

EURAMET TC-MC Metrology for Industry



driving innovation and digitalisation in industrial production
facilitating new or significantly improved products, processes or services
improve competitiveness and economic turnover
basis for new industrial technologies

Drivers & Benefits

Targets

Target examples

- > High added value production
- > Reduced technical barriers to trade
- > Quality control assurance in production
- > Reliability, Security, Safety, Sustainability

Product examples

- > Industry 4.0
- > Surface treatments
- > Industrial biotechnology
- > Advanced therapeutics and bio-manufacturing
- > Nanomaterials

Component technologies

CRM development, certification and dissemination

Surface analysis

Innovative materials for electromagnetic applications

Raw and matrix materials (incl. bio-)

Fluid materials

Nanoparticles and 2D materials

Microscopic techniques

Spectrometry techniques

Biosensing

Other analytical Techniques (Purity)

In-line monitoring of industrial processes

Functionalisation, surfaces coating

Specialised, high-end products and standards

Validation of novel measurement methods and techniques

Inputs to relevant standardisation committees and the method-defined measurement work

Provide continuity of traceability to SI/higher order standards, thus minimising uncertainty passed on to users

2020

2025

2030

Generic underpinning chemical and biological metrology activity