

Linking between changes in practices and performances to assess agroecological transition in dairy farms

Case of practices in West Burkina Faso

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Context of milk production in Burkina Faso

Socio-economic and ecological issues

Increase demand for milk Development of the mini-dairies





Technical support initiative for milk production (Al-crossbreed-Inputs)



High seasonality of local production

Increasing land pressure and decreasing rangeland





Change in farming practices towards a dairy production

Pastoral livestock farming in these areas mobilizes ecological processes

Requirements are towards conventional intensification

What are the other possible trajectories besides conventional intensification in dairy farming systems?









Data collection

 Sampling to depict farming systems diversity in the area



NEGER

6 interviews from the initial sample

Data analysis

Monographs depicting practices changes in farming systems



Characterization of practices at Period 1 and Period 2 between 2000 and 2017



Selection of 10 variables

5 themes: infrastructure, feed, origin of feed, mode of reproduction, genetic type

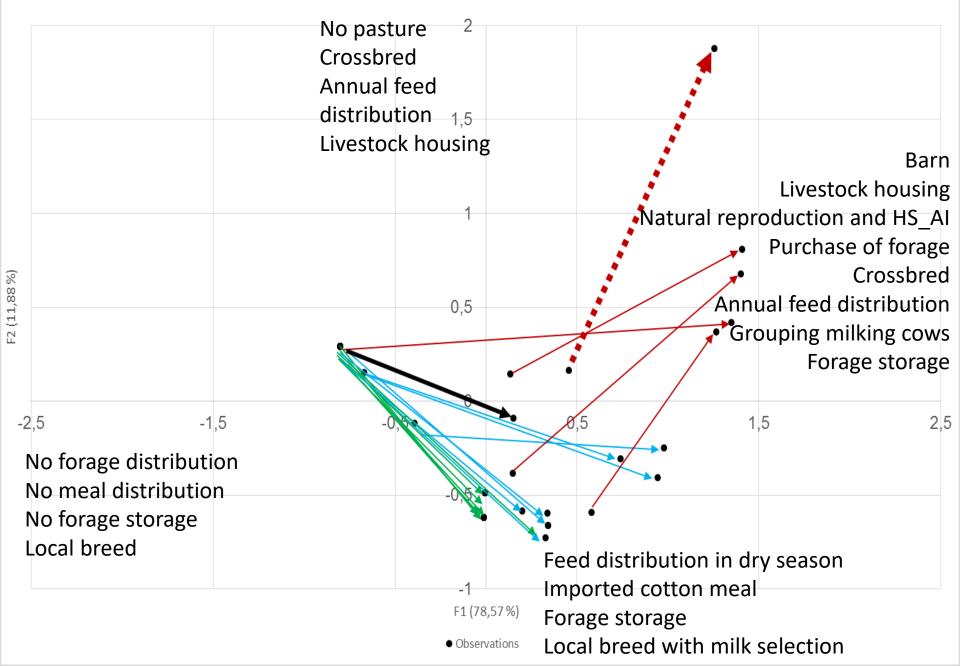


Identification of 5 farm trajectories by an MCA

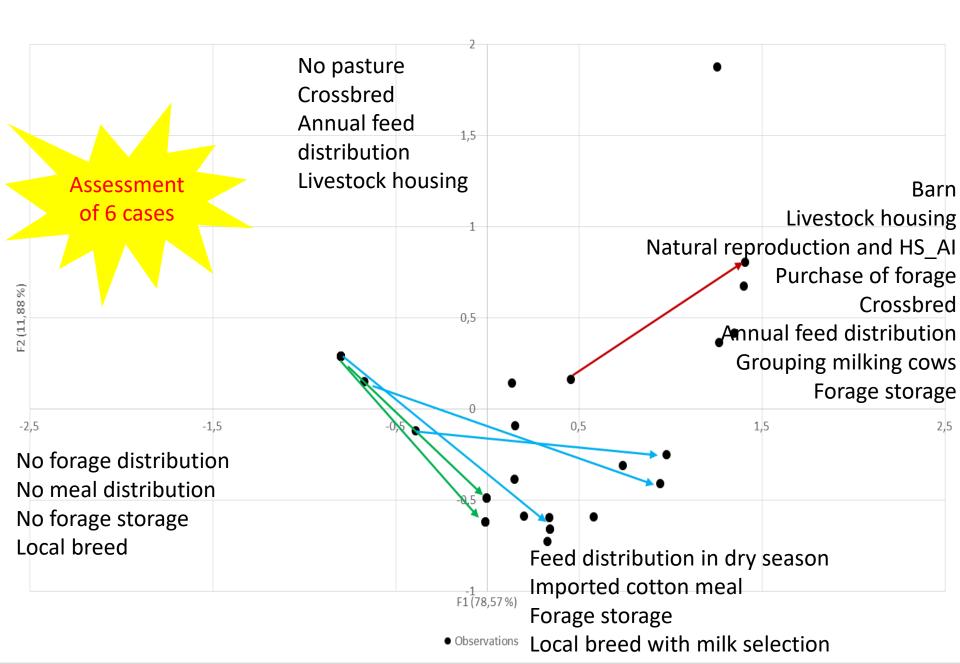


Assessment of the changes in practices on 6 farming systems

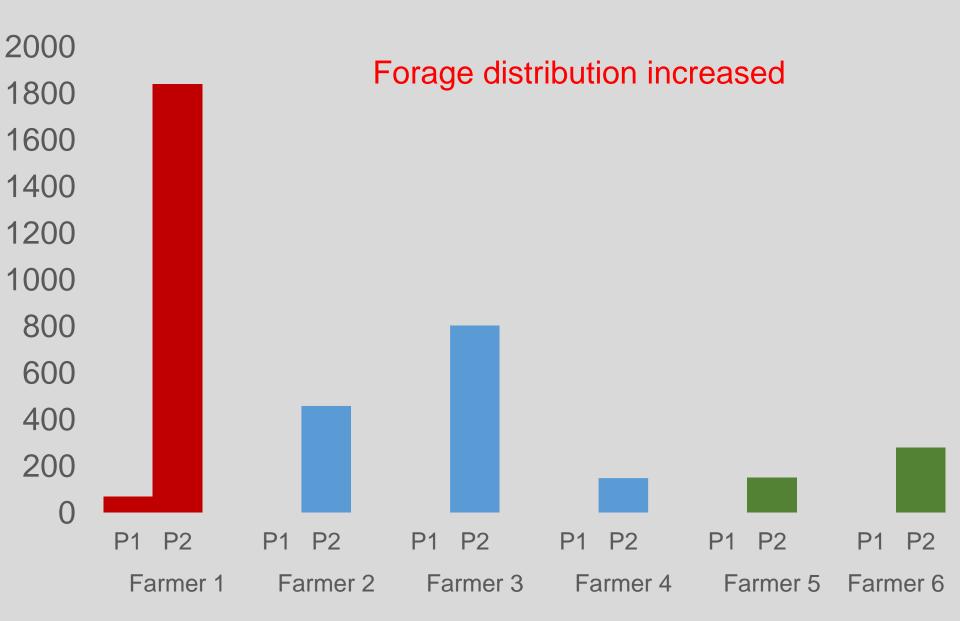
Dairy farming system trajectories



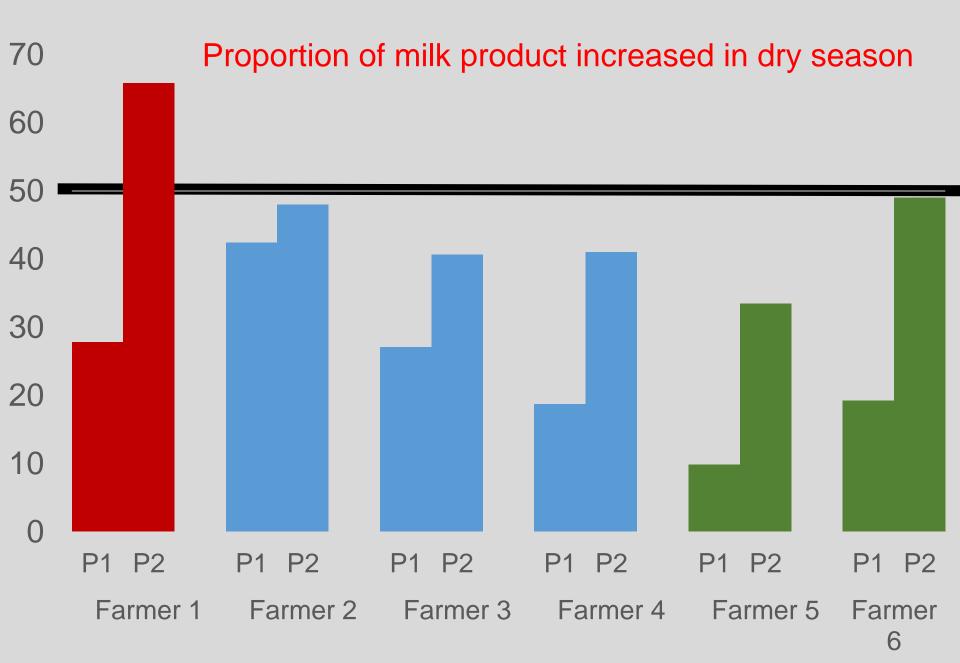
Dairy farming system trajectories

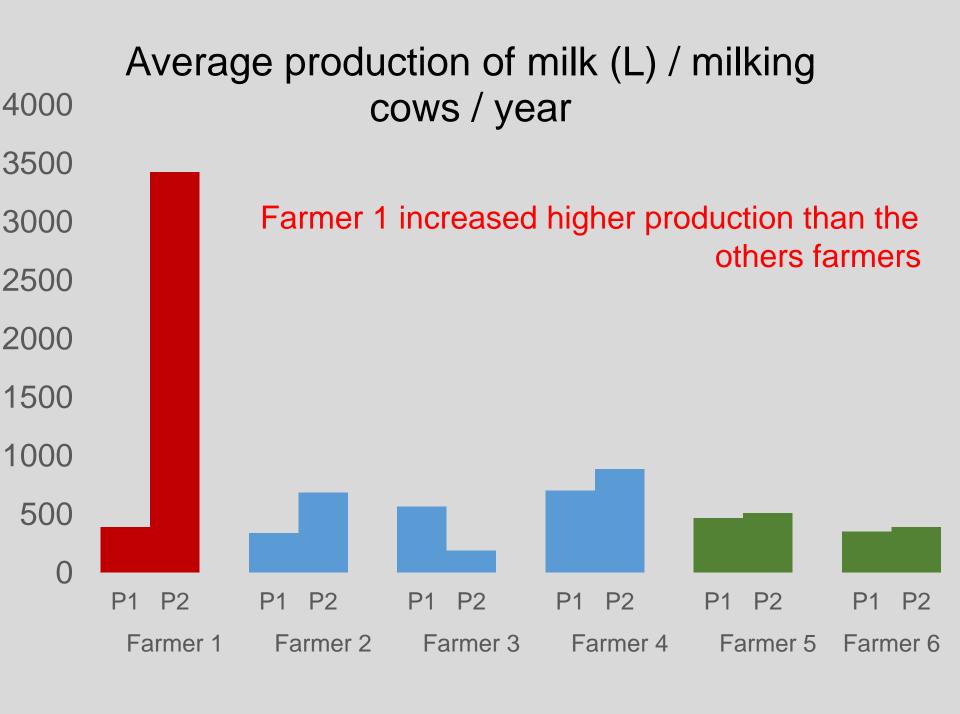


Forage distributed in dry season (kg dry matter / milking cow)

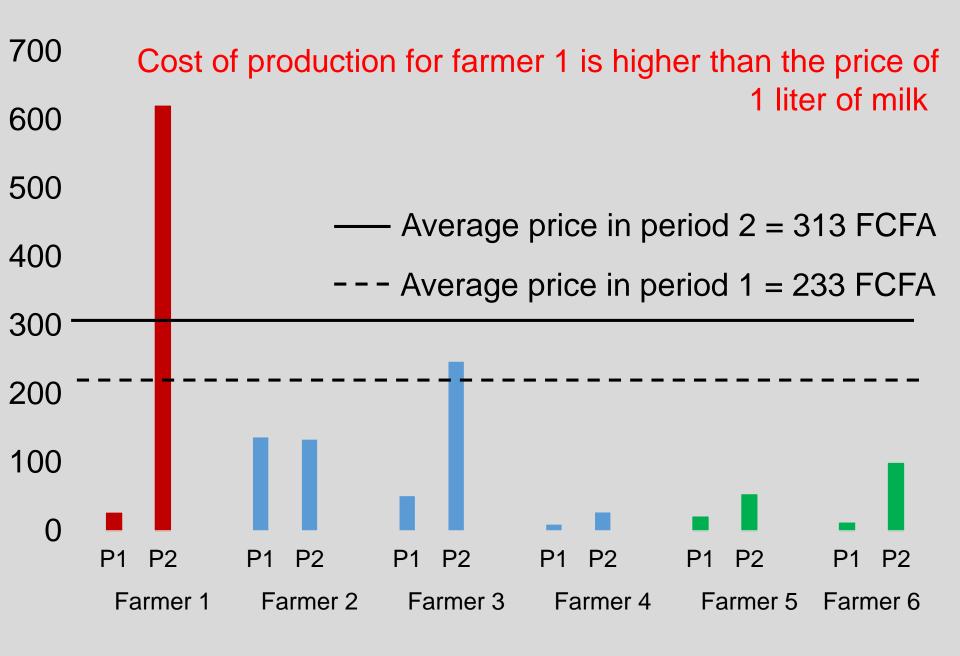


Proportion of milk product in dry season (%)





Real cost / Liter of milk produced (F CFA / L)



Conclusion

5 types of different trajectories,

showing very contrasting evolutions and performances,

which are questioning the processes implemented in the agroecological transition?

Perspectives

Creation of a multicriteria analysis grid



Technical and Economic
Specialization / Diversification
Crop-livestock integration
Work



Characterize the performances with regard to the agroecological transition

Think you for your listening!

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