#InvestEUresearch

Horizon 2020 Work Programme for Research & Innovation 2018-2020

EMRS Event
Warsaw, 19th September 2018

Workshop: Europe in Motion-EUMAT Session
Time: 13:45-16:10
Proponent: Robert Bosch Corporate Research (Bernhard Polzinger)
Proposal title: AM3DEM – Additive Manufacturing of 3D Electronics and Mechatronic Parts

DG Research & Innovation

Research and Innovation

Scope AM3DEM
Vision and Research Needs

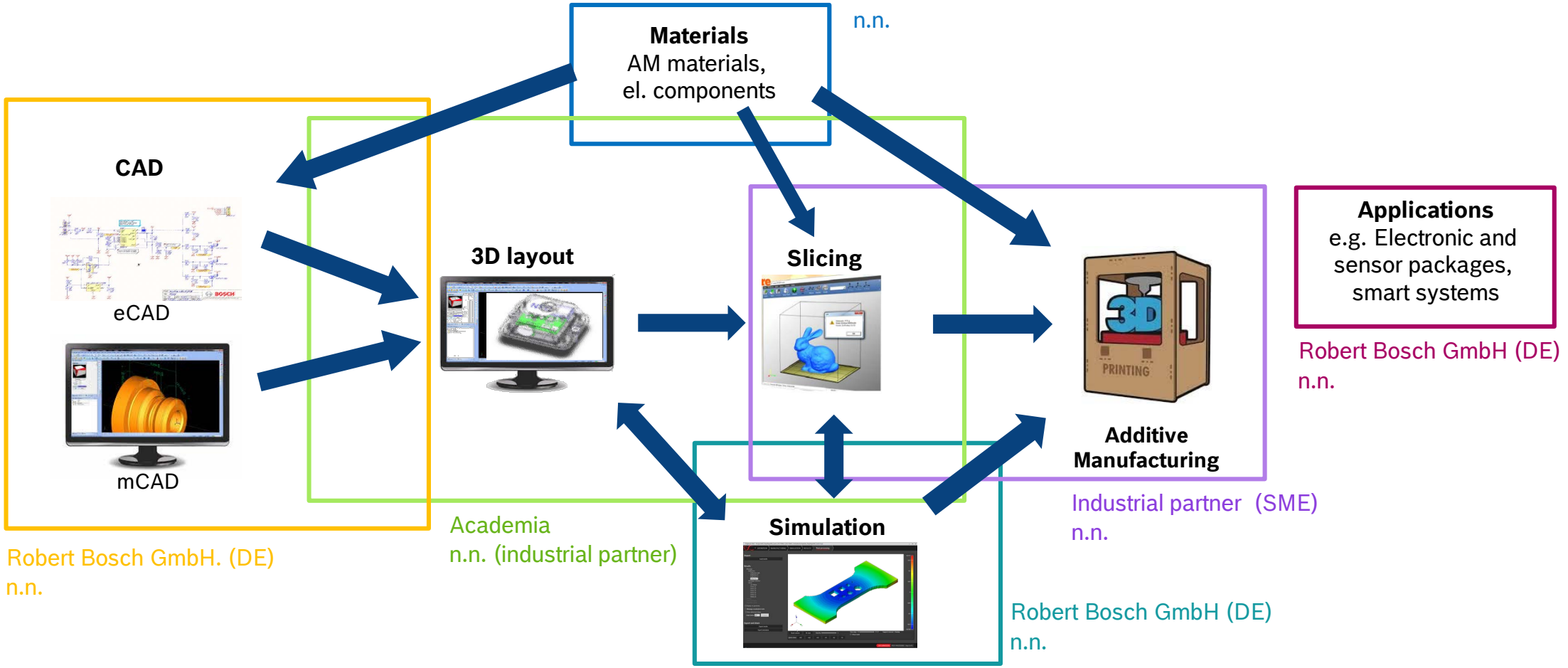
- **Vision:** Additive manufacturing of polymer-based 3D mechatronic parts and products

- **Research Needs:** New additive manufacturing technology which is combining:
  - Additive manufacturing of polymer-based multi-materials
  - Integration of electric and electronic components (e.g. sensor chips, passive electric components) and small inserts (e.g. PCB) via pick & place

- **Requirements** beyond state of the art of additive manufacturing:
  - Materials for reliable 3D printing which fulfil demands on mechanical and electrical requirements
  - Design software to combine eCAD and mCAD
  - Slicing software for CAD data of mechatronic parts
  - Automation of complete process

- **Tentative Project title: A**dditive **M**anufacturing of **3D E**lectronics and **M**echatronic Parts(AM3DEM)

Scope AM3DEM
Workflow and potential partners



Scope AM3DEM
Brokerage:

- What we aim for:
  - Project proposal for H2020
  - Example: : DT-NMBP-18; DT-NMBP-19; DT-FoF-12;
  - Alternate calls that fit the project idea: MOST WELCOME!

- Bosch role:
  - Proposer; active participation in CAD /Design, simulation, applications (from specs to market)
- Partners wanted in all areas of the project

- Contact:

Bernhard Polzinger, Bosch Corporate Research, email: Bernhard.Polzinger@de.bosch.com
(or optional also: Winfried.Keiper@de.bosch.com)