

### Assumptions

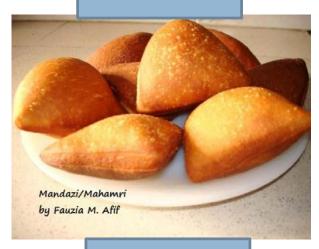
- Area 36 SQM 1 shop normal outlet
- Product Business Model: Puree, Cookies, Cup cake and Mandazi, Bread
- 15 years project-life cycle
- Discount Rate: 15%
- Sensitivity Analysis
- OFSP root price per Kg: 0.25 USD
- OFSP Puree cost per Kg: 0.35 USD
- Maintenance cost 10% of equipment cost
- Sales take off 20%, 30%, 40% 50%, 80%, 90% and 100% within one year time period
- Competitive prices for cookies (10 pc of pack): 0.55 USD per pack; Mandazie: 0.10 USD per pack; cup cake: 0.25 per pc.
- Average size of OFSP root procurement for production of cookies, cup cake and mandazi:
   1500 kg per month; if it is Puree only business then 3000 Kg per month

#### Cookies



0.50 USD

Mandazi



0.10 USD

Cup Cake



0.25 USD







S.No	Investment	
1	Washing bay	
2	Chopping boards	0 6
3	kniefs	marane and
4	Potato Cutter	
5	Disks for Potato Cutter	
6	Steamer	-
7	Puree machine	
8	Work tops	
9	Generator (7 Kva)	
10	Cooling rack	
11	Electronic Weighing scale	
12	Steaming baskets	
13	Chest freezer	
14	Scoops	-
15	vacuum sealer	
16	Fryer	
17	Planetary Mixer	
18	Oven	
19	Baking trys	
20	Refrigerator	h
21	Depositor	-1
22	Pin Roller	_
23	Ingrediant Backets	-
24	Ingrediant Scoops	_
25	Small Weighing Bowls	
26	Large Weighing Bowls	
	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	
1	Office Furniture & equipmen	ts
	<u> </u>	

Set up of Electrical and plumping

Legal documentation

Business consultancy costs

2

3

4









Vacuum sealer



Puree machine





Depositor



Oven

S.No	Indicators
1	Bussiness Development
	Business development officer
2	Marketing Strategy costs
	sampling, advt. trial, product development for customers
3	Professional technical Staffs for production
4	Inputs
	Roots OFSP for cookies
	Puree costs
	Puree costs for Cookies
	Puree costs for Mandazie
	Puree costs for Cup cake
	Other Ingridents
5	Transport
	Small Utility Truck*
6	Permit costs
7	Product certification per year
8	Electricity costs
9	LPG
10	Fuel and lubricants for transport
11	Packing Materials
12	Maintaince Costs for Puree production
13	Maintaince Costs for final production

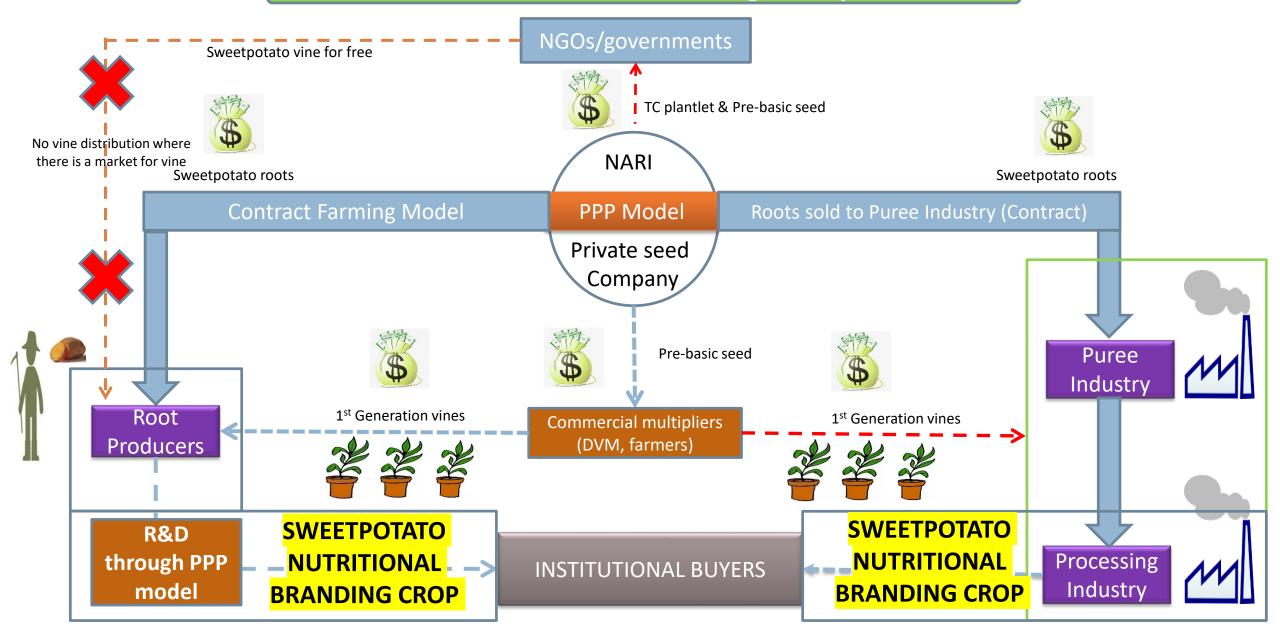
## Financial Viability

		Total Project life-						Discount Payback			
Type of Business Model	Model	Particulars		estment	cycle	NPV	IRR	Rate	period		
Model 1 (No storage)	Model 1	Freezers + no vacuum packaging	\$	37,030	15	\$378,304	54%	12%	1		
	Model 2A		\$	21,330	15	\$162,457	30%	12%	3		
Model 2 (Cold chain storage with no preservatives)	Model 2B	No preservative+vacuum packaging+lots of freezers+more electricity	Ś	42,930	15	\$376,232	<b>&gt;</b> 51%	12%	1		
with no preservatives;	WIOGCI ZB	ciccinicity	<u>,                                    </u>	42,330	15	3370,232	31/0	12/0			
Model 3 (Self-storable puree	Model 3A	Use preservatives+no	\$	18,930	15	\$179,308	32%	12%	3		
with preservatives)	Model 3B	freezers+vacuum packages	\$	40,530	15	\$380,177	53%	12%	1		

# Sensitivity Analysis

	10% Increase in Production & Investmen  Costs				vestment	10% reduces in revenue				10% increase in Production & investment costs & reduction in revenue			
Type of Business Model	Name of Business Model	NPV	IRR	Discount Rate	Payback period	NPV	IRR	Discount Rate	: Payback period	NPV	IRR	Discount Rate	Payback period
Model 1 (No storage)	M1	\$336,434	47%	12%	3	\$298,603	46%	12%	3	\$256,733	40%	12%	3
_	M2A	\$125,359	26%	12%	3	\$109,113	25%	12%	3	\$72,015	20%	12%	3
Model 2 (Cold chain storage with no preservatives)	M2B	\$331,000	45%	12%	3	\$293,377	44%	12%	3	\$248,146	38%	12%	3
Model 3 (Self- storable puree	МЗА	\$143,895	28%	12%	3	\$125,964	27%	12%	3	\$90,551	22%	12%	3
with preservatives	МЗВ	\$335,340	46%	12%	3	\$297,323	45%	12%	3	\$252,486	39%	12%	3

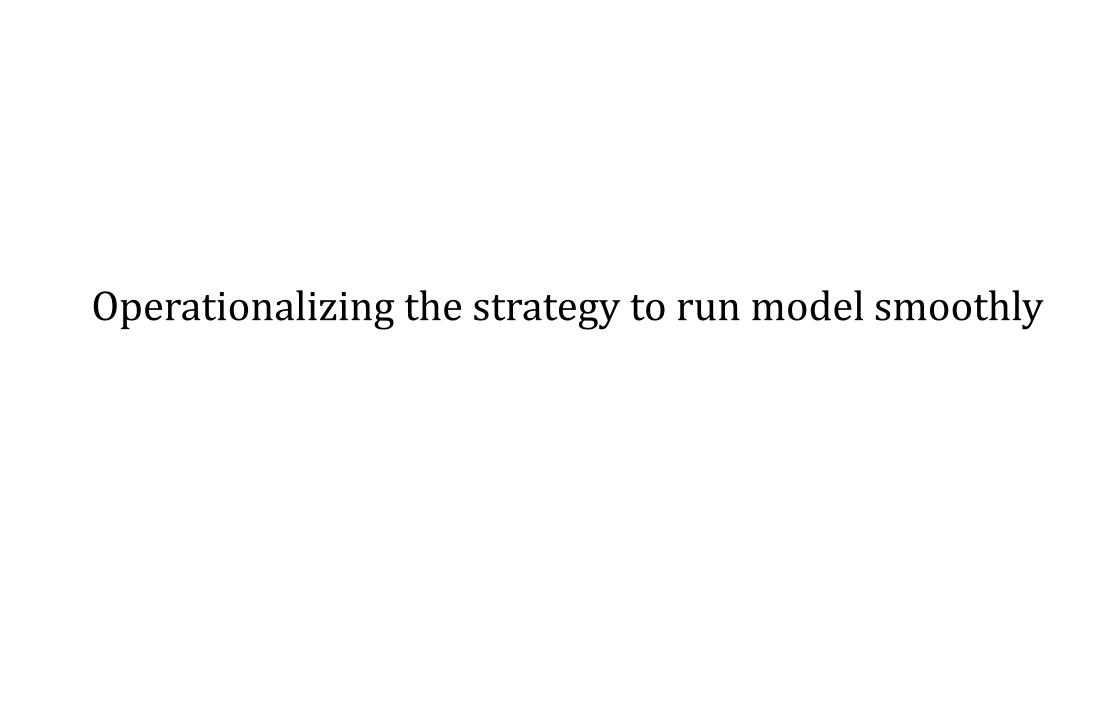
# Sweetpotato Innovative Business Model B2B & B2C Business Model through PPP system



### Spillover effect

- Packaging industry (environment friendly)
- Energy sector (solar)
- Logistic sector
- Health sector

Theory of Change



#### RTB Innovative (R&D) Business Model

iNutri-RTB incubation center (Youth – agribusiness graduates) through Public Private
Partnership (PPP) Model

