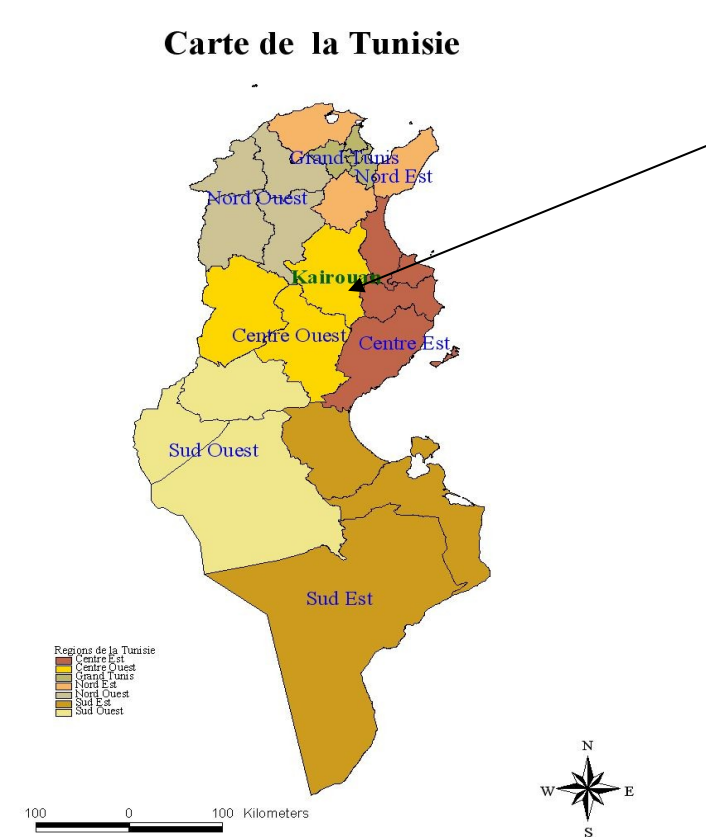


IRRIGATION SYSTEM AS A CLUB GOOD KAIROUAN CASE STUDY (TUNISIA)

BCHIR M.A.(*)(**) BACHTA M.S.(**)

(*)University of Montpellier (SupAgro) – (**)University of Tunis (INAT)

INTRODUCTION



Field case study

Map of Tunisia

Usually irrigation system are considered as a common pool resources. (Ostrom, 1990)

Exclusion is easy in our case. Irrigation system as a club good. (Sandler Tschichart, 1997)

Production of water access = club good

	Rivalry (High)	Rivalry (Low)
Exclusion (Easy)	Private goods	Club goods
Exclusion (Difficult)	Common Pool Resources	Public goods

METHODOLOGY

Indicators:

-Adhesion : intensity of water consumption

-Congestion : water tour

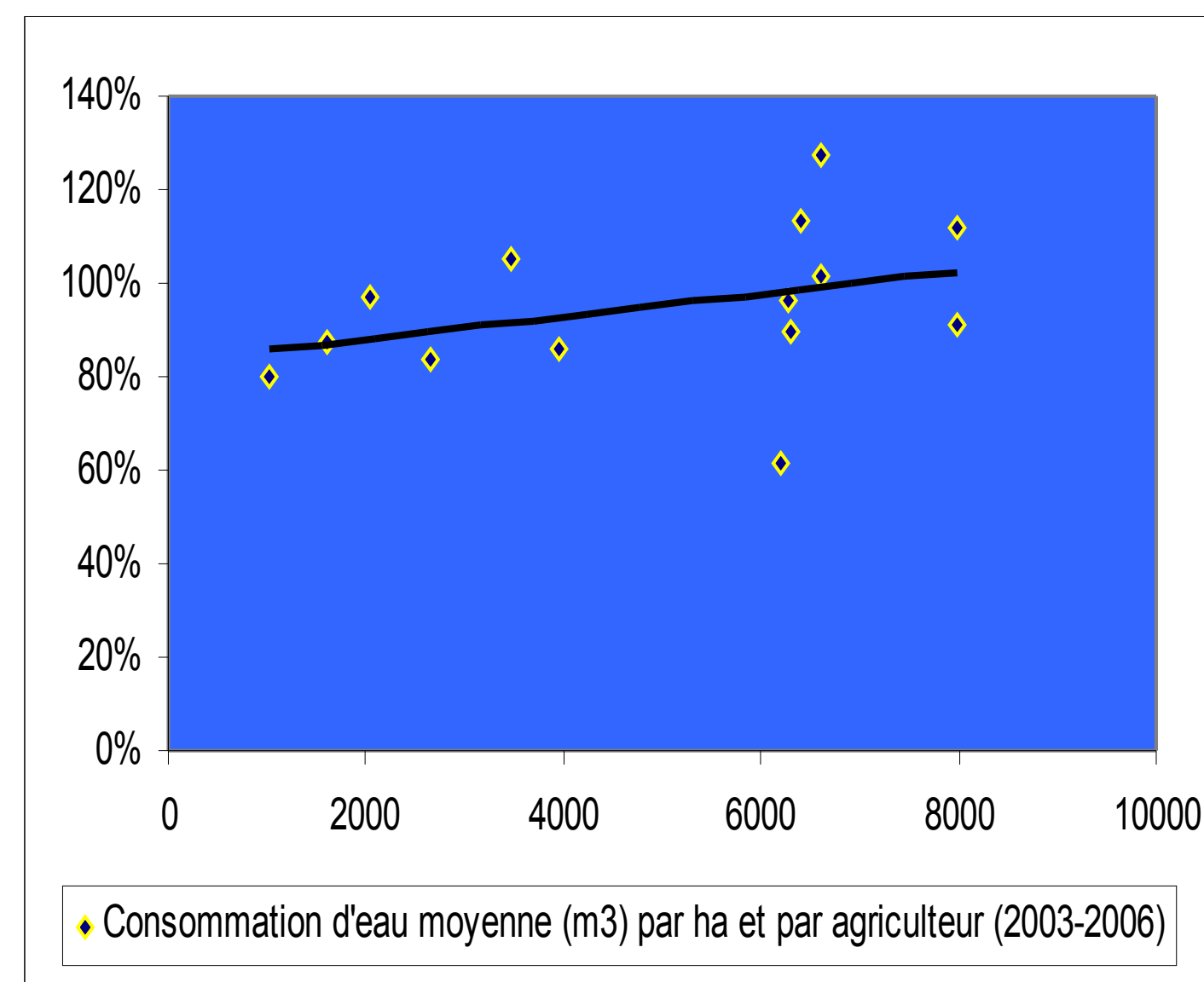
-Heterogeneity : size index

Sample :

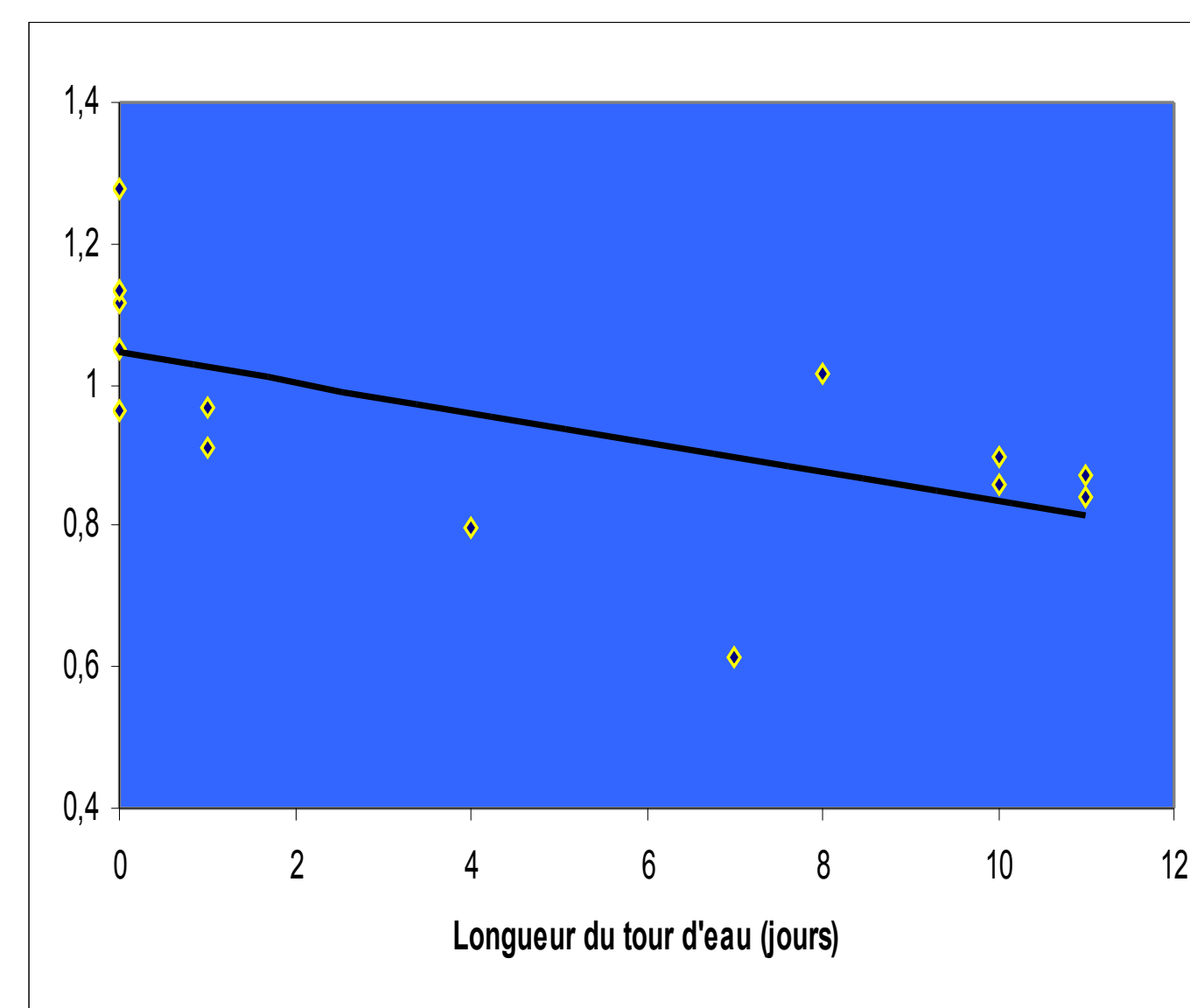
Survey

14 irrigation systems

RESULTS

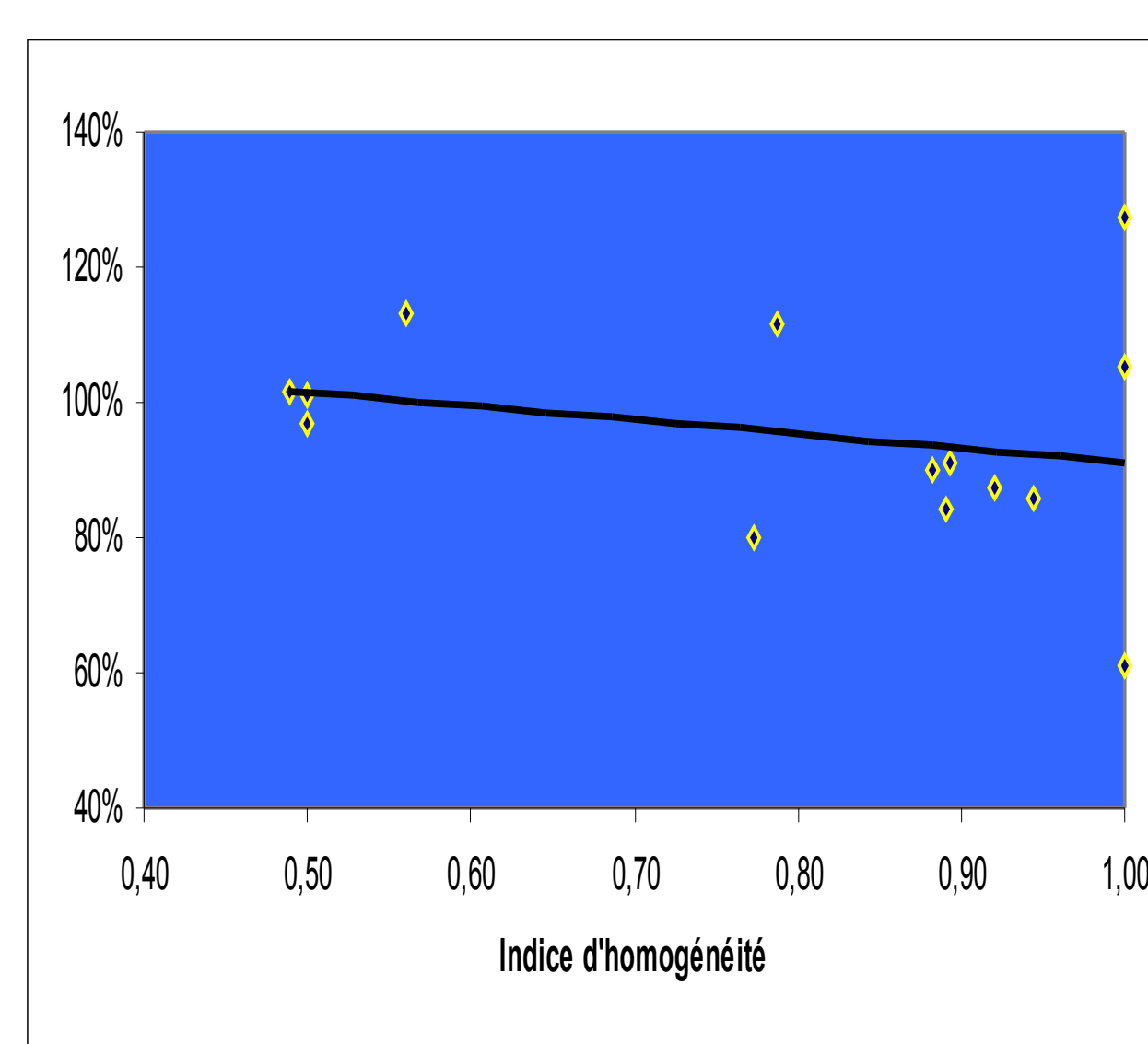


Club production and adhesion of farmers
Performance of the club increases with the intensity of water consumption



Club production and congestion

Performance of the club decreases with congestion (water tour)



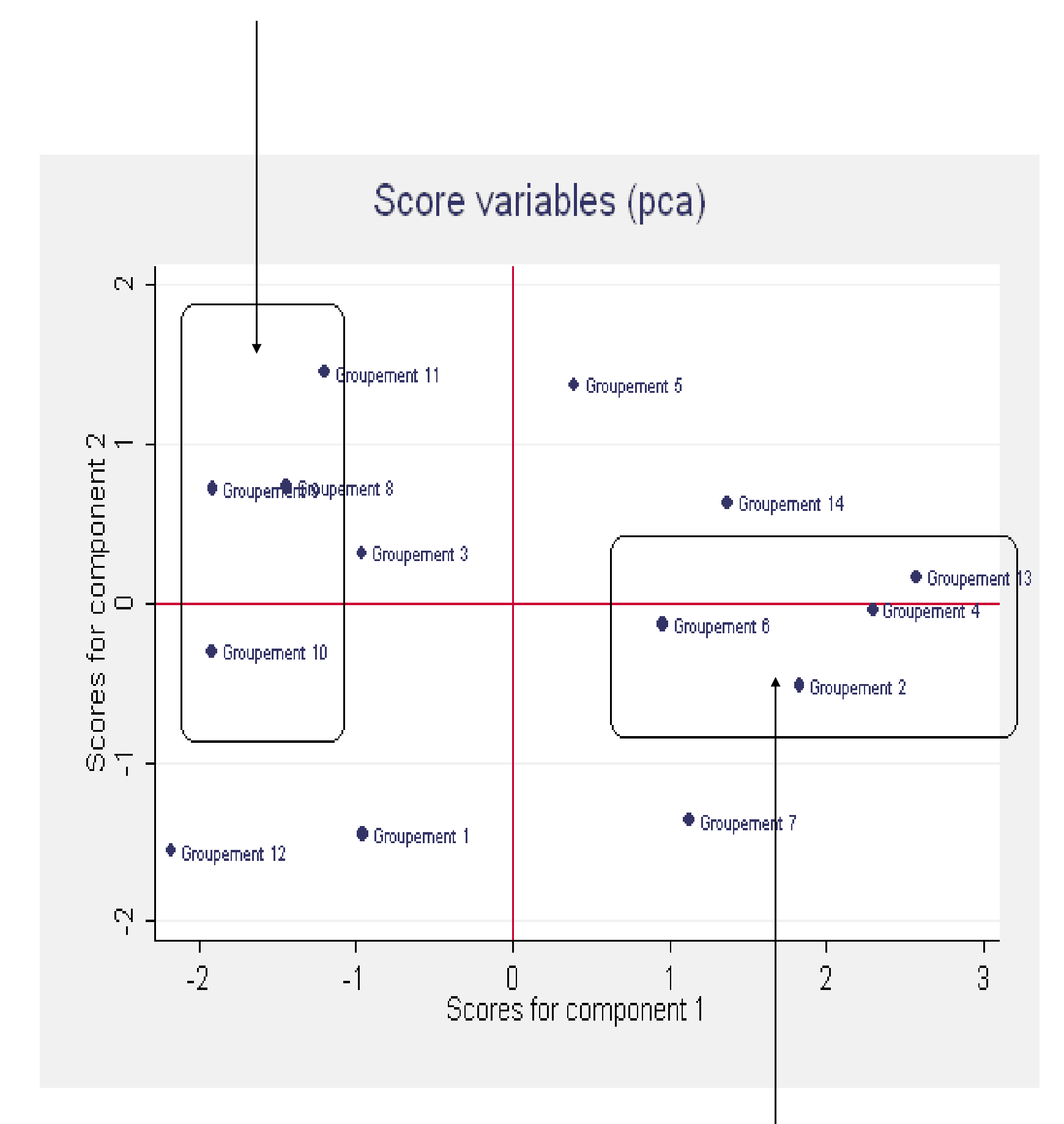
Club production and heterogeneity of farmers

Heterogeneity decreases performance of the club

CONCLUSION

Unsuccessful irrigations systems :

- Low level of adhesion
- High level of congestion



Successful irrigations systems :

- High level of adhesion
- Low congestion
- Highly homogenous

EXTENSION

- Lab experiment Students : Montpellier + Tunis

- Field experiment with Farmers of the irrigated system