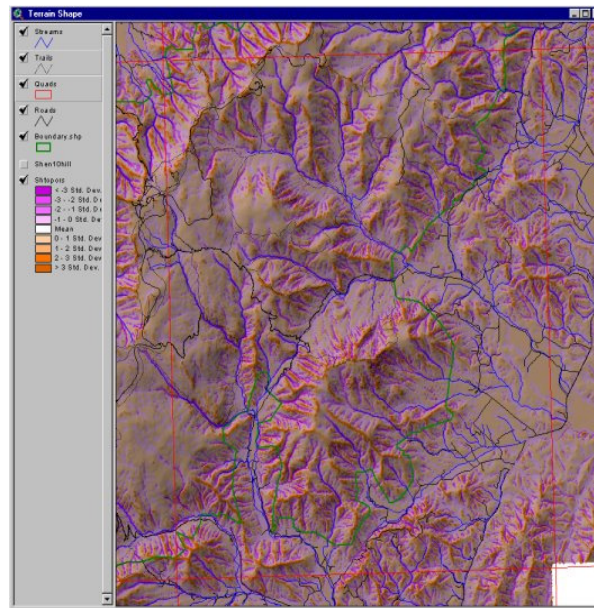


# Flood Studies Update: Work Package 5.1 – Scoping Study of Information Systems.

**Category:** Flood Risk Management



Example of Digital Elevation Model (DEM)

## **Description:**

Spatial data (digital, GIS-based datasets) of land-cover, water bodies, topography and other catchment information - referred to as “physical catchment descriptors” - will provide hydrological catchment description required for the other work-packages of the Flood Studies Update programme.

The objectives of this scoping study were three-fold. First, to assess requirements and availability of required datasets. Secondly, to recommend methods to obtain and / or generate datasets that are needed but not readily available, and thirdly, to outline the technical, software and hardware requirements for database / GIS structures to handle this data.

The primary objective of the work-package was to identify the requirements for, and availability of, spatial and GIS data for the FSU. This involved assessing what spatial datasets were needed for the implementation of the FSU, based on necessary inputs to other FSU work-packages. It also identified datasets that might add extra value to the study, i.e. datasets that are desirable for FSU research, but not critical. Having established this “wish-list”, an extensive data-trawl determined what data was already available for Ireland, and what data-gaps remained.

The scoping study also recommended how to fill data-gaps, for data that were considered necessary for the study, but that were currently not available.



The scoping study compiled details of available datasets, required datasets, and anticipated data formats, as well as providing guidance for the handling, processing, storage and access of datasets for the FSU.

The other objective of this work-package was to be pro-active in proposing what datasets to make available to other work-packages, rather than reactive to their direct needs.

For further information about this work, please contact: [oliver.nicholson@opw.ie](mailto:oliver.nicholson@opw.ie)

### **Design Team:**

The OPW is responsible for the specification, procurement and direct management of the Flood Studies Update Programme, with technical direction provided by a Technical Steering Group, comprising representatives of the primary state / semi-state organisations involved with hydrology, hydrometric monitoring and associated research in Ireland, viz. OPW, Met Éireann, Environmental Protection Agency, Electricity Supply Board, IHP / ICID National Committee, and has two technical experts.

### **Construction Team:**

Research Contractor: This work package was completed in house by the OPW.

### **Dates:**

Work Package 5.1 of the Flood Studies Update Programme was completed in January 2007.