# BUSINESS OPPORTUNITIES IN THE AGRICULTURE AND AGRIFOOD SECTOR



## INTRODUCTION

- Agriculture and agrifood industries are part of the major primary resources and processing sectors which can contribute to the growth of Brunei's Gross Domestic Product (GDP), exports and Economic Diversification. As of 2020, the agriculture industry contributed 0.6% towards the country's GDP.
- Through our strategic plan, the agriculture and agrifood sector output is expected to increase exponentially with the livestock and crops industries as the leading contributors, followed by the agrifood processing industry.
- To further develop the agriculture and agrifood sector, particularly livestock and crops industries, the Department of Agriculture and Agrifood has taken efforts to encourage the participation of local and foreign direct investment (FDI) as well as to increase the domestic and export market access.

# VISION & MISSION DEPARTMENT OF AGRICULTURE AND AGRIFOOD

### **VISION**

Towards Increasing Production on Agriculture and Agrifood Based Industries through Increasing Productivity And High Technology Oriented For Domestic and Export Market

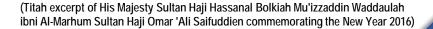
### **MISSION**

To Stimulate The Growth of Agriculture and Agrifood-Based Industries through High-Technology and Export, Encouraging Progressive Involvement of Local and Foreign Direct Investment, while focusing on High-Yield Production inclusive of the Primary and Processing Industries

## STRATEGIC THRUST

#### Growth

"...in the last few years, the growth of Gross Domestic Product (GDP) has slowed down which requires us to double domestic production, especially in the non-oil and gas sector."



#### **Export**

"...It is important to remember that having a small domestic market is not an excuse for slow production growth and every company, whether private or government-owned, should be capable of trading/exporting their products and services outside the country."

(Titah excerpt of His Majesty Sultan Haji Hassanal Bolkiah Mu'izzaddin Waddaulah ibni Al-Marhum Sultan Haji Omar 'Ali Saifuddien commemorating the New Year 2016)



#### **Productivity**

"...the country's economic growth can be stimulated by giving priority to research and the use of latest technology."

(Titah excerpt of His Majesty Sultan Haji Hassanal Bolkiah Mu'izzaddin Waddaulah ibni Al-Marhum Sultan Haji Omar 'Ali Saifuddien commemorating the New Year 2016)



#### Sustainable

The implementation of strategies and programs to increase the output of these sectors must be sustainable. In order to reduce dependency on government funding, 'public-private-partnership', participation of local and foreign investors and other appropriate approaches will be explored.

### STRATEGIC OBJECTIVES



To enhance the growth of agriculture and agrifood output continuously every year so as to contribute to the GDP growth, export growth and could lead to economic diversification;



To increase productivity of agriculture and agrifood industries continuously through the use of technology, modern techniques and encouraging the active participation of local and foreign direct investors (FDI);

## STRATEGIC OBJECTIVE (CONTINUED)



To reduce the dependence on imports of agricultural based products, allow the imports of raw materials for the purpose of generating the agrifood processing industry growth;



To reduce dependency on government expenditure in the implementation of strategies and programs while increasing output growth in agriculture and agrifood sector by other methodologies such as Public Private Partnership (PPP), joint ventures and others;

### STRATEGIC OBJECTIVE (CONTINUED)



To create the investment opportunities and local businesses in the agriculture and agrifood sector which will ultimately contribute to the creation of local employment;



To implement preventive measures and controls in order to protect the agriculture and agrifood industries from plant diseases, pests and animal diseases for the sustainability of industries concerned;

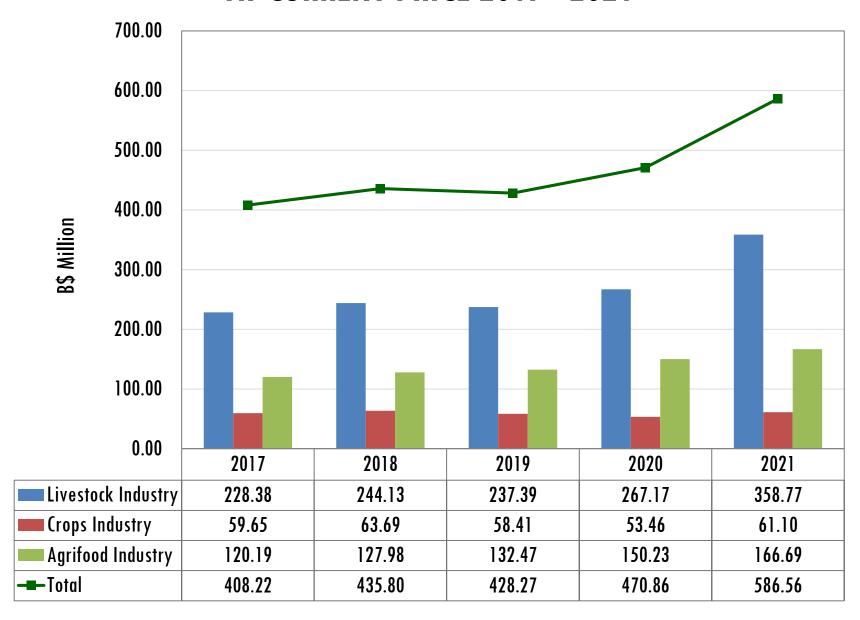
### STRATEGIC OBJECTIVE (CONTINUED)



To ensure quality assurance and safety of the food industry based on agriculture for the welfare of the people

# **CURRENT STATUS**

# AGRICULTURE AND AGRIFOOD INDUSTRIES GROSS OUTPUT TREND AT CURRENT PRICE 2017 - 2021



### **LIVESTOCK INDUSTRY DEVELOPMENT 2021**

	LOCAL		IMPORT		TOTAL	SELF SUFFICIENCY	
COMMODITY	Quantity (Unit)	Retail Value (\$ Million)	Quantity (Unit)	CIF Value (\$ Million)	Quantity (Unit)	%	
Broilers (mt)	30,587.09	139.73	223.91	0.69	30,811.00	99.27%	
Eggs (Million eggs)	172.74	28.91	0.83	0.11	173.57	99.52%	
Beef – Buffalo & Cattle (mt)	3,825.13	83.95	685.67	6.78	4,510.80	84.80%	
Goat & Sheep (mt)	131.69	3.688	460.15	4.65	591.84	22.25%	
Day old chicks (Million heads)	18.99	22.79	2.60	2.08	21.60	87.95%	
Fertilized eggs (Million eggs)	12.01	9.61	8.63	5.36	20.64	58.19%	
Miscellaneous Livestock (mt)	734.46	3.80	n/a	n/a	n/a	n/a	
Livestock Feed (mt)	72,676.26	66.28	98,678.17	57.35	171,354.44	42.41%	
TOTAL		358.77		77.02			

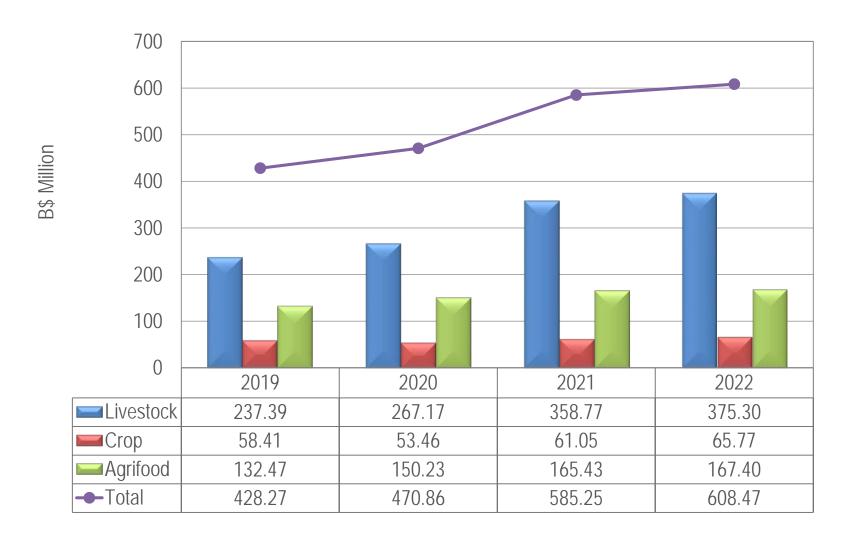
Note: CIF – Cost, Insurance, Freight

### **CROPS INDUSTRY DEVELOPMENT 2021**

	LOCAL		IMPORT		TOTAL		
COMMODITY	Quantity (Unit)	Retail Value (\$ Million)	Quantity (Unit)	CIF Value (\$ Million)	QUANTITY (UNIT)	SELF SUFFICIENCY	
Tropical Vegetables (mt)	7,486.10	25.06	10,756.71	19.84	11,261.47	41.04%	
Tropical Fruits (mt)	6,273.87	19.99	15,075.08	37.88	14,960.50	29.39%	
Paddy (mt)	4,110.75	6.58	0.00	0.00	n/a	n/a	
Miscellaneaous crops (mt)	1,619.92	4.88	16,311.63	19.98	17,929.64	9.03%	
Ornamental Plants (plants)	818,757	4.55	209,402	0.63	1,023,079	79.63%	
Cut Flowers (Cuts)	51,883	0.04	1,205,756	1.16	1,257,639	4.13%	
TOTAL		61.10		79.50			

Note: CIF – Cost, Insurance, Freight Rice self-sufficiency – 9.11%

# TARGETS AND TRAJECTORIES 2019 - 2022



# FOCUS INDUSTRIES

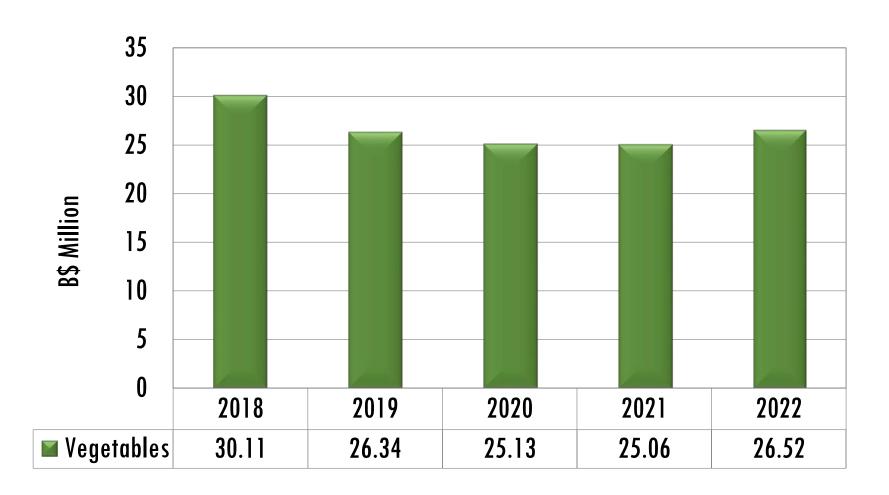


## STATUS OF VEGETABLE INDUSTRY 2021

Total Consumption	18,242.8	mt
Tropical	11,264.1	mt
Temperate	6,978.7	mt
Est. Retail Value (B\$)	\$60.77	million
Per Capita Consumption	42.4	kg
Local Production	7,486.10	mt
Retail Value (B\$)	\$25.06	million
Percentage Production	41.0	%
Tropical Vegetables	66.5	%
Area Developed	1,259.8	ha
No. of Entrepreneurs	672	entrepreneurs

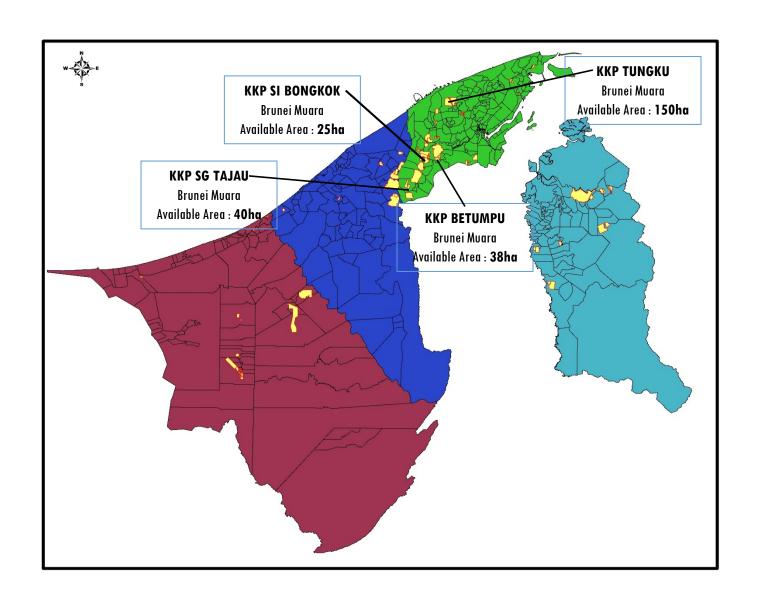
Import	10,756.7	mt
CIF Value (B\$)	\$19.84	million
Est. Retail Value (B\$)	\$35.71	million
Percentage Import	59.0	%
Average Retail Price (B\$)	\$1.69 – \$17.16	/kg
Average CIF Price (B\$)		
Tropical	\$0.33 - \$12.77	/kg
Temperate	\$0.93 - \$32.20	/kg
Brunei Population Size	429,999	people

# VEGETABLE INDUSTRY TARGETS 2018 - 2022



Note: 2018 - 2021 actual data

### **VEGETABLE INDUSTRY AREAS**



# FOCUS & TARGET TECHNOLOGY VEGETABLE INDUSTRY













Photos sources:

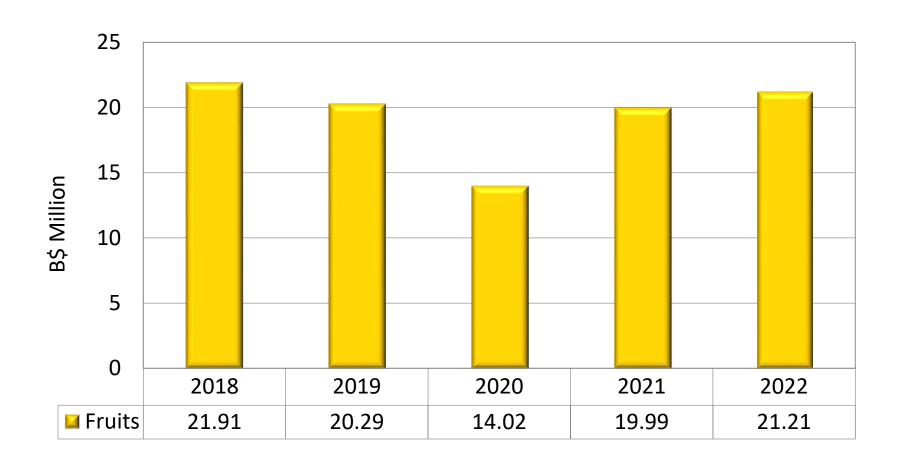


## **STATUS OF FRUITS INDUSTRY 2021**

Total Consumption	21,348.9	mt
Tropical	14,960.7	mt
Temperate	6,388.3	mt
Est. Retail Value (B\$)	\$81.58	million
Per Capita Consumption	49.6	kg
Local Production	6,273.9	mt
Retail Value (B\$)	\$19.99	million
Percentage Production	29.4	%
Tropical Vegetables	41.9	%
Area Developed	3,423	ha
No. of Entrepreneurs	2,449	entrepreneurs

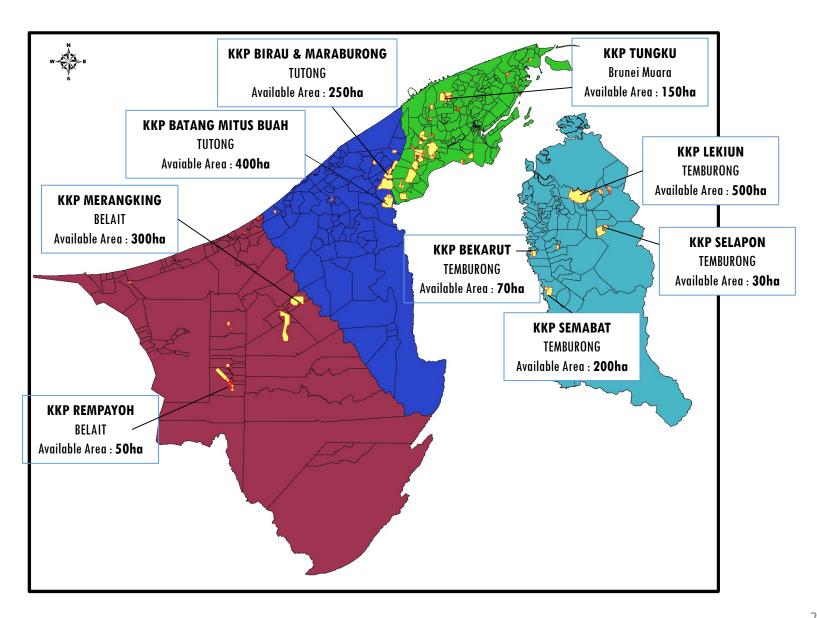
Import	15,075.1	mt
CIF Value (B\$)	\$37.88	million
Est. Retail Value (B\$)	\$61.59	million
Percentage Import	70.6	%
Average Retail Price (B\$)	\$0.52 – \$11.34	/kg
Average CIF Price (B\$)		
Tropical	\$0.33 - \$27.11	/kg
Temperate	\$1.82 - \$44.56	/kg
Brunei Population Size	429,999	people

# FRUITS INDUSTRY TARGETS 2018 - 2022



Note: 2018 - 2021 actual data

### FRUITS INDUSTRY AREAS



# FOCUS & TARGET TECHNOLOGY FRUITS INDUSTRY





### STATUS OF FLORICULTURE INDUSTRY 2021

#### **Ornamental Plants**

**Total Consumption** 1,028,159 plants Est. Retail Value (B\$) \$5.56 million

Local Production818,757 plantsRetail Value (B\$)\$4.55 millionPercentage Production79.6 %

Total Import209,402 plantsCIF Value (B\$)\$0.63 millionEst. Retail Value (B\$)\$1.01 millionPercentage Import20.4 %

Average Retail Price (B\$) \$2.67 – \$20.26 /plant Average CIF Price (B\$) \$0.01 – \$1,418.35 /plant

#### **Cut Flowers**

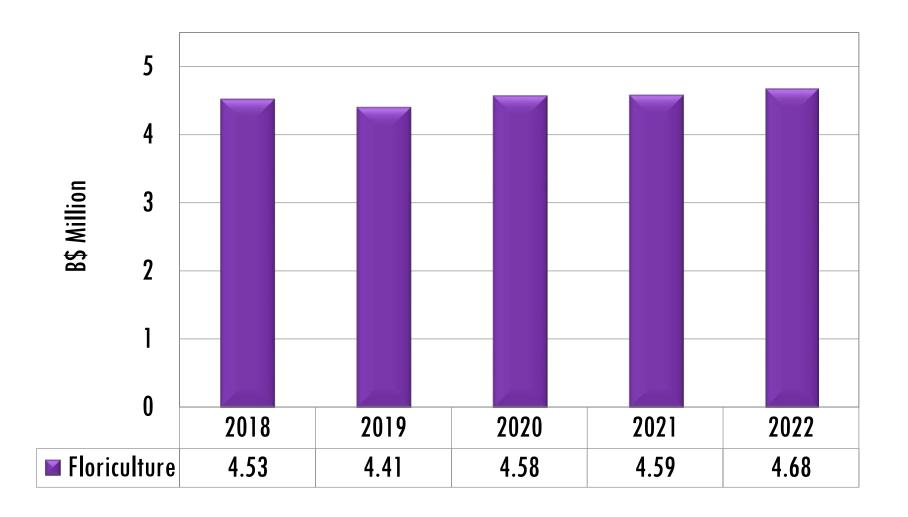
**Total Consumption** 1,257,639 cuts
Est. Retail Value (B\$) \$1.90 million

Local Production51,883 cutsRetail Value (B\$)\$0.04 millionPercentage Production4.13 %

Total Import 1,205,756 cuts
CIF Value (B\$) \$1.16 million
Est. Retail Value (B\$) \$1.86 million
Import (%) 95.9 %

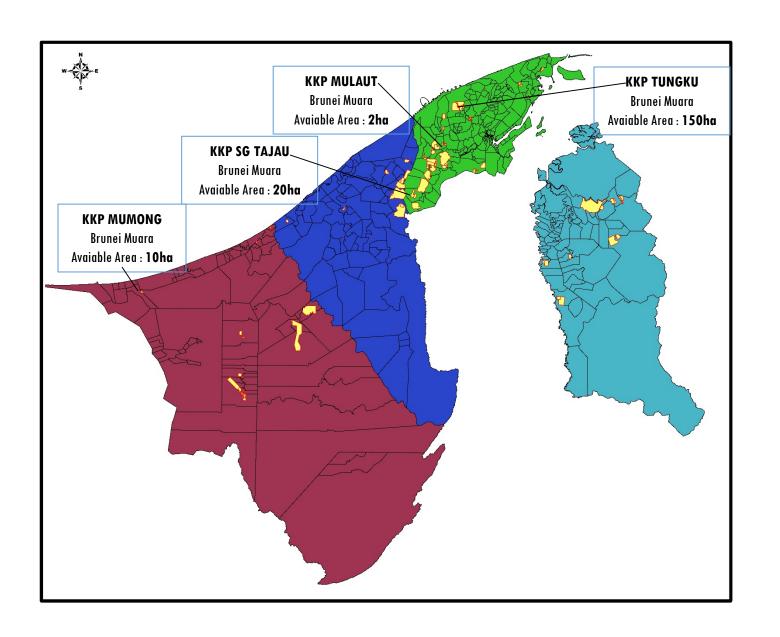
Average Retail Price (B\$) \$0.74 – \$1.00 /cut Average CIF Price (B\$) \$0.14 – \$49.00 /cut

# FLORICULTURE INDUSTRY TARGETS 2018 - 2022



Note: 2018 - 2021 actual data

### FLORICULTURE INDUSTRY AREAS



# FOCUS & TARGET TECHNOLOGY FLORICULTURE INDUSTRY













### STATUS OF PADDY INDUSTRY 2021

**Total Consumption** 4,110.75 mt

Est. Retail Value (B\$) \$6.58 million

**Local Production** 4,110.75 mt

Retail Value (B\$) \$6.58 million

**Average Retail Price (B\$)** 

Local Paddy Scheme \$1.60 /kg

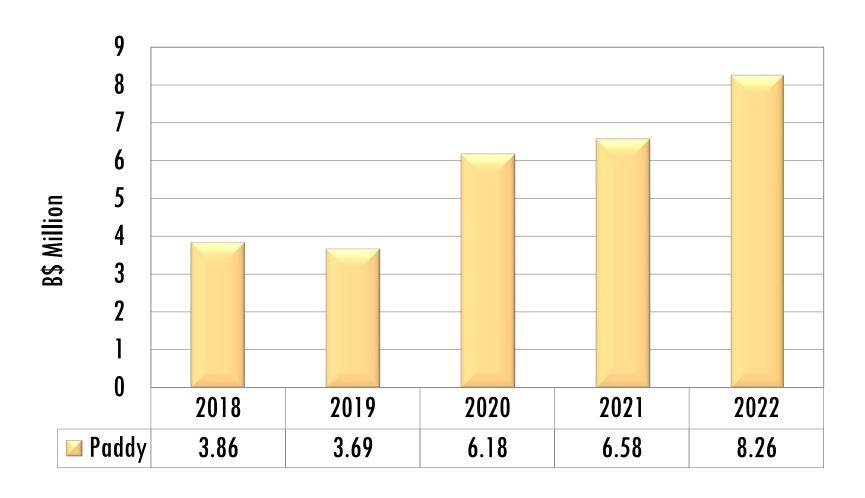
Area Developed 1,124.06 ha

No. of Entrepreneurs 524 Entrepreneurs

Note:

There is no import for paddy

# PADDY INDUSTRY TARGETS 2018 - 2022



Note: 2018 - 2021 actual data

### FOCUS TECHNOLOGY - HIGH YIELDING VARIETIES



2009 - LAILA 1<sup>st</sup> Modern inbred rice variety planted commercially (3mt/ha/season)



**2016 - MRQ76**Variety originated from Malaysia (4-6mt/ha/season)



**2016 - BDR5**Product of DOAA R&D. Targeted for rainfed areas (2mt/ha/season)



**2018 - SEMBADA188**Variety originated from Indonesia. (5-6mt/ha/season)



Nov 2020 - TITIH

Variety selected through collaboration with Sunland

Agritech Pte Ltd. (8.5mt/ha/season)



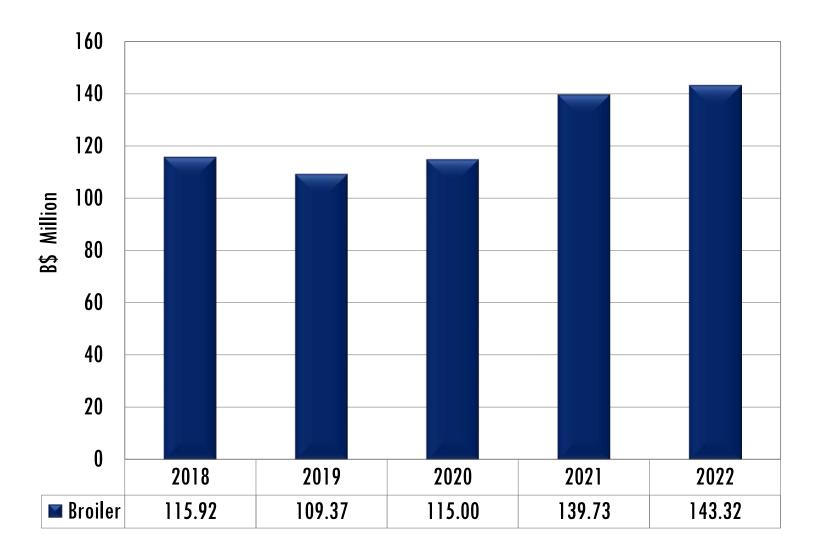
## STATUS OF BROILER INDUSTRY 2021

**Local Production** 

			Retail Value (B\$)	\$139.73	million	
			Percentage Production	99.27	%	
<b>Total Consumption</b> 30,811		mt	(not included processe	(not included processed product)		
Retail Value (B\$) \$140.72		million	·			
Per Capita Consumption (kg/yr) 71.7		kg	Import (Chilled & Frozen) *	223.9	mt	
			CIF Value (B\$)	\$0.69	million	
Total Day Old Chick	21,595,869	birds	Est. Retail Value (B\$)	\$0.99	million	
Local	18,994,032	birds	Percentage Import	0.7	%	
Import	2,601,837	birds				
Price Per Chick (B\$)	1.20	/bird	Average Retail Price (B\$) Whole Chicken	<b>\$</b> 4.57	/kg	
No. of Slaughter Broiler	20,391,393	birds	Average CIF Price (B\$)			
Mortality Rate	8.11	%	Part	\$3.10	/ka	
Growth Period	7	weeks	Further Processed	\$4.42	J	
Average Dressed Weight (kg)	1.50	/bird	Processed	\$3.35	•	
No of Entrepreneurs	54	persons				
			Brunei Population	429,999	persons	

30,587.1 mt

### **BROILER INDUSTRY TARGETS 2018 – 2022**



Note: 2018 - 2021 actual data

# FOCUS & TARGET TECHNOLOGY BROILER INDUSTRY



Automated feeding system



Automated water system



Ventilation fans



Efficient ventilation system



Air-conditioned system with airconditioned wall

## STATUS OF AGRIFOOD INDUSTRY 2021

- This industry contributed B\$166.69 million or 28% of the agriculture and agrifood sector.
- Categorized into:
  - Livestock Process and Value-Added Products
  - Crop Process and Value-Added Products
  - Others (Food and Drink)



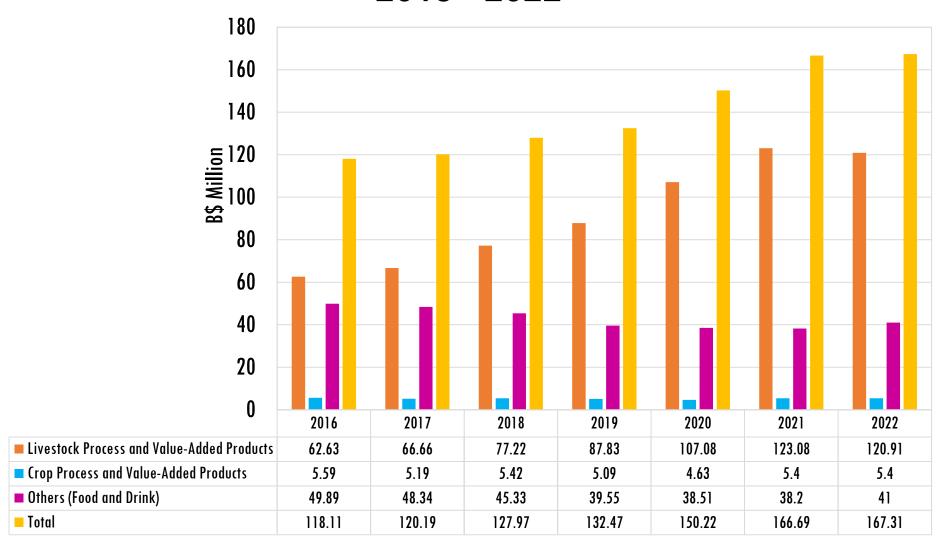








# AGRIFOOD INDUSTRY TARGET 2018 - 2022



Note: 2018 - 2021 actual data

# **FOCUS & TARGET TECHNOLOGY AGRIFOOD INDUSTRY**



Vacuum Packaging



**Horizontal Packaging** Machine



**Dough Sheeter** 



3 Tier Oven



# INITIATIVES

### Land

- Agriculture Pilot Project
- Land Expansion
- Account Managers

#### Labour

- Localisation efforts with relevant agencies
- Recruitment of IBTE graduates
- Streamlining foreign labour application process

### Capital

- Co-Matching schemes
- Contract Farming Program for Youth

### Entrepreneur

- Local Market Facilitation
- Export Market Facilitation
- Corporate governance

### Technology

- Solar technology
- Semi-conventional technology
- Drone technology

# SPIN OFF OPPORTUNITIES IN AGRICULTURE AND AGRIFOOD SECTOR

- Production/Supply of Seeds and Seedlings
- Marketing Services
- Transportation Services
- Fertilizer Supplier
- Machinery Supplier
- Slaughter House
- Waste Disposal
- Hatchery







# THANK YOU

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