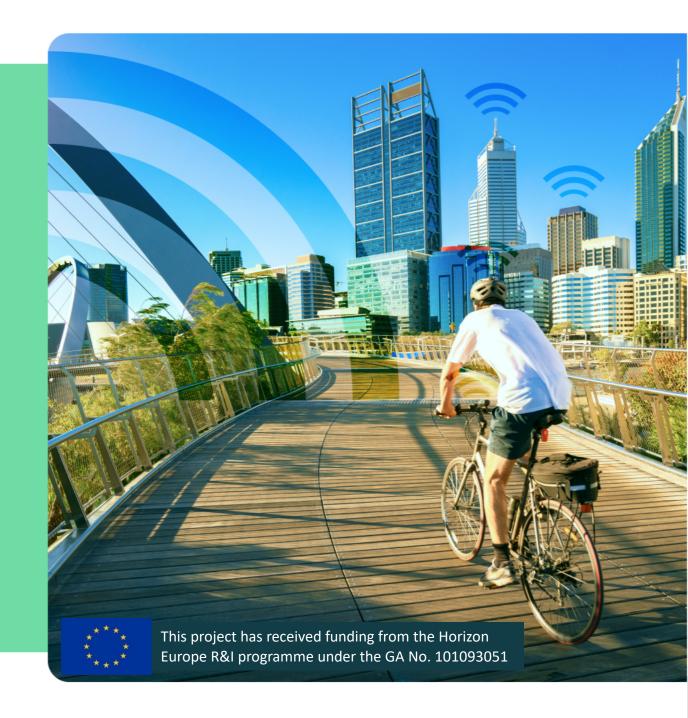


Welcome

EMERALDS Webinar: Navigating Al's Ethical Aspects

Foivos Galatoulas
INLECOM Innovation
28/03/2024



Extreme-scale Urban Mobility Data Analytics as a Service

EMERALDS's vision is to design, develop and create an urban data-focused Mobility Analytics as a Service (MAaaS) efficient, interoperable and easy-to-deploy toolset, consisting of the 'emeralds' services.

Proof-of-concept version, enable urban mobility ecosystem stakeholders to harness the untapped potential of extreme urban mobility data utilizing distributed computing resources.

Collect and manage spatio-temporal data of high volume, velocity and variety - advanced capabilities in data mining

Reducing data ingestion times by pairing data-streams with a storage-querying-analytics backbone

Analyze data with real-time responsive AI/ML algorithms

Visualize results in interactive dashboards/enhanced visual analytics

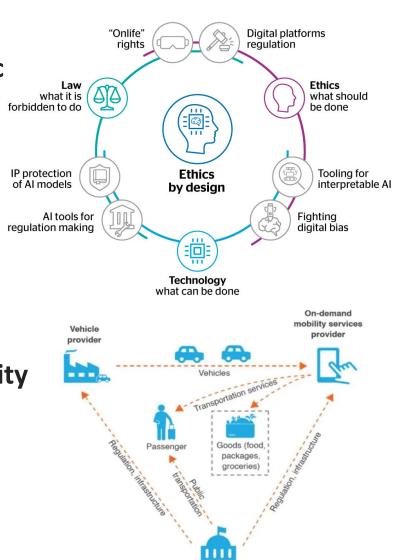
Performing sensitive data analytics tasks in-situ



EMERALDS

Webinar Motivation

- •Explore the ethical dimensions of AI tool design in the domain of urban mobility data science, in the light of relevant EU regulations suc as the Data and AI acts.
- Discuss the critical balance between privacy, and legal frameworks governing AI technologies, focusing on real-world applications.
- Showcase the ethical considerations embedded in the EMERALDS project and the procedures towards shaping responsible AI practices.
- •Engage with industry experts, stakeholders, and the public in a meaningful dialogue on ethics in AI and data analytics.
- Highlight the importance of transparency, fairness, and accountability in AI systems followed throughout the development and deployment process.
- **Ethical implications of the collection, use, and sharing** of urban mobility data.



Timeline

- 11:00 Welcome and Intro
 Foivos Galatoulas, EMERALDS Project Coordinator INLECOM
- 11:05 AI Trustworthiness: Insights into key ethical and legal issues in light of the new EU AI Act Konstantinos Ntzoufas, LLM in Civil Law, Legal Ethics Advisor on AI
- 11:20 Data Governance and AI the ethical aspects of sensitive data: the tool design, addressing profiling issues in AI systems, privacy preservation Insights from The HAGUE Use Case
 - Ethical Table Process Jeroen Steenbakkers Owner & CEO, ARGALEO
 - O TU Delft Human Research Ethics Sascha Hoogendoorn-Lanser Use Case Leader, TU Delft
 - Ethics of Mobility AI Development: energy, social, and transparency aspect Anita Graser Data Science Researcher, AIT
- 11:45 Data Governance Act and GDPR in the scope of EMERALDS algorithms
 Athanasios Fanos, LLM in EU Law, Legal Ethics Advisor on Data Privacy and AI
- 12:00 Q&A & discussion

Ethics Assessment Procedures in EMERALDS

Development of the data processing and AI tools is guided by an initial period of reflection and requirements collections, which informs a series of functional and non-functional requirements in each respective software component

Ethics Advisor Work Plan

- •The advisors were appointed on **M1** (by end of January) through a tender procedure.
- •First output on M2 guidance report legal framework compliance table
- The frequency of reporting 6 months
- Early version of DMP
- Informed consent form for the collection of personal data
- Project description for Data Protection Authorities (DPA)s
- Non-Disclosure Agreements (NDAs)
- Online policies
- •Ethics Checklist for Deliverables
- Questionnaires for solution developers, use case stakeholders, public authorities

open-source tools designed to assist developers to build more trustworthy solutions

AI Fairness 360 (AIF360)

Al Factsheets 360

Pymetrics' audit-Al

Google Model Card Toolkit

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