

TECHNIQUES DEVELOPED

OVERVIEW TECHNOLOGIES AVAILABLE

One of the strongest aspects of the consortium is the wide range of technologies available in the participant's laboratories. During the course of the project effort will be made to developing new technologies and the optimisation of the performance of each technique. Nevertheless, to ensure maximum benefit, variables studied will be reduced in the first phase and subsequent work will *focus on only the most promising* for the overall field inter-comparisons, bearing in mind the need for as complete as possible a description of the hydrological system in each case study site.

The technologies available include:

- Geophysical techniques
 - Geoelectrical methods
 - GPR
 - Dye- and Ionic-tracers
 - Tomography

- Plant physiological techniques
 - HFD sap-flow in stem and root
 - Porometry
 - Psychrometry
 - Ultrasonics

- Environmental techniques
 - Infra-red thermometry/thermography
 - GIS
 - Hydrological modelling
 - Micrometeorology
 - Satellite and airborne remote sensing
 - etc.