



# Tradition and innovation in Caribbean livestock farming systems: old rum in new barrels.



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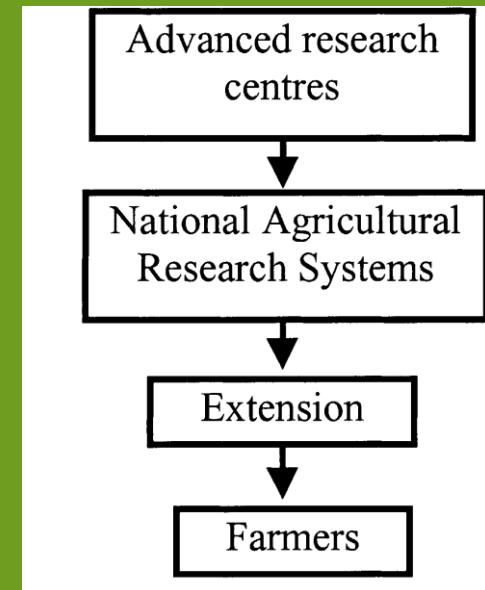
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# INTRODUCTION

- lack of adoption of certain technologies at the farm level and particularly in tropical regions.

The transfer of technology (TOT) model  
**classical mental map** of how knowledge in the form of technology is developed and is transferred to farmers.

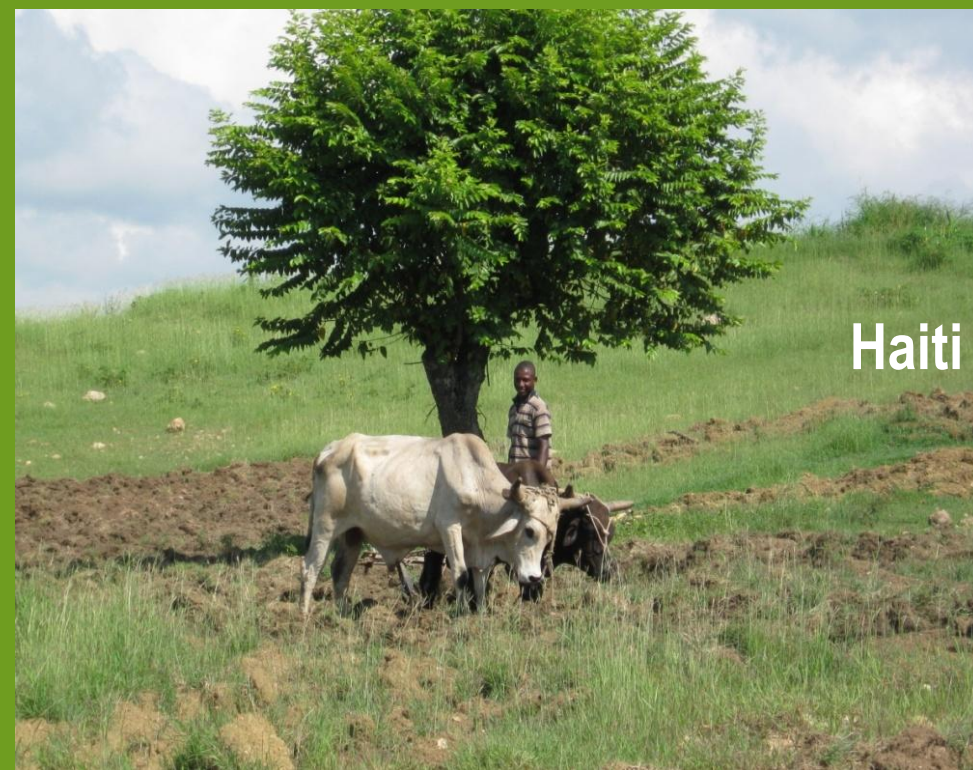


- Meanwhile, livestock keepers have **steadily accumulated indigenous traditional experiences** that have built sustainable LFS

Traditional!!!

Why?? What?? Who?? Where ??

Haiti



Guadeloupe



\_01

And how ?? **Context**

Deep know -how

# Different systems of tropical animal production

According to environment  
Resources, constraints, ...



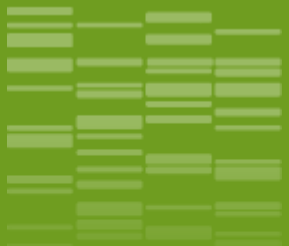
# Different systems of tropical animal production



According to equipment,  
markets, ...

**But also, family, training,  
objectives, standards &  
references**





**\_02**  
**Facts**

## 2. Use of by-products

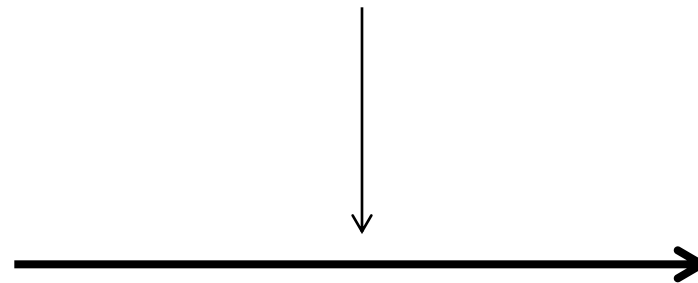
exploiting the crop by-products at the farm level is very frequent

- Not practical
- Time consuming
- Unbalanced diet
- Poorly assessed



\*The agro-industrial sector studied the interest of pellets production combining different non-conventional feed sources (on their nutritive and agronomic characteristics basis)

← further research are required



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### 3. Creole remedies/ Trinidad&Tobago (Lans 2001, ethoveterinary) Guadeloupe (Marie-Magdeleine 2010 neutrocicals)

determining, through an **ethnoveterinary enquiry**, the natural or agro resources that are employed to cure the animals,

Lans 2001 (from 28 ethnobotanicals)

Scientific name	Common name	Plant part used
<i>Azadirachta indica</i>	Neem	Leaves
<i>Petiveria alliacea</i>	Gullyroot	Roots
<i>Ruellia tuberosa</i>	Minny root	Roots
<i>Stachytarpheta jamaicensis</i>	Vervine	Leaves



has lead to acute **biochemical studies** .....

In vitro vs. in vivo / eggs, adults, L3  
Compounds amino acid or terpenoid  
Alkaloids, terpenes, ...



... to enhance the use of **neutrocicals** (feed and health) against parasitism in SR

# 5. Di-moitié deeply embedded into the Caribbean society

Haiti (1985)/ St Lucia (1988)/ Guadeloupe (Salas 1989)

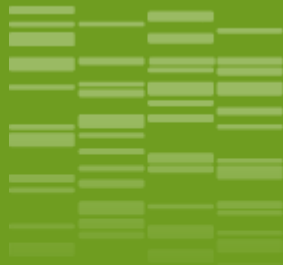
sharing the livestock capital by dividing the offspring between owners and breeders

\* between the owner (frequently not a farmer) → (investments ..capital.. live-stock)

\* and the breeder → "land" and labour )



\* that NGO use this system for half-half sharing between donors (NGO's or is the key principle used for creating connective system international foundations) and poor and/or landless farmers where recipients agree to share the offspring of gift animals with others in order to implement animal activities within their farm-family unit



However some cases of subdued or rejected techniques although based upon traditional practices

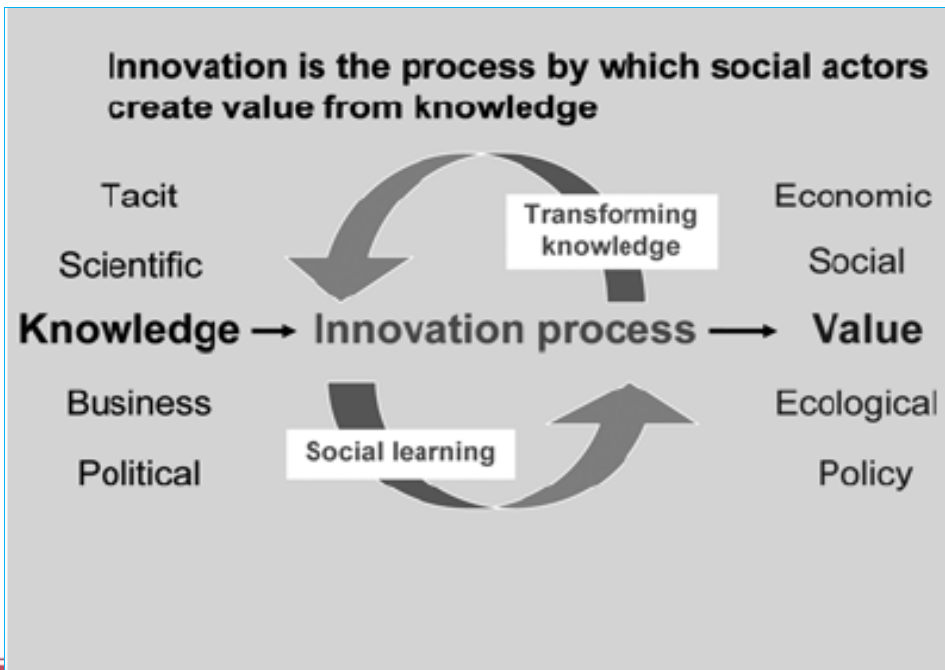
→ *Identify in terms of human values the causes leading to the rejection in an official context, while in an officious context they are relevant to the local farmers*

**\_03**

**Questions**



How to allow synergistic interactions that promote diverse flows of traditional and modern knowledge



Towards a changing vision :  
from the 'top down' approach to a  
**participative approach** of innovation

# Conclusions

## contextualized research agenda

- reorganizing the innovation process while changing the mental map of TT for a territorial development plan embedded into the natural and socio-economic context
- based upon participatory action approaches to

\* analyze the process of appropriation or rejection (identifying the cognitive and historical sources);

\* improve organizational cultures and behaviors and fostering networks and linkages;

\* aiming at introducing new products and processes that are socially or economically relevant to smallholder farmers and other actors in the LFS sector



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# Whatever the participatory action approaches can be



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Thank you for your attention !!



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