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Johnson Matthey Fuel Cells Ltd

**Chemnitz University** of Technology www.tu-chemnitz.de

Consortium —



**Fuel Cell Powertrain** www.fuelcellpowertrain.de Bayerische Motoren Werke www.bmwgroup.com





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Pretexo

University of Freiburg **IMTFK** 

www.imtek.de



## About the CAMELOT project ...

The FCH 2 JU funded **CAMELOT** project brings together highly experienced research institutes, universities, fuel cell membrane electrode assembly (MEA) suppliers and transport original equipment manufacturers to improve understanding of the limitations in fuel cell electrodes.

This will enable the partners to improve the power density of fuel cells and provide guidance on the next generation of MEAs required to achieve 2024 performance and costs targets.

www.camelot-fuelcell.eu

## Overall objectives-

Improve the power density of fuel cells by understanding the limitations on the performance of MEA.

**Objective 1**: Identify the fundamental transport properties that limit performance in SoA and prototype beyond-SoA MEAs and materials.

**Objective 3**: Produce MEAs with features that have the potential to enable disruptive performance increases and to validate the open source model for beyond-SoA MEAs.

**Objective 2**: Extend a leading open source model to enable the accurate simulation of SoA MEAs using automotive SRU Hardware.

Objective 4: Propose new beyond-SoA MEA designs in automotive SRU geometries that address SoA performance limitations and provide simulation tools that guide rational development of new MEA concepts.

**CAMELOT** will use a combination of numerical modelling and advanced in situ characterisation techniques to build a scientific understanding of the limitations on SoA MEAs. The overall Concept of CAMELOT is illustrated in the scheme below.

