

## ZIM-Kooperationsprojekt „ATLAS“ – 01.08.2021 bis 31.01.2024

ATLAS - „Alloy Testing Laboratory at Advanced Specifications“



FKZ: KK5178701SH0



FKZ: KK5176001SH0



FKZ: KK5178001SH0

### Facts:

The competence cluster „ATLAS“ has been started at 2021-08-01. ATLAS is a support program of the „Zentrales Innovationsprogramm Mittelstand“ (ZIM, [www.zim.de](http://www.zim.de)) of federal ministry for economic affairs and energy (BMWi, [www.bmwi.de](http://www.bmwi.de)).

This venture shall merge the know-how and development of innovative methods to generate new approaches on topics of material development, material characterization, and optimization of material properties.

Therefore, the companies DeltaSigma Analytics GmbH, Nordmetall GmbH, and Sampro GmbH have established the cluster.

The development of high performance metallic materials needs expensive test melts and extensive material characterization and sophisticated material descriptions to prepare FEA-material cards – especially for high temperature deformation at shear respectively torsion loading at high impact rates.

### Goal:

- reduction of costs
- reduction of development time

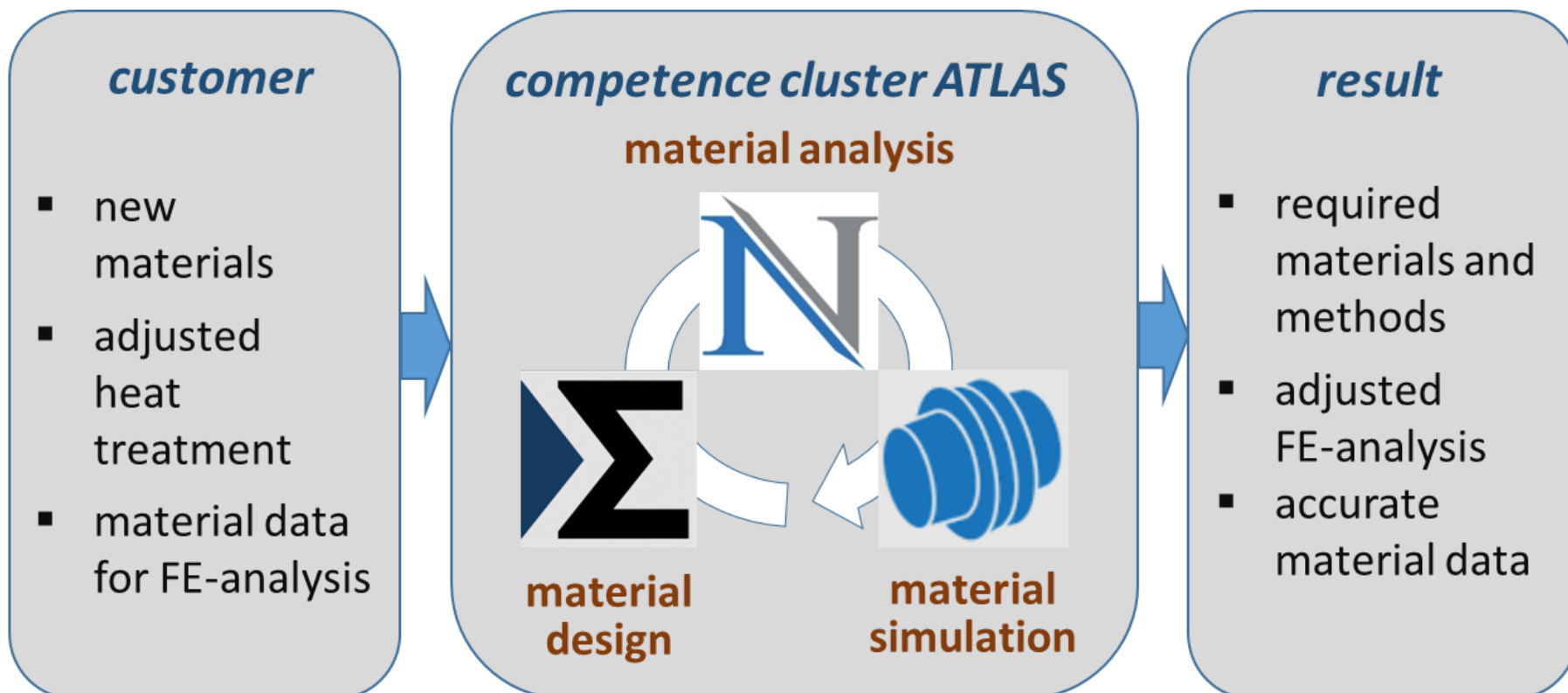
### Customer:

- metal-working industry

### Approach:

combination of...

- new flexible method for material production and heat treatment
- new technique for high temperature and high impact velocity at torsion loading
- automatic evaluating of tests by using of FE-simulations and optimization algorithms



Supported by:



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