150. Dafne: A Digital Archive and WebGIS for the Historical Management of Minor Hydrographic Networks in Central Tuscany

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The DAFNE (Documents and Historical Cartography of Watercourses in Central Tuscany: A Digital Archive and WebGIS for the History of Water Governance in Support of Sustainable Water Resources Management and the Protection of Cultural and Landscape Heritage) research project, funded by the Tuscany Region and the Medio Valdarno Land Reclamation Consortium, aims to undertake a diachronic reconstruction of the minor hydrographic network of central Tuscany through the examination of historical documentary sources, primarily institutional records, with the ultimate objective of supporting sustainable land management and landscape conservation The reconstruction of the historical hydrographic network relies on the integration of contemporary geospatial data with information extracted from archival sources that differ in format, document type, and originating institution. This process presents four main methodological and technical challenges: (1) identifying and cataloguing relevant historical sources; (2) digitising and standardising the information they contain; (3) designing and implementing an integrated geodatabase capable of linking historical and contemporary geospatial data; and (4) developing a WebGIS interface to support diachronic analysis of the hydrographic network..