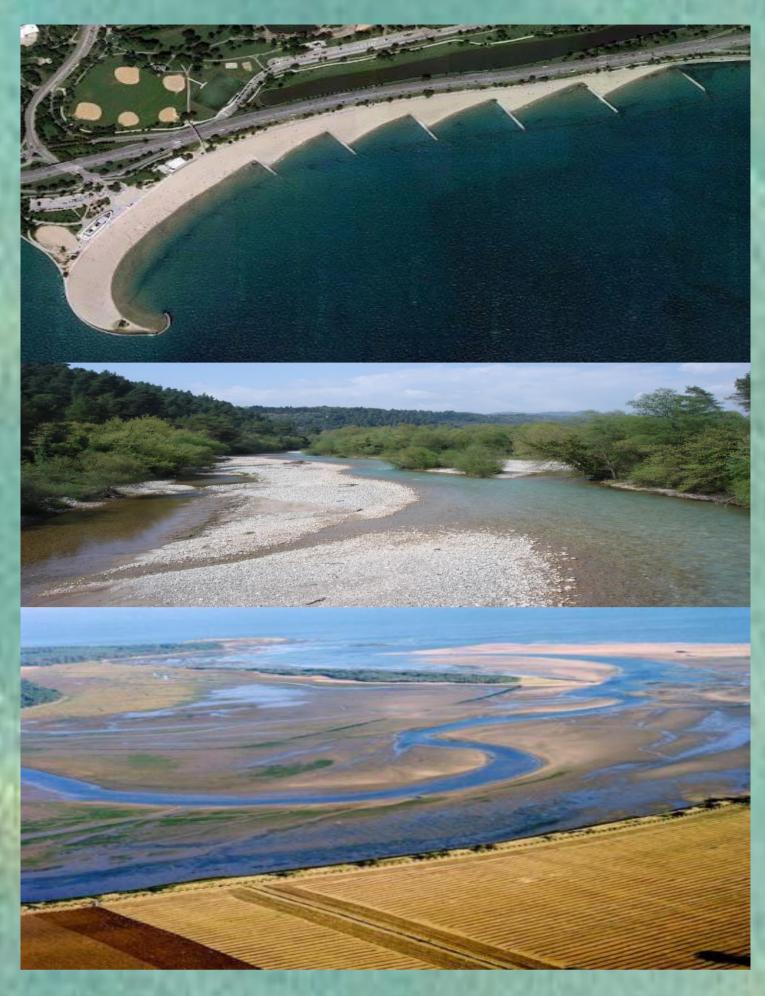
SEDITRANS 2013 - 2017

Sediment Transport in Fluvial, Estuarine and Coastal Environment

Sediment transport in the fluvial, estuarine and coastal environment causes significant morphological changes and results in the amplification of floods, storm surges and other inundation hazards. This increases considerably the risk of failure of structures, disruption of function of networks (water, energy), destruction of ecosystems and natural resources, as well as property and human loss. The impact of sediment transport is expected to be incremented due to climate change. SEDITRANS is a Network for the training of researchers in all application areas of sediment transport. The Network consists of six academic and four industrial partners and provides an elaborate and interdisciplinary trainingthrough-research program to 12 early stage (leading to a PhD) and experienced (postdoctoral) researchers. It includes a comprehensive academic program, secondments at industrial winter/summer partners, workshops, schools, thematic conferences, production of guidelines and complementary activities. The research will focus on: i) modeling and algorithm development for sediment transport in river and coastal flows and for inland and offshore turbidity currents or debris flows, and ii) experiments and simulations of sediment transport in river and coastal flows, and sediment-laden density underflows in reservoirs and submarine canyons. The experiments will allow for crucial phenomenological advances in the conceptual models upon which simulation tools are built. The latter, compatible with high performance computing, will be explored jointly by academic and industrial partners in real engineering applications during and after the duration of the project. The network is structured to help the coordination of research and educational activities in sediment transport in a European level and increase European competitiveness in this important field of S&T.



Initial Training Network (FP7-PEOPLE-2013-ITN)

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Recruitment period for PhD candidates and postdoctoral researchers will commence in FALL 2013.

Stay tuned!