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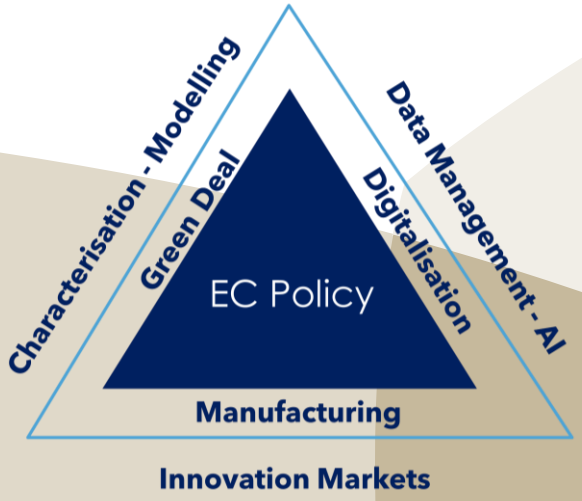
EMCC: unravelling the materials' potential, upscale and industrial uptake

EMCC is a European initiative set up at the beginning of 2016, based on and strengthening the existing European Materials Characterisation Cluster (created in 2014).

Council Structure



Activities

- Representation and the promotion of fundamental research and of applications in the field of materials characterisation
- Advice and Planning in characterisation protocols development and standardisation activities
- Support and coordinate CHADA development and compliance with up-to-date proceedings
- Providing guidance and support in the establishment of ontologies in characterization domain (in cooperation with EMMC)
- Establish technological roadmaps
- Establish channels with policymakers & Coordination between European, national, regional initiatives and Member State support
- Networking, International cooperation and stakeholders engagement
- Technology transfer and Education
- Dissemination and events co-organisation

Join us, it matters!!!

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Themes

- Lifecycle encompassing academia, end users & regulation.
- Reliability of metrology, meaning validation, calibration, standardisation, uncertainty budget, traceability, reference materials and modelling.
- Industry 5.0: Reduced time-to-data; linking nano-metrology with in-situ monitoring and industrial needs.
- Characterisation to support materials modelling and digital metrology: validation and data.
- Characterisation data, AI, metadata and data management.
- Characterisation for upscaling: supporting the transition from complex testing towards accessible methods/tests for industry ("from lab to fab" approach)

PLANTING THE SEEDS FOR DIGITAL PASSPORTS

EMCC has identified a gap in the digital records on such data, which once overcome, will enable the materials properties within different product stages during use life and second life to be assessed against commercial records.

BUILDING A COMMUNITY AROUND OPEN INNOVATION ENVIRONMENTS (OIEs)

EMCC is building on the vision of OIEs and Open Innovation Testbeds (OITBs), aiming to foster developments, which offer cutting-edge solutions to industry, combining Digitalisation, smart characterisation 4.0, and interoperability as engines for innovation in Industry 5.0 era.

BRINGING TOGETHER CHARACTERISATION, MODELLING, DATA SCIENCE WITH MANUFACTURING

Characterisation's digitalization and contribution to informatics for the centralisation of knowledge can help EU Industry to go to the next level with specific priority actions, focusing on addressing the priorities of Innovation Markets.

VISION TO 2030 FOR ADVANCED MATERIALS SERVICES

EMCC will showcase the strategic role of characterisation in the broader framework of AMI2030 in driving innovation and promoting the best use of materials in industry and society, with a particular attention to digitalisation.

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