

# CIVIL AND ENVIRONMENTAL ENGINEERING

## PNRR - Water resources assessment with remote-sensing products

<b>Funded By</b>	MINISTERO DELL'UNIVERSITA' E DELLA RICERCA [P.iva/CF:97429780584] Politecnico di TORINO [P.iva/CF:00518460019]
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<b>Contact</b>	
<b>Context of the research activity</b>	<p>The research activity aims at coupling remote-sensing tools and hydrological modelling to assess crop water stress and irrigation requirements, with the goal of supporting strategies of adaptation to climate change.</p> <p>PNRR M4C2, Investimento 1.3 - Avviso n. 341 del 15/03/2022 - PE0000005 Multi risk science for resilient communities under a changing climate (RETURN) - CUP E13C22001860001</p>
<b>Objectives</b>	<p>The PhD activity aims at contributing to two projects: (i) the PNRR "RETURN" project, spoke 1, WP3, which aims at developing a set of monitoring and modelling tools related to scarce water resources, and (ii) the LIFE-IP CLIMAXPO project, WP8, which addresses the optimal use of water and land resources in a changing climate.</p>
<b>Skills and competencies for the development of the activity</b>	<p>The competencies required for the project include basic sciences (physics and math) and applied sciences (hydrology, hydraulics, remote sensing). Competencies in data processing and spatial data management are required. Knowledge of a computing tool (e.g., Matlab, R, Phyton) and proficiency in numerical modelling are preferred skills.</p>