Plastic pollution and emissions are critical global challenges.

Data reveals actionable insights for sustainable decision-making.

Public databases provide robust scenarios for impactful analysis.

Data — **Pollution** — **Analysis**

Data Science for Science Policy

Tapping the unexplored value of raw data

Learning Objectives

- Understand how open-access databases informs policy and innovation.
- Analyse emissions trends and plastic lifecycle impacts.

- Visualize data to effectively communicate climate insights effectively.

- Reflect on how sustainable chemistry supports decarbonization.

Tapping the unexplored value of chemical raw data

What Will You Do Today?

1 **Explore open-access datasets**

- Policy Scenarios for Eliminating Plastic Pollution by 2040 (OECD)
- Projections of Greenhouse Gas Emissions from Plastic Lifecycle (OECD)

2 **Use Python to examine trends and policies**

- Create visualizations: Line plots, bar charts, and box plots.
- Collaborate and reflect: Discuss key insights and their implications.

Introduction to coding and data manipulation

How the Activity Will Work

Dataset Introduction

Access Free
Databases

Hands-On Coding

Python
Google Colab

Visualization

Make & Analyze
Charts

Next Session: Share findings and explore implications

Introduction to coding and data manipulation

How to use Python!

Hands-On Coding

Python
Google Colab

Python: one of the most versatile

programming languages for data analytics!

Google Colab: free platform to code in python

from your browser!

Introduction to coding and data manipulation