Multiple ASpects TrajEctoRy management and analysis

The MASTER project in 7 questions:

What are the holistic trajectories?

Pure movement data can be enriched with multiple heterogeneous contextual aspects. These aspects are intimately interconnected and should be referenced as a whole as holistic trajectories.

How can we create and manage holistic trajectories?

We investigate methods for managing and building semantically rich trajectories from heterogeneous and multidimensional data.

An international and inter-sectoral network of organisations working on a joint research programme to define new methods to build, manage and analyse multiple aspects semantic trajectories.

How can we infer interesting knowledge from large amounts of holistic trajectories? We study data analysis methods capable of taking into account the different aspects of holistic trajectories. We focus specifically on: similarity analysis, clustering, graph analysis, prediction and recommendation.

Which applications benefit from the analysis of holistic trajectories?

We assess the impact of the holistic trajectories analysis methods in the tourism, sea monitoring and public transportation domains.

Is the privacy preserved?

The project develops methods based on *privacy-by-design*. The consortium is supported by an Independent Ethics Advisor, Prof. Bettina Berendt, and an Ethical Committee.

How can we deal with the Big Data characteristics?

The storage and analysis methods will pose emphasis on efficiency and large scale data management.

Who are our stakeholders?

We will be driven by potential market opportunities benefitting the European society in the field of tourism, sea monitoring and public transportation.



MASTER is a Marie Skłodowska-Curie Actions - RISE project -coordinated by Chiara Renso, ISTI-CNRfor boosting the carrier perspectives of researchers through secondments of staff to international partners and non academic sector to work jointly in a research and training program.

APPLICATIONS

Canada: **Dalhousie University** **EU partners:** Consiglio Nazionale delle Ricerche IT **University Ca' Foscari Venice IT** University of Versailles Saint-Quentin FR **University of Pireaus Research Center GR** Harokopio University of Athens GR Municipality of Thira GR

Consortium

10 partners (6 Europe, 1 Canada, 3 Brazil)



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Brasil: Federal University of Cearà Pontificial University of Rio de Janeiro **Federal University of Santa Catarina**

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www.master-project-h2020.eu

master-info@isti.cnr.it

