Data Trustee Model for Horizontal Geospatial Data Spaces – InGeoDTM

Use Case: Wind Park Planning

The **InGeoDTM** project aims to develop a **data trustee model** for horizontal geospatial data spaces, enabling the **secure and trustworthy exchange** of geospatial data between various stakeholders. One key application area is **wind park planning**, which relies heavily on extensive geospatial data, including **sensitive and personal data**.

Planning a wind farm requires the consideration of multiple factors, including:

- **Environmental conditions** (wind resources, soil characteristics, environmental impact assessments)
- **Spatial planning and approval processes** (land use, protected areas, local community interests)
- **Infrastructure** (access to power grids, transportation routes for components)

These data sets are often distributed across various institutions, such as government agencies, research institutions, and private companies. A **secure exchange of this data** is essential for ensuring efficient and sustainable planning.

The Data Trustee Model:

The **data trustee model** provides a **legal and technical framework** that facilitates data exchange among different actors while ensuring that control over sensitive information is maintained.

Core Aspects of the Model:

- A **data trustee** serves as a **neutral entity**, managing access to protected geospatial data and regulating its use.
- **Data sovereignty** remains with the original data providers, who determine how their data is used and shared.
- **Security and privacy mechanisms** ensure **trustworthy processing and analysis** of data.
- **Standardized interfaces** simplify **integration** into existing planning processes.

Benefits for Wind park Planning

- **More efficient planning processes** through centralized access to relevant geospatial data.

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- **Improved decision-making** with up-to-date and accurate data.
- **Enhanced legal certainty** through clear usage agreements.
- **More sustainable projects** by considering all relevant environmental and spatial planning aspects.

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