

Meeting Date/Time: 30.05.2023 / 16:00

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

Agenda:

1. Use Case Document

UC1: Blowforming – Measurement and Simulation

Victor has prepared descriptions and information about the current way using VMAP format to store measurement data.

These descriptions will be introduced in chapter 5 of the working document.

More details on the technical use case (setup of the measurement system and experiments) will follow.

UC2: Steel Production - Data analytics for steel manufacturing processes

Siva is still on travel (NWC23) and will work together with Krister on the user's perspective of collection

(time series) data in steel production. One focus probably will be on synchronization of multiple sensors

in time and space, e.g. if you have a continuous production process.

UC3: Inspection Systems - FEM for Ultrasonic Guided Waves in SHM design will be done during the next weeks

UC4: Standards in Non-Destructive Testing

will be done during the next weeks

2. Feedback from NAFEM WC23 in Tampa Florida

Presentation and Discussion on

Interface syntax and data semantics

Combining real world data and simulation

Towards storing full model information

Digital Twins & Standardisation

Combining data from real and virtual experiments is a current and central

R&D topic

There are too many different ways to realize such combinations

There are a lot of standards in for the 'real world' - but (almost) nothing in the CAE domain

A common format syntax is an absolute 'must' for an efficient implementation

Semantic definitions would make the mapping of data to each other much easier and consistent

3. Next Meeting June 27, 2023

(Final) UseCase descriptions

First screening of necessary meta data

Further member candidates