



## Horizon 2020 Work Programme for Research & Innovation 2018-2020

**EMRS Event** 

Strasbourg 20th June 2018



Workshop: Europe in Motion-EUMAT Session

Time: 13:45-16:10

Proponent: Bosch Corporate Research – Bernhard Polzinger

Proposal title: AM3DEM (Additive Manufacturing of 3D Electronics and

Mechatronic Parts)

DG Research & Innovation

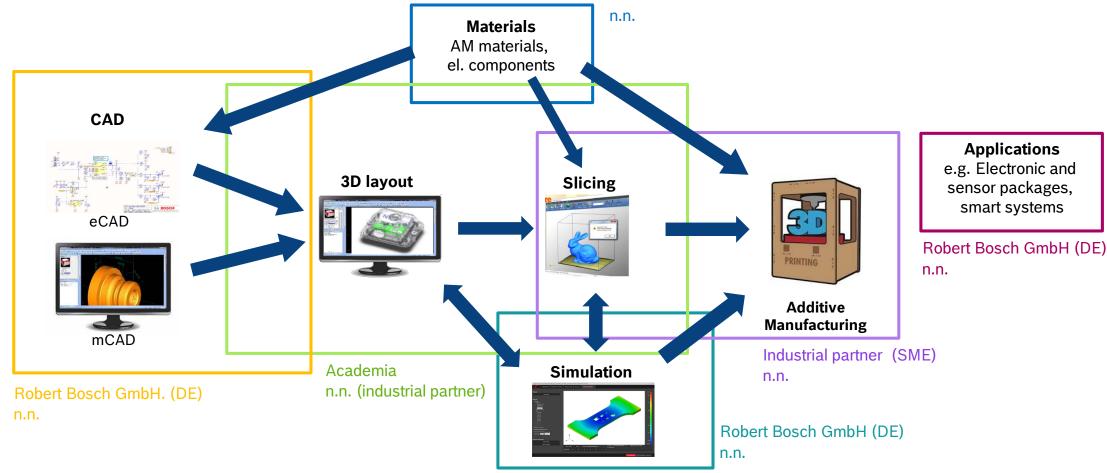
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## Scope AM3DEM Vision and Research Needs

- ▶ **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: Additive Manufacturing of 3D Electronics and Mechatronic 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: <a href="mailto:Bernhard.Polzinger@de.bosch.com">Bernhard.Polzinger@de.bosch.com</a>

(optional also: Winfried.Keiper@de.bosch.com)

EUMAT-EMRS Joint Session @ Europe In Motion on 20th June 2018

