



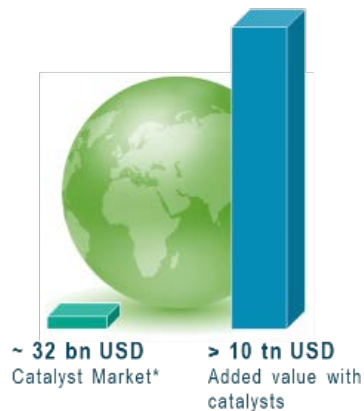
Prof. Dr. Kurt Wagemann

ADUC Mitgliederversammlung | 16.03.2021

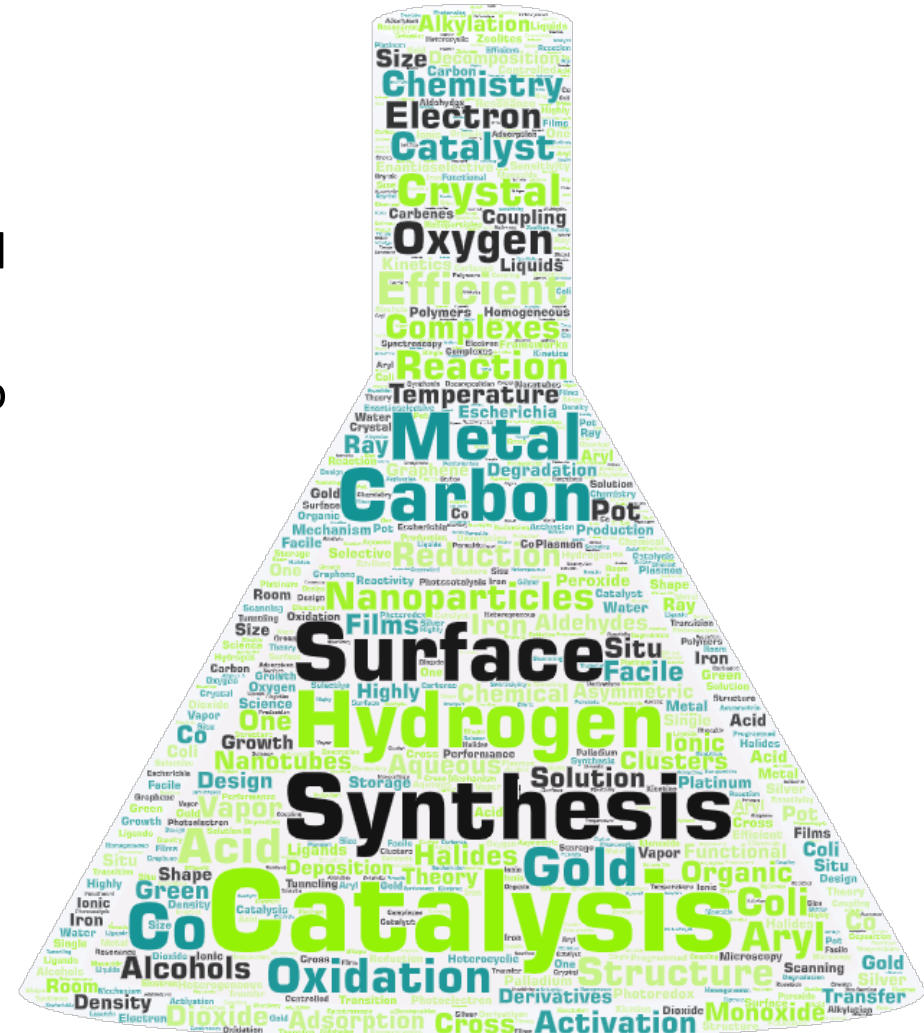
# The Complexity of Catalysis

## Catalysis...

- interdisciplinary and multi-scale science and technology of **strategic socio-economic importance**
- represents the **most powerful methodological tool** to reduce energy intensity of many industrial processes

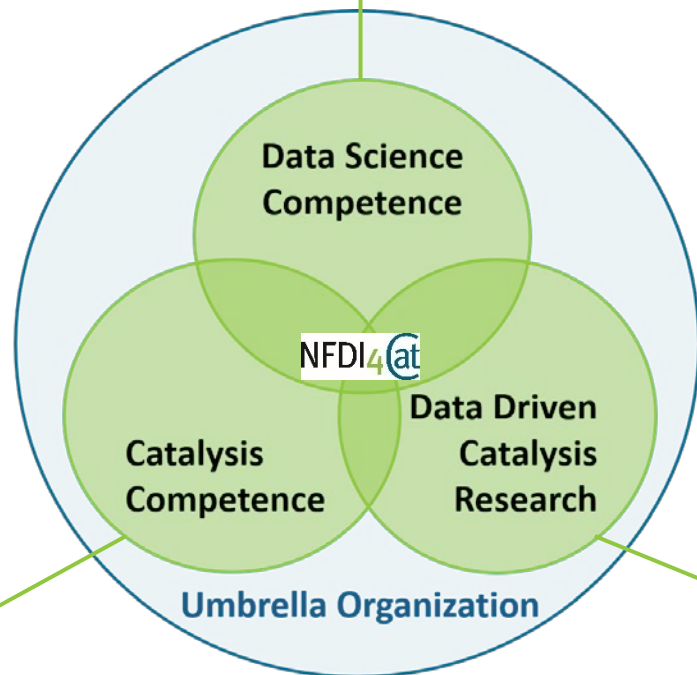


\* Source: TCGR Intelligence Report, 2016



# The NFDI4Cat Consortium

- HLRS Stuttgart
- Berlin Institute for the Foundations of Learning and Data
- Fraunhofer FOKUS Berlin
- MPI Magdeburg



- Max-Planck Institutes
- Helmholtz Institutes
- Leibniz Institutes
- Many Universities

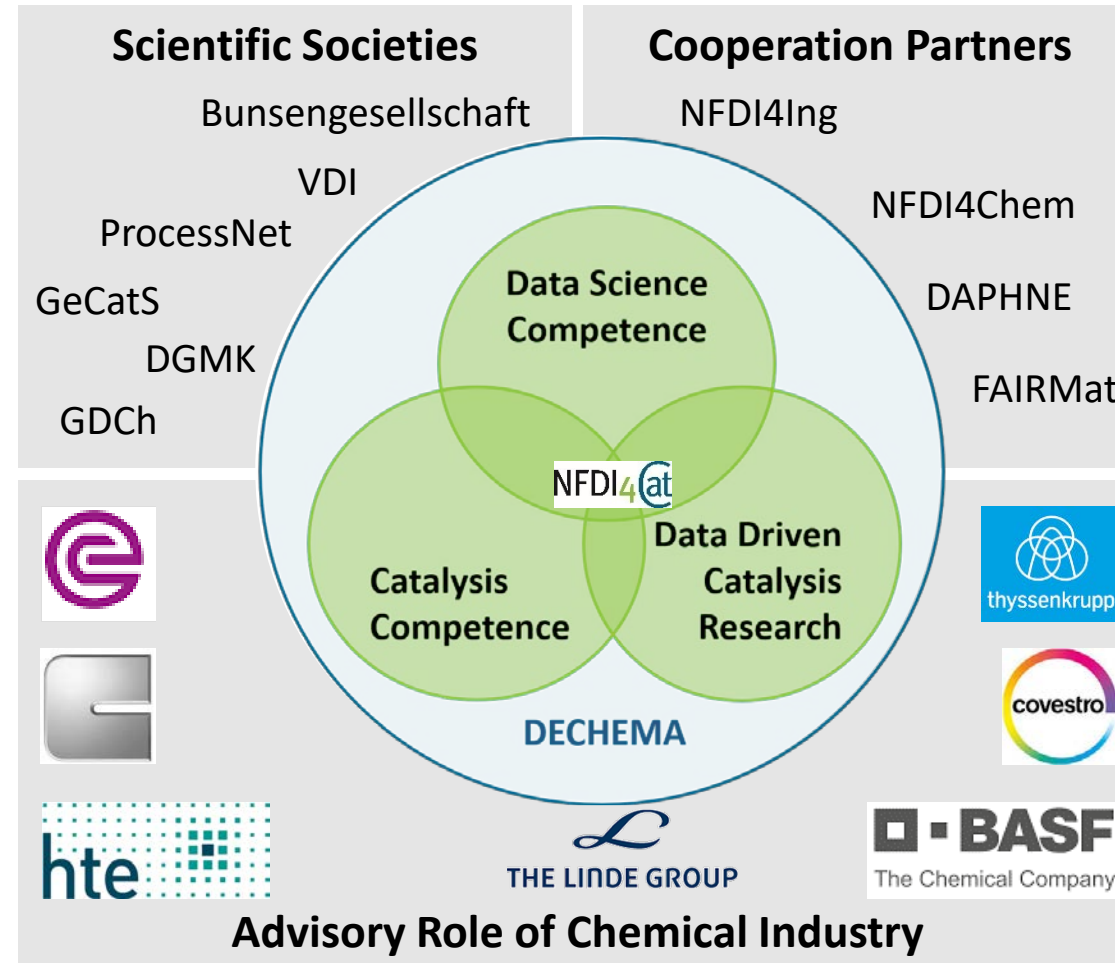
DECHEMA

- Homogeneous Catalysis
- Heterogeneous Catalysis
- Biocatalysis
- Photocatalysis
- Electrocatalysis

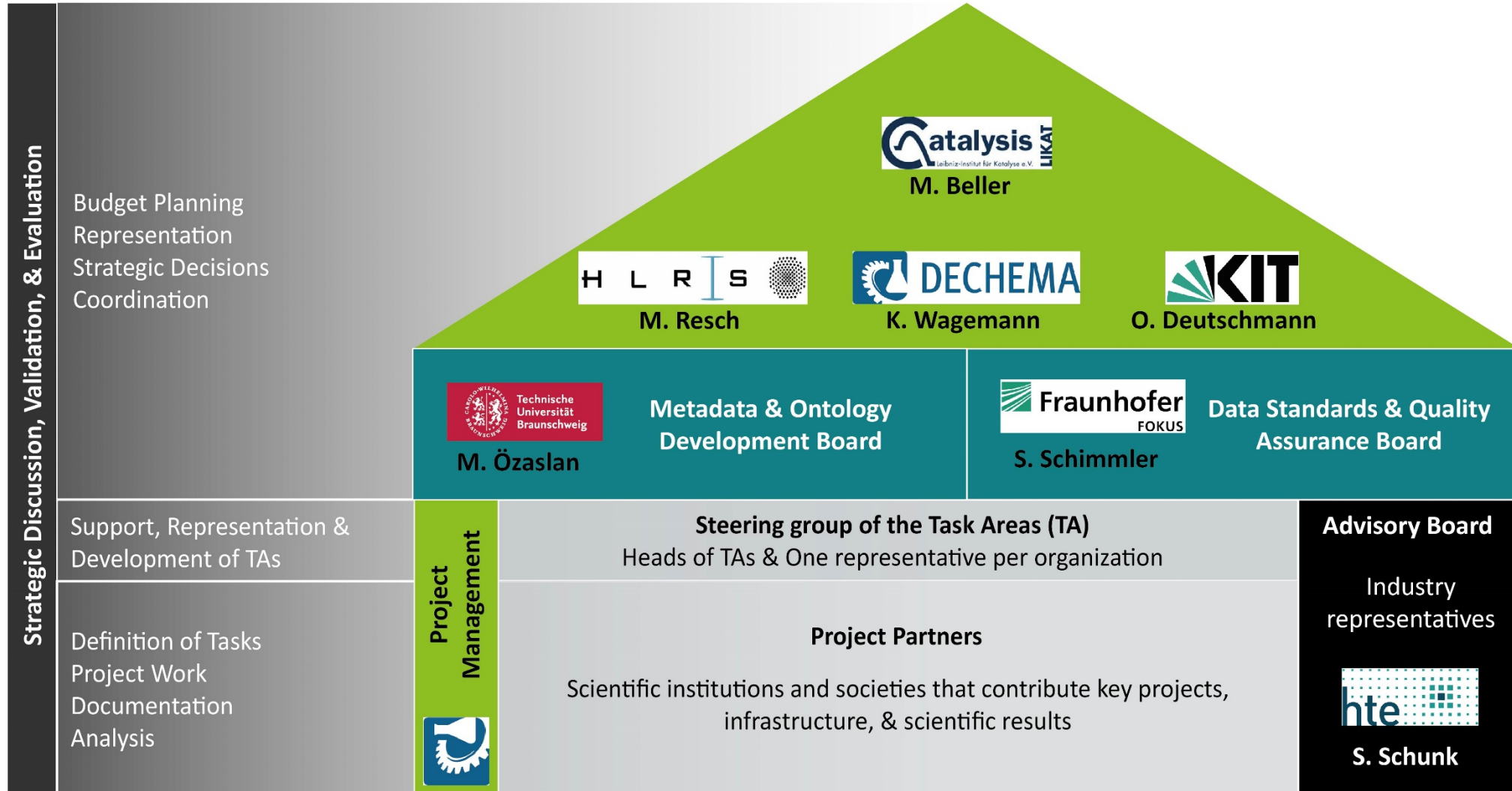
## Key Figures

- 16 dedicated partners
- Part of a larger network within the German National Research Data Infrastructure (NFDI)
- Funded by the "Deutsche Forschungsgemeinschaft" (DFG)

# The NFDI4Cat Consortium

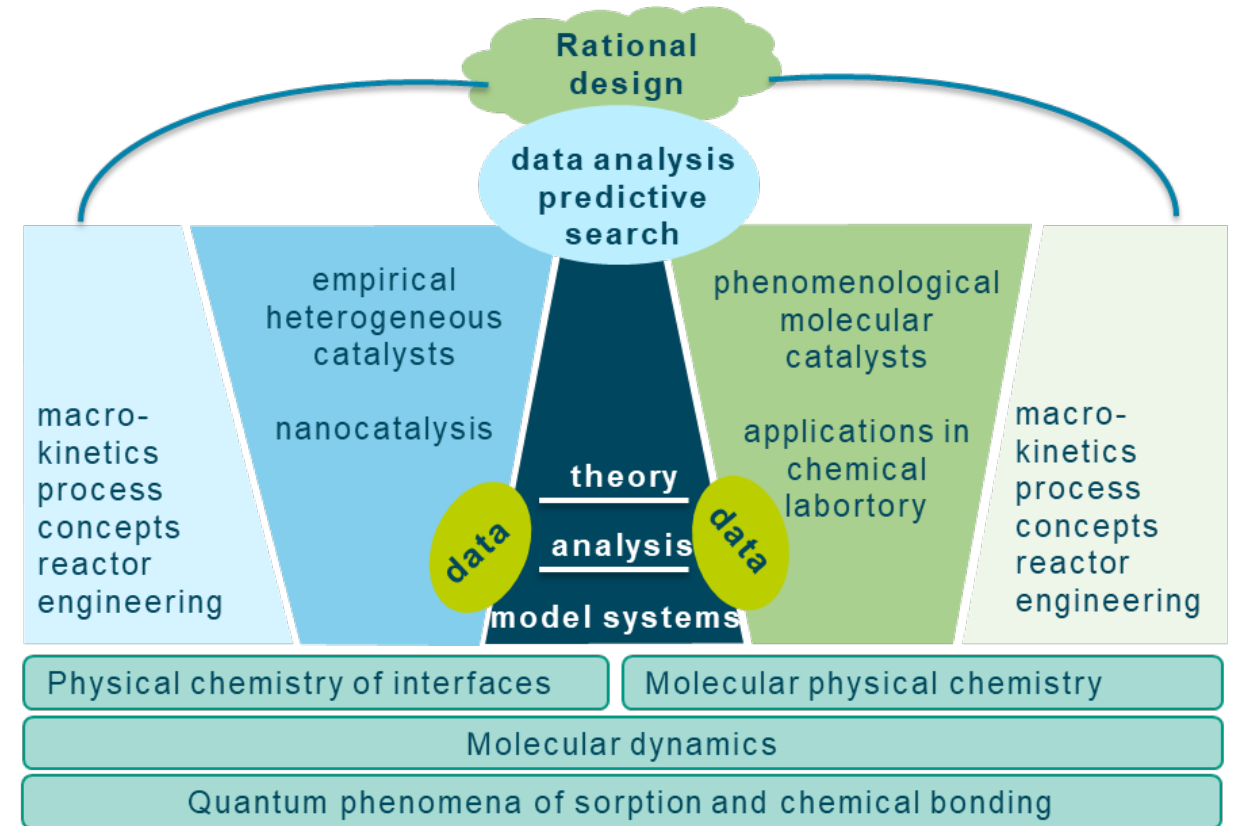


# The NFDI4Cat Consortium Governance



# Digital Catalysis

- Cross-disciplinary research
- Open and well-defined data structures
- Open and well-defined metadata standards
- Ontology development
- Verification along pilot studies
- Improved digital and RDM skills in the community
- Easy collaboration
- Embedding of NFDI4Cat in the Community



# The NFDI4Cat Consortium



## Our Mission

- Safeguarding the digital future of catalysis
- Transforming the fields of catalysis and catalysis-related sciences into Digital Catalysis



## Our Services

- Enabling software & Tools
- Joint Workshops
- Training
- The Research Data Management School of Catalysis



## Our Vision

- Community-Driven and User-Centered Initiative
- Better data quality
- Integrated data view
- New level of predictivity



Would you like to exchange ideas or become a part of the community?

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