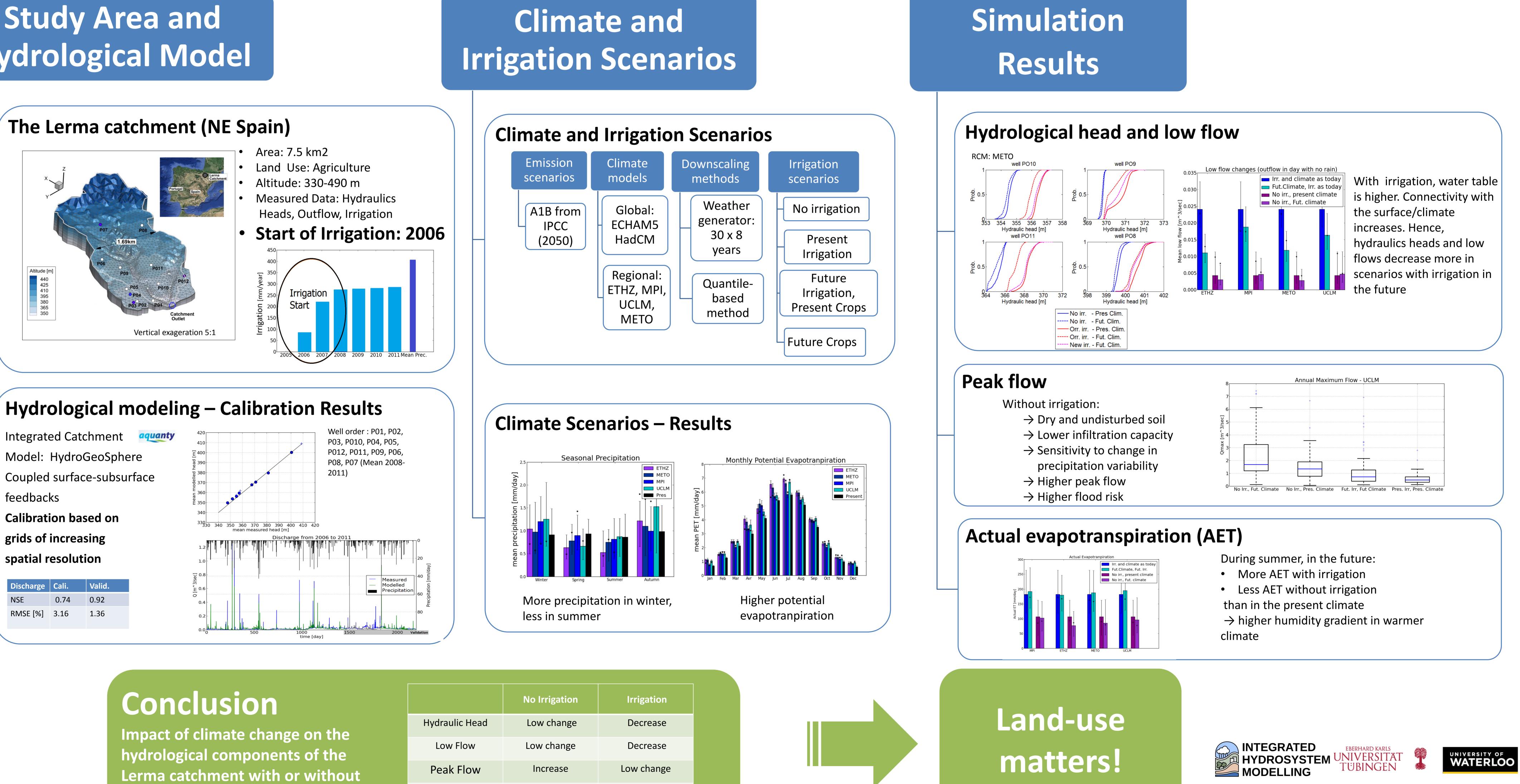
Projected Climate Change Impacts on a Mediterranean Catchment under Different Irrigation Scenarios D.von Gunten, T. Wöhling, C. Haslauer and O.Cirpka, University of Tübingen (Germany), Center for Applied Geoscience

What are the differences between climate change impacts of an irrigated and a **non-irrigated catchment?**

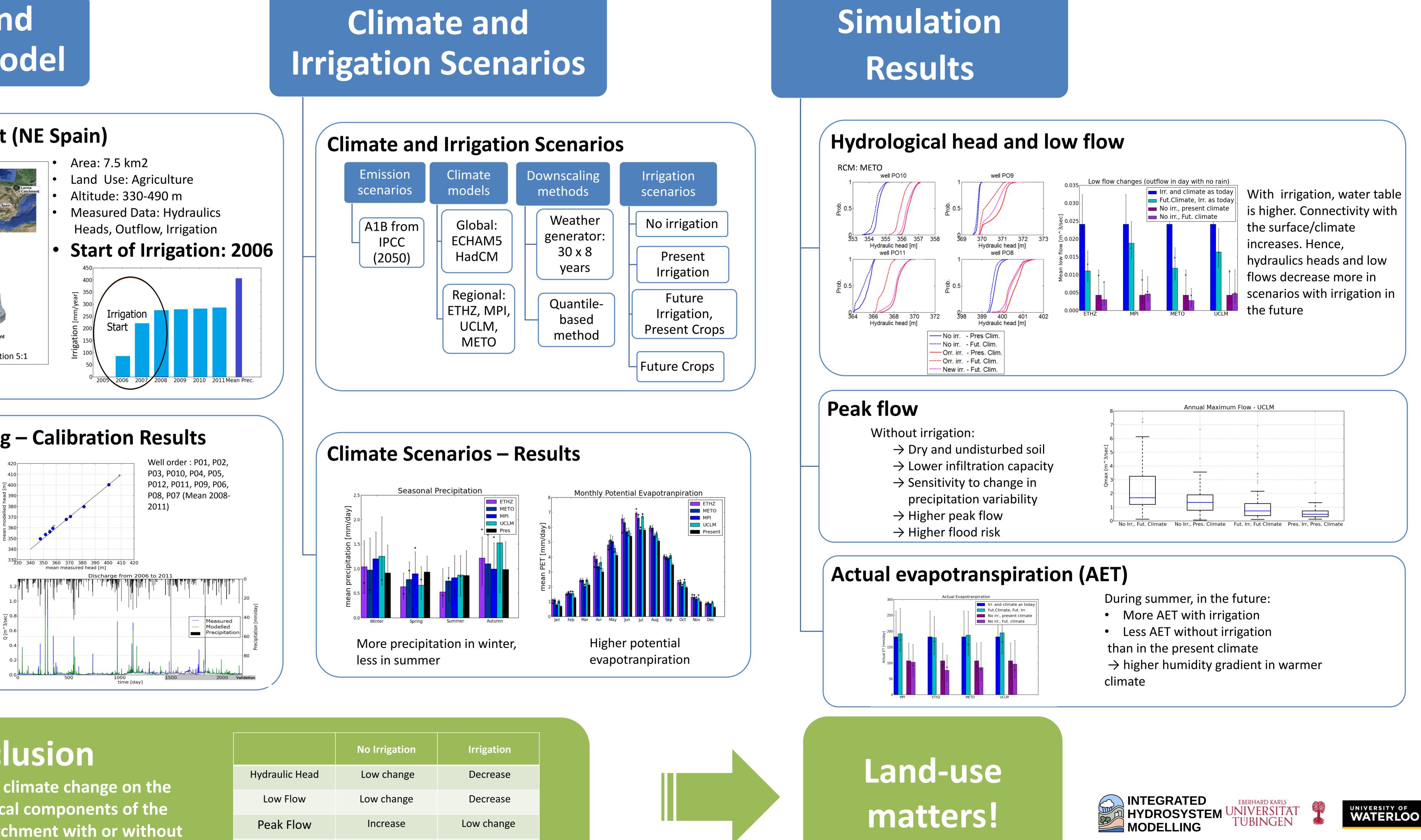
Study Area and Hydrological Model

The Lerma catchment (NE Spain)



Model: HydroGeoSphere Coupled surface-subsurface feedbacks **Calibration based on** grids of increasing

Discharge	Cali.	Valid.
NSE	0.74	0.92
RMSE [%]	3.16	1.36



irrigation



	No Irrigation	Irrigation
Hydraulic Head	Low change	Decrease
Low Flow	Low change	Decrease
Peak Flow	Increase	Low change
AET in summer	Small Decrease	Small Increase

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