Meeting Date/Time: 28.03.2023 / 16:00

Participants: Fraunhofer SCAI, HagenStiftung, Swerim, DLR SY/FA,

Agenda:

1. Discussion on UseCase Document for WG SensorData
   Use case and benchmark descriptions
   Demands from user and IT perspective
     Validation of simulation models through real data from measuement
     Monitoring data from manufacturing processes as input for virtual modelling
     Virtual models for new sensor equipement and processes
   Expected Benefits
     Comparing & analysising simulation & real data in CAE tools or post-processors
     Unique definitions for meta-data and context infos in simulation and experiment (cp with NDT standards) – or at least unique translation rules between VMAP CAE standard and NDT standard formats
     Unique/compatible definitions would enable a (better) semantic organisation and search of data from virtual and real world in a digital twin
   Which data should be taken into account in the standard?
     measurement process
     sensor hardware and installation details
     measurement process parameters
     parameters for measurement campaign
     Calibration information for a single sensor and for a set of sensors
     Tolerances and deviations ..
     Influence of environment (external temperature, …)
     Measurement outputs in raw formats
     Information on how raw data was converted into 'higher level' data …
     Concept for VMAP extensions (distribute Victor's Thesis)
   Detailed Specifications
   Prototype Implementation
   Test and Verification
   Final Specifications, Documentation, and (if possible) some test cases

2. Co-Chair for this WG: Victor Lüddemann

3. Next Meeting April 25, 2023
        UseCase Working Document