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Climate Neutral and Smart Cities

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Purpose of the Science Project

- Demonstrate that relevant environmental data and data on citizens’ values, attitudes, behavior and involvement can be combined for social, political and scientific analysis
- Upgrade application to make data available to researchers
- Data available via the EOSC Platform via the application as a service

Do climate indices affect interview responses?

Data sources

- Interview data from the European Social Survey
- Climate data from Copernicus ERA5
- Air quality data from the European Environmental Agency EEA

Metadata

- Cross-Domain data integration
- Structural specification – very concept rich
- Captures provenance and work together with other standards

Climate indices

- Standardized mean temperature anomaly
- Heat episode days
- Extreme precipitation days
- Storm - extreme wind

Air quality indices

- PM10
- PM2.5
- SO2
- NO2
- O3

Contributions

Access to data from diverse data sources transformed to a common format. Harmonised and aggregated measures as defined by domain expert in the various fields.
Data from different sources matched on time and geography.
Cross-domain metadata standards as a framework of interoperability and FAIR (meta) data.
Upgrade of application to handle and distribute the new types of data and metadata.
Service onboarded to the EOSC Platform.

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