.											
Results	Contribution to which the result relates	Products and services (indicator)	Partners and counterparts	Date of achievement								
ER - 1. At least 3 varieties of each crop selected and material obtained.	result relates (indicator) achievement I Crops growing of 3 varieties of each cassava and sweet potatoes CARDI, Ministry of Agriculture December, 2015											
ER – 2. The respective varieties tested in at least 3 islands each	I	Islands chosen and assistance provided	CARDI, Ministry of Agriculture	December, 2015								

ER – 3. At least 60 farmers trained and provided with	I			Reports of training to 60 or plus farmers			ARDI, Mi griculture	January, 2016	
planting material.									
ER – 4. Final	I		O	ne report made		С	ARDI, Mi	nistry of	June, 2016
report						Α	griculture	-	
containing									
details of the									
results obtained									
in the research.	TICLE 1 111	1	•		<u> </u>		• 1. 1	1 6.1 5	• • • •
strategy	Project Manager ha	as been ag	greed wi	th the MOA ar	of the Ministry id he works in c	or Agr oordina	tion with the Off	ice Staff at IICA	-Bahamas.
Resources					MOE				
Operations Cash	Flow Statement								
Itom	TOTAL			Year 1				Year 2	
		1 st Qtr	2 nd Qtr	3 rd Qtr	4 th Qtr	1 st Qtr	2 nd Qtr	3 rd Qtr	4 th Qtr
Inflows:									
External Revenue (IICA/CARDI)		11000	4500	2200	2700	3200	2200	2200	2000
Total Inflows		11000	5400	3100	3600	4100	3100	3100	2900
Outflows:									
Unit/Country Expected Results									
Expected Results Code:									
Priority Action/Activity									
Purchased Fixed/ Capital Assets (8000 series)	0	0	0	0	0	0	0	0	0
Personnel - Professional/ Retired Staff (4000 series)	0								
	0								
Personnel - Technical/Support Staff (4100 series)									
Casual Labour (4200 series)	0								
Professional Services (4300 series)	0								
General Office & Admin (5000 series)	1000	200	200	100	100	100	100	100	100
Info and Communication Services (5100 & 5200 series)	600	200	200	0	0	0	0	0	200
Workshops, Training & Meetings (5300 series)	3200	2500	100	100	100	100	100	100	100

Board Meetings (54000 series)	0								
Local Travel (6000 series)	13000	2000	1500	1000	1500	2000	1500	1500	2000
Foreign Travel (6100 series)	2200	2200							
Motor Vehicle Costs (6200 series)	0								
Materials, Supplies and Services (7000 series)	10000	3000	2500	1000	1000	1000	500	500	500
Field Station & Lab Expenses (8100 series)	0								
Subtotal	30000	10100	4500	2200	2700	3200	2200	2200	2900
Total Outflows									
NET CASHFLOW		900	900	900	900	900	900	900	0

ANNEX B

Name of	Improvement of past	ure and farm management of	small ruminant in semi-inter	nsive systems	
Project					
					-
Instrument of	Flagship Project	Externally funded	Rapid Res	ponse Action	Technical
Action that		project			cooperation
finances it					Fund
		CARDI			
Dealranaund	Animal food availab	ility and fundamental good	form monogoment montions	continues to be a major issue	a in the small
Dackground	minimal feed availab	only and fundamental good	tailli management practices	d intensively managed nest	uros and have
	incomparated new re-	access proven technologies f	a quality maat meduation i	a numeric main main and the of	00% of amoring
	incorporated new res	search-proven technologies i	or quanty meat production i		0% of grazing
	lands are local shru	os and grass with no improv	ed management. Erratic feed	a and limited feed during dr	ought or stress
	periods, and low pro	fits have contributed to decre	asing the number of produce	ers. There is an abundance of	land available
	to grow forage crops	and produce shage for small	ruminants when pasture land	a is not available. In many ca	ises farmers do
	not have the training	to utilize the forage that grow	ws wild and cannot identify	high quality plants that can l	be used to feed
	their animals.				
	Stocking density as	it correlates to animal nutriti	on is not a concept that is a	prosticad in the rearing of an	all mininanta
	stocking density as	armos On the island of New	Dravidance where stacking	density land and availability	and running the second
	forega is an issue or	iamals on allowed to grade the	Providence where stocking	utilisity, failu and availability	y of nutritional
	the putritional value	of the forege being consume	t However some small run	ainant formars in New Provid	anaa faad thair
	animala hassar'a an	in as a supplement and in ser	1. However, some sman run	mant farmers in New Flovid	ence reeu men
	animals brewer's gra	ini as a supplement and in sor	ne cases as a reeu.		
Issues in the	Small Ruminant farr	ners in the Bahamas do not go	enerally practice good farm r	nanagement of their animals.	This includes
country	identification of anir	nals separation of animals ha	sed on sex age and stage of	production and establishing a	n animal
country	nutrition regime as it	relates to stocking density. F	armers on the island of New	Providence have very limited	l land space. If
	it can be demonstrate	ed that improving the aforeme	entioned current practices car	n decrease their cost of produc	ction and
	improve overall anin	nal health, more farmers in th	e Bahamas may pay more at	tention to these fundamental r	practices.
	1		<i></i>	1	
General	The purpose of the p	roject is to implement demon	stration sites to showcase go	od pasture establishment and	provide
objective	training to demonstra	ate improved herd manageme	nt, an animal nutrition progra	amme and farm recordkeeping	g in semi-
	intensive small rumi	nant enterprises.			
Baseline	The Gladstone Road	l Agriculture Centre (GRAC) under the Department of	agriculture has the infrastruc	ture and has a
	framework to demon	nstrate good pasture establish	ment, recordkeeping and he	erd management. These asse	ts can be built
	upon at GRAC in ad	dition to establishing demons	tration sites in collaboration	with private farmers	
Issues	Current le	vel I	Proposed goal	Component/Re	sult
(Indicator)					
Number of	0		3	ER - 1. To establish demon	stration sites
demonstration				for pasture management, he	erd
sites				management and recordkee	ping and
				silage production in New P	rovidence.

Number of farmers trained	0			25		ER – 2. Train farmers in good herd management practices, management in animal nutrition techniques including making nutrient blocks and silage production				
Number of reports	0				1		ER – 3. Fina each demons training	l report on the stration site and	progress of l farmer	
Component 1										
Specific objective 1	The purpose of the intensive system.	ne project is	demonst	rate good pas	sture establishr	nent, farm rec	ordkeeping and	d herd manager	ment in a semi-	
Results	Contribution to the result rel	which ates	Pr	oducts and s	services (indic	ator)	Partne counte	ers and erparts	Date of achievemen t	
ER. – 1. To establish demonstration sites for pasture management, herd management and recordkeeping and silage production in New Providence.	Ι	E p n d	Establish roperly nanagem nanagem lemonstr	ed 3 pasture tagged and lent practice: lent and b ation site.	sites, herds fro separated bas s for small ru reeding plan	m 3 farmers ed on good minants. 1 for each	CARDI, Dej Agriculture	partment of	February, 2015	
ER – 2. Train farmers in good herd management practices, management in animal nutrition techniques including making nutrient blocks and silage	I	A P a n	At least 2 Practices nd silage nade	5 farmers tra for small rt e production.	ined in Good M uminants, anin At least 5 nu	Management nal nutrition trient blocks	CARDI, M Agriculture	Ainistry of	February, 2015	
production ER – 3. Final report on the progress of each demonstration site and farmer training	I 1 Final report on implementation of demonstration sites and farmer training						CARDI, M Agriculture	Ainistry of	December, 2015	
Implementatio n strategy	IICA has established a committee with a member of the Ministry of Agriculture, BAIC and private sector farmers association Bahamas Livestock and agricultural Farmers Association (BLAFA) and the Bahamas Agribusiness Cooperative (BABCO). An agriculture officer from the Department of Agriculture will co-manage the project with IICA Bahamas National Technical Specialist.									
Resources					MOE					
Operations Cash	Flow Statement									
Item	TOTAL	1 st Qtr	2 nd	Year 1 3 rd Qtr	4 th Qtr	1 st Qtr	Ye 2 nd Qtr	ear 2 3 rd Qtr	4 th Qtr	
Inflows:			Qir					~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	-	

External Revenue (IICA/CARDI)									
Total Inflows									
Outflows:									
Unit/Country Expected Results									
Expected Results Code:									
Priority Action/Activity									
Purchased Fixed/ Capital Assets (8000 series)	0	0	0	0	0	0	0	0	0
Personnel - Professional/ Retired Staff (4000 series)	0								
Personnel - Technical/Suppor t Staff (4100 series)	\$1000			\$500		\$500			
Casual Labour (4200 series)	\$1000	\$100		\$300		\$600			
Professional Services (4300 series)	0								
General Office & Admin (5000 series)	\$300	\$150				\$150			
Info and Communication Services (5100 & 5200 series)									
Workshops, Training & Meetings (5300 series)	\$2000	\$1000				\$1000			
Board Meetings (54000 series)									
Local Travel (6000 series)									
Foreign Travel (6100 series)	\$700	\$700							
Motor Vehicle Costs (6200 series)	0								
Materials, Supplies and Services (7000 series)	\$5000			\$2500	\$2500				
Field Station & Lab Expenses (8100 series)	\$2000			\$2000					
Subtotal	\$12,000								
Total Outflows									
NET CASHFLOW									

ANNEX C

Name of Project	STRENGHTEN	ING AGROTOURISM	LINKAGES IN THE COMMONWEALTH OF THE BAHAMAS	5
Instrument of Action that finances it	Flagship Project	Externally funded project	Rapid Response Action	Technical cooperation Fund
Background	The project is Agricultural and aimed at helping of the dynamism	an initiative of The B Industrial Corporation to create and strengthe of touristic sector at the	ahamas Hotel Association (BHA), Bahamas Ministry of Tour (BAIC) and the Inter-American Institute for Cooperation on Agr n better linkages between tourism and agriculture and in order to e same time of diversifying the offer of products and services.	ism, Bahamas iculture (IICA) take advantage
Issues in the country	The Bahamas is innovation and t if there are any s tourism is most of escalating cost of dramatic decline Department of S The need for div embraced as a vi Bahamas. While saturated 'sun, so sector. Linking t revitalize and in For decades, The becomes more c offer new culture engaged in agro- to engage in for profitability in th would be consid awareness about sector as well as	plagued with the domin he inability to maintain verious 'external shocks' evident from experience of fuel in 2008, and a loce in tourism receipts, that tatistics, 2008) ersification is not a nov- table diversification strate agritourism is still a for ea, and sand market', wh he strongest performing ject resources for both size e Bahamas has pursued competitive globally, the al experiences for visito -tourism and have seen p Bahamians with high in he sector. Agro-tourism the agricultural sector i to increase awareness of	ance of one traditional sector, tourism combined with the lack of a domestic demand for food security, which has the potential for eco or setbacks in mainstream tourism (Hepburn, 2010). Such a possites in the terrorist attacks in America on September 11th, coupled worming worldwide economic crisis well into the 21st century have of t could have an equally detrimental long-term impact. (Ministry of el concept for policy makers in The Bahamas, yet agri-tourism ha tegy. This dissertation examines agri-tourism as a viable policy operation of tourism, it offers a new venue and different dimension to the ile stimulating interest into another sector of the economy, the agrist sector of the country (tourism) to another (agriculture) has the ab ectors. It raditional tourism and its economy has benefited. As the mass tote Ministry of Tourism is seeking to promote alternative forms of to rs to The Bahamas. Some farms, both subsistence and commercial positive results of their efforts. The agricultural sector can be a charguts and low yields. Seeking alternative income sources for farms can be one such income source, particularly for Family Island farm a can also be promoted to Bahamians, not just visitors to the country of the challenges the sector faces, inclusive of climate change.	economic onomic crisis ble drop in vith the caused a f Tourism s not been otion for The e already riculture ility to urism market ourism that can l, are already allenging one can increase ms, which try, to increase ved in the
General objective	Support hotels a diversify the offe	nd agricultural producer er of products and servio	rs/processors and rural communities in The Bahamas to improve li ces for tourism.	nkages and
Baseline	The purpose of t Support the deve tourism in rural huge disconnect evident by the sp of crop forecast,	he project is to support elopment of rural busine territories as well as ser- between agricultural pr poilage of produce and i established linkages wi	agribusiness and commerce linking demand to offer of agricultura iss based on products differentiation, linking agriculture, natural re- vice and assistance provision to the agricultural sector. Additional oducts needed in the tourism industry and what is produced on far nherent loss that farmers incur seasonally because the lack of plan th hotels and knowledge in processing. A forum need to be create	l products. esources and ly, there is a m. The is ning in terms ed where

	stakeholders in agriculture and tourism can sit across a table to discuss the needs of the tourism industry that can be met										
	by the local farmers.										
Issues (Indicator)	Curren	tt level	Proposed goal	Component/Result							
1. Numb er of studies at national and per island levels of vearly demand	0	,	3 studies	ER - 1. a) Improve relationship between and tourism sector.	commercial n agriculture						
2. Number of National baselines and microbial mapping of specific pathogens	0		1	ER – 2.Assure quali safety in the food ch	ity and food nain.						
3. Number of certified public and private personnel in HACCP and related certifications	0		20	ER – 3. Train and c conscience in qualit and food safety and	reate y assurance certifications.						
4. Number of Farmers and processors trained in GMPs and GAPs	0		60	ER – 4. Promote or agriculture, good ag practices and other environmental and s practices.	ganic rricultural good social						
5.Number of entrepreneurs trained in agro- eco-tourism	0		30	ER - 5. Strength and coordinate agro actions with princip	ening alliances -ecotourism al stakeholders						
6.Number of committees formed	0		1	ER – 6 Strengtheni producers associatio dialogue tables betw and hotels.	ng agriculture ons and veen producers						
7.Number agri- tourism models being implemented	0		3	ER- 7. Support inno like greenhouses, th farm visits, etc.	wative projects ematic routes,						
8. Number of farmers trained	0		30	ER- 8. Schedule tra technical assistance and organizations in communities	ining and for producers a selected rural						
Structure of the Project	8 expected results										
Component 1											
Specific objectives	1. 2. 3. 4.	Organization of Improve comme Develop new pro Assure quality an	yearly demand and offer studies at national a rcial relationship between both sectors. oducts and services to profit tourism and agri nd food safety in the food chain	nd per island levels. culture.							
Results	Contribution to which the result relates	Prod	ucts and services (indicator)	Partners and counterparts	Date of achievement						

ER - 1.)	Ι	One report	Ministry of	December,
Impro		•	Agriculture,	2015
ve commercial			Ministry of	
relationship			Tourism.	
between			Rahamas	
agriculture and			Agricultural and	
tourism soctor			Agriculturar anu	
tourisin sector.				
•			Corporation	
			(BAIC) farmers	
			associations and	
			cooperatives.	
ER – 2.Assure		1 microbial baseline study	Ministry of	December
quality and food			Agriculture,	2015
safety in the food			Ministry of	
chain.			Tourism,	
			Bahamas	
			Agricultural and	
			Industrial	
			Corporation	
			(DAIC) formore	
			(DAIC) larmers	
			associations and	
			cooperatives	
	_			
ER – 3. Train and	I	1 HACCP certification workshop	Ministry of	December,
create conscience			Agriculture,	2015
in quality		2 selected food safety certifications	Ministry of	
assurance and			Tourism,	
food safety and			Bahamas	
certifications.			Agricultural and	
			Industrial	
			Corporation	
			(BAIC) formors	
			(DAIC) farmers	
			associations and	
			cooperatives.	
ED 4 Decements	T	1 modular in Cool Aminutum Dratics and Cool	M	D I
ER – 4. Promote	1	I workshop in Good Agriculture Practices and Good	Ministry of	December,
organic		Management Practices and organic farming pratices	Agriculture,	2015
agriculture, good			Ministry of	
agricultural			Tourism,	
practices and			Bahamas	
other good			Agricultural and	
environmental			Industrial	
and social			Corporation	
practices.			(BAIC) farmers	
-			associations and	
			cooperatives.	
ER – 5	Т	10 persons trained through OAS/IICA online agro-ecotourism	Ministry of	May. 2016
Strong		course	Agriculture	111ay, 2010
thoming cliling		COULSC	Agriculture,	
thening alliances			winistry of	
and coordinate			Tourism,	
agro-ecotourism			Bahamas	
actions with			Agricultural and	
principal			Industrial	
stakeholders			Corporation	
			(BAIC) farmers	
			associations and	
			cooperatives.	
			- soperation	
ER - 6	I	1 established committee comprised of stakeholders from the	Ministry of	May. 2016
Strengthening		Tourism and Agriculture sectors	Agriculturo	111ay, 2010
ogrioulture		rounsin and Agriculture sectors	Agriculur,	
agriculture	1		ivininsury OI	

producers associations and dialogue tables between producers and hotels.						Tour Baha Agrie Indu Corp (BAI assoc coop	ism, imas cultura strial ooration C) fan ciations erative	l and n rmers and s.				
ER- 7. Support innovative projects like greenhouses, thematic routes, farm visits, etc.		1 study report Bahamas	study report showing potential agritourism models in The Bahamas Ministry of Tourism, Bahamas Agricultural and Industrial Corporation (BAIC) farmers associations and cooperatives.									
ER- 8. Schedule training and technical assistance for producers and organizations in selected rural communities.		2 workshops in and farm mana	n agribusiness an gement	Mini Agrie Mini Tour Baha Agrie Indu Corp (BAI assoc coop	Agriculture, Ministry of Tourism, Bahamas Agricultural and Industrial Corporation (BAIC) farmers associations and cooperatives.		May, 2016					
Implementation strategy	IICA has establish project manager wi	ed a committee	with a member of to work with the 0	f the Ministry Office Staff at	of Agriculture an IICA-Bahamas a	nd a me nd relev	ember o vant sta	f the Pr keholde	ivate sector. A			
Resources				MOE								
Operations Cash F	low Statement	1				1						
Item	TOTAL		Yea	r 1		1 st	2nd	Year 2	2			
		1 st Qtr	2 nd Qtr	3 rd Qtr	4 th Qtr	Qtr	Qtr	Qtr	4 th Qtr			
External Revenue (IICA/CARDI)												
Total Inflows												
Outflows:												
Unit/Country Expected Results												
Expected Results Code:												
Priority Action/Activity												
Purchased Fixed/ Capital Assets (8000 series)	0											
1												

Retired Staff (4000 series)					
Personnel - Technical/Support Staff (4100 series)	0				
Casual Labour (4200 series)	\$1000				
Professional Services (4300 series)	\$3000				
General Office & Admin (5000 series)	\$1500				
Info and Communication Services (5100 & 5200 series)	\$3000				
Workshops, Training & Meetings (5300 series)	\$10,000				
Board Meetings (54000 series)	\$5000				
Local Travel (6000 series)	\$6000				
Foreign Travel (6100 series)	\$2500				
Motor Vehicle Costs (6200 series)	\$2000				
Materials, Supplies and Services (7000 series)	\$1800				
Field Station & Lab Expenses (8100 series)					
Subtotal	<mark>\$35,800</mark>				
Total Outflows					
NET CASHFLOW					

ANNEX D

Name of Project	NATIONAL BACKYARD FARM & COMMUNITY GARDEN INITIATIVE										
Instrument of Action that finances it	Flagship Project	Externally funded project	Ra	Technical cooperation Fund							
Background											
Issues in the country	According to a report pre prices make many foods i choices and subsequent ir	pared for the World naccessible to indiv nerease of non-com	Food Summit, The B riduals of lower socio nunicable diseases	ahamas imports 90% of its food. The res economic status, often resulting in unhea	ulting high lthy lifestyles						
General objective	To contribute to food sect	urity in The Bahama	as.								
Baseline	Analysis, monitoring and security	nalysis, monitoring and dissemination of policies and information on the situation of and outlook for food and nutritional curity									
Issues (Indicator)	Current level	Prop	osed goal	Component/Result							
Number of studies	0		1	ER - 1. Base line studies							
Number of Demonstration sites	0		3	ER – 2. Demonstration centers							
Number of School Gardens	0		5	ER – 3School Gardens							
Number of Backyard Farms	0		8	ER – 4. Backyard farms							
Number of Publications	0		1	ER – 5. Nutrition and health							
Number of Committees			1	ER – 6. Continuity and sustainability							
Structure of the Project	6 expected results										
Component 1											
Specific objective 1	a) To establish m	nethodologies, plans	and infrastructures to	o implement Back Yard Farming							

	b) Integrate and train communities into Back Yard Farming											
	c) Contrib	ute to in	nprover	nent in nut	rition and health a	mong	population involved	d				
	, 		1			U						
	d) Increase	e and div	versify 1	food option	is in households							
Results	Contribution to v	vhich	Prod	lucts and s	ervices (indicato	r)	Partners and c	ounterparts	Date of			
FR-11 Base	the result relat	tes	1 ren	ort			Ministry of Agri	culture Urban	achievement December			
line studies	1		rieport]	Renewal and BAIC	2015				
ER – 2.	Ι		3 den	3 demonstration sites			Ministry of Agri	culture, Urban	December,			
Demonstration							Renewal, PAHO ai	nd BAIC	2015			
contens												
ER – 3. School	I	I 5 new school garden Ministry of Agriculture, Urban December										
Gardens				U]	Renewal, PAHO a	nd BAIC	2015			
ER – 4.	I		8 bac	k yard farn	ns	1	Ministry of Agriculture, Urban June, 201					
Backyaru farms					1	kenewai, PAHO al	III BAIC					
ER – 5.	I		1	publication	on Bahami	an l	Ministry of Agriculture, Urban June, 2016					
health			produ	iction	ann ann 100	bu i	Keneva, Philo and Brite					
ER – 6. Continuity and			1 stee	ering comn	nttee for gardens	1	Ministry of Agri Renewal, PAHO a	culture, Urban nd BAIC	December. 2016			
sustainability												
Implementation strategy	IICA has establishe Project Manager ha	ed a cor is been a	nmittee	with a me with the M	ember of the Mini	stry o in coo	f Agriculture and a rdination with the C	member of the Pr	ivate sector. A -Bahamas			
strategy	1 ojeet manager ne	is even t	.greed						Dununusi			
Resources					MO	E						
Operations Cash	Flow Statement											
				Year 1				Year 2				
Item	TOTAL	1 st	2^{nd}	3 rd	4 th Ofr	1 st	2 nd Otr	3 rd Ofr	4 th Otr			
Telle		Qtr	Qtr	Qtr	. Qu	Qtr	- 24	5 Qu				
Inflows:												
External Revenue												
Total Inflows												
Outflows:												
Unit/Country Expected Results												
Expected Results												
Code: Priority												
Action/Activity	0	0	0	0	0	0	0	0				
Purchased Fixed/ Capital Assets	0	U	0	U	0	0	0	0	0			
(8000 series)												
Personnel - Professional/	\$5000											
Retired Staff (4000 series)												

	0	1	1			
Personnel - Technical/Support Staff (4100 series)	Ŭ					
Casual Labour (4200 series)	\$4000					
Professional Services (4300 series)	0					
General Office & Admin (5000 series)	\$1000					
Info and Communication Services (5100 & 5200 series)	\$3000					
Workshops, Training & Meetings (5300 series)	\$15000					
Board Meetings (54000 series)						
Local Travel (6000 series)	\$8000					
Foreign Travel (6100 series)	\$4000					
Motor Vehicle Costs (6200 series)	\$2000					
Materials, Supplies and Services (7000 series)	\$2500					
Field Station & Lab Expenses (8100 series)						
Subtotal	<mark>\$44,500</mark>					
Total Outflows						
NET CASHFLOW						

ANNEX E

Name of Project	Cost effective wooden s	tructured greenhouse	construction with ir	wasive species plant species.								
Instrument of Action that finances it	Flagship Project	Externally funded project	R	apid Response Action	Technical cooperation Fund							
Background	On many of the islands the excessive alkalinity agriculture namely gree area. There are islands li of produce, it is all boug Casuarina is a hardy fals reproduces at an accele growing Bahamian nativ stems producing mats o the Casuarina produces the Casuarina an extrem is a major contributor to country as its root systen or simply allowing the s	the excessive alkalinity of the soil as a result of that limestone rock and limited availability of fresh water. Protected agriculture namely greenhouse production can be a great alternative to grow large amounts of produce in a small controlled area. There are islands like Inagua that rely on the mail boat system to bring fresh vegetables every 8 days. Upon the arrival of produce, it is all bought in the stores in an average of three hours. The main industry in Inagua is salt harvesting. Casuarina is a hardy false pine the litters the beaches of the Bahamas. Being salt and drought tolerant, it is fast growing and reproduces at an accelerated rate. This enables the Casuarina to become established very quickly, replacing the slow growing Bahamian native flora. Further to its growing patterns, the Casuarina covers the surrounding soil with its modified stems producing mats of brown "needles" which further inhibit the growth of other plants. All of these properties make the Casuarina an extremely aggressive invader and once established it is extremely hard to remove. Hence, the Casuarina is a major contributor to biodiversity loss in the Bahamas. It has also caused the deterioration of sand dunes throughout the country as its root system does not hold onto the sand as well as the native flora. Therefore falling over easily during storms or simply allowing the sand to wash away directly from underneath the plant.										
Issues in the country	The use of Casuarina as agricultural production	the major material for on those rural islands	or greenhouse produ- where fresh fruits a	ction will lower cost of material and can a nd vegetable are a luxury.	id in increase							
General objective	General: Encourage low	v-cost greenhouse cor	struction and protec	ted agriculture methods.								
Baseline												
Issues (Indicator)	Current level	Ргор	oosed goal	Component/Result								
Number of greenhouses	0		4	ER - 1. Demonstrate low-cost greenho throughout the islands	uses							
Number of farmers trained	0		60	ER – 2. Train farmers in low-cost gree construction	enhouse							
Number of islands reached	0		4	ER – 3. Conduct workshops each each Bahamas	region of the							
Number of reports	0		1	ER – 4. Prepare final report for distrib	ution							
Structure of the Project	4 expected results											

Component 1												
Specific	a) To train	farmers	s in the	constructio	on of wooden gree	nhou	ises with invasive pla	nt species.				
objective 1	b) To train	farmers	s in Goo	od Agricult	ural Practices (GA	APS)	in greenhouse produc	ction.				
	c) To train	farmers	s in irri§	gation tech	niques related to g	greenł	house production					
Results	Contribution to the result rela	which tes	Proc	ducts and s	services (indicato	r)	Partners and c	ounterparts	Date of achievement			
ER - 1.	I	I 4 greenhouses constructed Ministry of Agriculture Bahamas Dec National Trust Exume 201										
low-cost							Foundation	si, Exuma	2015			
greenhouses												
throughout the												
isiands												
ER – 2. Train	I	I 60 farmers trained in construction Ministry of Agriculture Bahamas December,										
farmers in low-			use o	of low-cost	greenhouses		National Tru	st, Exuma	2015			
cost greenhouse							Foundation					
construction												
ER – 3. Conduct	I	I 1 greenhouse in each of the 4 Ministry of Agriculture Bahamas December, regions of the Bahamas National Trust, Exuma 2015										
region of the		regions of the Bahamas National Trust, Exuma 2015										
Bahamas												
ER – 4. Prepare	I		1 fi	inal repor	ts of results a	nd	Ministry of Agricu	ılture Bahamas	June, 2016			
final report for			work	shops			National Tru	st, Exuma				
distribution							Foundation					
Implementation	IICA will liaise w	IICA will liaise with the Bahamas National Trust and the Department of Forestry as to the best woor to be used for										
strategy	construction of the	greenho	ouses.									
Resources					MO	E						
Operations Cash	Flow Statement											
-				Year 1				Year 2				
Item	TOTAL	1 st Qtr	2 nd Qtr	3 rd Qtr	4 th Qtr	1 st Qti	tr 2 nd Qtr	3 rd Qtr	4 th Qtr			
Inflows:												
External Revenue (IICA/CARDI)												
Total Inflows												
Outflows:												
Unit/Country Expected Results												
Expected Results Code:												
Priority Action/Activity												
Purchased Fixed/	0											
Capital Assets (8000 series)												
Personnel -	\$5000											
Retired Staff												
(4000 series)												

	\$6000	1 1		1		1
Personnel -						
Technical/Support						
Staff (4100 series)						
Casual Labour	\$10,000					
(4200 series)						
Professional	\$8000					
Services (4300						
series)						
General Office &	\$3000					
Admin (5000						
series)						
Info and	\$4000					
Communication						
Services (5100 &						
5200 series) Workshops	\$20,000					
Training &	\$20,000					
Meetings (5300						
series)						
Board Meetings						
(54000 series)						
Local Travel	\$15,000					
(6000 series)	¢ 1000					
Foreign Travel	\$4000					
(0100 series)						
Motor Venicle						
series)						
Materials	\$15,000					
Supplies and	\$15,000					
Services (7000						
series)						
Field Station &			 			
Lab Expenses						
(8100 series)						
Subtotal	<mark>\$90,000</mark>					
Total Outflows						
NET				_		
CASHFLOW						

ANNEX F

Name of Project	Sustainable Man	agement of Water	Resources for Agricultural Production in The Bahama	15								
Instrument of Action that finances it	Flagship Project	Externally funded project	Rapid Response Action	Technical cooperation Fund								
Background			I									
Issues in the country	The Bahamas is a rain and reverse of limestone rock of water from the is commercial, hou Southern islands evaporation rate lacking in the isla action in preparin project's stakeho	an archipelagic nat osmosis of salt wat f which the islands land of Andros for sehold or farm use suffer from scarce is higher and the w ands of The Bahan ng the islands for a lder consultation w	ion that has no rivers or freshwater lakes. The main s ter, which is a costly process. The freshwater from th are built and is collected in underground water lenses the last 40 years because there is not sufficient freshw . Improper water extraction has led to saltwater intru- water supplies more so than the Northern and Centra vater lens is more difficult to access. Education in wa has. Sustainable water management was recently iden- dapting to climate change during the recent IICA-IFA with smallholder rural producers.	ource of freshwate the rain percolates the s. New Providence water to sustain the sion in many instar l islands because the ttershed management tified as a priority in D climate-smart a	r is from the arough the has barged island for nces. The ne water ent is sorely issue for griculture							
General objective	To train farmers improved agricul	To train farmers in various methods of water harvesting and promote the sustainable use of water for irrigation and improved agricultural production.										
Baseline												
Issues (Indicator)	Current lev	vel	Proposed goal	Compone	nt/Result							
Number of farmers trained	0		20	ER - 1. Farmers irrigation manag	trained in gement							
Number of roof-top water catchment models	0		5	ER – 2. Urban c trained in water protection and v catchment techr	communities shed water niques							
Number of water catchment irrigation systems installed	0		5	ER – 3. Water c irrigation syster	atchment ns							
Number of islands reached			3	ER - 4. Farmers irrigation manage	trained in gement							
Structure of the Project	4 expected result	S		, - ,								

Component 1												
Specific objective 1	a) To promote appropriate smallholder on-farm irrigation technologies and train farmers and extension staff in the efficient planning, operation and maintenance of the recommended irrigation technologies.											
	b) where the p	To dem ublic co	onstrat	e rooftoj sensitize	o water h ed about i	arvesting and estab rooftop water harves	lish a water-harvesting f ting for domestic and agr	acility at a schoo icultural use.	l or homestead			
	c) Provide demonstration equipment for water harvesting.											
Results	Contribu which the relat	ition to e result tes	t		Prod	lucts and services (indicator)	Partners and counterparts	Date of achievement			
ER - 1. Farmers trained in irrigation management	I		30	0				Ministry of Agriculture	February, 2016			
ER – 2. Urban communities trained in watershed protection and water catchment techniques	I		5					Ministry of Agriculture	February, 2016			
ER – 3. Water catchment irrigation systems	I	I 5 demonstration systems Ministry of Agriculture 2016										
Implementation strategy	IICA Bahar governmen	nas wil t as to t	l selecte he best	ed the isl way forv	ands in n vard.	nost dire need of wat	er harvesting training and	consul with stake	holders and the			
Resources						MOE	2					
Operations Cash	Flow Statem	ent										
Itom	TOTAL		Y	ear 1			Year 2	_				
Item	TOTAL	1 st Qtr	2 nd Qtr	3 rd Qtr	4 th Qtr	1 st Qtr	2 nd Qtr	3 rd Qtr	4 th Qtr			
Inflows:												
External Revenue (IICA/CARDI)												
Total Inflows												
Outflows:												
Unit/Country Expected Results												
Expected Results Code:												
Priority Action/Activity												
Purchased Fixed/ Capital Assets (8000 series)	0											
Personnel - Professional/ Retired Staff (4000 series)	\$2000											

	\$5000	1	1		
Personnel - Technical/Support Staff (4100 series)	40000				
Casual Labour (4200 series)	\$2000				
Professional Services (4300 series)	\$4000				
General Office & Admin (5000 series)	\$1000				
Info and Communication Services (5100 & 5200 series)	\$3000				
Workshops, Training & Meetings (5300 series)	\$10,000				
Board Meetings (54000 series)					
Local Travel (6000 series)	\$7000				
Foreign Travel (6100 series)	\$4000				
Motor Vehicle Costs (6200 series)					
Materials, Supplies and Services (7000 series)	\$4000				
Field Station & Lab Expenses (8100 series)					
Subtotal	<mark>\$38,000</mark>				
Total Outflows					
NET CASHFLOW					

ANNEX F

Name of Project	Sustainable production of fish and vegetables with sustainable use of water and fertilization										
Instrument of Action that finances it	Flagship Externally Project funded project		Rapid Response Ad	Technical cooperation Fund							
Background	The Bahamas is an archipelagic nation that has no rivers or freshwater lakes. The main source of fresh water is from the rain and reverse osmosis of salt water, which is a costly process. The Southern islands suffer from scarce water supplies more so than the Northern and Central island because the water evaporation rate is higher and the water lens is more difficult to access. This island have new and growing resort projects but depend entirely from imported vegetables brought from Nassau at a very high cost and reduced freshness.										
Issues in the country	Equally because of water and soil problems, the chances of farming are reduce, being aquaponics a possibility to produce with sustainability and high quality, generation new sources of income and enriching experience of tourists, including agro-tourism activities.										
General objective	Develop capacities in southern islands to produce fresh vegetables in aquaponics systems to supply local hotels and population.										
Baseline											
Issues (Indicator)	Current lev	rel	Proposed goal	Component/	Result						
Number of islands reached	0		3	ER - 1.Planning of sys coordination with com	tems and munities.						
Number of persons trained	0		30	ER – 2. Construction a System in each island.	nd training of						
Number of technical follow-up visits	0		3	ER – 3. Follow up of i operations	nitial						
Structure of the Project	3 Expected result	s									
Component 1											
Specific objective 1	Specific:										

	a) To promote appropriate smallholder on-farm aquaponics systems and train farmers and extension staff in the efficient planning, construction, operation and maintenance of the systems.										
	b) To do a hands-on training in construction of demonstration aquaponics systems in each of the islands										
Results	Contribution to Products and services (indicator) which the result relates						rtners ai unterpai	Date of achievement			
ER - 1. Planning of systems and coordination with communities.	I		2	2 aquaponics design plan			and BA	December, 2015			
ER – 2. Construction and training of System in each island.	I		3 tr	3 aquaponics systems built and at least 30 persons trained			and BA	June, 2016			
ER – 3. Follow up of initial operations	I		1	monitor	nonitoring and evaluation report			BAIC and BAMSI			
Implementation strategy	IICA will coordinate with Local government on the islands selected.										
Resources	MOE										
Operations Cash I	Flow Statem	ent				I					
Item	TOTAL	1 st Otr	2 nd Otr	3 rd Otr	Year 1 4 th Qtr	1 st Otr	2 nd Otr	Year 2 3 rd Otr	4 th Qtr		
Inflows:		Qu	Qu	Qu		Qu	Qu	Qu			
External Revenue (IICA/CARDI)											
Total Inflows											
Outflows:											
Unit/Country Expected Results											
Expected Results Code:											
Priority Action/Activity											
Purchased Fixed/ Capital Assets (8000 series)	0										
Personnel - Professional/ Retired Staff (4000 series)	0										
Personnel - Technical/Support Staff (4100 series)	\$5000										
Casual Labour (4200 series)	\$4000										
Professional Services (4300 series)	\$4000										

General Office & Admin (5000 series)	\$2000				
Info and Communication Services (5100 & 5200 series)					
Workshops, Training & Meetings (5300 series)	\$15,000				
Board Meetings (54000 series)					
Local Travel (6000 series)	\$10,000				
Foreign Travel (6100 series)					
Motor Vehicle Costs (6200 series)					
Materials, Supplies and Services (7000 series)	\$20,000				
Field Station & Lab Expenses (8100 series)					
Subtotal	<mark>\$60,000</mark>				
Total Outflows					
NET CASHFLOW					