

WHAT IS THE GREEN DATA HUB?



The Austrian invitation to participate
in Data Spaces for Sustainability

Why do we need a Green Data Hub (GDH)?

To face the climate crisis with data!



Environmental disasters and the consequences of climate change are shaping our present and dictate the imperative need to work together to counter these developments.

Data is part of the solution we need for a sustainable future.



The GDH focuses on **creating a sustainable European data service ecosystem** to collectively help address the climate crisis, promote the energy and mobility transition, and support circular economy initiatives.



Data-driven use cases with a socio-ecologically sustainable focus contribute to the implementation of the climate strategy of the Austrian Federal Government, in particular the Federal Ministry for Climate Action, Environment, Energy, Mobility, Innovation and Technology (BMK).

Our focal points: aligned with climate targets

Energy transition through decarbonization of the energy system and innovative forecasting and storage solutions



Circular economy through optimization of material / substance cycles (e.g. recycling)

Mapping and counteracting climate impacts through **digital climate twins**

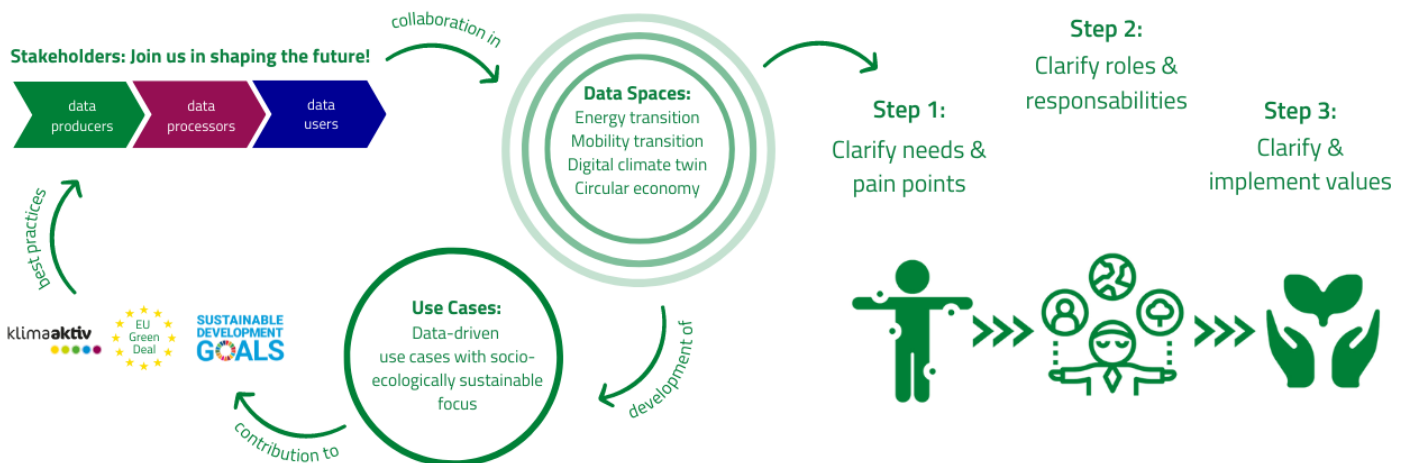


Mobility transition by focusing on sustainable transportation and the modal split

What is a data service ecosystem?

In a data service ecosystem, business models, products and services are developed and optimized through networking and the joint sovereign use of data in Data Spaces. The Green Data Hub offers you a platform that connects Austrian and European stakeholders in the field of Data for Sustainability. The basis for this are technical standards and basic legal definitions, as they are also developed by the Gaia-X Association on a European level (data interfaces, governance, data sovereignty and security, trust).

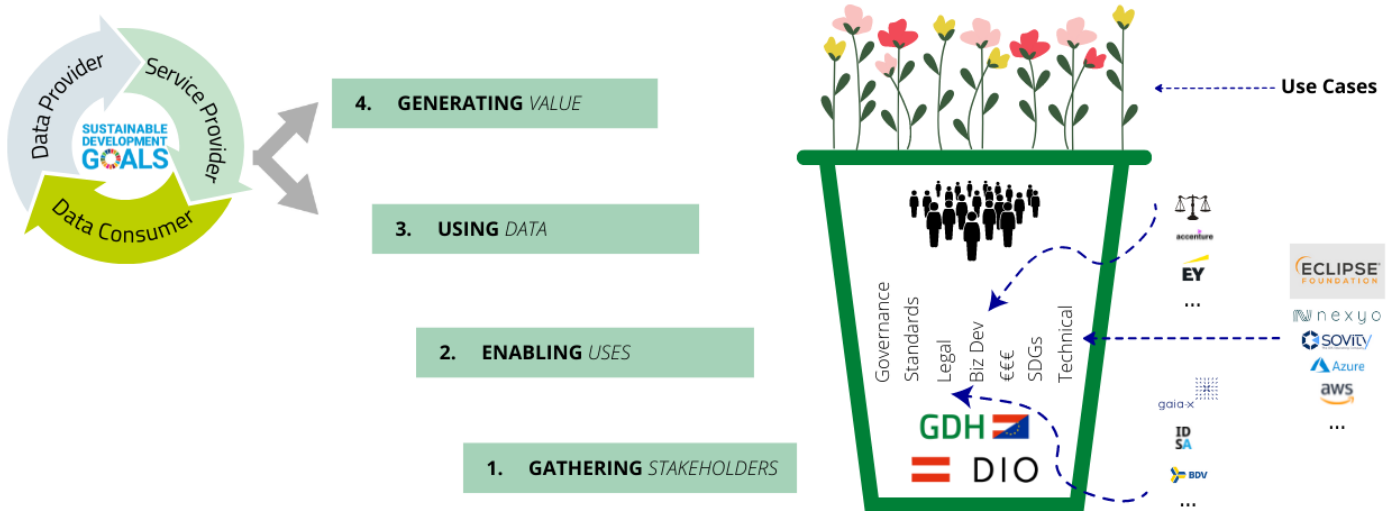
Our process model



How does collaboration in Data Spaces work?

A data space is an organizational and technical space where stakeholders and data meet and where data is made available for joint use in use cases via a decentralized data infrastructure (federated architecture). The data remains where it is generated and is exchanged as needed (acting with choice). This forms the basis for data sovereignty. Data Spaces usually focus on higher-level domains/business areas. The Green Data Hub focuses on the **energy transition, mobility transition, circular economy and digital climate twin**.

Our methodology



The ecosystem idea enables reuse and scaling!

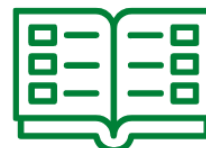
Similar to circular economy approaches, use cases are documented and divided into modules (connectors, analysis tools, dashboards, etc.). These are combined into a catalog and blueprints. Following the ecosystem idea, the module catalog serves as the basis for use case reuse as well as cross-domain and international connectivity and scaling.

Our scaling lifecycle

1. Documentation of **modules** (e.g.: connectors, analysis tools, algorithms, datasets, dashboards etc.)



2. Summary in a **module catalog** with blueprint for reuse and scaling.



3. Cross-domain and international **connection** and scaling of use cases



Work with strong partners on a common goal!

As the flagship project of the Data Intelligence Initiative (DIO), the Green Data Hub offers an established and extensive network of more than 180 stakeholders of the Austrian and European data community. Here you will find an excerpt of data-producing, data-processing and data-using partner organizations.



Join us in shaping a sustainable European data service ecosystem:

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