



Using MCA to characterize organic dairy farms in Europe

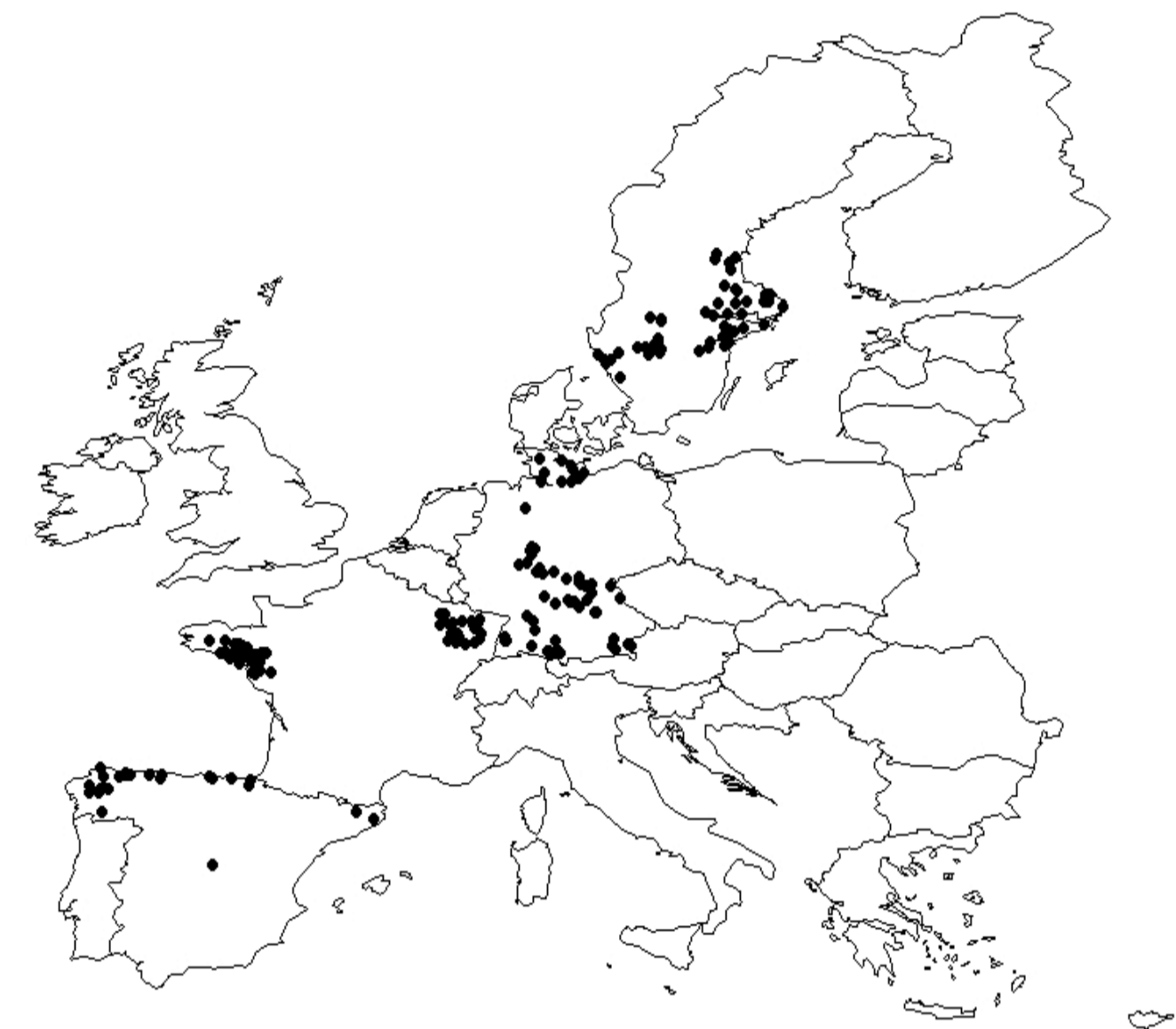
A number of exploratory techniques. Multivariate analysis.

AIM

Identify meaningful typologies across the community of organic dairy farms in Europe based on a battery of farm and farmer descriptors.

CONCLUSION

Three farm typologies (clusters) were identified. **Cluster 1:** Medium herd size farms with moderate use of grazing & moderate intensity of input use. **Cluster 2:** Small scale farms with traditional extensive management. **Cluster 3:** Highly efficient farms with intensive management, but relatively low stocking density (predominantly found in Sweden).



MATERIAL AND METHODS

Study farms

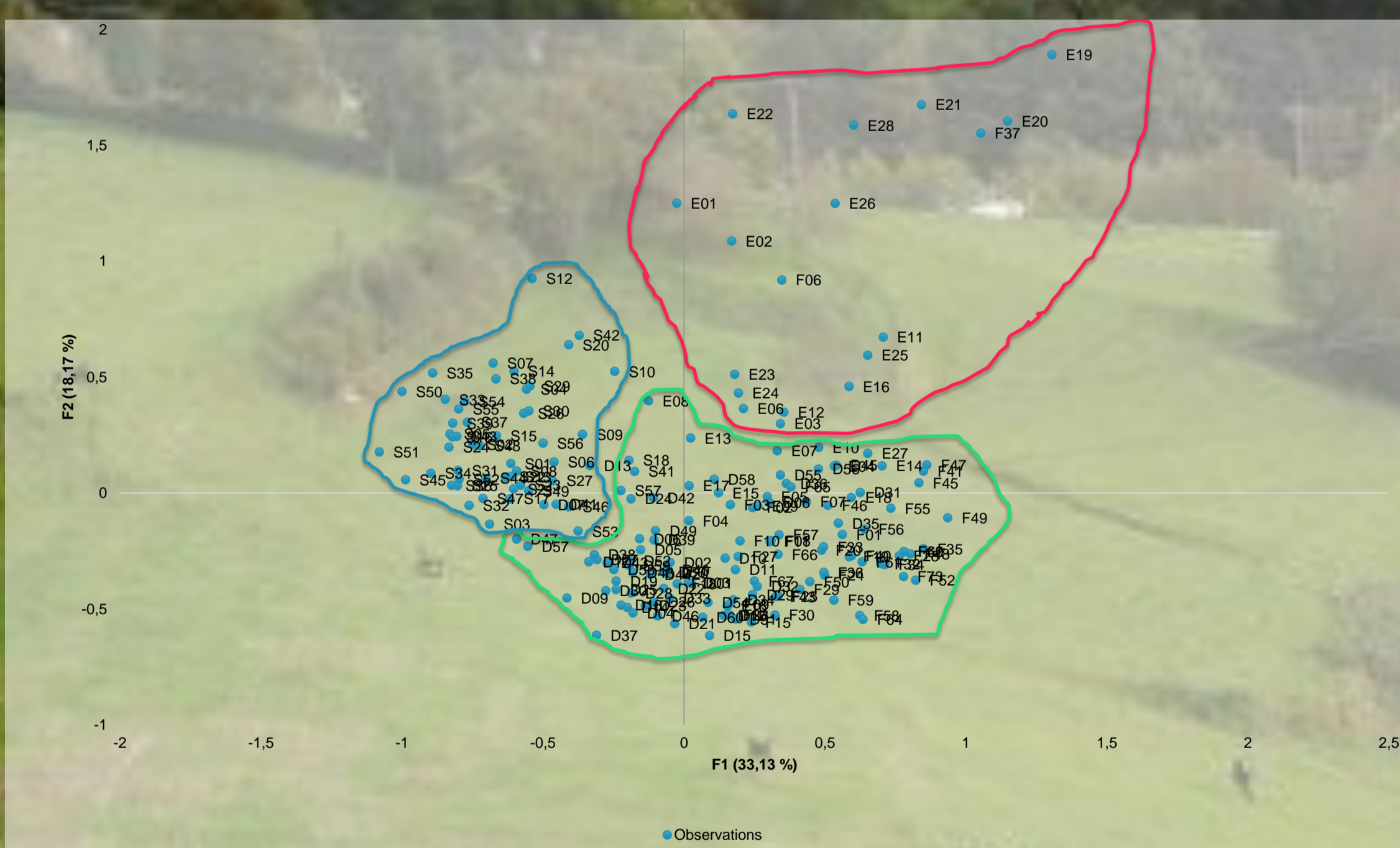
192 organic dairy farms (from 218 contacted) from France, Germany, Spain and Sweden.

Simultaneous analysis of multivariate data sets

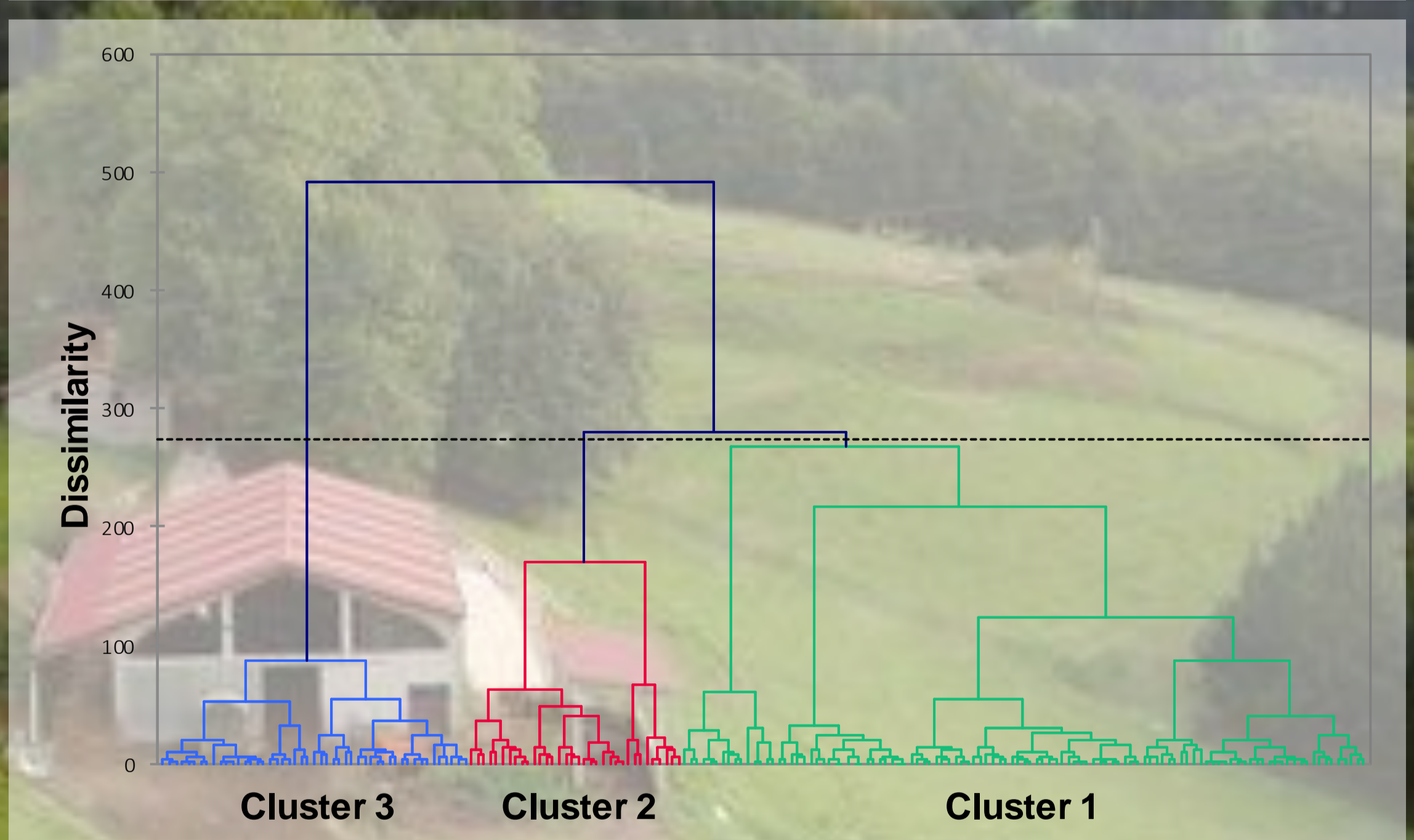
- Structural information (farmer profile, housing, milking system, feeding and reproductive management) –by face to face interviews
- Secondary milk records data

Data Management and analysis

- Review and selection of variables (start :114 var.)
- Multiple Correspondence Analysis (MCA) (most of the available data were qualitative)
- After MCA, Agglomerative hierarchical clustering (AHC)



MCA yielded two principal components axes explaining in total 51.3% of variance



Variation within farm cluster was larger (68.6%) than between cluster classes (31.4%)

Interested? More info at:
<http://www.impro-dairy.eu/>