



Improving agricultural value chain coordination in PNG

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Three selected value chains in PNG capture the country's interests in:

- Import substitution (poultry)
- Domestic food security (sweet potato)
- Export promotion (fresh vegetables)



Poultry value chain

Motivation:

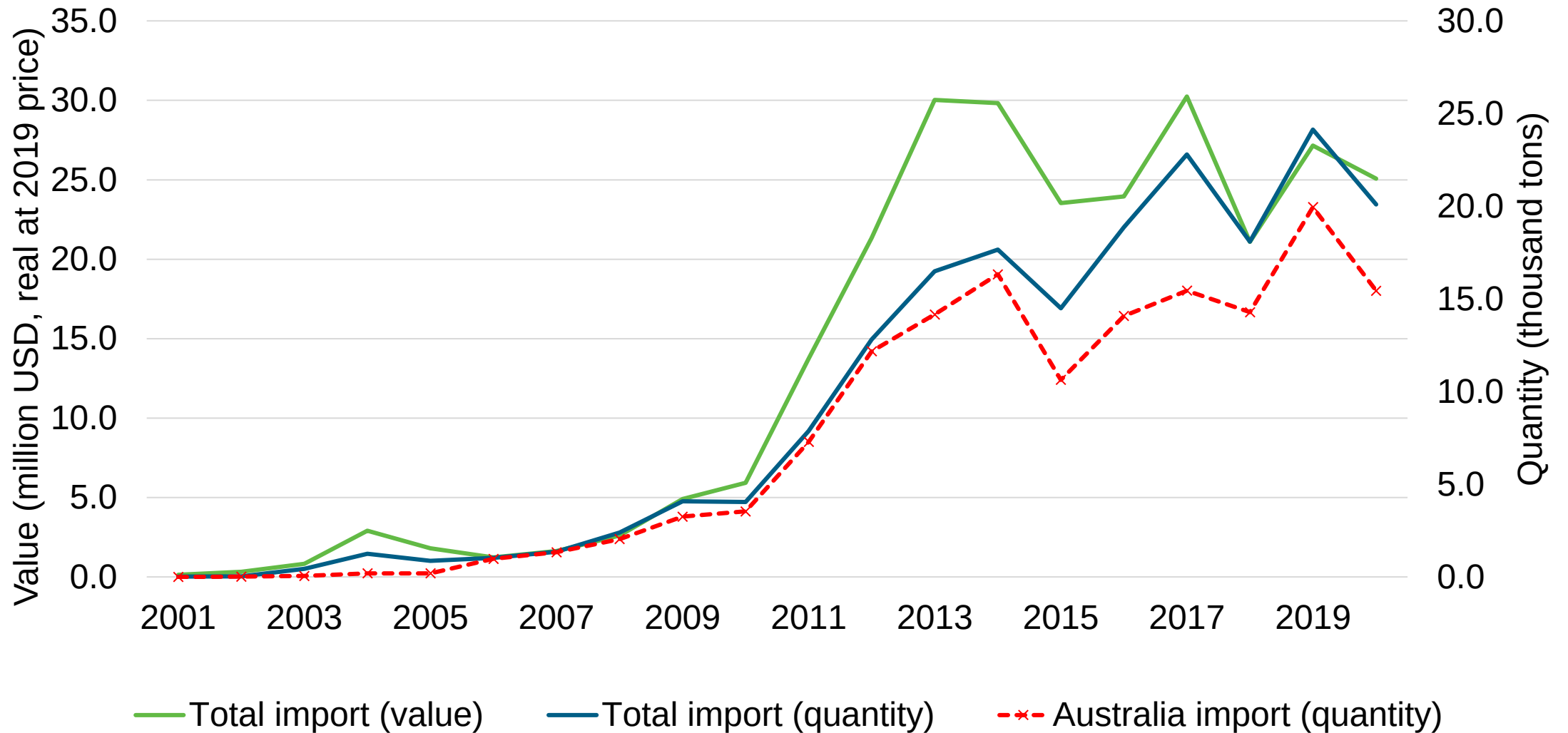
- Chickens are a good source of income.
- Chickens (and eggs) are high quality protein food.
 - Studies have show strong associations between children stunting and insufficient protein consumption (such as that obtained from animal-sourced food)
- Chicken farming empower women





Poultry value chain

Value and quantity of poultry imports by PNG (2001-2020)



Source: Authors' calculations using BACI International trade database at the product level (2022)

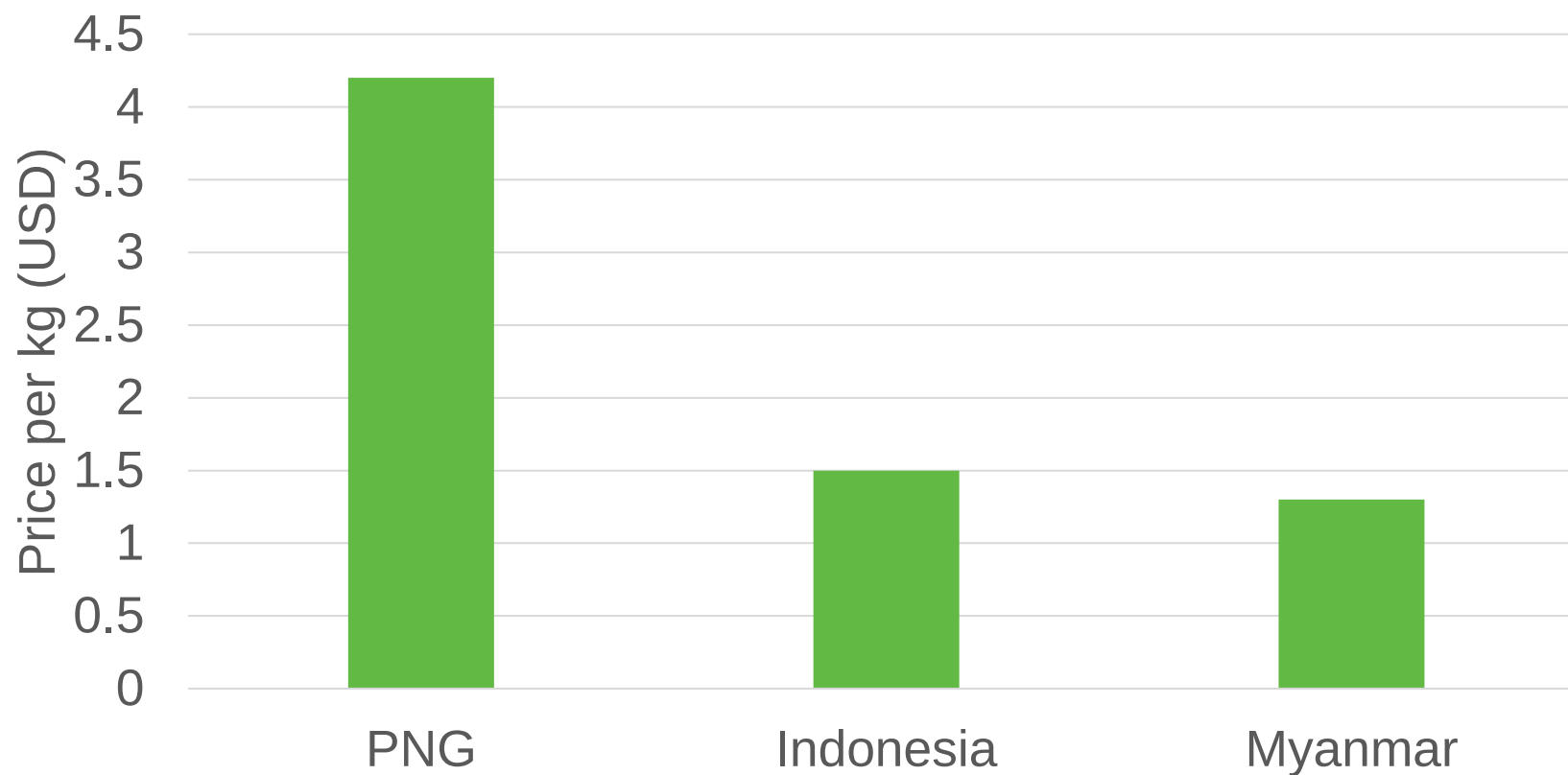


Poultry value chain

Key issue:

Chickens are expensive in many developing countries due to the inefficient value chain.

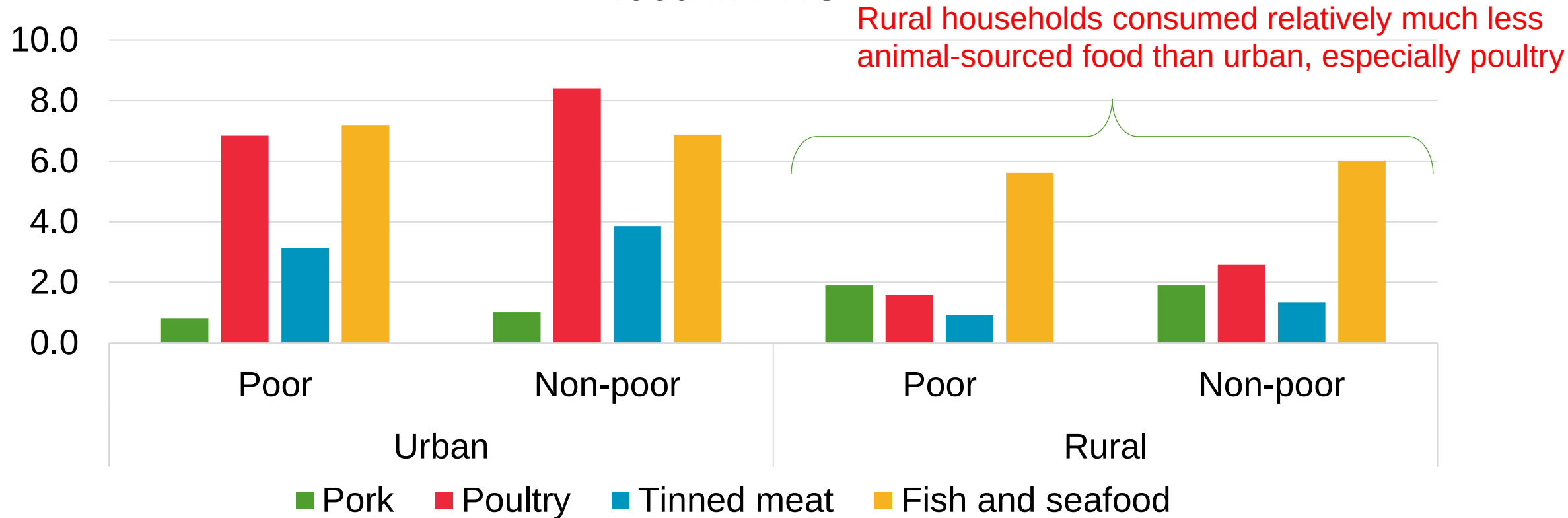
Price (\$/kg) of live chicken in 2019





Lower consumption of poultry in rural than urban is likely related to both demand factors (e.g. income) and supply factors (e.g. low productivity can lead to low supply and high prices).

Expenditure share in total food (%) of main animal-sourced food in PNG



Source: Author's calculation using HIES 2009/10.

Opportunities: Poultry cluster development with government/NGO support?

- A lead firm/ integrator can play key role in the development of poultry cluster, but need additional support and incentives from government

e.g.: Poultry cluster is common across developing countries all over the world.





Poultry value chain

Opportunities: Mini-feed mill model needs further investigation

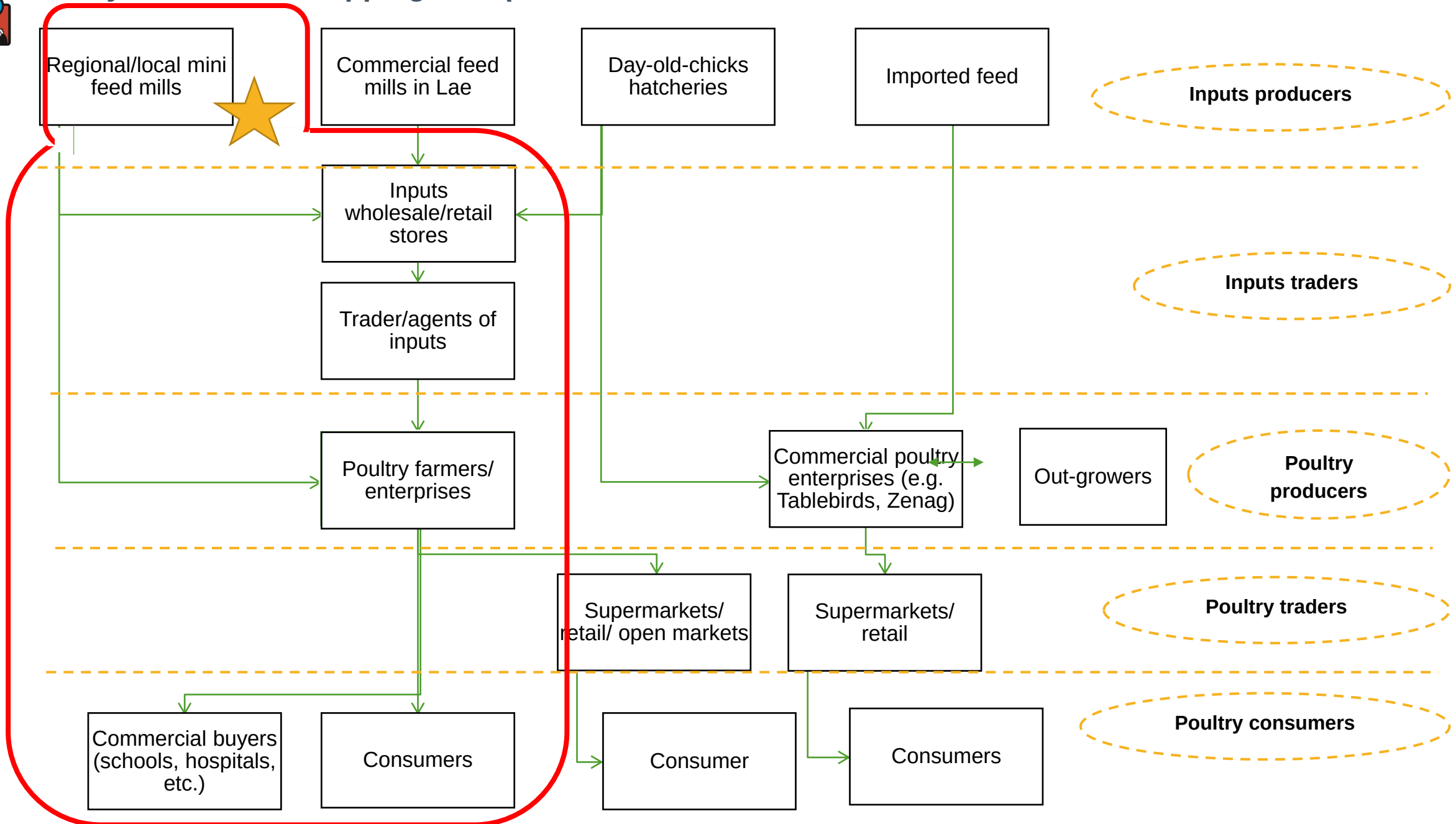
- A mini feed mill model uses local ingredients such as sweet potato and cassava to produce livestock feed.
- NARI has piloted several trials of domestically produced poultry feed and achieved positive results.
- A series of qualitative interviews on mini-feed mills and their upstream and downstream actors (poultry farmers, inputs retailers, and ingredients suppliers) will be conducted in the Highland and Morobe in November by NARI-IFPRI to further look into the constraints and opportunities of this model.



Photos source: Phil Glatz, et al.



Poultry value chain mapping in Papua New Guinea





Summary

- We study three value chains:
 - Poultry
 - Sweet potato
 - Fresh vegetables – discussed in detail in the paper and brief
- Synopsis brief link: <https://www.ifpri.org/publication/synopsis-improving-agricultural-value-chain-coordination-and-gender-inclusiveness-papua>
- Working paper link: <https://www.ifpri.org/publication/improving-agricultural-value-chain-coordination-and-gender-inclusiveness-png>
- Opportunities for further exploration:
 - Poultry:
 - Role of mini-mills in the development of poultry value chain in rural areas
 - (Cluster) development of the rural poultry producers and input producers (e.g. Innovative Agro Industries)



Thank you

