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Sommario	<p>Environmental crisis, food insecurity and climate change are increasingly showing that human actions let the control variables of several planetary boundaries leave the safe operating space. A radical change in the human development paradigm is needed to maintain the ecosystem capacity for supporting human well-being. Due to its high connectivity, water plays a key role within the ecosystems and it is strictly related to the production of basic services that support human well-being, such as food provisioning or energy production (the so-called Nexus). This suggests the necessity of analyzing the interconnections and feedbacks among water, land and energy management to promote a more resilient and fair coupling of environment and society. A new language is needed to improve the existing water management and to promote a new approach where water is a single component of a multiple integrated system. The main objective of this thesis is to investigate interrelationships among water, energy and land management in human-water systems to improve their management and to translate a general Nexus approach into operative frameworks. A multi scale approach is adopted, integrating hydrological modelling with the evaluation of Ecosystem Services (ES) and the Water Footprint (WF) analysis. Different case studies are elaborated to assess, from an</p>

innovative perspective, the interrelations of water management with the other natural resources.

Localizzazioni e accesso

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