Heatwaves Data Collaborative Overview

The Heatwaves Data Collaborative will build the capacity of municipal governments to:

- Measure risk and occurrence of heatwaves;
- Identify and measure impacts of heatwaves; and
- Quantify potential efficacy of heatwave impact mitigation measures

by undertaking six **key activities**:

1 Problem Statement Formulation
Through stakeholder workshops, prepare problem statements (challenge, proposed solution, outputs, collaborators, key tasks).

2 Team Formation and Data Fellows
Form small, grant-funded teams from international organizations, companies, NGOs, and researchers.

3 Foundational Open Datasets
Curate and document shared open datasets to be used by all problem statement teams.

4 Proprietary Datasets
Leverage existing and form new agreements to use proprietary datasets through the Development Data Partnership.

5 Data Goods
Produce fully replicable code and documentation, hosted on GitHub.

6 Capacity Building
Work with governments and NGOs to ensure widespread use of Data Goods for impact.

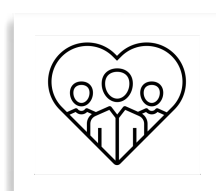Through these activities, the Collaborative will produce three **outputs**:

Common datasets and definitions, used to support all program components

Reusable methodologies for:
- Identifying cities and populations at most risk of experiencing heatwaves
- Measuring the impacts of heatwaves across multiple sectors
- Measuring the marginal mitigation effect of investments in preventative measures.

Capacity building activities to ensure wide use of the methodologies and datasets.

Collaboration

The Heatwaves Data Collaborative enables teams across sectors and organizations to simultaneously focus on their areas of expertise, while collaborating through use of common frameworks and datasets, standards for production and review of reusable methods, and through regular check-ins to ensure the different work streams are aligned and build upon each other.

This collaboration is made possible through the **Global Data Facility** donor funding pooling mechanism and the existing legal and technical infrastructure underpinning the **Development Data Partnership**:

Legal Foundation
Template data license agreements and MOUs between international organizations and companies saves time and resources.

Data Marketplace
A shared proposal management portal facilitates seamless interactions between companies and international organizations.

Shared IT Architecture
Centralized IT architecture and processes for ingesting, storing, and pre-processing data, as well as for coding collaboration, lower costs and facilitate secure data use.

Data Goods
Shared code repositories and documentation for derived data products and algorithms broaden Partnership impact.

Data Governance
A strong data governance system guides best practices for responsible and ethical data use.

Fund Pooling
The Global Data Facility supports fund pooling and disbursement across different entities, supporting large-scale collaboration.

Through the **Partnership** Data Fellows program, third-party researchers can also leverage shared Partnership agreements, which currently include these **contributing members**: