

## OBJECTIVE

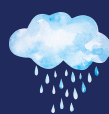
STARGATE's overall objective is to co-design, co-create and co-validate a multiscale holistic methodology of CSA, that will help farmers and policymakers to achieve short and long-term adaptation to climate change, while the STARGATE innovations in microclimate and weather risk management, and in the field and regional landscape design will promote the resilience of farming systems.



## SHORT SUMMARY FOR PRACTITIONERS

The Spanish pilot area is characterised by a semi-arid Mediterranean climate. This in itself implies a low productive capacity of the agroecosystems, bound to two climatic constraints lack of rainfall and randomness in the distribution of rainfall, both between different years and over a year.

Weather and Climate Information is proposed to help decision-making in the short and medium term, as well as the use of indicators for decision making in daily work on the farm, resulting in...



**RAINFED AGRICULTURE:** seasonal climate prediction can be considered in long-term strategic planning, like choosing varieties, making yield predictions, etc, while the seven-day forecast allows farmers to schedule their everyday activities like the application of fertilizers and other works such as tillage, sowing, harvest etc.



**IRRIGATED AGRICULTURE:** climatic variability is taken into account to estimate the irrigation water needs. The seven-day forecast is used to improve crop management and schedule the application of irrigation in the field.



**LIVESTOCK:** seasonal and seven-days forecast used to prevent episodes of very high temperatures which affects on the mortality of newborns and the quality and production of milk.

## KEYWORDS - CATEGORIES

- 1 Climate & climate change
- 2 Agricultural production system
- 3 Farming practice

- 4 Fertilisation & nutrients management
- 5 Soil management / functionality
- 6 Water management
- 7 Landscape / land management