


## Added value for nature and mankind

Equitable benefit-sharing for the conservation and sustainable use of biodiversity

**BioInnovation Africa** | 2019-2022

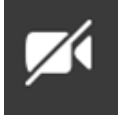


## **BIA Technical Exchange Series**

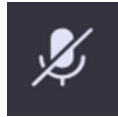
**Session N°5:** Introduction into the valorization of biological and genetic resources

Date: Wednesday, 26/08/2020

# Golden Rules for a great webinar



- Please mute your microphones and turn off your cameras



- If you want to ask a question or have a comment, please type the words “Question” in the chat or raise your hand and you will be given the chance to express yourself later



- Click once to “Raise your hand” – click twice to “Lower your hand”



- If the moderator says your name, please un-mute your mic and ask a precise question / give comment



- Oral inputs only during Q/A after the presentations



# BioInnovation Africa

*-equitable benefit-sharing for the conservation of biodiversity-*

Improving efficiency of  
national ABS frameworks

Supporting conservation &  
sustainable use

Biodiversity- based  
value chains for  
sustainable development

Reflecting biodiversity-based  
value chains in development  
cooperation

Sector-specific manuals to  
guide the ABS and  
permitting processes

Training to support ABS  
contract development and  
support understanding on  
VCs and business models

Online application systems  
to facilitate access  
procedures and follow-up

CNA guidelines for  
improving the impact of  
supply chains on  
sustainability/conservation

Financing mechanisms

Assistance in integrating  
sustainability/conservation  
aspects into supply chains  
(ABS) and corporate  
policies

Technical/legal support to  
joint ventures with African  
partners

Supporting innovations,  
products and value  
creation based on African  
biodiversity for local  
development

Technology transfer

New jobs / improved jobs

Collection and analysis of  
lessons learned / best  
practices

Provide advice on  
approaches, instruments  
and tools

Strengthen internal  
capacity

Possible long-term  
integration into the  
development portfolio



## BIA Capacity Development on: valorization of BR / GR & ABS compliant value chains

- **Step 1: webinar > Govt' partners**  
Introduction into the valorisation of biological and genetic resources; triggering the planning process of step 2 and 3 with Govt' partners
- **Step 2: training > Govt' partners, SMME / NGO / (IPLC) associations/ lawyers**  
combined training on key steps in ABS compliant VCs and related clauses in MAT and other contractual arrangements
- **Step 3: coaching > BIA resource providers (IPLC), SMME, Govt' partners as appropriate**  
in the specific BIA supported partnerships: dismantling of the VC, explanation of relevant VC steps, specific regulatory questions and key value addition points



# Agenda

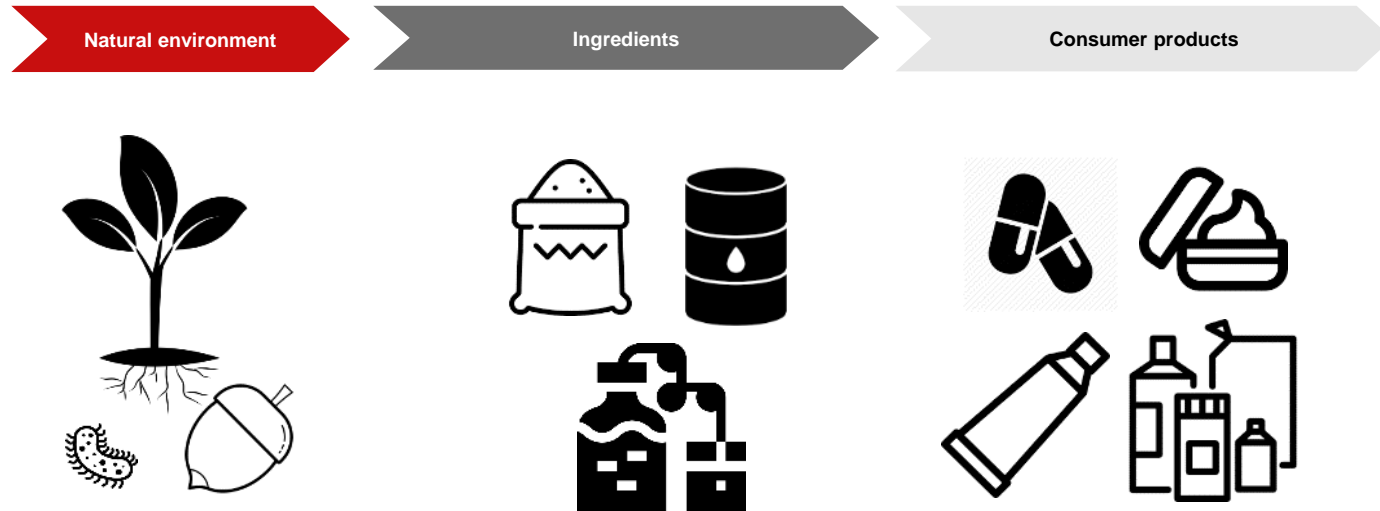
Time		Presenter
10:00	<b>Welcome and Setting the Scene</b> •Embedding into the BIA project •Importance of understanding value chains	<b>Friedrich zur Heide</b> <b>(BIA coordinator)</b>
10:10	<b>Establishing a working value chain - the baobab case</b>	<b>Cyril Lombard</b>
10:25	<b>Questions and reflections on the presentation</b>	<i>All participants</i>
10:30	<b>The complexities of value chains, potential ABS trigger points and the role of regulators</b>	<i>Pierre du Plessis</i>
10:40	<b>Questions and reflections on the presentation</b>	<i>All participants</i>
10:45	<b>BIA support to sustainable value chain partnerships</b>	<i>TBC</i>
10:55	<b>Questions and reflections on the presentation</b>	<i>All participants</i>
11:00	<b>Group discussion</b>	<i>All participants</i>
11:20	<b>The way forward</b>	<b>Friedrich zur Heide</b>
11:25	<b>Information on the next session</b> •Inputs and suggestions by participants	<b>Suhel al-Janabi</b> <b>/ All participants</b>
	<b>Moderation: Suhel al-Janabi (GeoMedia Director)</b>	



## The value chain model



# Biodiversity based value chain model - from the field to the product



# Biodiversity based value chain model - from the field to the product

## Natural environment



## Ingredients



## Consumer products



# Supporting the development of an operation value chain for baobab products in Southern Africa – from the trees to consumer products

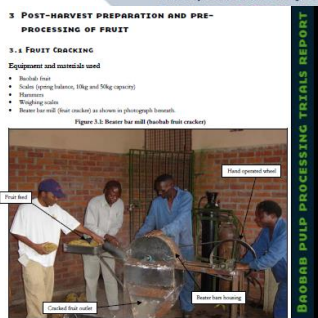
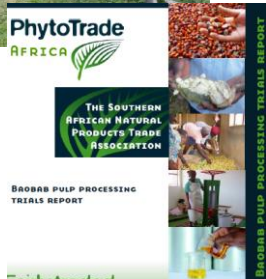
## Going from this situation:

- No viable business supplying the raw material;
- No organised supply chains, no information on cost of production, potential selling prices ;
- Limited information of supply capacity, sustainable harvesting methods;
- No quality or product standards, specifications, shelf life and stability data ;
- No processing technologies to process and add value to raw materials;
- No legal access to high-value global markets;
- No formal market customers, distributors, manufacturers, consumer products, formulations, consumer awareness.

## To this situation:

- Several thousand consumer products and brands around the world now contain baobab ingredients from superfoods, food and dietary supplements, sports/energy/health bars, dairy and related pre- and probiotic products, and the oil is used in hundreds of cosmetic products and brands;
- At least 6 factories providing income to several thousand people in region supporting dozens of rural communities;
- Clear market access status, product standards and specifications ;
- Approximately 600 tonnes baobab fruit pulp powder produced and sold / year, growing 20% / year.

# Supporting the development of an operation value chain for baobab products in Southern Africa – from the trees to consumer products



**PhytoTrade Africa**  
US Low/Reduced GI and High Satiety Products  
Global Products Containing Baobab

Prepared by:  
Mia Naprta, Market Analyst, Leatherhead Food Research

**Leatherhead**  
Food Research

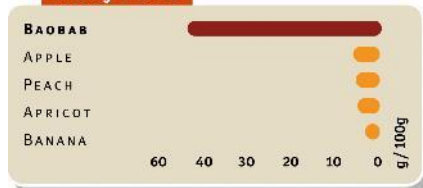


Plate 1. Solutions of BBZW01 prepared at ambient temperatures



Solutions of BBZW01 prepared at 85°C and cooled.

## Dietary Fibre:



## Baobab fruit pulp – Regulatory status

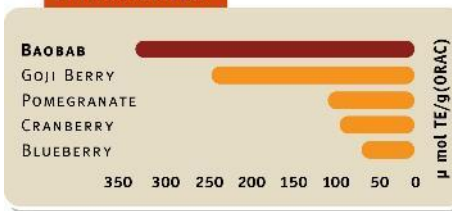


PhytoTrade Africa was the first applicant to get **novel food approval** for Baobab fruit powder and its depectinized version in July 2008. Approval is sought under Novel Foods Regulation (EC) No. 258/97.

## U.S. Food and Drug Administration

PhytoTrade Africa was the first applicant to get **FDA – GRAS notification** for Baobab fruit powder for application in fruit bars and smoothies in July 2009. The notification is sought under 21 CFR 170.36 32 FR 18938; April 17, 1997; Substances Generally Recognized as Safe (GRAS)

## Antioxidants:



# Supporting the development of an operation value chain for baobab products in Southern Africa – from the trees to consumer products

## Main success factors:

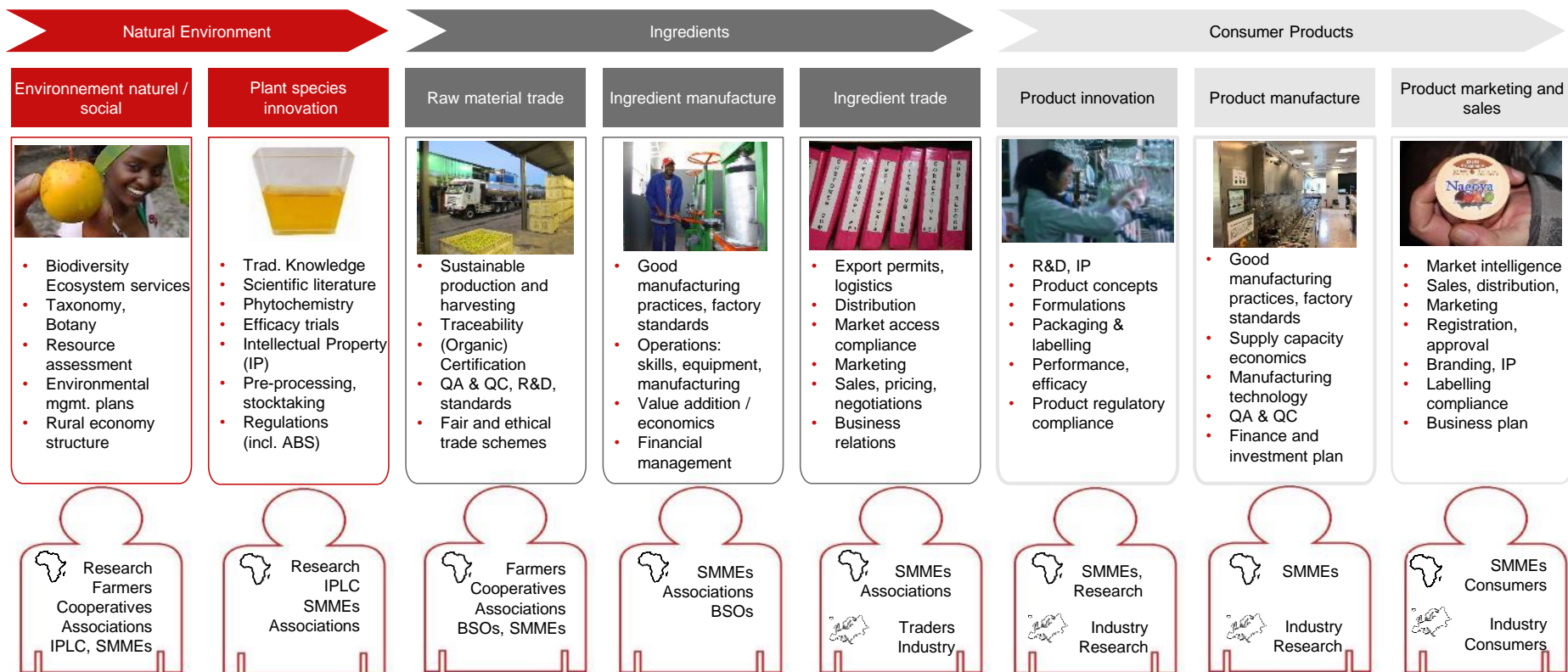
- An organised, structured regional association representing local producers;
- Funding over a realistic period of time = 15 years (although longest specific funding was 3-4 years, these programmes had to be constructed into a coherent series of programmes);
- Focus on markets and what is required for local businesses to access these.

## Main lessons learned:

- Limitations of a slow growing resources such as baobab;
- Limitations to extending value addition into rural communities;
- Can be sustainable but set social and conservation biology M&E system in place at start, not later.



# Biodiversity based value chain model



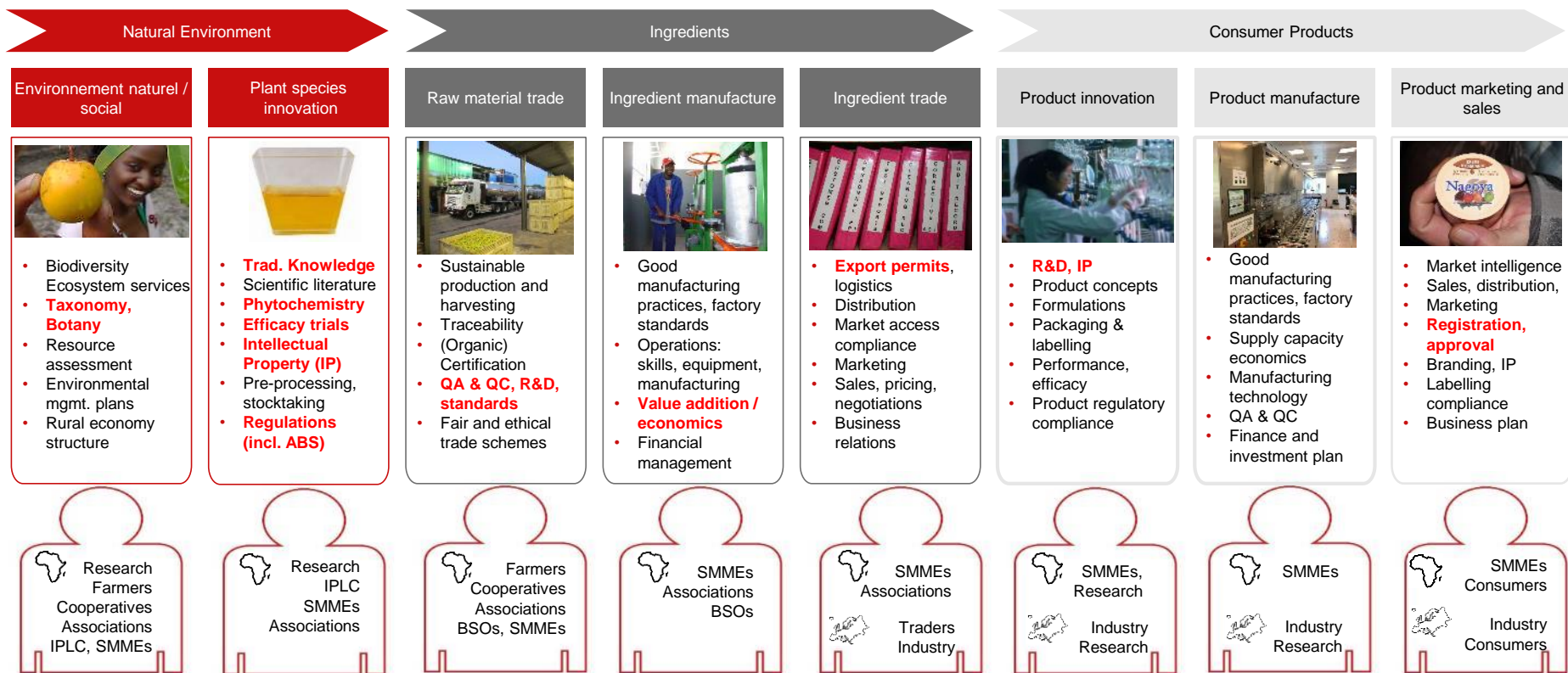


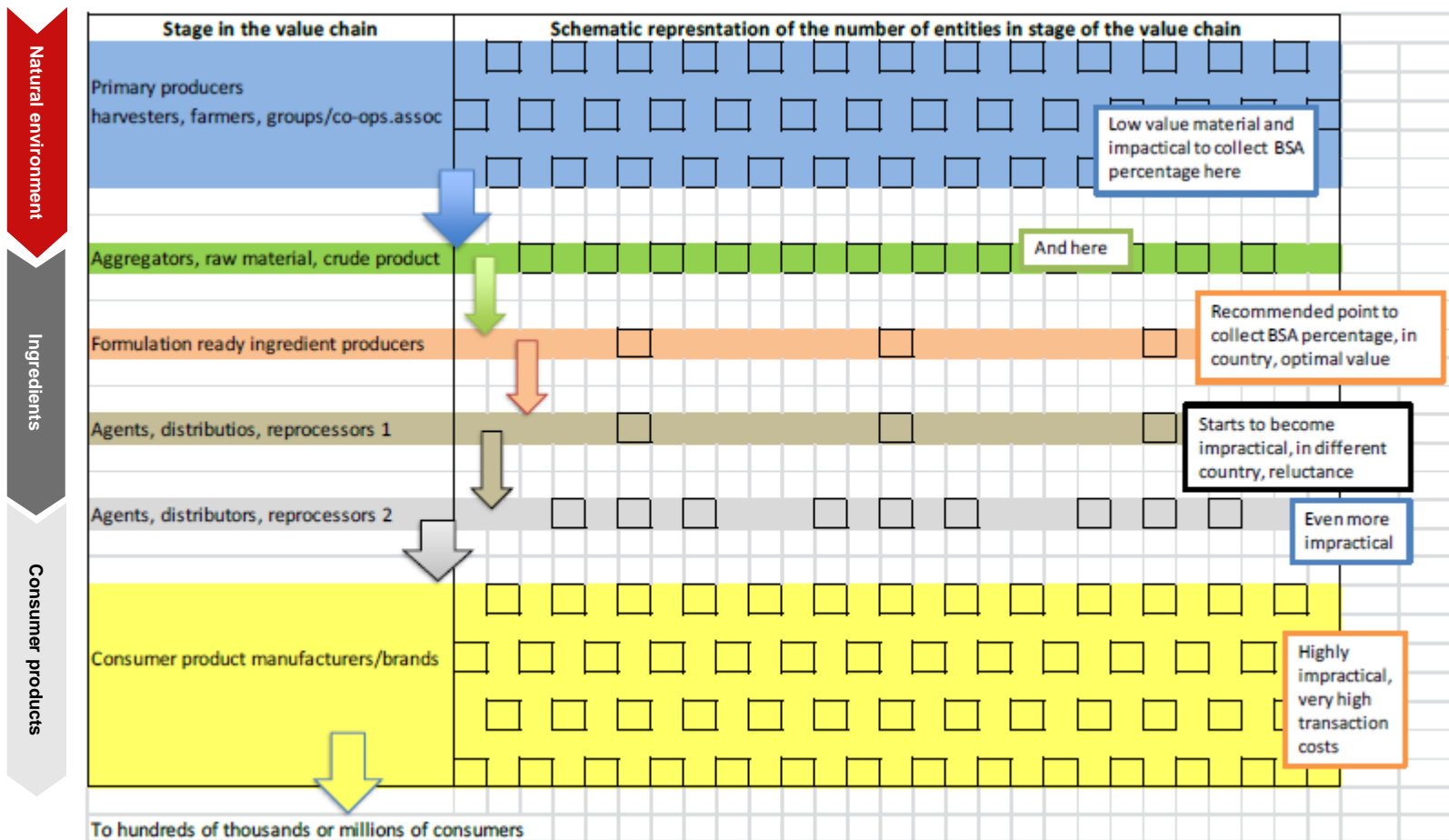


## **ABS trigger points and the role of regulators**



# Biodiversity based value chain model - possible ABS relevant activities



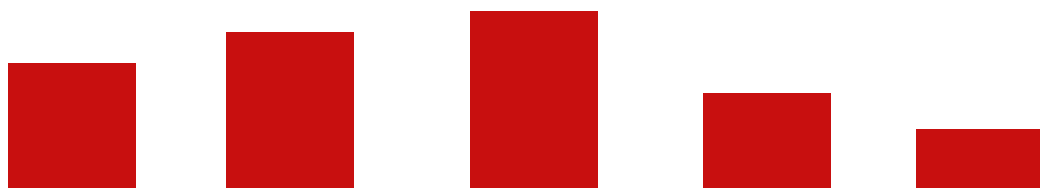
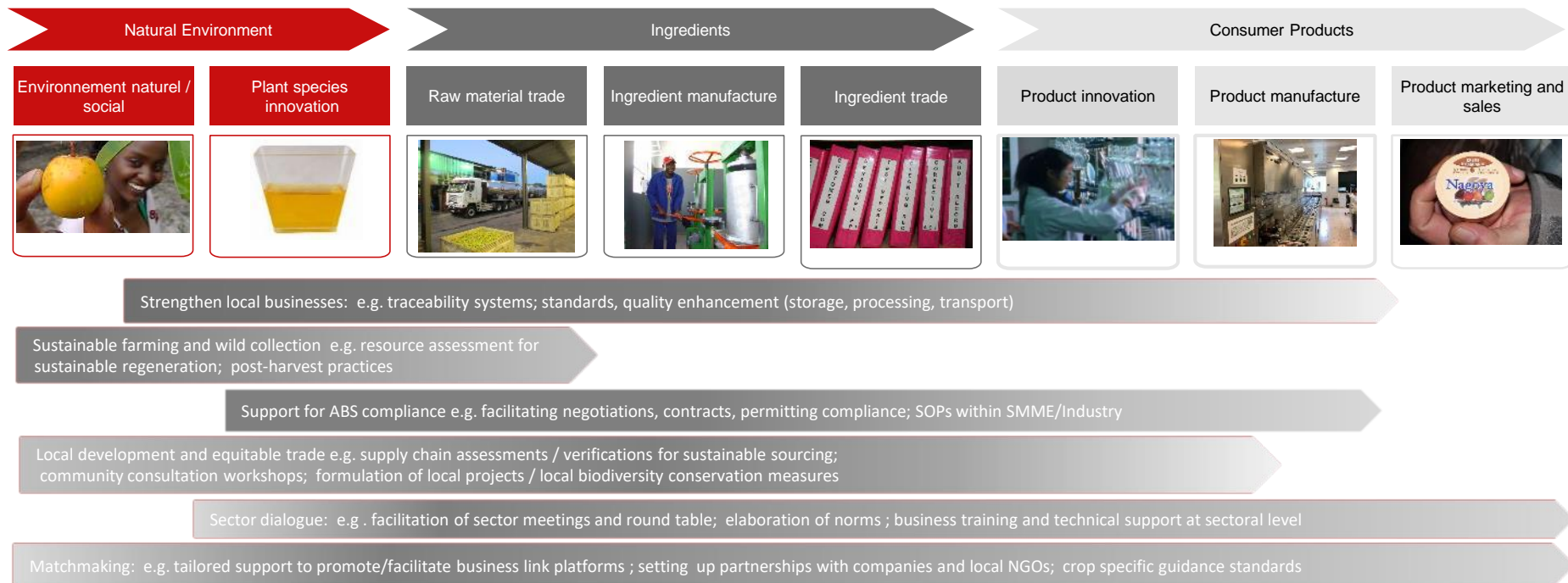




## **The link to the BIA private sector partnerships**



# Biodiversity based value chain model – BIA partnerships





## Group discussion



## Way forward

### BIA Capacity Development on: valorization of BR / GR & ABS compliant value chains

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# Next webinar topics ?

**Session : last week of september**

- Dismantling the BIA Value chains
- ABS manuals and guidelines – on what and for whom? Examples from around the globe
- Permitting systems / one stop shops
- The Brazilian ABS system – lessons learnt and transferability to Africa
- ....



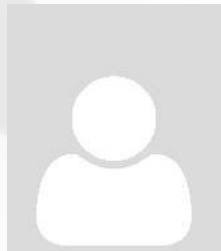
**Thank you for your participation**



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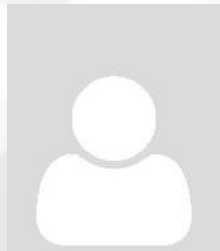


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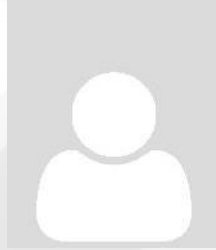
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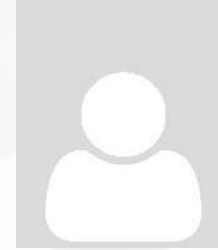
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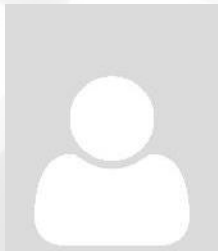


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