Data Management Plan for EcoPop_ER Dataset

University of Bologna - Department of Statistics October 25, 2024

1 Data Summary

The database aims to provide new informational tools to understand and mitigate the impact of rapid climate change on the population of Emilia-Romagna by developing and disseminating a database containing demographic, environmental, and climatic data for all municipalities in the region. The database implementation is promoted as part of the project 'Memorec - Resilience and Climate Memory in Emilia-Romagna', funded by the University of Bologna through AlmaCares funds.

1.1 Data Sources

The source of data are Istat (National Institute of Statistics of Italy), Regione Emilia-Romagna, and Arpae.

2 How We Make Data FAIR

2.1 Findability

- We will use standardized metadata and clear naming conventions for datasets to enhance their discoverability.
- Data will be cataloged in Zenodo with detailed descriptions and keywords for easy searchability.

2.2 Accessibility

 Open access datasets are doposited in Zenodo and will be integrated with this presentation, and with this DMP, so that all necessary resources will be accessible.

2.3 Interoperability

• Data are formatted using standardized file formats, such as .csv, .txt, .png, .pdf, .r, so that they do not become obsolete over time, but remain interoperable.

2.4 Reusability

- Datasets are accompanied by comprehensive documentation in order to enhance reproducibility
- We provided clear licensing information, in particular we decided to use a CC BY licence, to increase reproducibility and independent verification by other interested students and researchers.
- In future versions we will upload the R code used.

3 Data Security

• Data were kept secure by using OneDrive as a storage tool.

4 Ethics and Privacy

• Our data has no elements that would preclude its openness, such as might be privacy, ethics, and IPR, so procedures such as anonymization, patent protection, etc., have not been adopted

4 Annex 1: Table Describing Main Dataset

Dataset Name	EcoPop_ER
Version	1.1
Year	2024/2025
Description	Quantitative data about the municipalities of
	Emilia-Romagna region
Size	488.4 KB
Format	txt, csv
Licensing	CC BY 4.0
DOI	https://doi.org/10.5281/zenodo.13885777

4 Annex 2: Version history

The following changes were implemented between versions 1.0 and 1.1 of the dataset:

- $\bullet\,$ Removal of duplicate entries.
- Removal of data from years prior to 2000.
- Removal of data for the year 2024 due to incompleteness.
- Removal of 9 indicators: 8 related to the resident population (due to redundancy) and one related to the year 2024.
- Adjusting municipality names by correcting special characters.