

WP5

Strategy for capacity development and basis for coordinated approach

<p>5.1 Individual strategies for the development of digital traceability chain for ac voltage and current metrology.</p>	<p>May 2022</p>	<p>Completed</p>	<p>A document for reporting the individual strategies for the development of a digital traceability chain for AC voltage and current metrology has been prepared, distributed to all partners, discussed and finally sent to the MSU.</p>
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<p>A5.1.14</p>	<p>D7</p>	<p>Agreed individual strategies and coordinated strategic plan for the long-term development of FER, CEM, CMI, IPQ, JV, GUM, Metrosert, NPL, INRIM, PTB and TUBITAK research capability in digital traceability chain for AC voltage and current metrology</p>	<p>PTB, FER, CEM, GUM, INRIM, IPQ, JV, Metrosert, NPL, TUBITAK, CMI, UMA</p>	<p>May 2022</p>	<p>Completed</p>	<p>Each partner is obtaining the knowledge in this time as a base for defining the strategic plan, and long-term activities. PTB is coordinating this activity.</p>
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ACTIVITY	FER	CEM	CMI	GUM	INRIM	IPQ	JV	Metrosert	NPL	PTB	TUBITAK
Characterization of analog-to-digital converters	Y	Y	Y		Y	Y	Y	Y	Y	Y	Y
Direct traceability to the future SI definition for digital voltage and current metrology	Y	Y		Y	Y	Y	Y	Y	Y	Y	Y
Progressively replacement of the thermal converters as AC standards	Y	Y		Y	Y	Y	Y		Y	Y	Y
Traceability of current shunts and voltage dividers, amplitude and phase	Y	Y	Y					Y			
Underpinning of new power and energy traceability using a digital measurement chain based on quantum standards	Y	Y		Y	Y	Y	Y	Y	Y	Y	Y
Digital impedance bridges	Y	Y	Y	Y		Y					
Wider frequency ranges of Josephson impedance bridges					Y					Y	Y
Characterization of components for use in quantum computing, in-situ at low temperature									Y		

SRT "True 8-digit digitizer"

QuantumPower

GIQS – just finished

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<p>5.2 Establishment of the basis for the future cooperation on digital traceability chains related to AC quantum standards</p>	<p>December 2019</p>	<p>Completed</p>	<p>At the EURAMET TC-EM meeting it was decided not to give this group an official status.</p> <p>Therefore, we decided in participating TC-EM subcommittee meetings DC-LF and DC-QM for better linking these groups.</p> <p>Keep a close link to the EMN-Q. ongoing</p>
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