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## **NFDI4Chem: Shaping digital and cultural change in chemistry**

More and more digital research data is being generated in science. Concepts for research data management (RDM) are therefore being searched for: Which file formats should be used in the long term? How and where should the research data be stored? What information about experiments or calculations should be stored in the metadata? How can people from your own group as well as external people access the data? How can the research data be easily found by people and computer systems? All these questions are included in the implementation of the FAIR Data principles (findable, accessible, interoperable and re-usable).

NFDI4Chem was formed as a consortium for chemistry within the national research data infrastructure (Nationale Forschungsdateninfrastruktur NFDI). In addition to university and non-university research institutions, infrastructure institutions and the German Chemical Society (GDCh), the Bunsen Society (DBG), and the German Pharmaceutical Society (DPhG) are also represented here.

In this talk, the consortium briefly introduces itself and sets out its central goals and most important contributions for RDM in chemistry, as well as the practical challenges. The vision of NFDI4Chem is to seamlessly digitalise the entire workflow in chemical research. Starting at the bench with the provision of Open-Source electronic lab notebooks (ELNs), through developing standards, interfaces, and tools, NFDI4Chem strives to remove the analogue gaps from the digital data lifecycle. Publishers and funding bodies are also already beginning to make requirements for FAIR research – find out more how you can make the most of our free offers and services to support you in digitalising your labs and making your research data FAIR.