



# DATA MANAGEMENT

**EXCELLERAT Data Management Service** develops **best practices** and provides **support for managing large amounts of data produced by and used in engineering applications**. It investigates efficient strategies for pre- and post-processing as well as storage, accessibility, and efficient metadata management. Additionally, a highly automated data dispatching through exchange mechanisms is offered, dependent on the process steps, it can be clearly identified from where the data comes and to where it has to be provided. An overall data workflow monitoring can be set up to avoid redundancies.



## CONTACT INFORMATION

Organisation: **SSC-Services GmbH**

Contact: **Janik Schüssler**

Email: [j.schuessler@ssc-services.de](mailto:j.schuessler@ssc-services.de)

## SERVICES

- **Training, consulting, best practice guide** for the use of the platform
- Provision and operation/support of the platform for the industry to **significantly facilitate the use of HPC**

## CHALLENGES

Nowadays, organisations and smaller industrial partners **face various issues while dealing with HPC calculations, HPC in general or even the access to HPC resources**. In many cases, calculations are too complex and potential users do not have the required expert knowledge to fully benefit from HPC technologies without additional support.

## SOLUTION

We want to enable HPC for Industry through our **Data Exchange & Workflow Portal** and make HPC resources available to the industry by providing **a secure data transfer platform for SMEs and simplifying the HPC barrier-to-entry for industry partners**.

## UNIQUE VALUE

The unique value proposition is that we offer HPC access to industry through academic institutes, and thus connect the two partners so that both sides can benefit from our platform.

## BENEFIT FOR INDUSTRIAL END USERS, ACADEMICS

- Safe, fast, traceable, automated, and **intelligent data exchange**
- **Time and cost savings** due to a high degree of automation that streamlines the process chain
- Calculations can be started from **anywhere with a secure connection**

## BENEFIT FOR INDEPENDENT SOFTWARE VENDORS

Due to the generic structure of the platform, **any simulation software (open source or licensed) is supported**.

## HPC PROVIDER

- **Shorter training phases** for inexperienced users and reduced support effort for HPC centres
- **Higher HPC customer retention** due to less complex HPC environment
- **Reduction of HPC complexity** due to web frontend

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