## WG-AM-MeetingMinutes-2025-07-07.txt

Meeting Date/Time: 07.07.2025 / 13:00

Participants: SCAI, Reden, Aerobase, SINTEF, TUM, Eindhoven University of Technology, University Patras, TWI, Cranfield University, Amsight

## Agenda:

## 1. Introduction of New Members

The news members TWI and Cranfied University introduced themselves and their intention to join the AM WG. AMsight joined the meeting later in the hour.

## 2. Use Case example by Aerobase

- Modelling: Laser intensity optimization and scanning path are the key factors to build an optimized product.
- Microstructure: By changing the laser beams and desired microstructure can be achieved. This, however, requires some further research.
- Multiphysics aspect: Laser beams and the intensity will also affect the shape of the melt pool
- Computational time: The evaluation of melt pools can be done on smaller coupons to reduce the time.
- 3. Other Parameters/Factor for standardization
  - a. Melt Pool Shape
  - b. Machinery Set-up
  - c. Data Validation & Comparison
- 4. Some common pain points for Standardization
- 5. Next Steps

Presentation by TWI/Cranfield on the 'Metal Additive Manufacturing' Benchmark by NAFEMS.

Each partner to document their key data parameters

6. Next Meeting

August 04, 2025, at 13:00 CEST