
Plan Overview

A Data Management Plan created using DMPonline

Title: 中国城市PM2.5和PM10污染现状与趋势——基于多源数据的分析

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Template: DCC Template

Project abstract:

本文使用Echarts和VOSviewer对2013-2023年中国城市PM2.5和PM10的污染现状与趋势进行了分析。通过构建网络模型，揭示了不同城市之间的污染关联性和传播路径。研究发现，PM2.5的污染水平普遍高于PM10，且PM2.5的污染趋势更为严峻。NO₂作为PM2.5的主要成分之一，其污染水平与PM2.5呈现出高度相关性。本研究为城市空气污染治理提供了数据支持和理论依据。

ID: 194989

Start date: 31-01-2018

End date: 31-01-2023

Last modified: 14-01-2026

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Data Collection

What data will you collect or create?

From 2018-2023, we will collect 26 variables including PM2.5, NO₂, and GDP data from the World Bank and the European Central Bank.

How will the data be collected or created?

We will use the OpenWeatherMap API to collect weather data and the Python Requests library to collect GDP data from the World Bank API.

Documentation and Metadata

What documentation and metadata will accompany the data?

We will provide a README file and a JSON file containing the metadata for each dataset.

Ethics and Legal Compliance

How will you manage any ethical issues?

We will ensure that all data is collected and stored in a secure and ethical manner.

How will you manage copyright and Intellectual Property Rights (IPR) issues?

We will use the Creative Commons Attribution (CC BY) license for the data and the Open Government License (OGL) for the metadata.

Storage and Backup

How will the data be stored and backed up during the research?

We will store the data in a secure cloud storage service (e.g., AWS S3) and use Git to manage the code.

GitLab

How will you manage access and security?

SSL/TLS
AES-256

Selection and Preservation

Which data are of long-term value and should be retained, shared, and/or preserved?

GIS

What is the long-term preservation plan for the dataset?

1
NetCDF
GeoJSON
DOI
3
10

Data Sharing

How will you share the data?

GitHub
Gitee
MIT

Are any restrictions on data sharing required?

Responsibilities and Resources

Who will be responsible for data management?

What resources will you require to deliver your plan?

1 GIS 2 ScienceDB 3 1 4

Planned Research Outputs

Dataset - "Population and Health Survey (2018-2023)"

Population and Health Survey (2018-2023) is a longitudinal survey of the health and well-being of the population of the United Kingdom. The survey is conducted by the Office for National Statistics (ONS) and is the largest and most comprehensive survey of its kind in the world. The survey is conducted annually and covers a wide range of topics, including health, education, employment, and social factors. The data is used to inform policy and research on a wide range of issues, including health, education, and social policy.

Planned research output details

Title	DOI	Type	Release date	Access level	Repository(ies)	File size	License	Metadata standard(s)	May contain sensitive data?	May contain PII?
Population and Health Survey (2018-2023)		Dataset	2024-01-01	Open	None specified		Creative Commons Attribution 4.0 International	None specified	No	No