IDE@S
Innovative Data Environment @ Styria

TU Graz

Medizinische Universität Graz

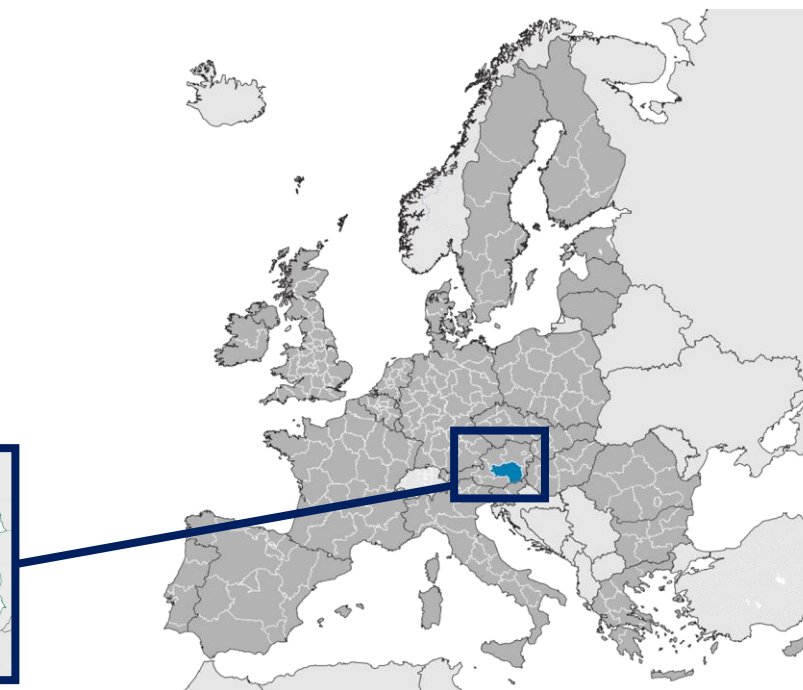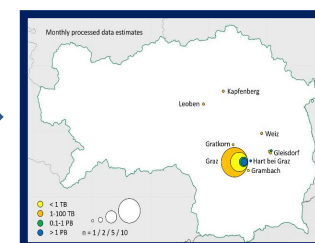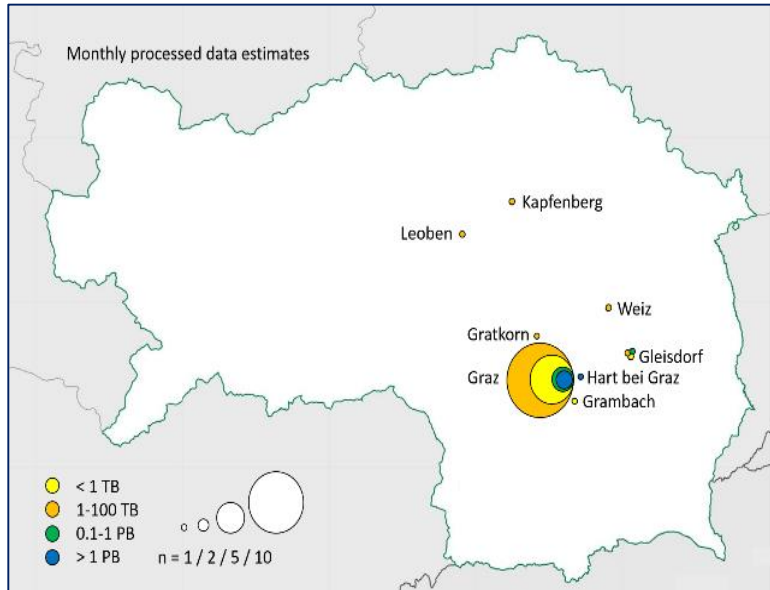FH | JOANNEUM
University of Applied Sciences

UNI GRAZ

Reference model for collaborative data-, information- and knowledge management at the regional and European levels

EOSC Symposium, 17 November 2022

Federal State of Styria

Federal State of Styria

Monthly processed data estimates

Legend:
- < 1 TB
- 1-100 TB
- 0.1-1 PB
- > 1 PB

n = 1/2/5/10

- Rich landscape of HE and research institutions
- High density of innovative companies
- **Industrial clusters**
- Ideal for innovative data ecosystems

The vision: create a regional ("local") data science & cloud computing ecosystem to…

… help to increase
- investment, innovation & R&D
- collaboration, interdisciplinary research, customer proximity

… contribute to improve
- employment opportunities & value creation
- infrastructure, HR & training, services
- **links to EU initiatives**

… by following a "holistic approach":
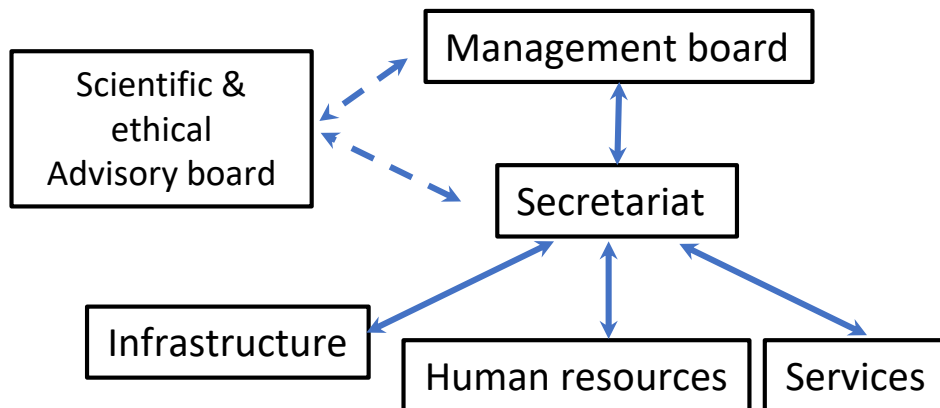
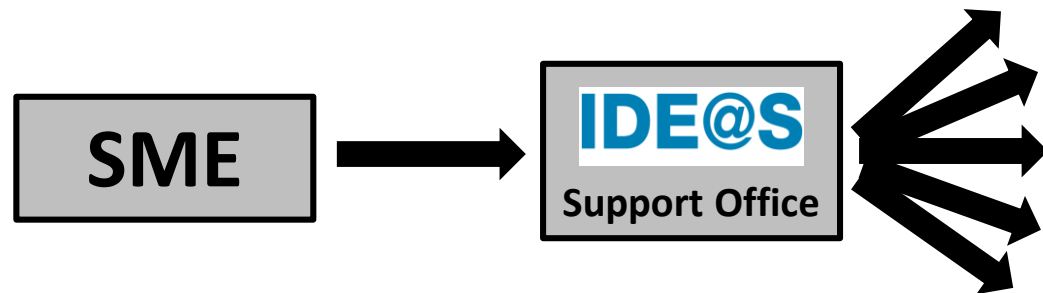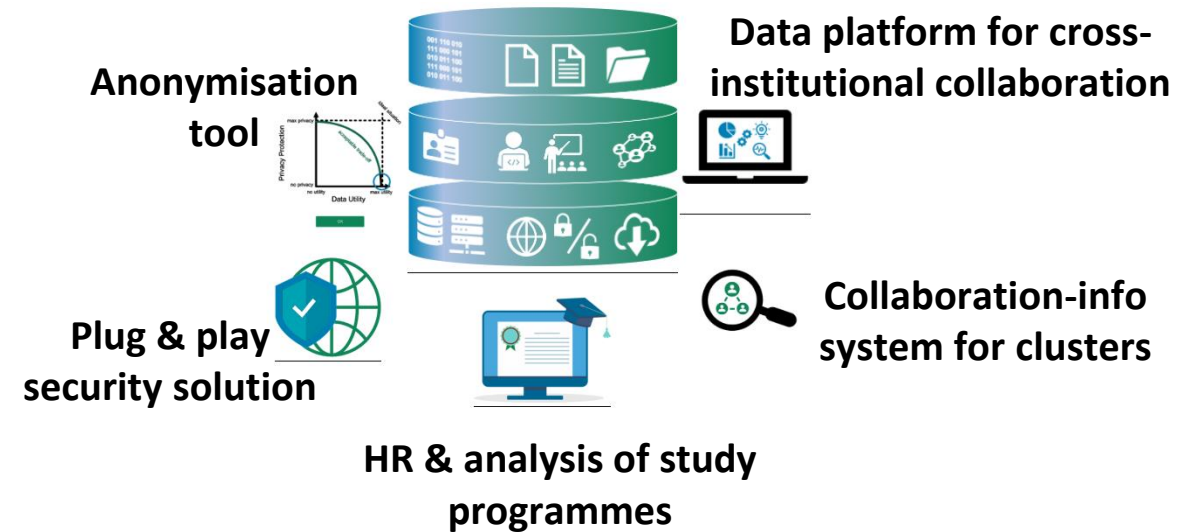| Human resources	Infrastructure	Services	Governance

- Analyse status & requirements in all areas
- Bring on board regional stakeholders (>120), incl. HEIs + research, industry & public admin
- Develop a realistic model that can be supported by regional government

Key learnings - Governance & structure

Legal form: Start with an association, create company in the future if needed

Follow modular implementation from use cases

SME → IDE@S Support Office

Scientific & ethical Advisory board

Management board

Secretariat

Infrastructure

Human resources

Services

Anonymisation tool

Data platform for cross-institutional collaboration

Plug & play security solution

Collaboration-info system for clusters

HR & analysis of study programmes

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Key learnings

- Demand for **DS & CC jobs** expected to **maintain growth**
- **Good education opportunities** in Styria, further training pref. through internal training/online
- **Standardization and data security** are key
- **Other priority areas**: consulting, data interoperability, data-driven business, automation, training

- **For a collaborative tool/network in Styria, it is necessary to...**

  - **... raise awareness** of data ecosystems among SME & industrial clusters management

  - **... incentivize students esp. female** to join DS & CC degrees. Start at school!

  - **... ensure buy-in from regional Government**

- **SMEs** need a few other things to embark in data science & cloud computing

  - **... remove barriers** (technical or otherwise) to adopt DS & CC

  - **... guidance** to join existing initiatives (to avoid duplication), including funding & cooperation opportunities

  - **... easy access** to infrastructure, tools and services (e.g. plug-and-play security solutions)

  - **... offer links** to HEIs & research for expertise, training, cooperation, or find staff

Thank you for your attention!

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