

Science, Innovation and Policy Symposium December 10 & 11, Washington DC

More Inclusive Business Models for Cold Chain Logistics: Challenges and Opportunities WP2 Nigeria

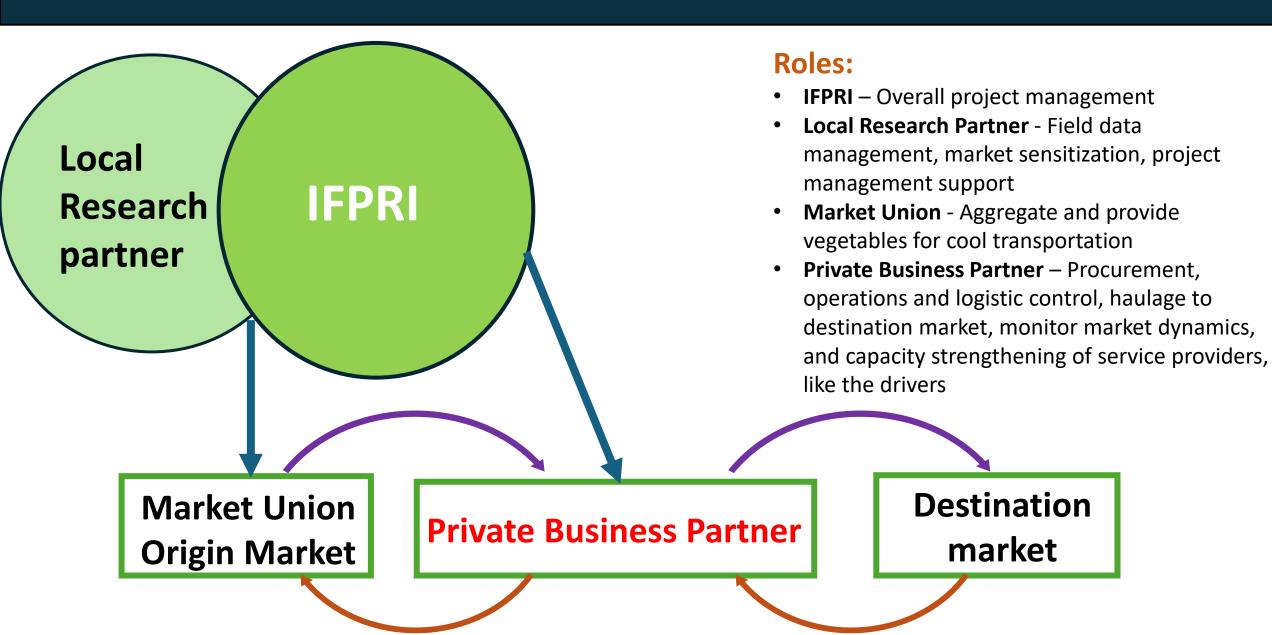
Bedru Balana and Hyacinth Edeh International Food Policy Research Institute (IFPRI)

The Rationale.....

Efficiency	 Operations, including resource use & time management Customer relationships, including service delivery and integration through training
Better Business Knowledge	 Market dynamics – prices and spatial demand Infrastructure, including use of IT Platform
Research – Business Nexus	 Understand core research objective Research – business integration

Exclusive Private Partnership Model

Business Setup: Exclusive Private Partnership Model



Did This Model Work? The Pitfalls.....

Divergent objectives

Partner exclusion

Inefficient management

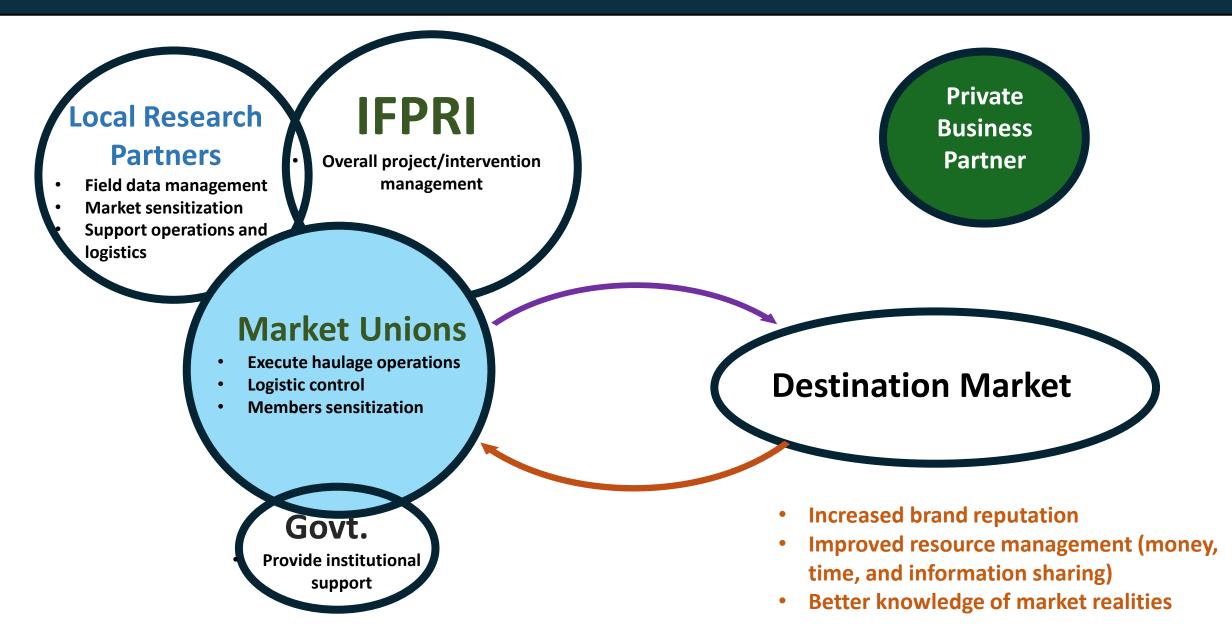
Poor communication

Technical inefficiency

Moral hazard (lack of transparency)

Exclusive Private Partnership Model

More Inclusive Vertical Operational Business Model



* Operational

- Infrastructure related issues
 - Inadequate and poor-quality roads (~30% of paved road, World Bank, 2024)
- Production issues
 - Mostly rainfed (w. limited irrigation)
 - Short growing time (~3-4months)
 - $\circ~$ Seasonal variation (nearly zero production between March and July) and surplus in other months
- Insecurity

* Policy

- Multiple (federal and sub-national) taxation produce permits
- High import duty and associated complications
- Bureaucracy in government institutions
- Finance limited access and high interest rate

Macroeconomic issues

- Volatile exchange rate
- High inflation
- Fuel subsidy removal

Opportunitie s

Policy support

- National Agricultural Technology and Innovation Policy (NATIP), 2022 – 2027 (Tomatoes)
- Nigeria's Medium Term National Development Plan, 2021 2025 (tomatoes, poultry, fisheries & dairy VC)
- Renewed Hope Agenda for Agriculture and Food Security: Boost nutritious foods production and construct cold storage facilities.
- Government support/buy-in (including possible scalability) (RFM Workshop Nigeria, 2024)

Economic Policy

 Tax cut/subsidy for cooling, incl refrigerating trucks (they are not only transporting, but importantly reducing food loss & preserving food quality)

Large market

- Large population (~ estimated at 234 million)
- Demand (~2.45million MT) supply gap (~1.8million MT)
- Most commonly used vegetable in diets (~18% of daily vegetable consumption); Dietary and health awareness of nutritious foods

More invests in nutrition-focused horticulture interventions

o Horti Nigeria

Limited # actors within cold transportation business

Thank you for listening