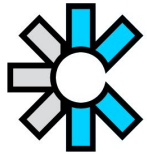


Carbon Geo Scales

Net Zero Challenge

13-04-2021



Open Knowledge
Foundation



CarbonGeoScales: Project & Team

The image shows a project overview for CarbonGeoScales. It features two main categories: 'Data science' and 'Data Product Management'. Below these, there are three sections: 'Open Source' with the GitHub logo, 'Data For Good' with a logo, and a 'People' section showing 16 team members represented by circular icons. The 'People' section is titled 'People' and has a '16 >' indicator.

The image displays a grid of key features and challenges for CarbonGeoScales. The features are 'Greenhouse Gas Emissions', 'Open Data', and 'Geographical scales'. Below these, there are six items in a 2x3 grid, each with a status indicator (green checkmark or red X) and a label: 'Availability' (green checkmark), 'Rich data' (green checkmark), 'Normalization' (red X), 'Spatio-temporal coverage' (red X), 'Formats' (red X), and 'Treatments transparency' (red X).

CARBON GEO SCALES

- Centralized access point to harmonized carbon emissions multi-scale data.
- Data processing pipelines: Open source collaborative framework

Technical architecture

Data workflow

Data Catalog

Standardized data model

Harmonized multi-scale carbon emissions database

Apps

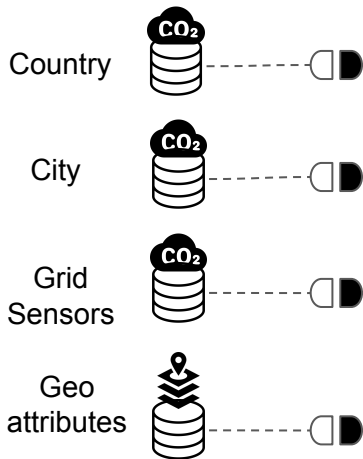
WRI GCP
EEA PIK

CDP ADEME

EDGAR OCO-2

NOAA

geoboundaries



GHG data processing pipelines



API



Policy makers

Carbon accounting specialists

Data journalists



Dashboards



Open Data Providers



1 Exploration



2 Integration



3 Processing



4 Exposition



Users



ROADMAP

Prototype : Data For Good Program

April

May

June

Improve & industrialize

July

August

September

Bottom-up GHG emissions estimates | French cities

Inventory

Data providers

Use cases

Data inventory

◆ Data Catalog v0

Top-Down GHG emissions estimates | extend spatial coverage

Feedbacks

Data inventory

◆ Data Catalog v1

Data processing pipelines

Explore

Communicate

New datasets

Articles

◆ Website v0

Model

◆ Database v0

◆ Database v1

For each data source {

Map

Transform

Store

} ◆ Pipelines v0

Industrialize

◆ Pipelines v1

Data Exposure/ integration API

Plan

Performance

Build

Test

Deploy

◆ API v0

Integrate

◆ API v1

Top languages

- HTML ● Python
- Jupyter Notebook

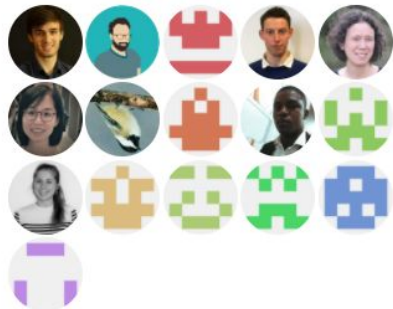
Most used topics

Manage

- ghg-emissions open-data
- climate-change carbon-budget
- climate-data

People

16 >

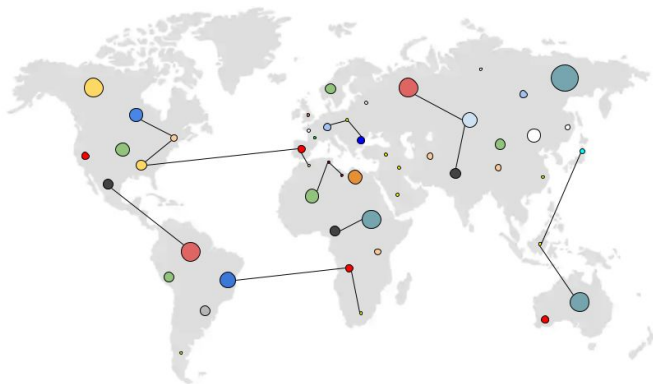


Invite someone



Join us!

<https://github.com/OpenGeoScales>
opengeoscales@gmail.com



Thank you

