



Synthesis of scientific priorities **MARD - CIRAD**

2009-2013

MARD-CIRAD meeting Hanoi, May, 29th





The research platforms in MARD-CIRAD partnership

PCP-MALICA

Markets and agriculture linkages for cities in Asia Nguyen Van Bo (Vaas) / Dao The Anh (Casrad)

PCP-PRISE

Truong Van Dung (Nivr) / Cédric Le Bas (Cirad)

Management of mountainous natural resources

Mountainous Agrarian Systems (SAM) Le Quoc Doanh (Nomafsi) / Damien Jourdain (Cirac

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Main common research questions to answer

•In terms of public policies, how can agricultural production contribute to reduce structural inequality and poverty?

•In terms of food production, how to develope safe and productive farming systems based on intensive agriculture taking into account the natural biological and ecological processes?

•In terms of food quality and safety, how to innovate in order to make food accessible in quantity, of nutritional quality and safe in both rural and urban areas ?

In terms of sustainable management of rural areas,

how can we balance the areas used for crop, forestry and animal production with other ecosystems in order to renew and preserve natural resources?

In terms of biofuel development, how to use agricultural and forest biomass as bioenergy avoiding competition with food crop production ?

•In terms of infectious disease risks, how to anticipate and manage the sanitary risks (chemical, microbacterial, toxins...) linked to wild life and farm animals?

Main common research questions to answer

In terms of public policies, how can agricultural production contribute to reduce structural inequality and poverty?

- Integrating the poor in the stakeholders' organisation for food quality chains

 Market opportunities for small farmers in the dynamics of domestic food market

 Employment of the poor in the different types of distribution

 (street vending, shops, markets, supermarkets...)

- Economy of the different farm animal commodity chains
 Involvement of the poor farmers in the management of agricultural policies
 (sustainable integration of agriculture and animal production)
 Adaptation of biogaz technology and its socio-economic impact
 for the poorest farmers in the mountainous regions

- NOMAPSI

 Policies to promote adoption of sustainable agricultural practices

 Development of new cash opportunities with permanent crops and bio-fuels
 (rubber as a new opportunity in north-west Vietnam)

Main common research questions to answer

In terms of food production, how to develope safe and productive farming systems based on an intensive agriculture taking into account the natural biological and ecological processes?

- PRISE

 Socio-economy of the different farm animal commodity chains

 Management of agricultural policies for a sustainable integration of intensive agricultural and animal production

 Management of animal waste in industrial productions

 Fodder production for erosion control and sustainable livestock production

- Sustainable intensification of food production in upland areas
 ecologically oriented production of highly competitive quality products
 Increase land and water productivity of upland terraces
 Further development of Direct Seeding Mulch-based Cropping Systems (DMC) for

- sloping land

 Rubber production as new cash opportunity in the mountainous regions

- Ecological intensification of cropping and animal systems for food quality production
 Production protocols for safe food products and geographic indications
 Evolution of quality standards in relation with changes in domestic and external mark

Main common research questions to answer

In terms of food quality and safety, how to innovate in order to make food accessible in quantity, of nutritional quality and safe in both rural and urban areas ?

- INALICA

 Involvement of small farmers in the production of food quality products

 Role of private and public rules for food safety control (safe vegetables and meat)

 Social change in food consumption, consumers' risk perception

 Impact of trade opening mesures on local domestic food chains

 Access of the poor to safe and diversified food

- Epidemiology of the sanitary risks linked to the intensification of animal production (hormones, antibiotics, heavy metals, bacteria, viruses,
- production (normalises, aniamonus, nearly means, account, in case, parasites, toxins.)

 > Risks linked to the management of farming practices, animal effluents of industrial production in rural areas

 > Technologies of contaminant detection and analysis (microbial, chemical...)

sole intensification of food production in upland areas
criented production of highly competitive safe and quality products









