

# Research project

## ProCloud3D: Secure Slicing for Industrial 3D Printing in the Cloud



### Motivation and Relevance

- IP-Protection plays a crucial role for distributed manufacturing with AM as sensitive data such as 3D models have to be shared
- For both, AM users and service providers there is no satisfying solution to securely share data between companies and to transfer it to AM machines

### Approach

- Streaming manufacturing information layer-wise directly from the cloud to an AM machine, instead of sharing entire 3D models

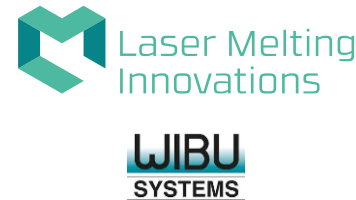
### Results

- Streaming Protocol build on the Open Vector Format to securely transfer data from the cloud to an LPBF machine
- Architecture for a cloud manufacturing platform to securely share data between AM users and service providers to allow for flexible, on-demand distributed manufacturing

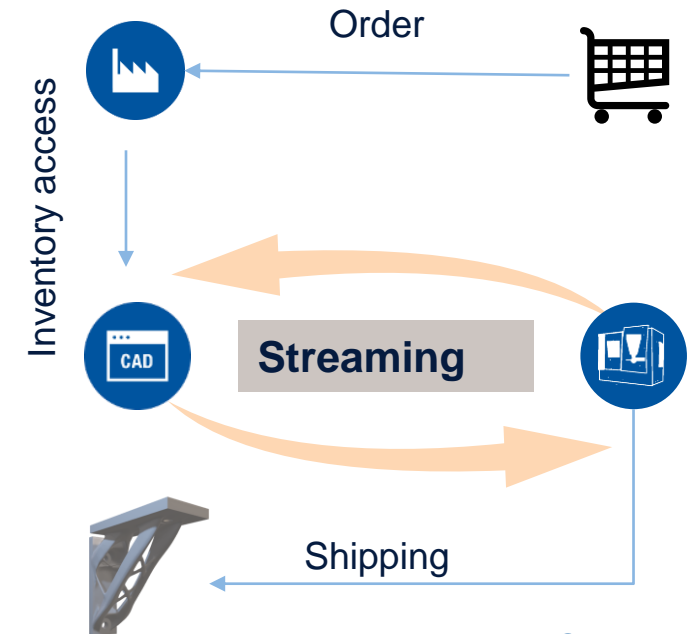
### Research Area

- Distributed Manufacturing
- Cyber-Security

### Partners



### Concept



### Contact



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