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

EOSC Symposium, 17 November 2022
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":

- 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

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

Plug & play security solution

HR & analysis of study programmes

Data platform for cross-institutional collaboration

Collaboration-info system for clusters
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!**