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## Generation of regionalized climate change projections over Spain for impact and adaptation purposes

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During the first phase (1 year) of a 5-year project focused on generating regionalized climate change projections for the different impact sectors, most of the work has been devoted to compile results either from previous projects or from well established methods. The PRUDENCE and STARDEX projects (EU  $5^{th}$  FP) have produced very valuable information, both in terms of data and of comparisons of methods, which has not been sufficiently exploited over Spain. These results, together with new regionalized projections using empirical methods, have allowed to create during the first phase of the project a database of regionalized projections based on a variety of emission scenarios, global models and downscaling techniques. This preliminary database constitutes only a first step of a project aiming to produce probabilistic regional projections using a sufficient number of global models, emission scenarios and downscaling methods to cover a significant part of the uncertainties affecting the projections.

The study of uncertainties coming from different sources was a matter of particular concern and some examples thereof are shown. Also robustness of conclusions was specially sought by looking at coincident results obtained using different global models and downscaling techniques.