

# WORLD AGRICULTURE WATCH SEMINAR

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**What information needs to better inform policy  
on ongoing structural changes?**

**The case of farms monitoring systems in Vietnam**



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# Rapid important changes

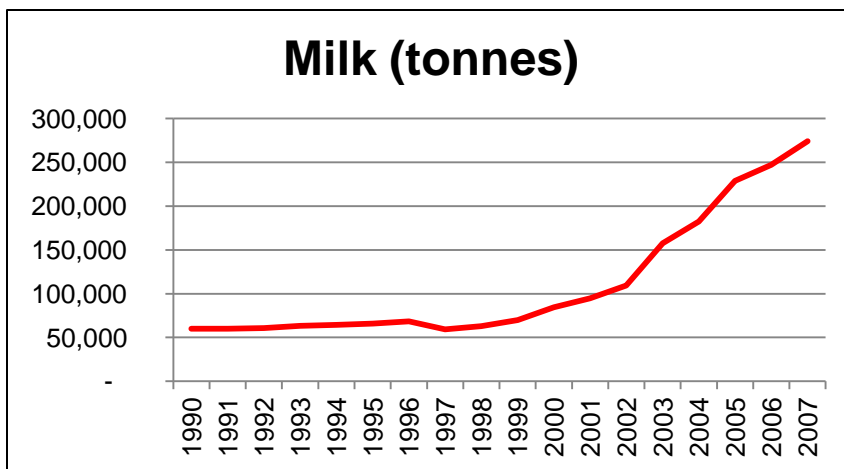


- Move of production zone
  - decrease livestock activity in delta, increase in highland
- Specialization and concentration
- Forms of production organization:
  - Household
  - Farm household, big farm
  - Enterprises / Mega-farms
- Rapid introduction of new high technology
  - breed (exotic, F1)
  - industrial feeds
  - organic products
  - Production technique
- Private investments (as well as public)

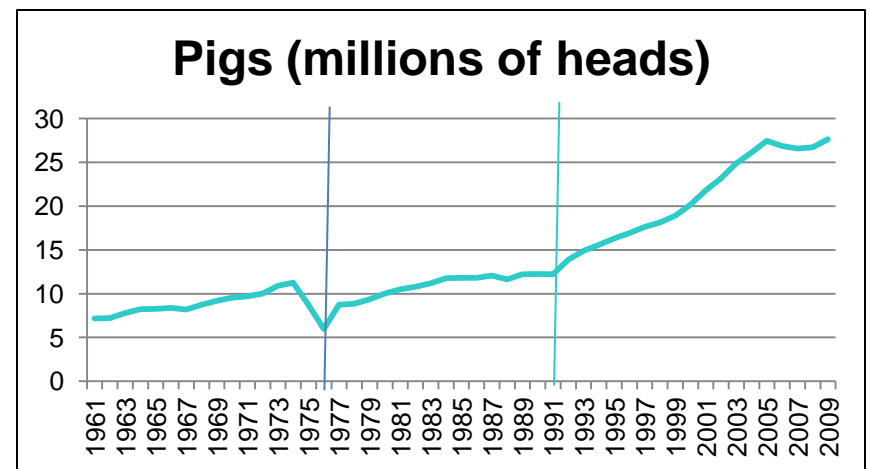


# Drivers of changes

- Public policies and public services
- Integration into international economy, competition
- Urbanization and industrialization
- Natural disasters/Climate change
- Diseases
- Requirement on food safety of consumers



Source : FaoStat



Source : FaoStat



# Challenges for Public Authorities

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- Projection of trend of changes of production system
- Be informed rapidly, exactly and adequately on current production, particularly in crisis cases (epidemic diseases, food safety,...)
- Identify impact of external shocks (crisis, epidemic) on producers (income, production lost,...)
- Forecast the availability of domestic production
- Develop the strategy, supporting policies

**Difficulty: lack of adequate information system**

# Official data / information systems

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## **GSO: (General Statistical Office)**

- Publication of statistic data on year basis
- Big surveys 4 year/time not supply detailed necessary information
- **Data not used for making decision in production management**

## **MARD: (Ministry of Agriculture and Rural Development)**

- Collect quantitative information, firstly plant area
- Surveys by topic when needed, but at small scale
- **Collected information used for making decision in production management, but not sufficient**



# Proposition : to Design of a New Generation of Farms Monitoring Systems

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## **Objective:**

- First of all: respond to the demand of MARD to have timely, adequately the information about real production situation
- Provide information for private sector, market stakeholders, extension agents, producers
- Establish database serving researchers, development of strategy

# Approach

## Information need of stakeholders

- Policymakers
- Market actors
- Extension agent
- Researchers
- Producers

## Kind of collected information

- Form of production
- Production scale
- Mode of production
- Market relationship
- Economic efficiency
- Reaction to policy

## System organization

- Central
- Province
- Commune
- others?

## Means of dissemination

- Bulletins
- Research papers
- Conferences
- Media

## Collect whose info

- Producers
- Market actors
- .....



# Preliminary Activities for Designing a Livestock Monitoring System

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- 2010 : National seminar for identifying the needs for a new generation of farms monitoring systems (with MARD)
- 2011: Survey on the structure and changes in mode of livestock production and marketing



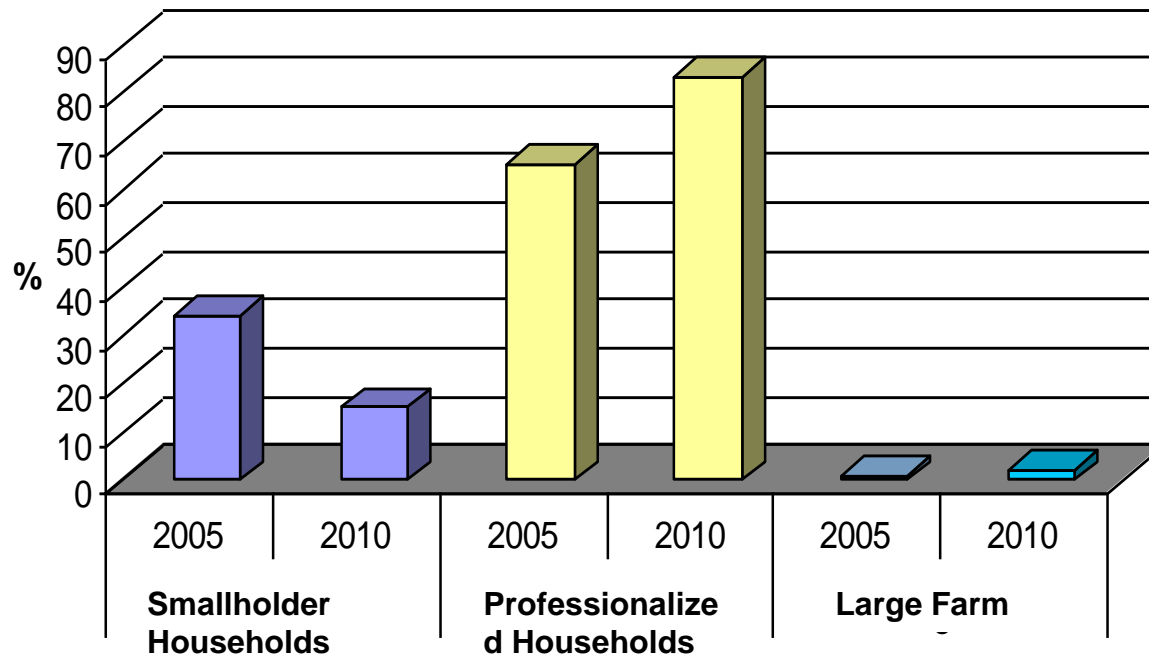
# Survey on the structure and changes in mode of livestock production and marketing

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- MARD have not the information at farm production for planning and developing policies
- Collected Information on 4 forms of livestock organization:
  - Structure of form of production
  - Infrastructure and equipment for raising
  - Structure of breed used
  - Production scale of farm (head, farrows, raising time,....)
  - Used feed
  - Preventive and treatment measure
  - Access to public services (vaccine, treatment, artificial insemination,...)
  - Production and productivity
  - Marketing of livestock products (type of buyer, mode of marketing)
  - Strategy/plan of breeders

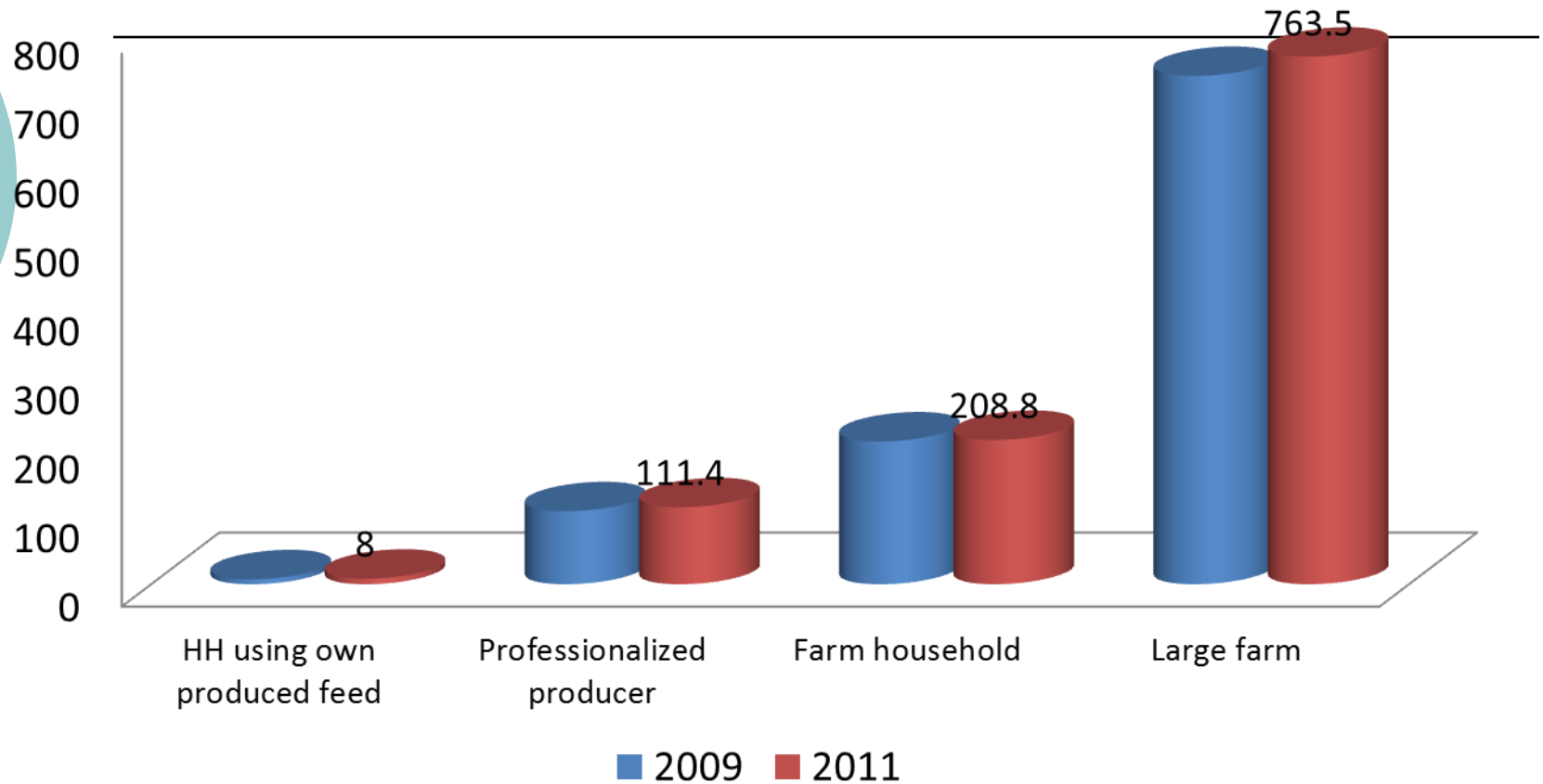
# Example : Data on pig farms in Vietnam (2011 survey)

## Results 1 : Changes in livestock farming structure in Dong Nai province



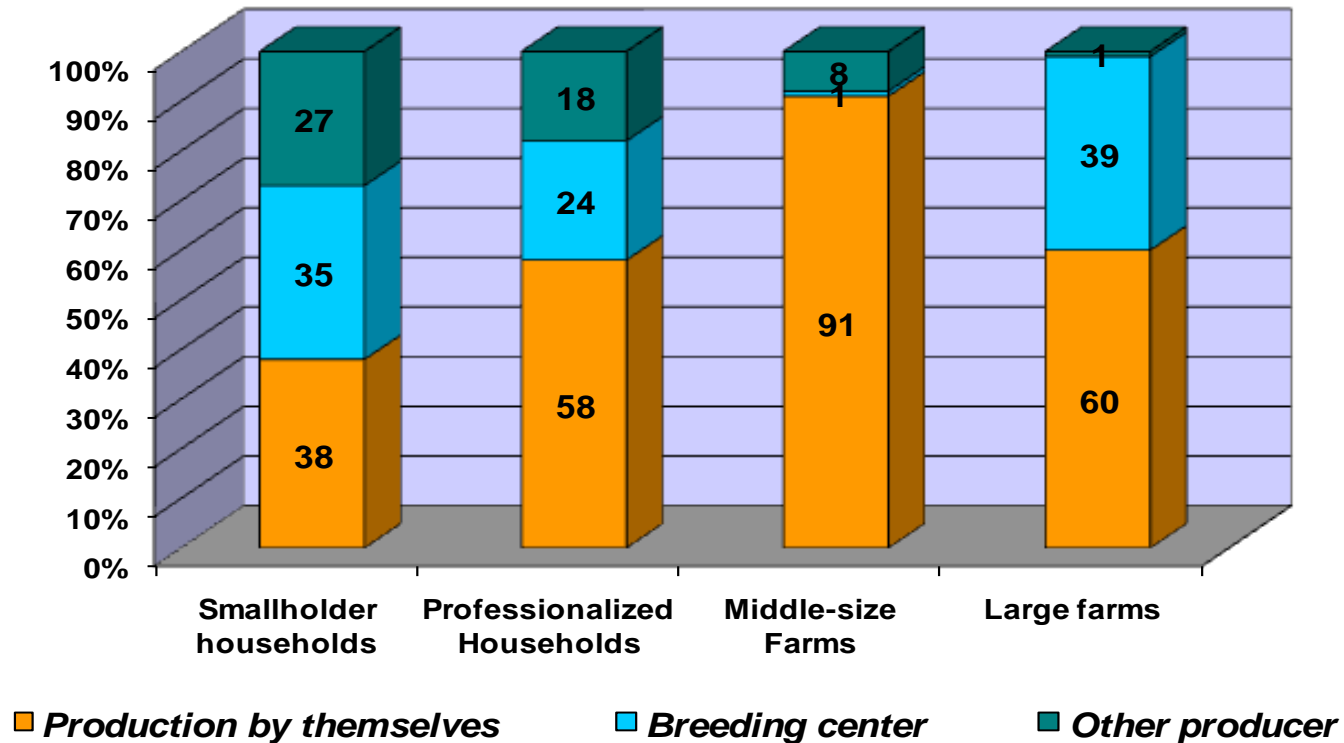
**In 2010, Households (small and professionalized) account for 93% of total pig population.**

## Result 2 : Number of pigs (for meat) per farm per year



Source : Hoang Vu Quang et al., 2011

## Result 3 : Pig Breeding Sources



Source : Hoang Vu Quang et al., 2011

# Preliminary Activities for Designing a Livestock Monitoring System

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- 2010 : National seminar for identifying the needs for a new generation of farms monitoring systems (with MARD)
- 2011: Survey on the structure and changes in mode of livestock production and marketing
- 2011: Study for :
  - identifying the information need of policymaker and researchers toward dairy farms

# Needed information for monitoring the dairy farm

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- Race
- Milk productivity
- Production unit cost
- Marketing
- Prevention/treatment of diseases
- Utilization of feed
- Investment

# Preliminary Activities for Designing a Livestock Monitoring System

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- 2011: Survey on the structure and changes in mode of livestock production and marketing
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  - identifying the information need of policymaker and researchers toward dairy farms
  - Identifying the capacity in providing the information of producers: frequency for providing the information, type of information,...
  - Reviewed the experiences of some models applied in France

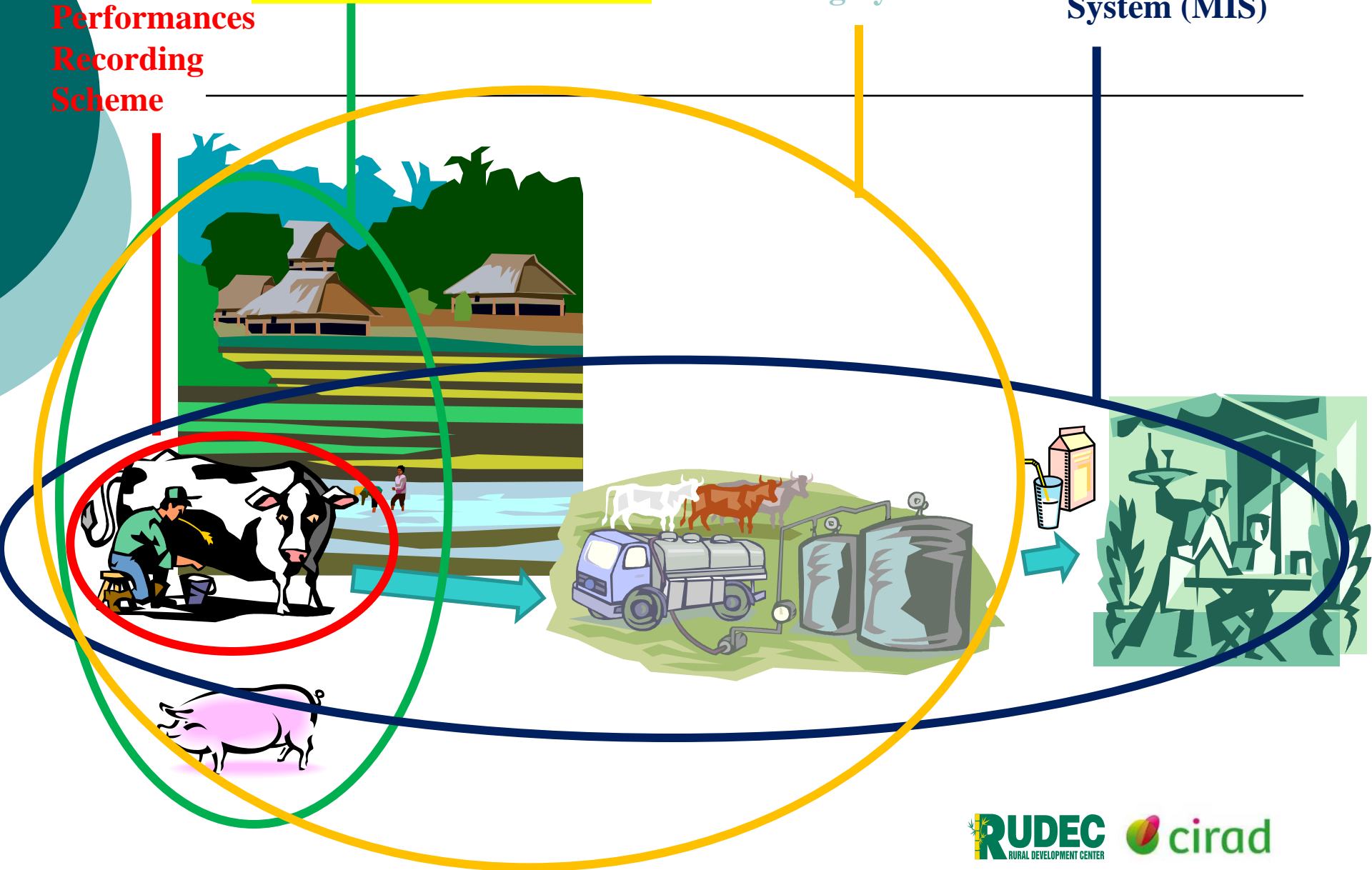
Conducted by RUDEC and CIRAD  
Financed by MARD (and CIRAD)

# Farms Monitoring System

Individual  
Animal  
Performances  
Recording  
Scheme

Spatial / territorial  
Monitoring System

Market  
Information  
System (MIS)





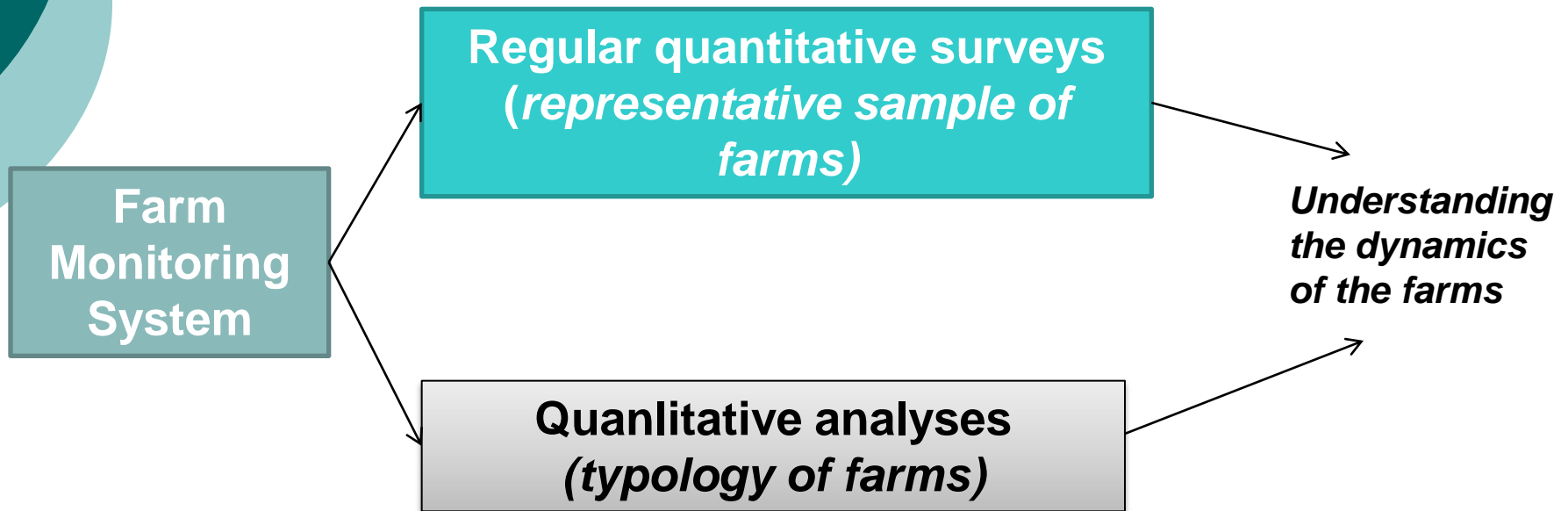
# FAO TCP for Livestock Monitoring System

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- TCP for supporting the setting up of the monitoring system
  - Form of production: diversified and very changed
  - Rapid apply of new technology
  - Diseases, need immediate interventions
  - High competitiveness with imported products
  - Serious lack of information for production direction
- Expected output of TCP
  - model for organization of monitoring system
  - Policy bulletins for policymakers
  - Database for developing models serving to developing policies

# Setting up a Farms Monitoring System

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# Prospects for Near Future

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- Finalize the methodology according to current needs of Vietnamese authorities, objectives, and available resources
- Viet Nam livestock farms monitoring system as pilot point in the WAW global Initiative?
- Support such initiative in other agricultural sectors





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**THANK YOU !**