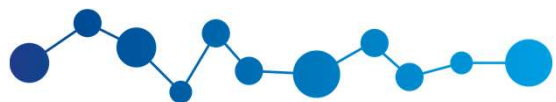# Unlocking the Future of Big Data

May 15th, 2024

FutureData4EU

Training Future Big Data Experts for Europe

ALMA MATER STUDIORUM
UNIVERSITÀ DI BOLOGNA

UNIVERSITÀ CATTOLICA
del Sacro Cuore

Università
degli Studi
di Ferrara

UNIMORE
UNIVERSITÀ DEGLI STUDI DI
MODENA E REGGIO EMILIA

UNIVERSITÀ
DI PARMA

POLITECNICO
MILANO 1863

Unlocking the Future of Big Data - Summary

o General overview of the Thematic Area

o List of the Doctoral Positions and Universities involved (**Climate, Energy, Mobility**)

o Sub Areas of Research to be developed during the project

o Contacts

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Overview of the Thematic Area

Overview of the Thematic Area

CLIMATE
- education,
- awareness-raising,
- capacity-building related to climate change mitigation,
- adaptation,
- impact reduction,
- early warning systems.

Overview of the Thematic Area

ENERGY:

- universal access to clean and affordable energy
- decarbonization
- greenhouse gas emissions reduction
- renewable energy deployment and integration

Overview of the Thematic Area

MOBILITY:
- affordable and accessible transportation for all
- improving road safety
- environmental impact
- efficient transport infrastructure
- integraton with urban development
- sustainable modes of transport
- data and monitoring

11 SUSTAINABLE CITIES AND COMMUNITIES

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List of the Doctoral Positions and Universities involved
Climate, Energy, Mobility (9 total)

3 — UNIBO

- Systems for the operation of power distribution networks in the presence of communities of electricity producers and consumers

- Combining Machine Learning and Computational Chemistry to explore the chemical space of functional materials

- Numerical downscaling at the local microscale for the evaluation of climate change adaptation and mitigation measures

2 — UNIMORE

- Data Science for Sustainable Mobility

- Exploitation of big data for climate, energy and mobility

2 — POLIMI

- Electric vehicles: Infrastructure system and charging strategies based on Renewable Energy Sources

- The role of digital data in interpreting complex urban phenomena and supporting mobility-related policies

1 — UNIFE

- Satellite insights: Socio-economic data for Sustainable Development

1 — UNIPR

- Beyond Deterministic Models for Sustainable Energy Management in Home, Industry and Transportation

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Contacts

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