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## Human River Systems in the 21st century (HR21) – a new interdisciplinary Doctoral School addressing riverine landscapes as dynamic socio-ecological systems

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Riverine landscapes are complex systems, which provide a multitude of ecosystem services. Multiple pressures, driven by societal processes, far-ranging engineering approaches, changes in environmental conditions, and an intense use of partly conflicting ecosystem services, have modified most of these systems worldwide to industrialized riverine landscapes (IRL) shaped by human – environmental interactions. The close, but complex interaction between environmental and societal processes and the co-evolution of these two spheres urgently require a socio-ecological systems approach in both science and management.

The scope of this poster is to present the newly established interdisciplinary doctoral school Human-River 21 (HR21) in Vienna, Austria, that is jointly organized by 15 leading scientists from the University of Natural Resources and Life Sciences, Vienna (BOKU) and the Alpen-Adria Universität Klagenfurt (AAU)/Institute of Social Ecology (SEC). The main aims of HR21 are to address critical knowledge gaps in industrialized riverine landscapes (IRL) and coupled socio-ecological systems research, developing new analytical and modelling tools, train a new generation of scientists in a multi- and transdisciplinary environment and strengthen interdisciplinary Human-River-System research in Vienna and beyond. HR21 targets to provide a new multidisciplinary understanding of the future development of IRL and their effective and sustainable management.