

<u>MASTER</u>

Multiple Aspect Trajectory Management and Analysis



Consortium

10 partners (6 EU, 1 Canada, 3 Brazil) in blue the overlapping partners with SEEK

European academic

CNR, Consiglio Nazionale delle Ricerche, IT UNIVE, Ca' Foscari University Venice, IT UPRC, University of Pireaus Research Center, GR UVSQ, University of Versailles Saint-Quentin, FP HUA, Harokopio University of Athens, GR











European non academic

Thira, Municipality of Thira, GR



International academic

UFSC, Federal University of Santa Catarina BR UFC, Federal University of Cearà, BR PUC, Pontificial University of Rio de Janeiro, BR DAL, Dalhouise University, CA













UFSC - Federal University of Santa Catarina, Florianopoli...



Research Program

From raw trajectories to holistic trajectories

Spatio-temporal trajectories do not properly represent the richness and complexity of the data.

Many different contextual **aspects** can be exploited to enrich the spatiotemporal data.

Holistic trajectories: enrichment of the applicationdependent aspects of trajectories from heterogeneous and multidimensional data.



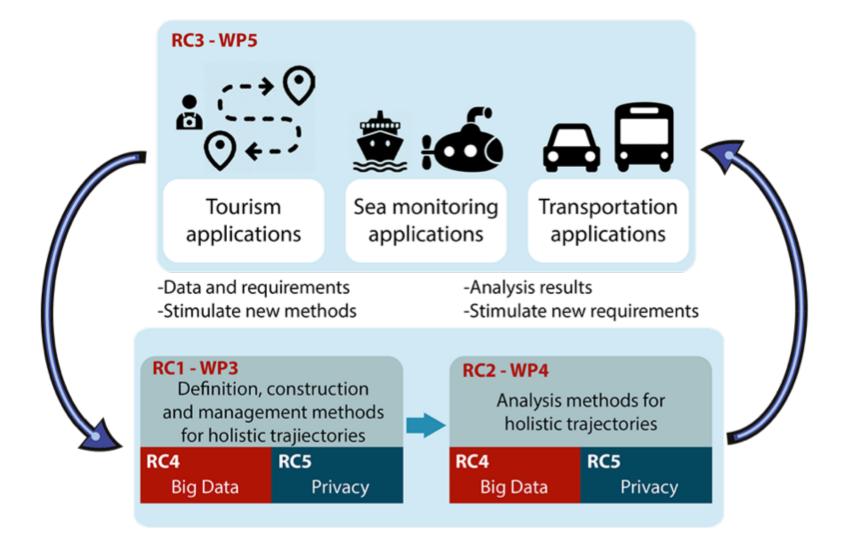
Raw trajectory

Holistic trajectory

Research challenges in holistic trajectories

Research questions	Challenges
How can we create and manage holistic trajectories?	We need methods for building semantically rich trajectories from heterogeneous and multidimensional data.
How can we infer interesting knowledge?	We need data analysis methods capable of taking into account the different aspects of holistic trajectories. Specifically: similarity analysis, clustering , graph analysis, prediction and recommendation .
Which applications may benefit from the analysis of holistic trajectories?	We study the impact of the holistic trajectories analysis methods into the tourism, sea monitoring and public transportation domains.
How to preserve the privacy of the individuals?	We need methods based on the privacy-by-design principle
How can we deal with the Big Data characteristics?	Storage and analysis methods with emphasis on efficiency and large scale data management.

MASTER - The Concept



Web site and Social Media

- http://www.master-project-h2020.eu
- Facebook: Master Project H2020
- Twitter: Master Project H2020