

EMPIR Work Programme Call Scope – SI Broader Scope (2018)

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The Targeted Programme (TP) "SI Broader Scope" under the EMPIR Call 2018 is part of a sequence of calls for metrology R&D underpinning the development of the European metrology capabilities in the National Metrology Institutes (NMIs) and Designated Institutes (DIs). The call implements the long-term strategy of EURAMET to develop a joint, coherent and efficient European metrology landscape at internationally competitive level by 2025.

The related iMERA-Plus Call 2007, TP "SI Fundamental", concentrated on the measurement of constants of nature and basic measurement principles to support the envisaged redefinition of the SI base units, as requested by the General Conference on Weights and Measures (CGPM) under the Metre Convention. Under the EMRP, the TP SI Broader Scope of 2011 and 2012 went a step beyond and prepared the implementation of the redefinition and support developments of practical realisations ("mise en pratique") of the redefined base units and affected derived units. EMPIR issued its first SI call in 2015.

The call 2018, will build on the achievements of the earlier calls to provide the opportunity to consider and propose longer-term and larger-scale approaches bringing the European measurement capabilities in the internationally leading position.

Proposals will be preferred which aim at the development of a joint, sustainable, and coordinated European landscape of metrology capabilities. The impact criterion of the proposal selection process will reflect this objective.

The call comprises the development of new advanced techniques for providing traceability of measurement results to the users of metrology services. All technological disciplines may be addressed, if stakeholder needs are documented or can be convincingly anticipated.

To enhance the impact of the R&D work and to include world leading expertise, the involvement of the larger community such as the metrology R&D resources outside Europe, as appropriate, is expected.