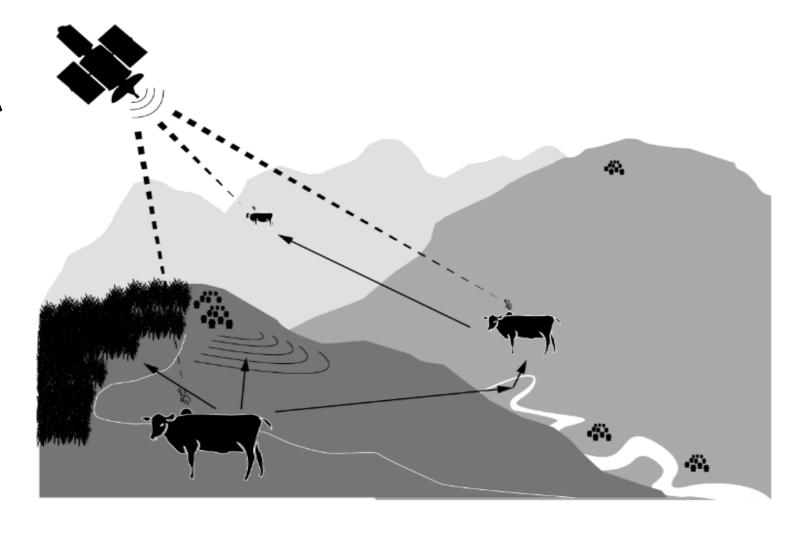
CatTrack-SEA

Monitoring movements and distribution of cattle in upland landscapes of South East Asia











Projet TAG









- Projet TAG "Trade-off and synergies of integrating intensive Livestock production with AGroecology in Mountainous regions"
- Small grant ACTAE
- 2017-2018
- Vietnam, Laos, Thaïlande
- CIRAD (Selmet, Aida, Astre), NIAS, University of Tasmania and Queensland
- Objective: Analyze with smallholders mixed farms and agricultural extension officers, the conditions for insertion of intensive livestock production in complex agro-ecological systems based on CA: trade off and synergies in terms of flows of biomass, use of space and resources, mobilizing simulation tools for the use of resources and space.



Context

- In mountainous regions
- significant population growth
- deforestation and extension of monoculture on the hill slopes
- Soil erosion and nutrient losses
- Conservation agriculture and agroecology proposed
- Expansion of intensive livestock production (beef cattle)
- Feed animals: upland pastures, natural forest and forage fields (animal mobility)
- ➤ Cattle and buffaloes hinder the development of conservation agriculture.
- How to improve the adoption of conservation agriculture and agroecology combining cattle breeding of the mountains of North Vietnam?

Five successive activities

- 1. Synthesis on production and use of forage, conservation agriculture and agroecology in Northern Vietnam and Laos
- 2. Diagnosis of the production and use of resources and spaces in farms and landscape in a village in Diên Biên and in Son La
 - Analyze on a diversity of farms and the practices of biomasses management in farms and territories
- 3. Multi-scale modelling for assessing trade-offs and synergies of integrating intensive livestock production and agro ecology options
 - Adaptation of a simulation tools of crop livestock integration in mixed farms systems
 - Co design of scenario and assessment
- 4. A preliminary study on cattle mobility (proposal CatTrack)
 - Design of GPS tracking devices and data management units
 - Test of GPS tracking system in various field conditions and with different methodologies
 - Prepare the setting up of a full proposal for a more comprehensive project on livestock mobility in SE Asia
- 5. Validation workshop of diagnostic results, co-design of technical and organizational solutions
 - To validate the diagnostic results, the analysis of trade off and synergies with stakeholders and to reflect on implementation scenarios

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CIRAD/KU/NIAS/NuOL











- Poor farmers in remote areas of SEA rely on traditional subsistence systems based on mixed crop-livestock agriculture
- Increasing land pressure and intensification of agriculture throughout SEA leads to increased competition for land dedicated to livestock productions, to crop productions and to protected areas for biodiversity conservation



- Extensive livestock production (cattle, goat, buffalo) rely on communal grazing involving movements of animals at various scales in space (from plot to landscape) and time (daily to seasonal)
- But we currently lack quantitative information on livestock movements and their impacts in agropastoral landscapes of SEA

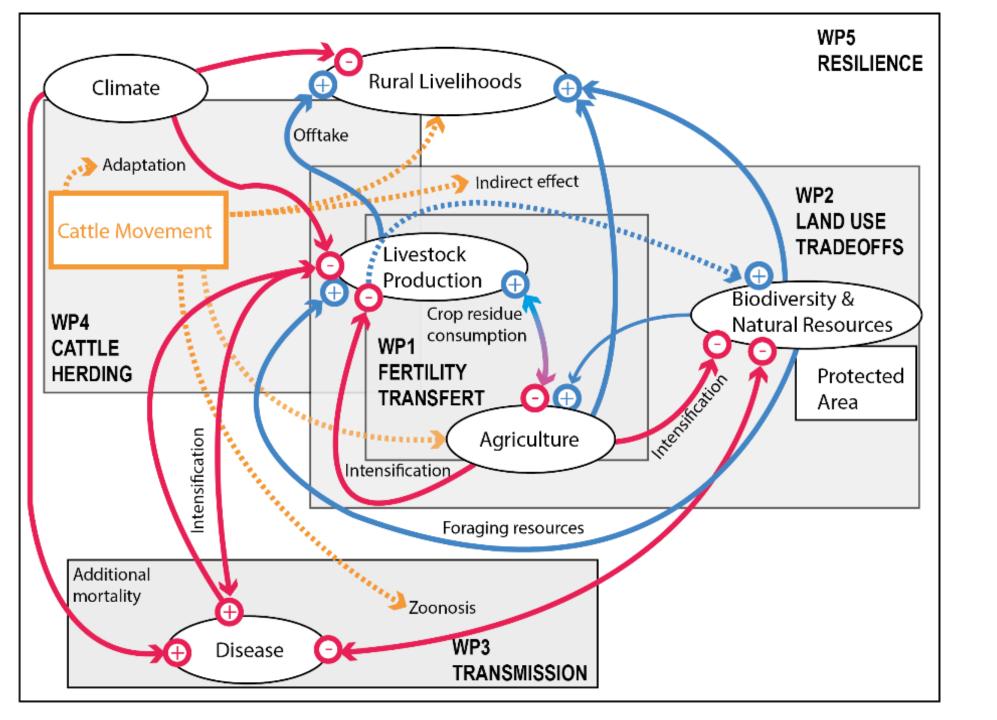
→ Need for the developement of appropriate tools and analytical methods to monitor and optimize livestock movements









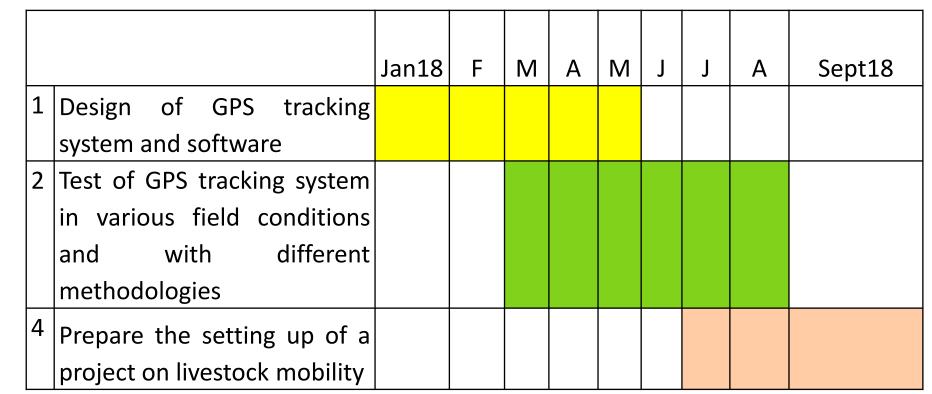


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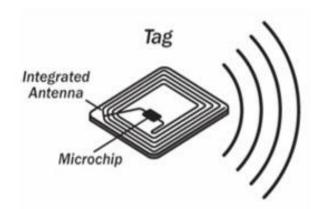
Partners and study sites



- 2) KU (Vet Med, KU Engineer.)
- 3) TICA/HealthInterface; GREASE network
- 4) National Institute of Animal Sciences (NIAS)
- 5) National University of Laos (NUoL)









Internship SEAOHUN





INTERNSHIP PROPOSAL



	CIRAD/Kasetsart University, Thailand
Title of the internship	Monitoring wildlife-livestock interfaces in Thailand: preliminary study of livestock movements in Salakpra no-hunting zone, Kanchanaburi province

SEAOHUN facebook at https://goo.gl/hcT2Tq; Contact jutamart@seaohun.org

- WP2_KU-Vet Faculty_grant#1/Dr S. Sripiboon
- → Salakpra area; livestock sampling/screening for pathogens and vectors); 100.000 THB