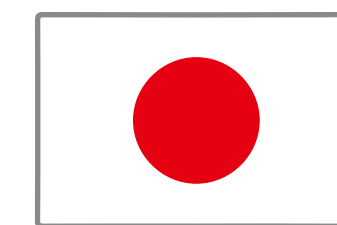


Global Environmental Monitoring from the Perspective of Observation Management

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Introduction – What is global environmental monitoring?

In order to contribute to the implementation of a low-carbon society and achieve the 2 and 1.5 degrees Celsius targets of the Paris Agreement, the Center for Global Environmental Research (CGER), National Institute for Environmental Studies (NIES) provides the basis for global environmental research based on the latest scientific knowledge, with an emphasis on climate change, by establishing a fundamental infrastructure. We conduct strategic monitoring through developing global and regional multi-scale observational

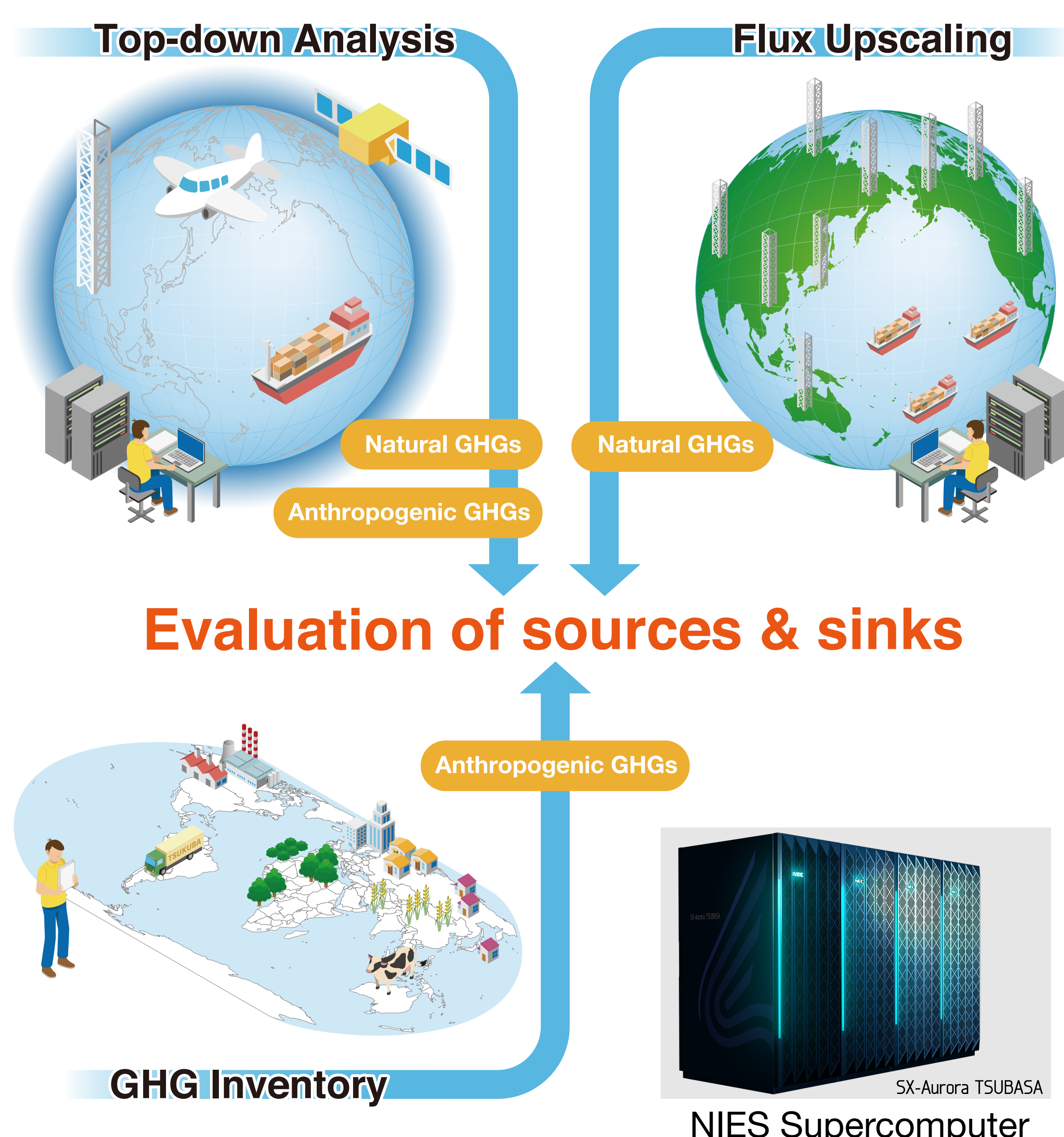
systems of greenhouse gas(GHG) concentrations around the world, as well as assessing observations and the variation of flux and their response characteristics to environmental factors, including those from anthropogenic and natural sources and sinks. This system is essential for analyzing a variety of climate change mitigation and adaptation policies and evaluating their effectiveness.

Outline – What are the strategies of global environmental monitoring?

Strategy 1 Various Platforms and Multiple Locations



Strategy 2 Methodology and Framework



Strategy 3 Organizational Structure

- Long-term strategic monitoring
- Global Environmental Data Integration and Analysis
CGER develops Global Environmental Database(GED), in which various information on the global environment is collected, processed and archived. GED actively promotes the utilization of open-data.
- Information and Public Relations Group
CGER facilitates the efficient dissemination of research results, and contributes to raising awareness about environmental issues among the public.
- Greenhouse Gas Inventory Office of Japan (GIO)
GIO is engaged in the preparation of national GHG inventory, as well as assists developing countries in Asia primarily by capacity building and by improving their inventories.
- Global Carbon Project (GCP) Tsukuba International Office
GCP contributes to developing an international research network and program on carbon cycle research and carbon management.

GLOBAL CARBON PROJECT Tsukuba International Office

CGER NIES <http://cger.nies.go.jp/>

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