



Household pork consumption behaviour in Vietnam: Implications for pro-smallholder pig value chain upgrading

Nga Nguyen Thi Duong¹, Nguyen Thi Thu Huyen¹, Pham Van Hung¹, Duong Nam Ha¹, Tran Van Long¹, Dang Thi Be¹, Fred Unger², Lucy Lapar²

¹ Faculty of Economics & Rural Development, Vietnam National University of Agriculture, Hanoi, Vietnam ² International Livestock Research Institute, Hanoi, Vietnam

Tropentag 2015, Berlin, Germany 16-18 September, 2015





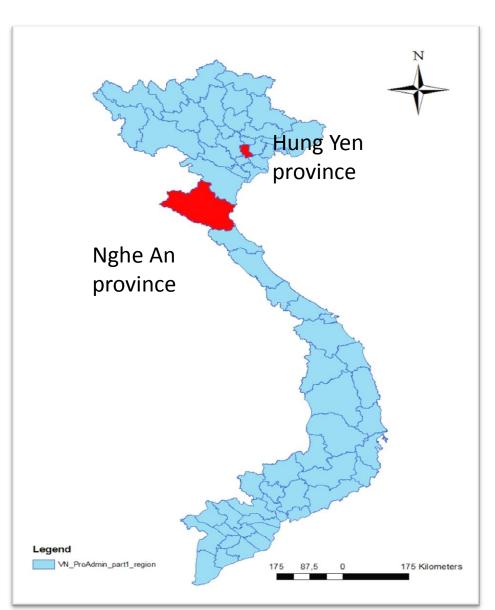


Introduction

- Pig sector is important: supplies ¾ of total meat production; livelihood for about 4.13 million smallholders (providing > 80% of total pork for domestic consumption)
- Increasing trend to world and regional integration: WTO, AFTA, coming TPP; livestock, especially pig sector (smallholders) is likely adversely affected with large reduction in import tax
- How to stabilize consumer demand for domestic pork products and sustain livelihood for smallholders?
- This study aims to provide information on consumer behaviour for pork and draw implications for upgrading smallholder pig value chain in Vietnam

Data collected

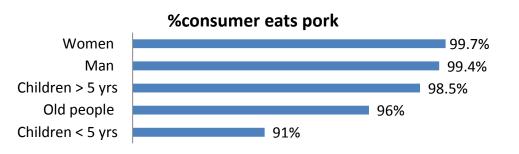
- 416 consumer household (273 rural; 143 urban)
- 420 pig smallholders
- Other actors in the chains
- 2nd 3rd quarter
 2013

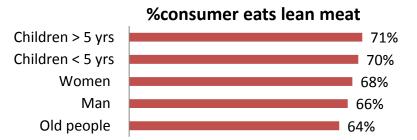


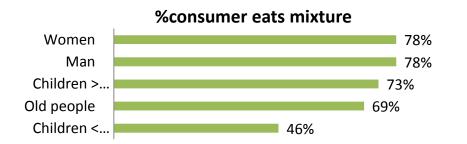
Household profiles

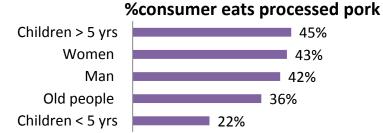
	Rural	Urban	All	Difference
1. Household head				
education (%)				
High school and lower	<i>87.2</i>	<i>58.8</i>	77.4	
Other	12.8	41.3	22.6	
2. Family size	3.8	3.7	3.8	-0.1 ^{NS}
3. Per capita income				5QA ***
(USD/year)	1,181	1,762	1,381	-580 ***
4. Per capita food				206***
expenditure (USD/year)	679	1065	810	-386***

The diversity of pork consumption in households (by age and gender)

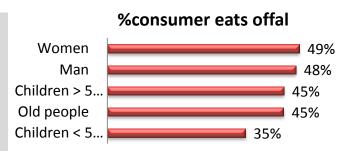








- •Pork is commonly eaten by consumers at all ages and gender
- •Lean meat is more common for children
- •Mixture pork (meat with bones) is more commonly used than lean meat, except for children less than 5
- •Processed pork is not widely used; especially children
- •Same pattern for both rural and urban consumers

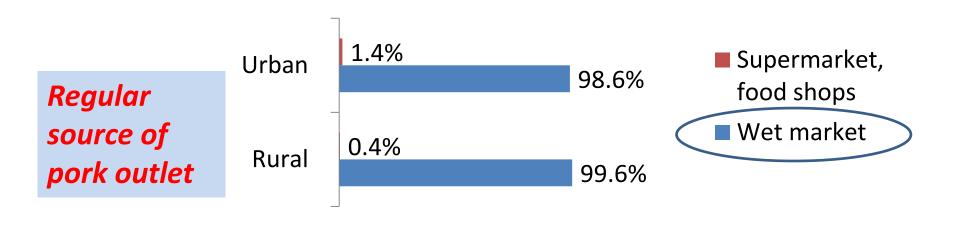


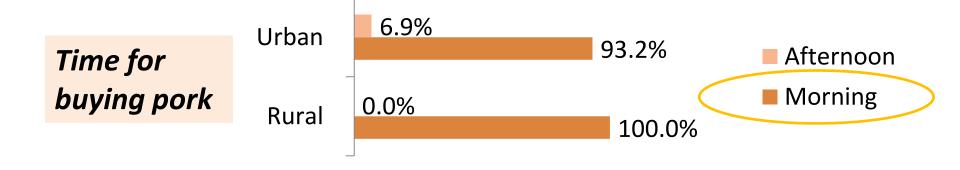
Monthly consumption of pork in 2012

Consumption	Rural	Urban	All	Differences
Per capita consumption(kg)	2.01	2.17	2.05	0.16 ^{ns}
Lean	0.54	0.77	0.61	-0.23***
Fatty	0.10	0.05	0.08	0.05 ^{ns}
Mixture	0.81	0.65	0.75	0.16*
Bones	0.39	0.48	0.42	-0.09*
Processed	0.09	0.11	0.10	-0.02 ns
Offal	0.08	0.11	0.09	-0.03 ns
Household consumption(kg)	7.26	7.64	7.36	-0.38 ^{NS}
Total household pork expenditure (USD)	29.02	30.58	29.43	-1.56 ^{NS}
Pork proportion in food expenditure (%)	14.8	9.6	12.4	

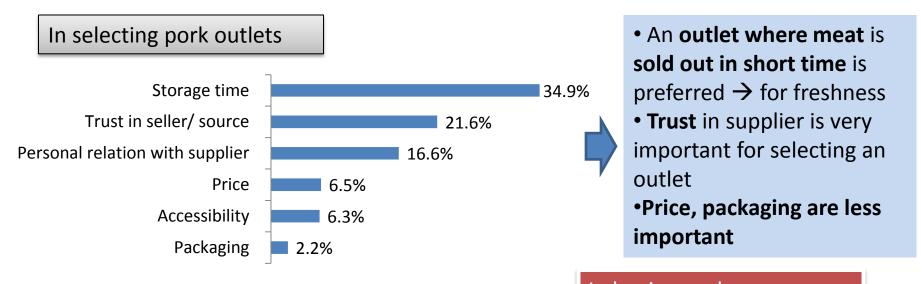
- No significant difference in pork consumption between rural and urban, although some differences in types of pork cuts, as below:
- Urban: more lean meat and bones (mainly ribs highest prices among bones and can be cooked in various ways than other types of bones)
- Rural: more mixture meat (mainly based on cultural preferences & lower prices relative to lean meat)

The most regular sources and time for buying pork (% of households)

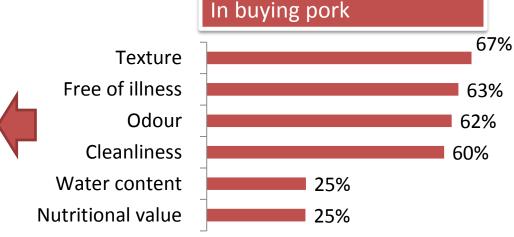




Important concerns in selecting pork outlets and buying pork

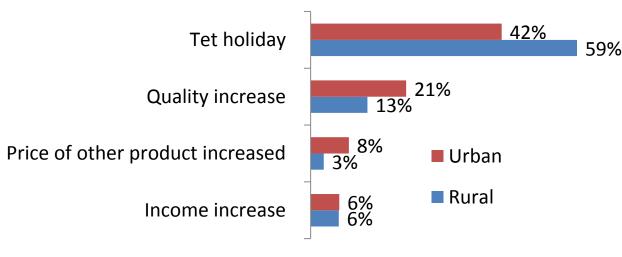


- Free of illness (or absence of disease) is very important to consumers, though unobservable
- No packaging; unable to trace the origin
- → **Trust** in supplier is important

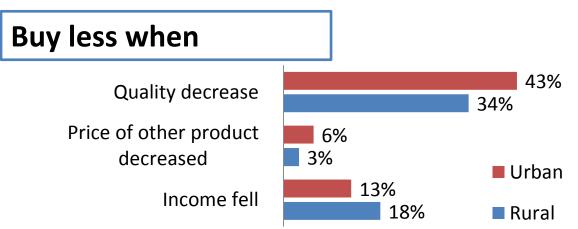


Consumer's response in cases of changes in income, pork quality and related product price (% household)





- Holidays
- Pork is weakly substituted by other meats: stronger response when price of related products increase



 Quality is a very strong factor affecting (negatively) consumer demand for pork, esp. when quality is perceived to have decreased

Consumer's response in cases of pork price changes

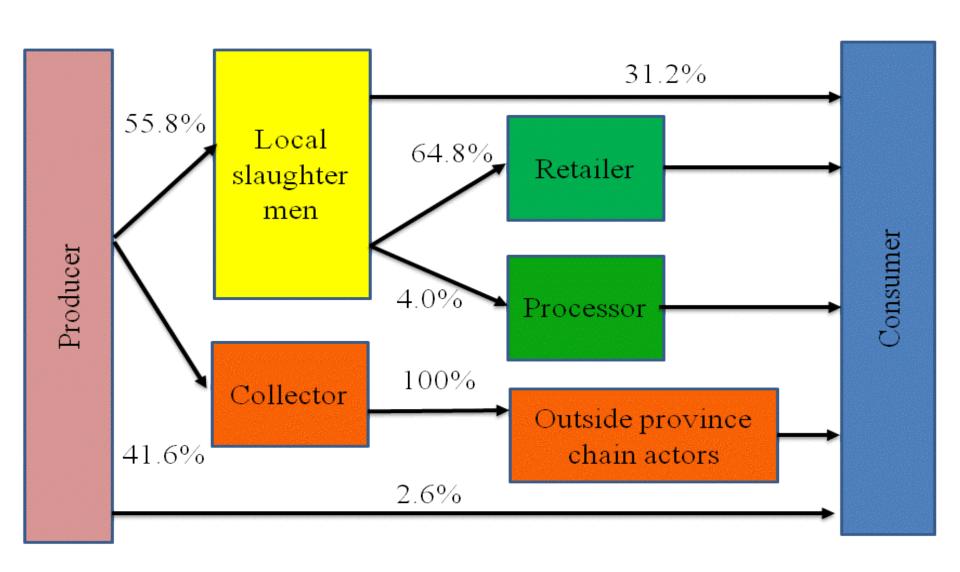
Dobovior	Price down by 10%			Price up by 10%		
Behavior	Rural	Urban	All	Rural	Urban	All
Unchanged (amount)	83.5	86.0	84.4	76.6	86.7	80.1
Buy more at the same shop	11.7	8.4	10.6	-	-	-
Buy less at the same shop	-	-	-	19.4	11.2	16.6
Amount changed (kg/hh/month)	1.0	0.9	1.0	-1.0	-0.6	-0.9

- 10% change in prices does not influence pork consumption of the majority of consumers
- Stronger reaction when the price goes up than when it goes down

Consumer trust and willingness to pay for safe pork

	Rural	Urban	Total
1. Trust in pork quality and stamp (%hh)			
Believe that pork quality is already safe in market	4.4	2.1	3.6
Fully trust in quarantine stamp sign on pork	22.7	21.7	22.4
2. Willing to pay for safe pork (%hh)	91.9	93.7	92.6
Price premium (USD/kg)	1.0	1.2	1.1
3. Pork consumption trend of household (%hh)			
Not change	57.0	73.1	62.6
Increase	2.0	6.0	3.4
Decrease	41.0	20.9	34.0

Local pork value chain in Vietnam

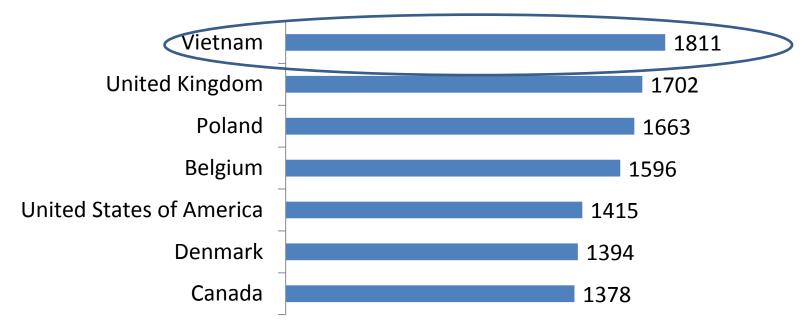


Some issues in the chain

- 1. Production: Weakness of small scale
- Difficult to establish quality certification system
- A number of farmers are weakly market-oriented: produce what they can, and used to do. Little concern of market (trend, demand)
- All transactions are in spot markets. No long term coordination
- High cost of production

Cost of pig production in 2012

(USD/ton of live pig)



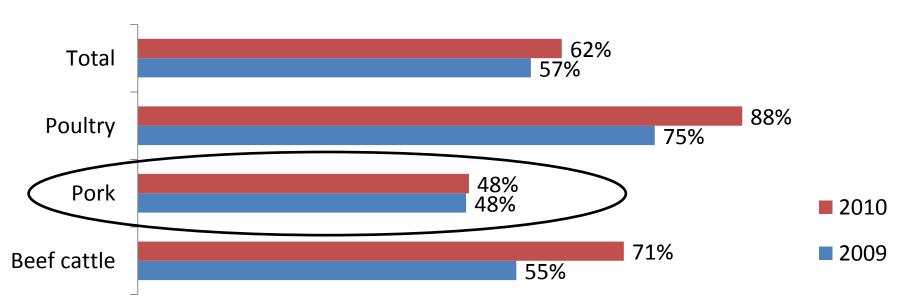
Sources: FAOSTAT (2015), Vietnam data from farm household survey, 2013

- Vietnam is importing pork from the above countries; Canada, the U.S, and Denmark are top exporters.
- Vietnam's cost of production is highest as compared with other pork
 producing and exporting countries, hence importation makes sense from
 a cost-efficiency perspective.

Some issues in the chain (cont.)

- 2. Marketing: Pork sold in wet market; unable to trace origin. Asymmetric quality information (i.e. free of illness of pig) between consumers & sellers
- 3. Food safety management along the chain

% of samples under requirement of veterinary hygiene and food safety in Vietnam



Integration of Vietnam to the world market

- Vietnam joined WTO and has several FTA agreements at regional levels; hence, has to comply with free trade agreements
- Pork import tariff had been reduced from about 30% (at WTO entry in 2006) to 15% by year 2012, making it cheaper for exporters to sell pork to Vietnam
- Meat import rising, partly in response to rising domestic demand, but also due to reduced tariffs levied on pork imports
- Compliance with SPS requirements will need to be assured for imported pork

Policy implications

- Small pig farms should be organized in group (or cooperatives), applying good practices, and marketing of pig through group/cooperatives is supported by quality certification of trusted institution;
- Develop a quality assurance system that can be feasibly established under smallholder conditions, and complies with minimum quality and safety standards tailored to Vietnam's context;
- Strengthening capacity to collect appropriate market information to provide pig producers, particularly smallholders, reliable meat demand and supply forecast to better serve their target consumers; and
- Improving cost and quality competitiveness in pig value chains.

Acknowledgement

We are thankful for the support of:

- ❖ ACIAR
- ❖ ILRI
- And PIGRISK project partners

