

# Building a spatial data infrastructure for an efficient management of agriculture water needs

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**Introduction :** The present study assumes that Spatial Data Infrastructure (SDI) is the first step to succeed the implementation of the geomatic solution for the purpose of agriculture water needs management. This SDI should be in favor of spatial information exchange, assists interdisciplinary collaboration, and hence make a collegial final decision.

## « Problematic / Means" What is actual situation ?

A decision system for irrigated land is made up of several decision levels. These ones are related to specialties, evolution of spatio-temporal parameters and to the global management context constraints. The actual methods are based on descriptive statistics and result, in time and space, in partial and generalized decisions.

Due to the context evolution which in turn has increased the territory management constraints, those methods have reached their limits and thus are far away from satisfying the decision makers in terms of information.

**Objective :** Organization of the decisional system

**Methodology :** Preparation of a geomatic solution for the purpose of building a Spatial Data Infrastructure.

