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Analysis of stockbreeder hierarchies within the livestock farming domains (cattle and sheep)

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Problem:

how to provide information to livestock farmers?

- 1) Decrease of means (less money)
- 2) Level of knowledge of the farmers increases
- 3) Problems to solve are more and more complex (economy, technical, ethic, environmental and social problems)

Objective of this study

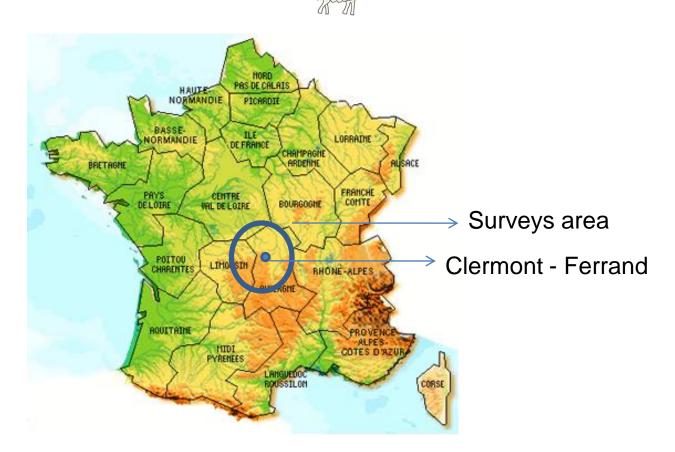
To analyse the relationships between:

 The hierarchy made by farmers with the different tasks they have to accomplish

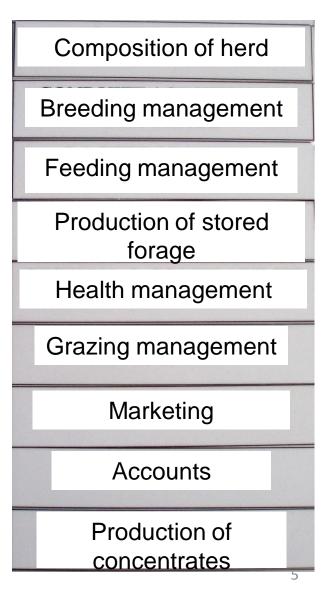
The mode of mobilization of information

Hypothesis: New methods should take into account these two points

- 54 surveys
 - > 30 beef cattle farmers
 - > 24 meat sheep farmers



9 livestock farming domains



- 9 livestock farming domains
 - 1) Classification according to 3 criteria:
 - Attractiveness

Magne et al., 2007

- > Importance
- > Satisfaction

- 9 livestock farming domains
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 - Attractiveness
 - > Importance
 - Satisfaction

Example: Importance



1 : Very important

5: Fairly important

9: Few important



- 9 livestock farming domains
 - 1) Classification according to 3 criteria
 - 2) Surveys about the management of information
 - > The content, the origin and the medium of information
 - > The motivation of the farmers to search information

Results and discussion

- 1) Hierarchy made by farmers within the 9 domains => Result 1
- 2) Mobilization of information
 - =>Result 2
- 3) Relationships between these two points
 - => Discussion

Results and discussion

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SATISFACTION





IMPORTANCE







ATTRACTIVENESS

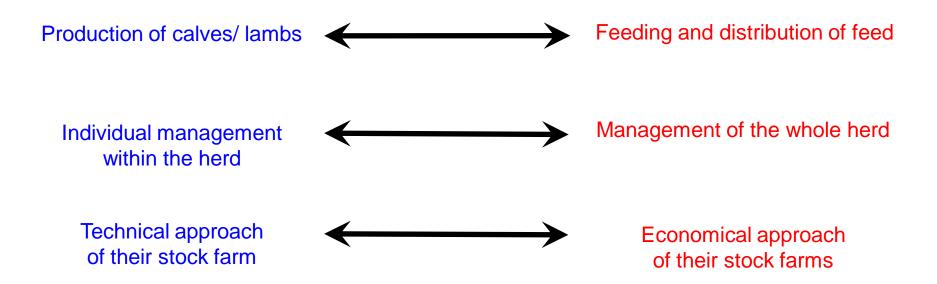




Result 1: Classification of 9 domains

Characterization of the hierarchy made by farmers:

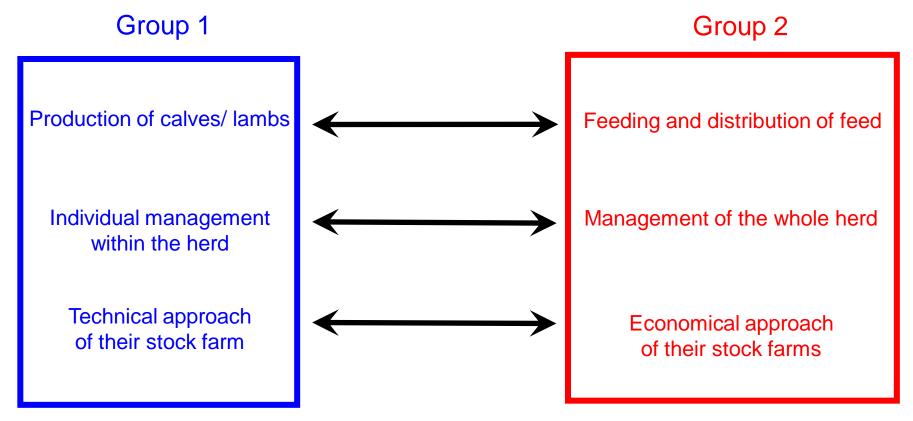
Thanks to a factorial analysis



Result 1: Classification of 9 domains

Characterization of the hierarchy made by farmers:

Thanks to a factorial analysis



Domains close to animal

Domains connected with efficiency & global management

Result 1: Classification of domains

	Group 1 close to animal		Group 2 Efficiency & global management			
Species	20	17	4	13		
Age of farmers	20 to	50 years	50 to 6	50 to 60 years		
% Crops/Area used for agriculture 1	10 %	10 % 10 %	20%	20% 30 %		
Meat production / livestock unit (kg/unit)	204	307 114	320	314 106		
Farm income/worker ¹	23 700 €	29 600 (19 500 (30 000 €	31 900 € 26 500 €		
First domains	Reproduct	ion and health	Marketing / Acco	Marketing / Accounts / concentrates		

¹ Data: average 2007 and 2008

Results and discussion

- 1) Hierarchy made by farmers within the 9 domains => Result 1
- 2) Mobilization of information
 - =>Result 2
- 3) Relationships between these two points=> Discussion

Result 2: Management of information

Characterization of the management of information by farmers:

Thanks to a factorial Analysis

	Group 1	Group 2	Group 3	Group 4	Group 5
Axis 1	All domains		Few domains		Few domains
Axis 2	Autonomy		Autonomy	Assistance	
Axis 3		Technical advisers	Other farmers	Other farmers	Technical advisers
Axis 4		Cost			Skills
	1	1	1	1	1
	<u>20</u>	2 1	3 <u>7</u>	3 9	2 6

Results and discussion

- 1) Hierarchy made by farmers within the 9 domains => Result 1
- 2) Mobilization of information=>Result 2
- 3) Relationships between these two points=> Discussion

Discussion: Cross between classification and management of information

Distribution of sheep and cattle farmers:

	Mobilization	Group 1	Group 2	Group 3	Group 4	Group 5
Classification	Group 1 close to animal		To the second	Ton Ton Ton Ton Ton Ton	To an	TAN TAN
	Group 2 Efficiency & global management		**************************************	\$5-30°		\$5-30 Q

Conclusion

- Validation of the three criteria
- Diversity of classification of breeding activities
- Different strategies of mobilization of information
- Original method to know the classification of 9 domains

Conclusion

- ⇒ New methods of advice
- ⇒ Adapt of advices according to the interest of farmers
- ⇒ Maintain different sources of information to respond to different strategies of mobilization of information

"Post-Doc" about "advice" (The job is vacant!)
Contact: Stephane Ingrand (ingrand@clermont.inra.fr)

Acknowledgment

Thanks a lot for your attention!



Source: http://www.webagri14.com



Sheep and cattle Farmers Delphine Guichette Debord (Chambre d'Agriculture de la Creuse)