

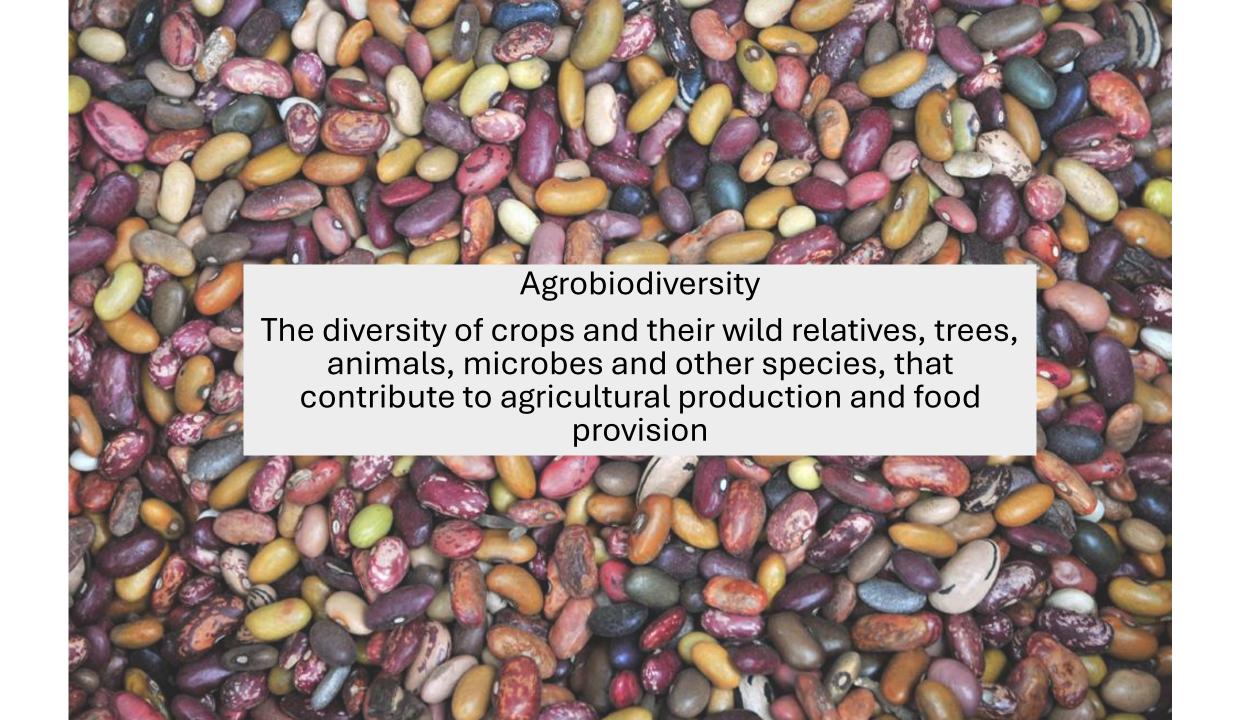


Agrobiodiversity, dietary diversity, and food system transitions:
Reflections from Southeast Asia and the Pacific

Deborah Nabuuma (PhD)

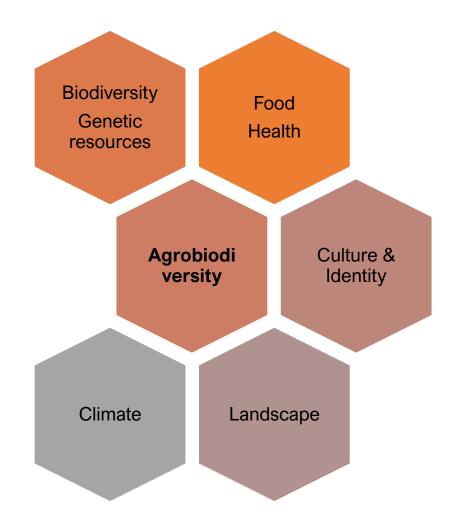
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Agrobiodiversity for the food system

- Nutrition: Access to a variety of nutritious foods; year-round availability
- Food culture and indigenous knowledge: From production, preparation, consumption, to cultural heritage and identity
- Market opportunities and economic benefits: from high value products to unique and niche products; different products with the seasons
- Resilience: against environmental stressors climate change, pests, and diseases, etc.







Agrobiodiversity for the food system









Harnessing agrobiodiversity for more sustainable, resilient, and nutritionally diverse food systems

> consumers producers custodians farmers

retailers processors innovators





Available resources

- ❖ Land: which farming system, crops, and species to prioritise
 - Market demand versus local nutrition
- * Knowledge & skills:
 - Learning/ re-learning practices that incorporate & support diversity
 - New technologies and applicability across species
 - Loss and displacement of traditional practices and indigenous knowledge systems
- ❖ Labour:
 - Fewer household/ community members involved in agriculture
 - Access to sufficient and skilled labour
- What can feasibly be expected of farmers?



Northern Vietnam:

- 500 ethnic minority households
- Large vegetable diversity: 90 vegetables
- Only a quarter of the diversity was produced by >10% of the households
- Land and labour major imitations of the diversity and quantities

Needs and preferences

Livelihoods

- Rising cost of living & challenging environment –focus on high value crops & animals
- Nutritious and underutilised foods can also end up fully commercial

Food

- Diet transition and urbanization of diets
- Diverse landscapes: reduced consumption lowering likelihood of production & maintenance
- Less diverse landscapes: promoted diversity needs to have multiple (tangible & perceived) benefits
- ❖ Does the food environment support demand for healthy diets and the translation of income into healthy & diverse diets?



Solomon Islands and Vanuatu:

- 30% experienced moderate or severe food insecurity
- >90% did not meet the recommended infant and young child feeding practices and minimum dietary diversity for women
- Large diversity of species and varieties of foods like taro, yam, plantain, nut trees, fruits
- Increasing consumption of rice, noodles, tinned foods, etc.
- Poor taste, low preference and limited preparation skills limited regular use and consumption of locally available foods

Market access

- Input and output markets:
 - Adequate inputs tailored/ required for a more diverse agricultural system
 - Accessing markets for diverse crops; profitability
- Food markets:
- Produced diversity available for other markets/ consumers
- Producing communities: Access to high quality, affordable, safe, diverse, preferred foods?
- Appeal of processed and ultra-processed foods
 - Well marketed, varying nutritional quality, cheaper, less seasonal effects and time requirements
- How do knowledge and income fare against price, nutritional quality, preference, and diversity?



Solomon Islands and Vanuatu:

- Participatory development of nutrition behaviour change strategies:
- Wide variety of crops available from on-farm, market, shops, and wild
- Increasing availability and access of affordable easy to cook, highly processed foods
- Inaccessibility of markets with diverse foods

Policy environment

❖ Addressing multiple food system objectives:

- Productivity
 - Food Security Agrobiodiversity
- Livelihoods
- Climate Resilience
- Environmental Sustainability –
- Equity and social inclusion
- Economic Growth
 - Nutrition and Health Outcomes

- Unique contexts, Complex interactions, Trade-offs, ...
- Island nations face unique challenges related to food sovereignty, with high dependence on imported foods and fragile ecosystems







More questions than answers?



- ❖ Holistic and integrated approaches that considers the socioeconomic, cultural, and environmental contexts of farming communities and nutritional aspects of agrobiodiversity along the entire value chain
 - Supporting sustainable food systems and the nutrition and livelihood outcomes
- Multidisciplinary approaches that consider the complex interactions between agriculture, ecology, economics, and social dynamics to develop (and assess, understand, monitor, implement) the agri-food system

- How well do the holistic, integrated approaches link with how we presently design, implement and assess impact of agrobiodiversity/ agri-food system research?
- How can our research perspectives align with and motivate farmers, consumers, and policymakers to make decisions that support agrobiodiversity, livelihoods and nutrition outcomes?

























Thank You!

d.nabuuma@cgiar.org