TRAJECTORIES OF CHANGES OF PIG FARMS IN VIETNAM: COMPARISON BETWEEN A NORTHERN AND A SOUTHERN DISTRICT

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Pig breeding, the country's 1st meat production sector, is mainly produced in small farms ...

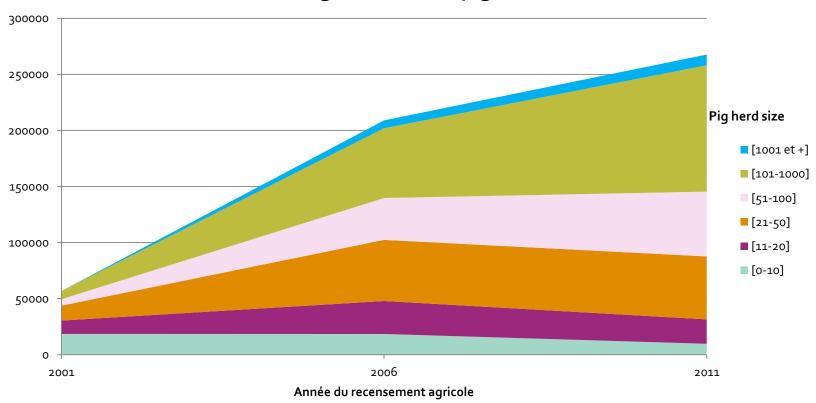
- Mixed farming systems (crops livestock)
- < 10 pigs: 87% of pig breeding HH</p>
- < 3 hectares</p>

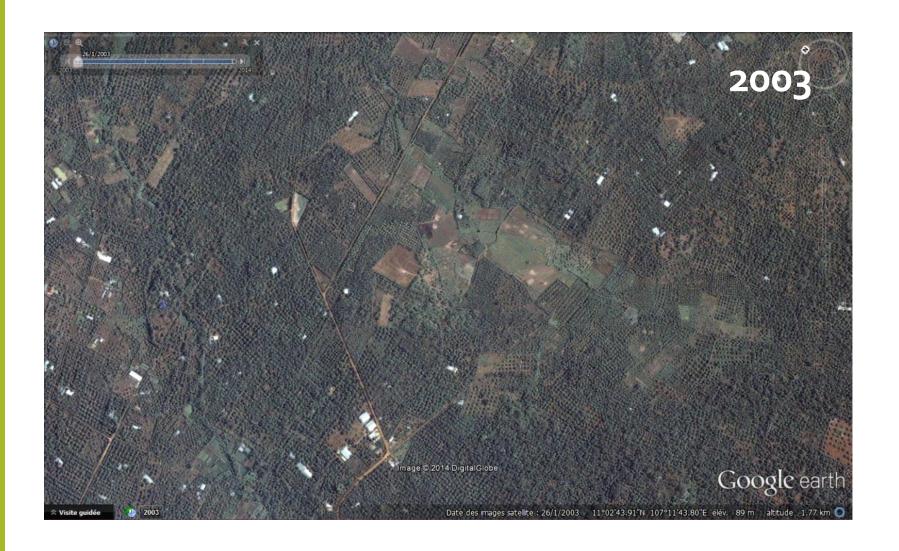
(Agri-Census 2011)

...but it is changing rapidly!

Industrialization of pig production

Evolution of total number of pigs in Thong Nhat district according to different pig herd size







Changes in pig production = intensification of production systems (Lemke et al. 2008)

- Replacement of local pig breeds by more productive breeds
- Development of artificial insemination
- Increasing dependence on industrial feed
- Market integration (inputs and outputs)

A specialization and increase of pig raising promoted by the Vietnamese government (subsidies, companies farms, ...)

Questions

What is the diversity of "Farm trajectories" followed by farmers involved in pig production in Mai Son and Thong Nhat district?

What are the internal and external factors explaining those changes?

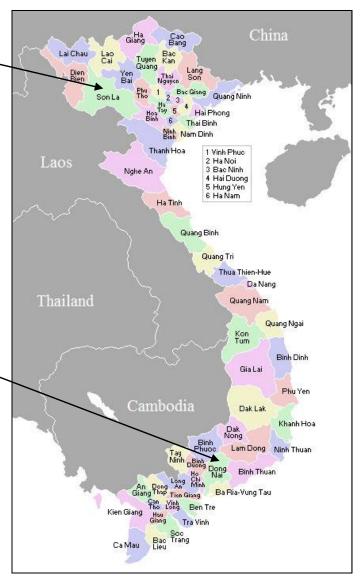
Material and methods: 2 contrasted regions in Vietnam

Son La Province (Mai Son District)

Mountainous district, one of the poorest due to poor access to profitable markets but also to various biophysical constraints to agriculture especially remote mountainous terrain

Dong Nai Province (Thong Nhat District)

Lowland district, involved in the planning program of reorganization of the livestock sector since 2009. Very quick development of pig production



Material and methods: Interviews of farmers

Interview of 20 pigs farmers in each district

Selected to obtain a diversity of pig production size, farm location, combination of activities and ethnicity (in Mai Son)

Questionnaire to describe the detailed "trajectories" of the familyfarm system starting at the installation: Family composition; workforce; Land and crops (types, use, practices); Pig raising (structure and management); Income and loans of the household

Mai Son

3 ethnic groups (1 H'Mong / 9 Thai /

9 Kinh)

0 to 3,5 ha

0 to 11 sows / 0 to 500 fatteners

Sale of pigs (14 farms), sale + consumption (5), consumption (1)

1/3 of local swine breeds



Thong Nhat

1 ethnic group (20 Kinh)

0,3 to 10 ha

0 to 450 sows / 0 to 4800

fatteners

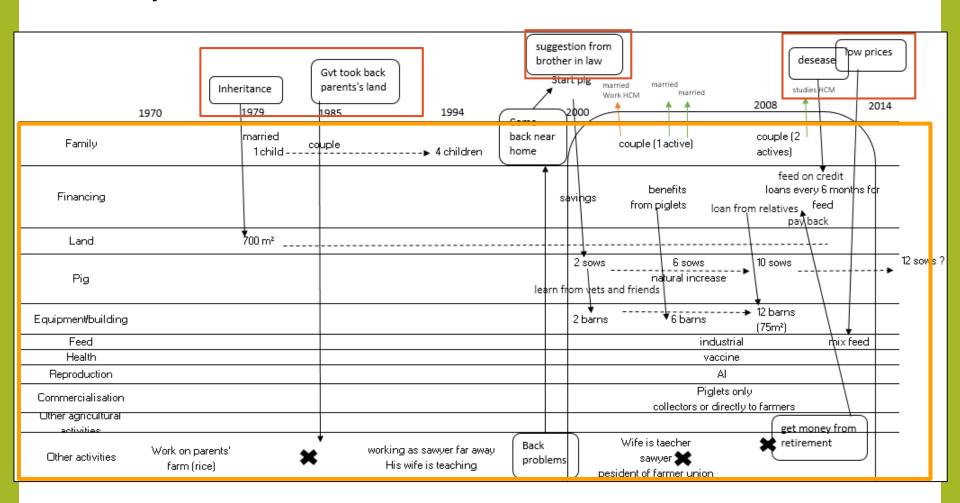
Sale of pigs (20)

100% exotic breed



Material and methods: Data analysis

Analysis of each farm's trajectory and comparison between farms to identify:



Results: 2 different models of development of pig production

An homogenous semi industrial technical system in Thong Nhat

- Dependency to companies (AI, feed, veterinary products)
- No self consumption of pig => commercialization
- Same system: improved building, exotic breed, industrial feed
- High investment (to buy animals, to construct buildings)
- Contracted farms







More diverse in Mai Son

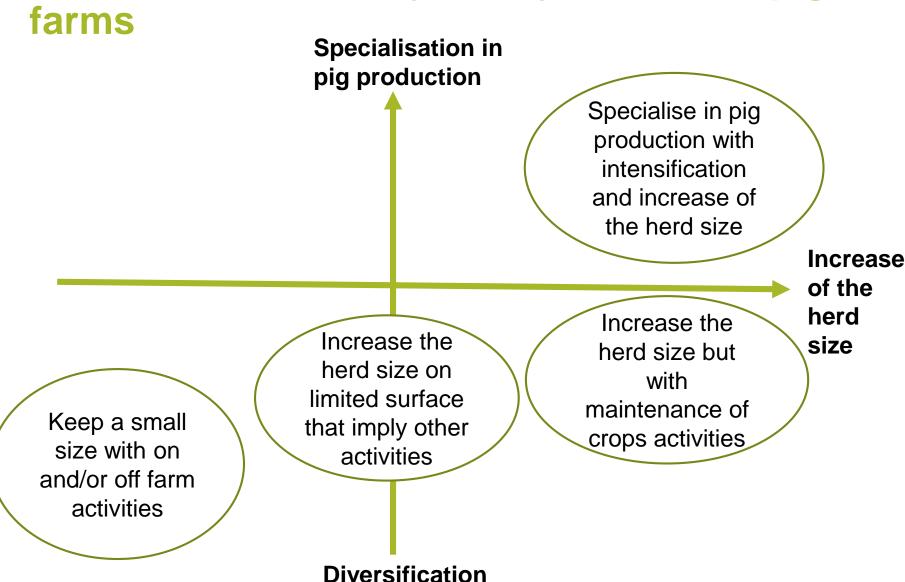
- Local and exotic breeds
- Self consumption and commercialization
- Use of local resources and industrial feed
- Diversity on housing







Results: the diversity of trajectories for pig farms



Results: Impact of external factors

High influence of the value chain

- Inputs available
- loans to buy feed for animals
- Marketing organized by companies (products...)
- Training

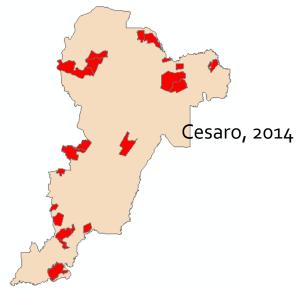


Results: Impact of external factors

Low influence of policies

- Few trainings organized
- Few farms concerned
- For Dong Nai policies for relocalisation of livestock activities are not effective (farms in the urban areas have to move to the

livestock areas in 2020)



Results: Impact of internal factors

Influence of different internal factors at farm level

- Capital: to increase herd size
- Land: to develop crops activities or not; to increase pig production
- Workforce : to develop pig raising or other activities

Discussion and conclusion: what future for pig farms?

Specialisation one of the trajectory followed by farmers but **diversification** remains important. **Intensification** with different levels (breed, feed...) identified in most trajectories. Specialisation and intensification permitted by the development of value chain and market, but some constraining factors (land, labor, capital)

A stronger influence of policies (livestock concentrated zones): a separation between 2 pig farms

- a more urban production for poorer farmers combined with others activities for local production and commercialization?
- a more industrial production in LCZ based on contracted farms?

Young people: pig production is not an opportunity for young people for whom other activities (industrial or commercial) seem more attractive. What kind of workers on pig farms?







THANK YOU FOR YOUR ATTENTION



