



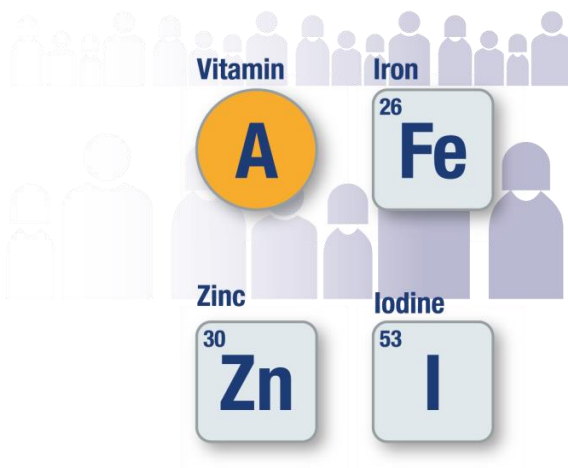
Photo: Krishnasis Ghosh

# Mainstreaming biodiversity for food and nutrition

# Challenge: Global malnutrition



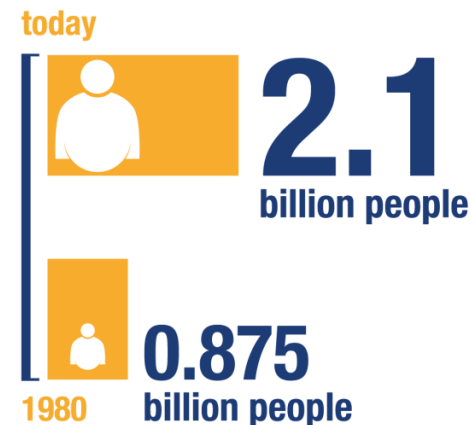
## 2 billion people suffer from micronutrient deficiencies



805 million people are food insecure



## Overweight or obese people increase since '80s



Global Hunger Index  
2014

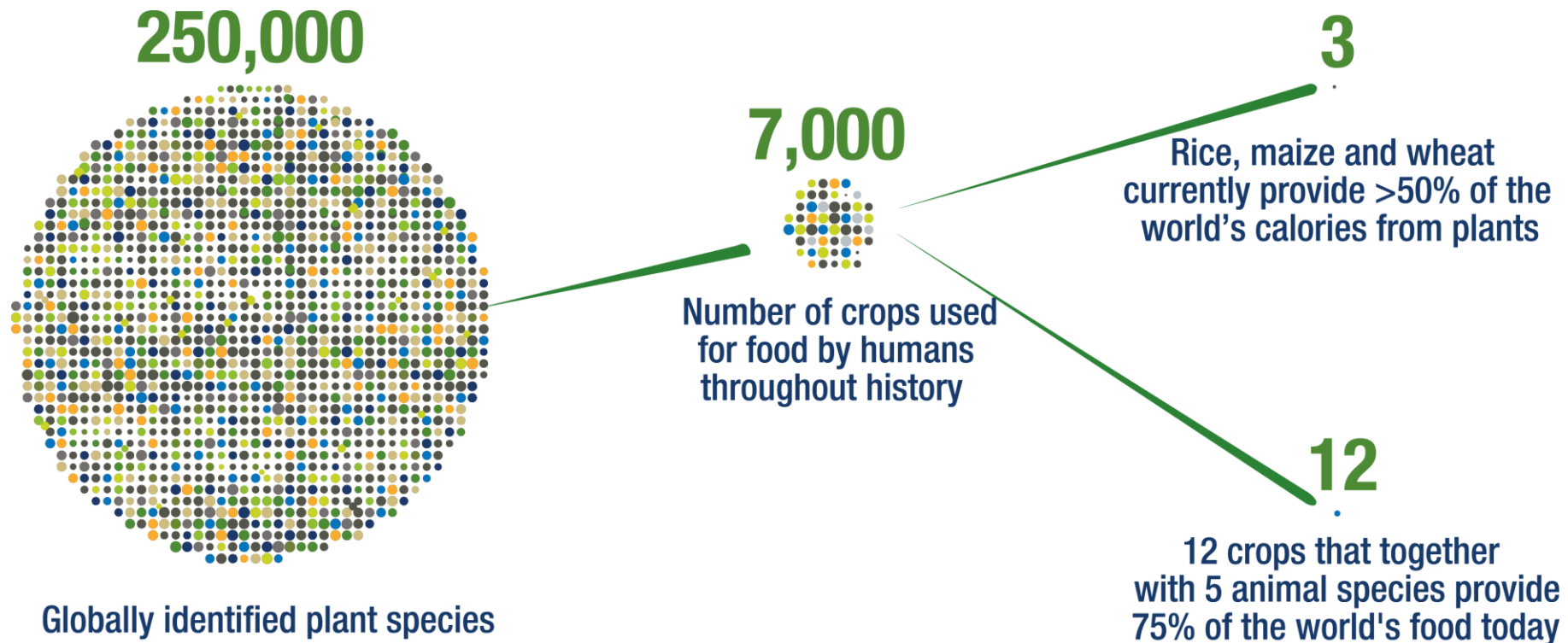
FAO: The State of Food and Agriculture 2014

Ng M, Fleming T, Robinson M, et al. 2014





# Challenge: Shrinking biodiversity in agriculture, food systems and diets



(Data source: FAO, 1997)

# CBD Conference of the Parties

Decision VII/32 (Kuala Lumpur, 2004)

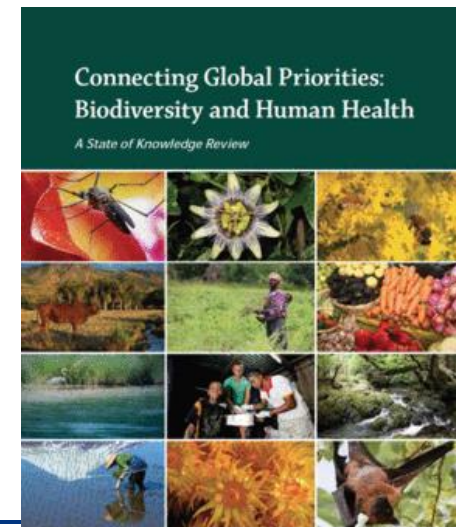
- *Noting* the linkage between biodiversity, food and nutrition and the need to enhance sustainable use of biodiversity to combat hunger and malnutrition, and thereby contribute to target 2 of goal 1 of the Millennium Development Goals
- *Requests* ...to...bring forward options for consideration by the Conference of the Parties at its eighth meeting for a *cross-cutting initiative on biodiversity for food and nutrition*...to work together with relevant organizations, in order to strengthen existing initiatives on food and nutrition, enhance synergies and fully integrate biodiversity concerns into their work.

Decision VIII/23A (Curitiba, 2006)

- *Adopts* the framework for a cross-cutting initiative on biodiversity for food and nutrition – led by Bioversity International and FAO

# Healthy Environment, Healthy People

- CBD/WHO Connecting Global Priorities: Health and Biodiversity - A State of Knowledge Review
- Safeguarding Human Health in the Anthropocene Epoch: Report of The Rockefeller Foundation-Lancet Commission on Planetary Health
- Healthy Environment Healthy People – UN Environment

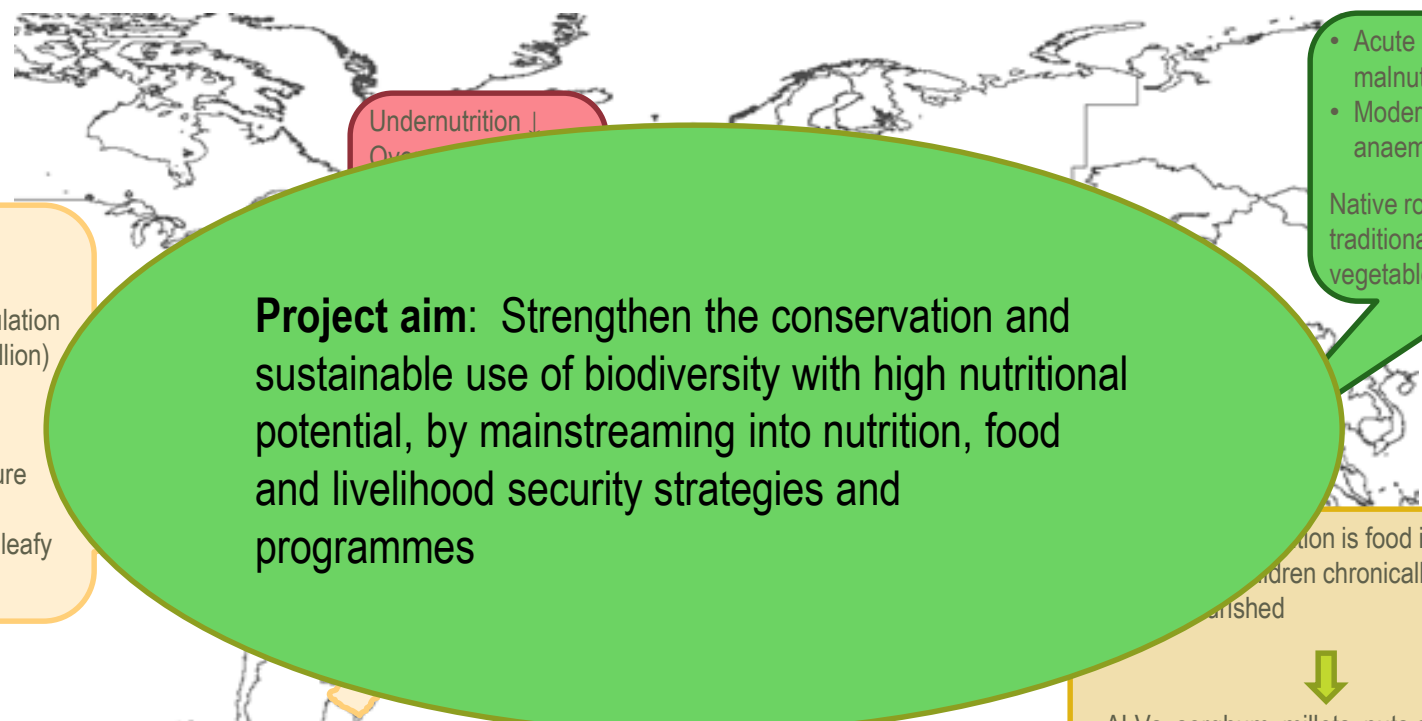


# Biodiversity for Food and Nutrition Project



**BIODIVERSITY  
FOR FOOD AND  
NUTRITION**

# Biodiversity for Food and Nutrition Project



**Project aim:** Strengthen the conservation and sustainable use of biodiversity with high nutritional potential, by mainstreaming into nutrition, food and livelihood security strategies and programmes

Undernutrition ↓  
Overnutrition ↑  
50% of adult population overweight (80 million)  
↓  
Plants for the Future Project (70 spp.)  
Non conventional leafy vegetables

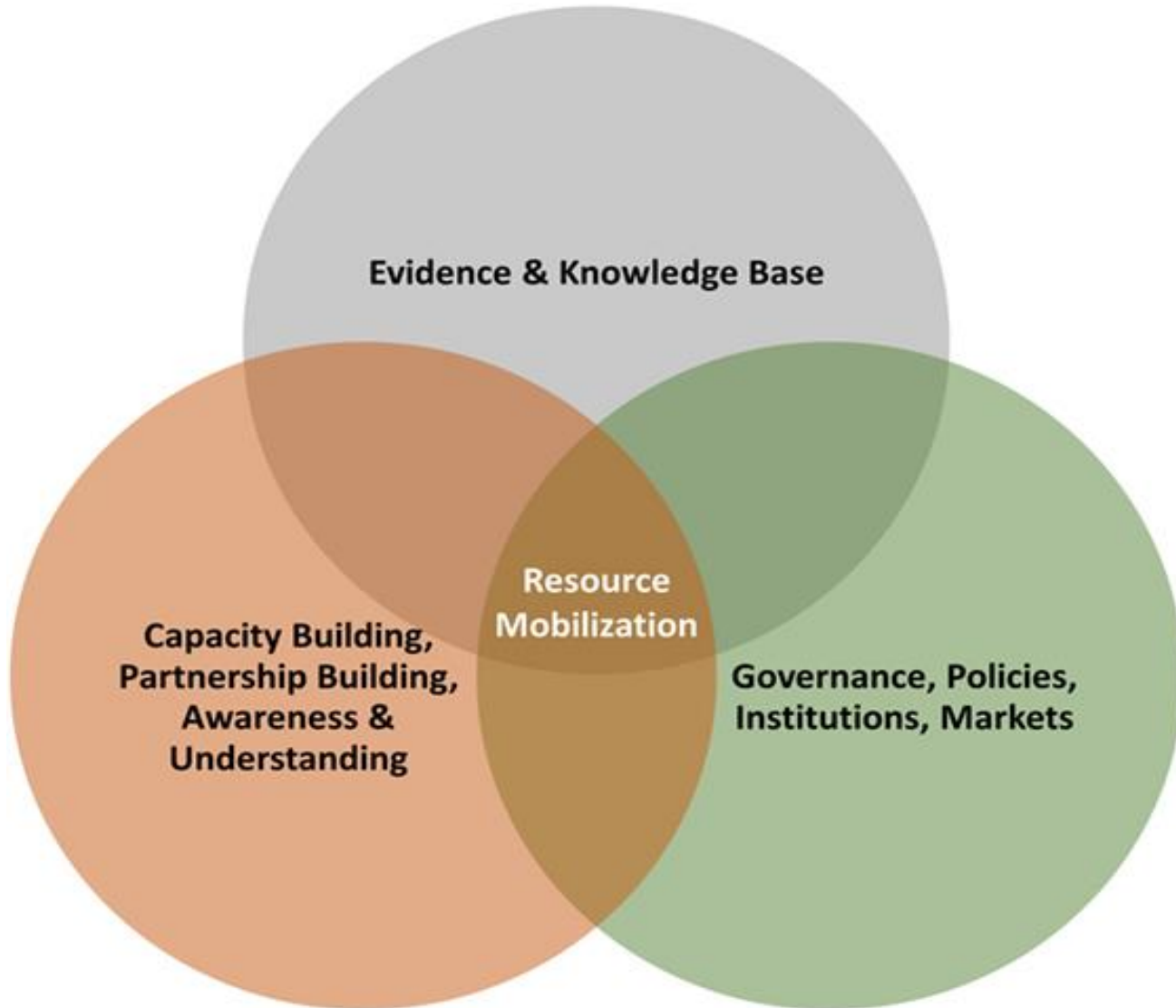
• Acute protein-energy malnutrition  
• Moderate Iron deficiency anaemia and VAD  
↓  
Native root and tuber crops, traditional rice varieties, leafy vegetables and native fruits

... is food insecure  
... children chronically malnourished  
↓  
ALVs, sorghum, millets, nuts and oil crops, indigenous fruits and livestock

5 year project : 2012 - 2017

- PROVIDE EVIDENCE – Demonstrate the nutritional value of local BFN and the role it plays in promoting healthy diets and strengthening livelihoods
- INFLUENCE POLICIES - Use the evidence to influence policies and markets that support the conservation and sustainable use of BFN for improved human nutrition and wellbeing
- RAISE AWARENESS – Develop tools and best practices for scaling up the use BFN in development programmes, value chains and local community initiatives.

## The main domains of an enabling environment for BFN.

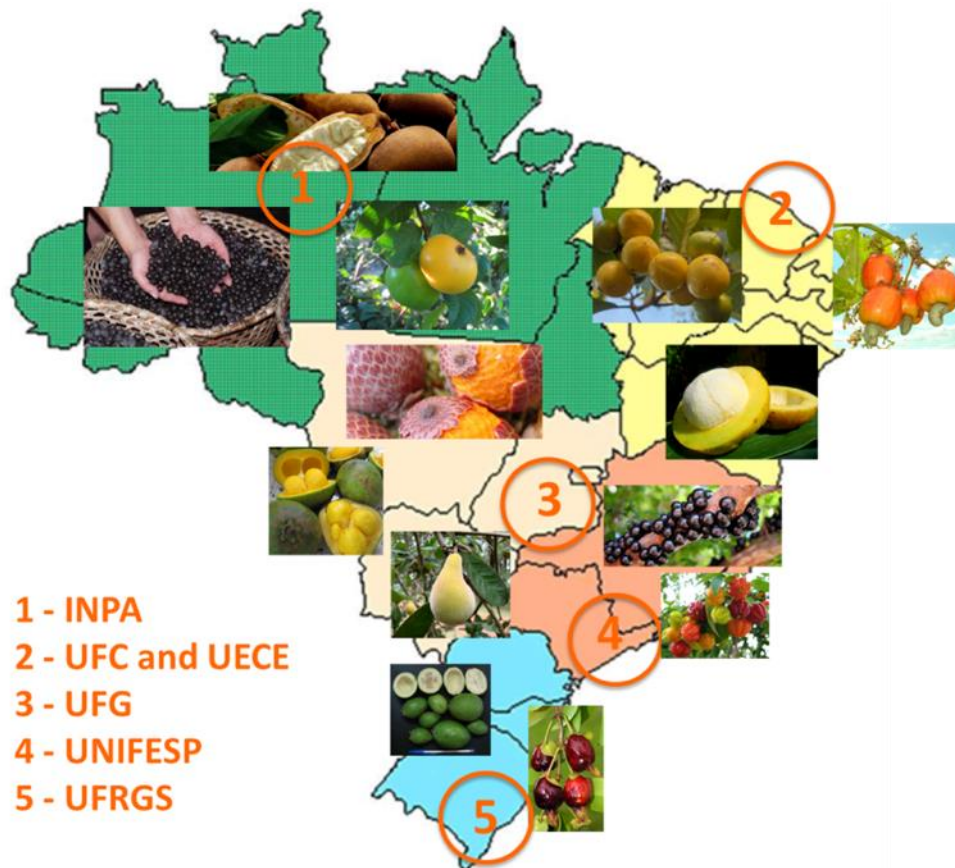




# Improving the Knowledge and evidence Base

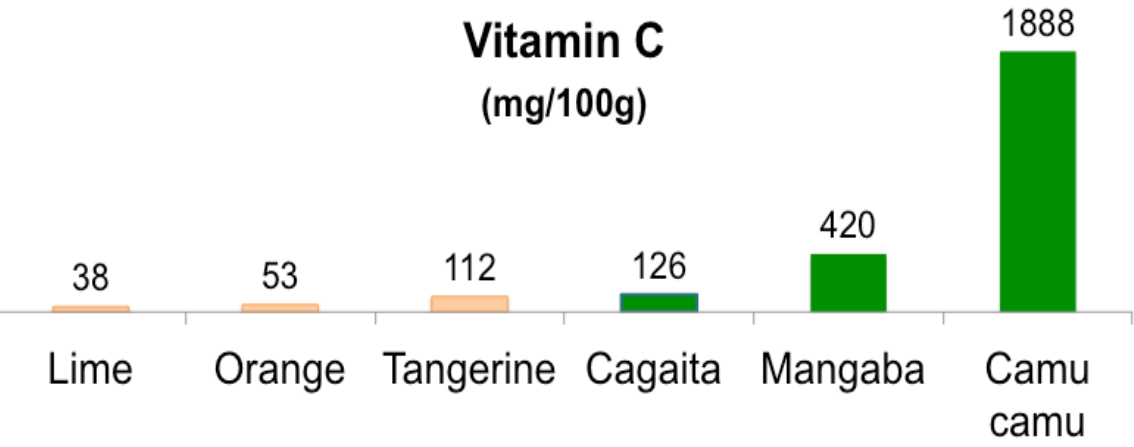
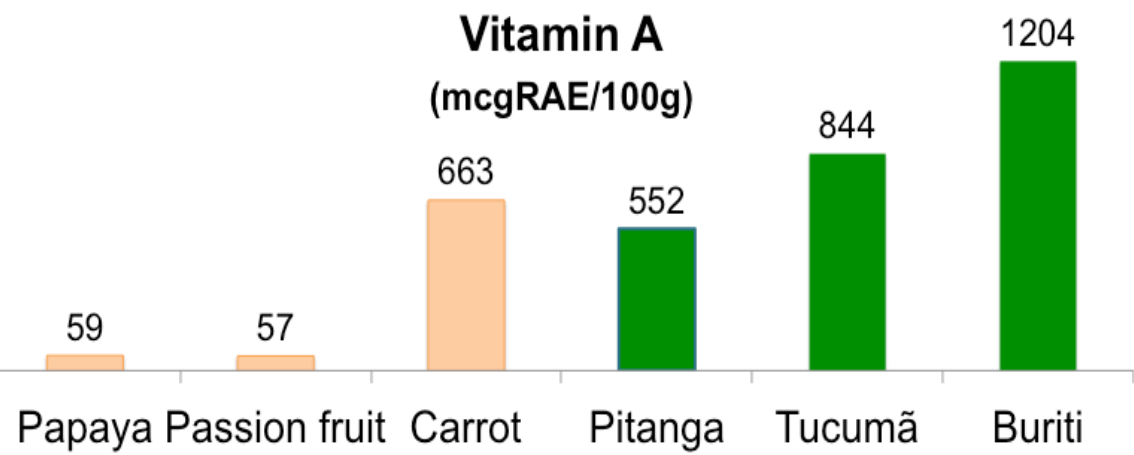
Prioritization and food composition data of 64 species

## “Plants for the Future”



SISTEMA DE INFORMAÇÃO SOBRE A BIODIVERSIDADE BRASILEIRA

# Exploiting nutrition potential of native biodiversity



# Formalize the role of biodiversity on food and nutrition security policies



- Ordinance MMA/MDS 163/2016 – List of socio-biodiversity products to guide public policies and food procurement
- Defines and supports measures for the production and sale of native ‘neglected and underutilized’ species with nutritional value

Next step - Create financial incentives for production and marketing

- Premium price, prioritization





# National Policy on Minimum Prices for products from Sociobiodiversity (PGPM-Bio)

Promote biodiversity conservation, food security and income generation to local communities (“extractivism”)

- Establishes minimum prices and complements the price paid for products
- 15 species included in 2016/2017, 12 prioritized by BFN



Photo credit: Conab



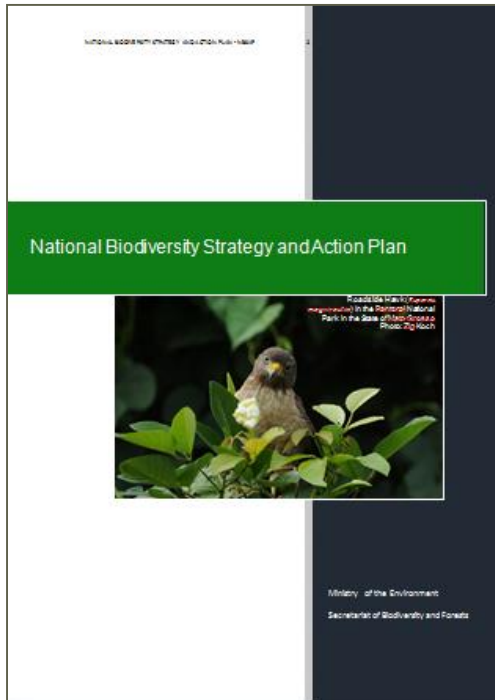
# School Feeding Program (PNAE) and Food Procurement Program (PAA)

- Link family farmers to institutional markets – 30% min for PNAE, PAA 100% family farmers
- Premium price (30%) for organic and agroecological foods
- Priority of purchase from indigenous, *quilombolas* and other traditional communities
- PNAE: schools in traditional communities receive 50% more funds for school meals

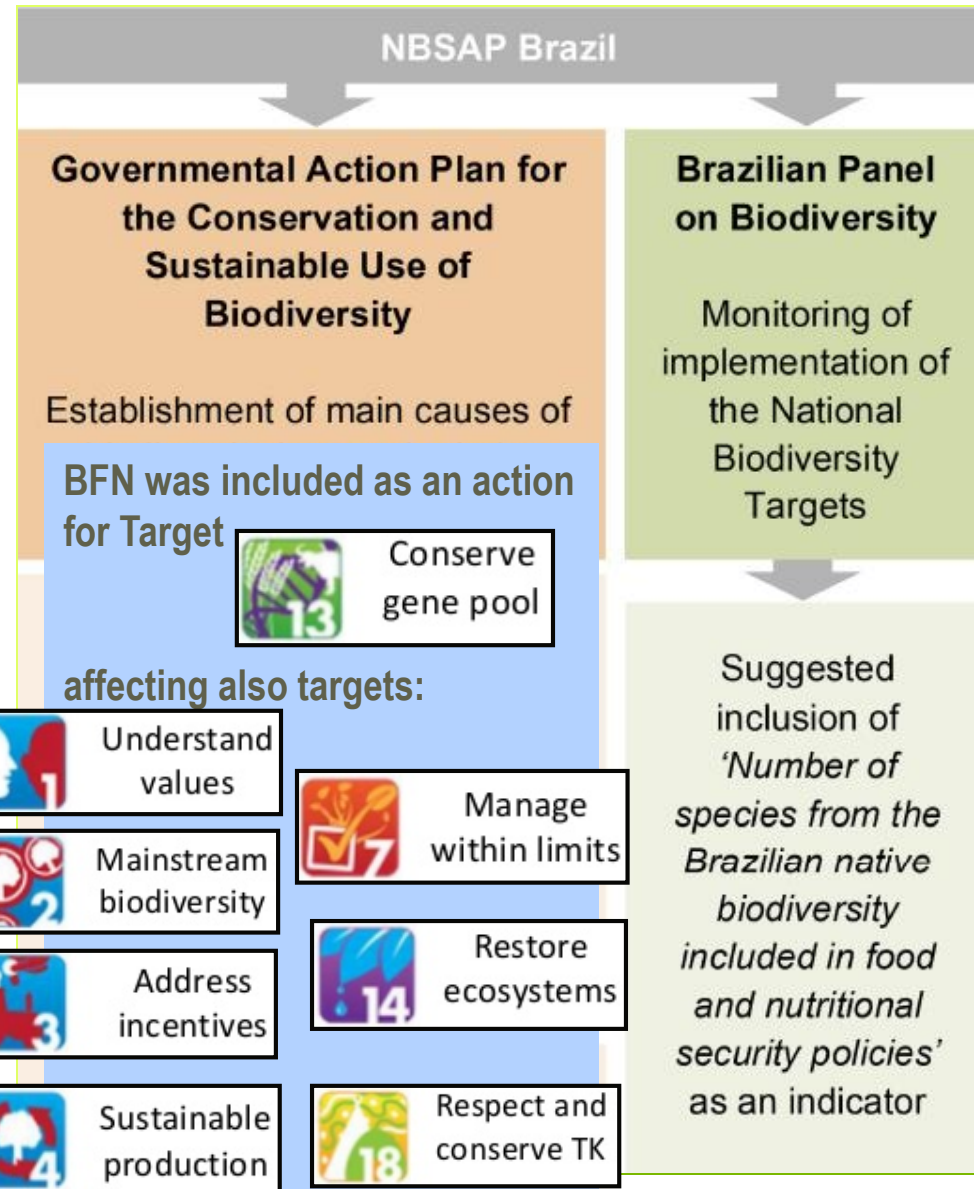


Photo credit: Conab

# Improving Policies and Governance: NBSAPs revision process



Revision of National Biodiversity Strategy and Action Plans (NBSAPs) to comply with Aichi Biodiversity Targets of the Convention on Biological Diversity





# Raising awareness and capacity building

- Food fairs, cooking demonstrations
- Capacity building materials for gatherers, farmers, cooks, professionals in the field



- Recipe development
- Online Course on mainstreaming biodiversity for food and nutrition

## Cooking competition





# Training program on Increase Local Fruit and vegetable consumption of Sri Lankans through *Hela Bojun* Sales Centers

Expert Consultant/Trainer: *Executive Chef*

Partner: Extension & Training Centre, DOA

Training Content 1. **Basic Knowledge in methods of cookery** 2. **Cuts of vegetables**

**Recipes & demonstrations** with presentation on novel food recipes produced from local fruit and vegetables:



Vegetable ratatouilli with **cowpea & sweet potato**  
mash

# Biodiversity for Food and Nutrition Project

