

Public consultation: European Metrology Research Programme under Horizon 2020

Information about respondent profile	
Please enter your organisation's name or your personal name (for individuals). -open reply-(compulsory)	
The Institute of Physics	
Please enter your address. -open reply-(optional)	
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Please enter your e-mail address: -open reply-(compulsory)	tajinder.panesor@iop.org
Received contributions together with the identity of the contributor may be published on the Commission's website. Do you agree to your contribution being published under your name? -single choice reply-(compulsory)	My contribution can be published under the name indicated
Please enter your current country of residence or where your organisation is based. -single choice reply-(compulsory)	United Kingdom
Whom do you represent? -single choice reply-(compulsory)	Other
What aspect of metrology are you/is your organisation involved in? [more than 1 option possible] -multiple choices reply-(compulsory)	Other, please specify:
Please specify -open reply-(compulsory)	
The Institute of Physics supports and represents its members engaged in metrology research.	
Are you familiar with the European Metrology Research Programme (EMRP)? -single choice reply-(compulsory)	Familiar
Have you applied for funding from EMRP? -single choice reply-(compulsory)	No
Have you received funding from EMRP? -single choice reply-(compulsory)	No
Relevance of metrology research	
In your view, how relevant is metrology research for addressing Grand Challenges such as health, energy or environment? -single choice reply-(compulsory)	Very relevant
In your view, how relevant is metrology research	Very relevant

for the European economy and industrial competitiveness? -single choice reply-(compulsory)	
In your view, how relevant is metrology research for European policies, standardisation and regulatory work? -single choice reply-(compulsory)	Very relevant
Identification of the problems	
Lack of coordination and unnecessary duplication between metrological resources across national boundaries -single choice reply-(compulsory)	Very important
Insufficient overall investment in metrology research -single choice reply-(compulsory)	Very important
Weak scientific excellence of metrology research in Europe -single choice reply-(compulsory)	Very important
Insufficient metrology research oriented towards grand challenges (e.g. health, energy or environment) -single choice reply-(compulsory)	Very important
Weak inter-disciplinary research practices -single choice reply-(compulsory)	Very important
Lack of cooperation of National Metrology Institutes (NMIs) with the wider scientific community (especially beyond physical sciences) -single choice reply-(optional)	Very important
Lack of cooperation with industrial partners -single choice reply-(compulsory)	Very important
Weak industrial exploitation -single choice reply-(compulsory)	Very important
Huge capacity gaps between EU Member States -single choice reply-(compulsory)	Very important
Lack of qualified researchers and formal career paths -single choice reply-(compulsory)	Limited importance
Insufficient mobility of researchers within the National Metrology Institutes -single choice reply-(compulsory)	Limited importance
Insufficient access to specialised infrastructures -single choice reply-(compulsory)	Limited importance
Lack of engagement with European Standardisation -single choice reply-(compulsory)	Limited importance
Insufficient global cooperation with leading metrology research programmes -single choice reply-(compulsory)	Limited importance
Lack of a single voice in a global network	Limited importance

-single choice reply-(compulsory)	
Objectives	
Support strategic metrology research projects to address basic metrology -single choice reply-(compulsory)	Very relevant
Support metrology related to the three Grand Challenges - Energy, Environment and Health -single choice reply-(compulsory)	Very relevant
Support innovation and industrial competitiveness through metrology research activities -single choice reply-(compulsory)	Very relevant
Establish structured interaction of NMIs with science community to support further modernisation of the overall European metrology system in all concerned EU -single choice reply-(compulsory)	Very relevant
Support capacity building in MS and link where appropriate to the use of structural funds -single choice reply-(compulsory)	Very relevant
Support normative research and regulatory work -single choice reply-(compulsory)	Very relevant
Promote structured global cooperation with other regions in the world -single choice reply-(compulsory)	Very relevant
Options	
A number of policy options have been identified that should be considered. Please rate the following options:	
Policy Option 1: "No EU co-financing action" Discontinue the EU participation and financial contribution to this initiative after the end of its current funding phase in 2013. Furthermore, no provision would be made in EU research policies, programmes or funding to support EMRP objectives, either in terms of financing or coordination support. Eventually light coordination through ERA-NET could be envisaged under this option. -single choice reply-(compulsory)	To be avoided
Policy Option 2: "Business-as-usual" Same type of Art. 185 programme like EMRP. A new EU decision continuing the EU participation and financial contribution to a successor programme would be adopted based on the same terms as for the current EMRP programme with article 185 of the Treaty on the Functioning of the European Union (TFEU). In this respect, EMRP would remain focused on basic and challenge oriented metrology research.	Appropriate

-single choice reply-(compulsory)	
<p>Policy Option 3: "New reinforced Article 185 initiative under Horizon 2020"</p> <p>A new EU decision continuing the EU participation and financial contribution to a reinforced and broadened successor programme of the EMRP to be adopted on the same legal basis, namely Article 185 TFEU. The new programme would intend to fully exploit the EU potential in metrology in order to assure the optimal answers to societal challenges. It would support capacity building much stronger, establish closer links to standardisation and regulation and serve industrial need by addressing innovation and exploitation of research project results.</p> <p>-single choice reply-(compulsory)</p>	Very suitable
<p>Policy Option 4: "JRC – direct action"</p> <p>A single European research programme to be implemented via the Joint Research Centre of the European Commission (JRC) would be set up to cover all metrology needs at European level. This programme would be a fully institutional programme at the level of the Commission services being fully independent from the existing national metrology systems and capacities.</p> <p>-single choice reply-(compulsory)</p>	To be avoided
<h2>Overall comments</h2>	
<p>Do you have further comments? -open reply-(optional)</p>	
<p>No comment.</p>	