

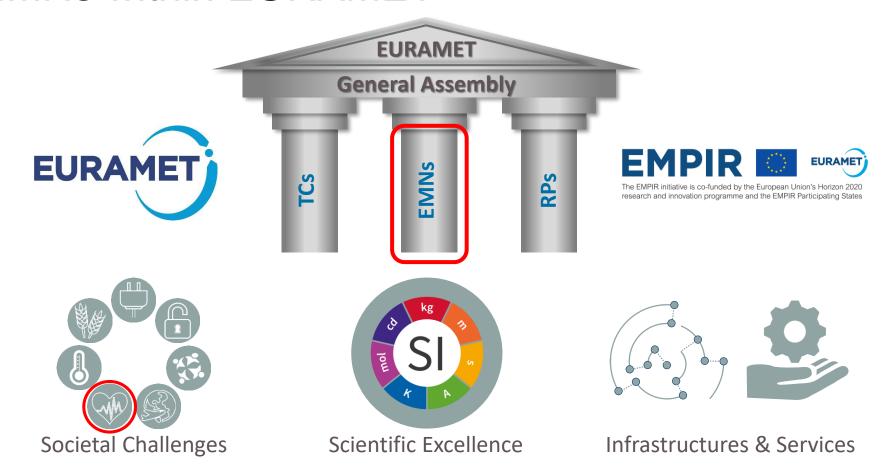


TraceLabMed A European Metrology Network

David Auerbach, Rainer Stosch

3 December 2019

EMNs within EURAMET



EURAMET EMNs

EURAMET'S EUROPEAN METROLOGY NETWORKS

Close collaboration in measurement science with a new sustainable structure

The vision of EURAMET and its members is to ensure Europe has a world-leading metrology capability, based on high-quality scientific research and an effective and inclusive infrastructure, that meets the rapidly advancing needs of end users. EURAMET's European Metrology Networks (EMNs) help realising this aim.

Currently there are six EMNs: Mathematics and Statistics, Laboratory Medicine, Quantum Technologies, Smart Electricity Grids, Energy Gases, and Climate and Ocean Observation.

The EMNs will analyse the European and global metrology needs and address these needs in a coordinated manner. EMN members will then formulate common metrology strategies including aspects such as research, infrastructure, knowledge transfer and services. The members will be committed to contributing to the EMN, helping to establish sustainable structures that are strategically planned from the outset.

By providing a single point of contact for information, underpinning regulation and standardisation, promoting best practice and establishing a comprehensive, longer-term infrastructure, the EMNs aim to create and disseminate knowledge, gain international leadership and recognition, and build collaboration across the measurement science community.

- to address metrology needs in a coordinated manner
- establishing and maintaining sustainable structures
- to act as a single point of contact



EMNS

Climate and Ocean Observation Energy Gases Laboratory Medicine Mathmet Quantum Technologies Smart Electricity Grids

Existing EURAMET EMNs



- 2017: initiated by PTB with support from European NMIs/DIs
- 2018: EMN proposal submitted to and approved by EURAMET GA
- 2019: MoU signed and Kick-off

EMN TraceLabMed





EU IVDR (2017/746):
Demand for **metrological T**

Demand for metrological Traceability



International Standards for medical Laboratories: Demand for **metrological Traceability**



EU citizens: Metrological traceability for patient safety & public confidence in LM





EMN TraceLabMed - Aims



Support for EU reference laboratories



Metrological traceability for in vitro diagnostics



Service-oriented European metrology infrastructure



Coordinated top-down research



Capacity building & knowledge transfer

EMPIR JNP 18NET02



Support for a European Metrology Network on traceability in laboratory medicine

Short Name: TraceLabMed, Project Number: 18NET02



PARTICIPATING EURAMET NMIS AND DIS	INFORMATION	
BAM (Germany)	TYPE	
INRIM (Italy)	EMPIR	
LGC (United Kingdom)	FIELD	
LNE (France)	Support for Networks	
METAS (Switzerland)	PROJECT TYPE Joint Network Project (JNP)	
NIBSC (United Kingdom)	STATUS	
NPL (United Kingdom)	in progress	
PTB (Germany)	CALL	
UME (Turkey)	2018	
	DURATION 2019-2024	
OTHER PARTICIPANTS		

Coordination and support actions Funding of networking activities only

Universiteit Gent (Belgium)

JNP 18NET02: A workplan for the EMN

- WP1: Setting up a sustainable European metrology infrastructure for traceability in laboratory medicine self governance, Web portal, legal framework, stakeholder communication
- WP2: Strategy for a joint European response to the IVDR
 How to address the need for traceability, activities of NMIs, EQA provider,
 routine labs, IVD manufacturer, "demonstrator comparisons"
- WP3: Joint strategy for the prioritisation of clinical measurands and R&D needs
 - list of current priority clinical measurands, gap analysis, identification of R&D needs,
- WP4: Creating Impact

EMN TraceLabMed - Activities



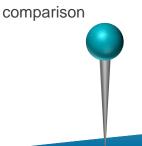
2021

- Workshops
- Surveys
- Consultations

2020

- Self-governance
- Stakeholder involvement
- Web portal beta version





Strategy plan: prioritisation

Second demonstrator

Roadmap for R&D activities



2022

First demonstrator comparison

2023

Web portal final version

- Metrology needs for future novel IVDs
- Final reporting

... EMN established to continue its efforts and services

EMN TraceLabMed – Kick off









































TRACE LAB MED 19 June 2019

11:30 - 12:30 Registration 12:30 - 13:30 Lunch

13:30 - 13:50 Opening, Rainer Stosch (PTB)

13:50 - 14:20 Elections

14:20 - 15:30 Workshop: Rules of Procedure

15:30 - 16:00 Coffee break

16:00 - 17:15 Workshop: Stakeholder Mapping

17:15 - 17:45 Summary & Closing

19:00 Dinner

20 June 2019

08:00 - 09:00 Registration 09:00 - 10:00 Introductory Talks

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EURAMET e.V., Bundesallee 100, 38116 Braunschweig, Germany Phone: +49 531 592 1960 E-mail: secretariat@euramet.org

www.euramet.org



Kick-Off Meeting

EMN Traceability in Laboratory Medicine

Joint Network Project



Physikalisch-Technische Bundesanstalt (PTB) Conference Centre, Bundesallee 100 Braunschweig, Germany



www.euramet.org/laboratory-medicine



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Stakeholder engagement

Knowledge and capacity to conduct large-scale demonstrator comparisons



- Studies on economic benefits are missing
 - > Strategic research agenda
- Missing data on national priority lists
 - Collection via the network
- IFCC: intensify communication with NMIs
 - > EMN for efficient communication
 - Establish EMN representative at IFCC C-TLM
- Promoting metrological traceability to regulators, patient organisations
- Plan to include the EMN on a webpage common to IFCC, JCTLM, BIPM, ...







Stakeholder engagement

Association of the German Diagnostics Industry Expert committee meeting at 26/11/2019



What are the benefits of metrology for IVD producers?





- Metrology does not have the highest priority
- Efforts towards standardization often appear unjustified "patient samples are too individual"





 If at all, advantages are seen in risk management and performance evaluation, comparisons could be helpful



 Recommendation to contact a medical society working in the field of a widepspread disease: How do they rate the importance of standardisation for diagnosis and treatment.



Stakeholder engagement

"We will not make progress with a performance based approach - the clinical relevance is what is most stics Industry important" meeting at 26/11/201



"IFFC is focused on the analytical aspects of laboratory medicine, they do not represent clinicians/physicians."

"There a two types of clinicians: those that have great faith in numbers and those that treat laboratory results as one of many factors. The first group benefits from applear unjustified standardisation the second group doesn't."



- If at all, advantages are seen in risk management and "All organisations that were present at your kick-off stand for analytics - they have objectives that are
- Recommendation to contact a med partly incompatible with those of manufacturers." of a widepspread disease: How do they rate the imporance trueness and standardisation for diagnosis and treatme









TraceLabMed@euramet.org

"We will not make progress with a performance based approach – the clinical relevance is what is most important"

"There a two types of clinicians: those that have great faith in numbers and those that treat laboratory results as one of many factors. The first group benefits from standardisation the second group doesn't."

"Nowadays, you can determine reference intervals, also by using existing data and you will get fantastic results - but clinicians do not judge on the basis of these values. At the end of the day, you are measuring an individual sample whose influence on the outcome can not be determined. The result is one indicator among many others. It is not justified to spend large sums for standardisation"

"All organisations that were present at your kick-off stand for analytics – they have objectives that are partly incompatible with those of manufacturers."

"Physicians judge based on an empirical threshold derived from the current clinical/medical experience – it is often not important if a biomarker is elevated 2-, 3- or 5- fold."

"Physicians/Clinicians require training to understand the concept of traceability."

"IFFC is focused on the analytical aspects of laboratory medicine, they do not represent clinicians/physicians."

"IFFC looks mainly after European belongings, US and other international interests are not covered very well."

Stakeholder Interaction



- Large scale demonstrator comparison
- Collaboration:
 - Other EQA providers
 - Members of the EMN





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Kick-Off Meeting

Kick-Off Meeting EMN Traceability in

Laboratory Medicine &

Joint Network Project 18NFT02



Physikalisch-Technische Bundesanstalt (PTB)
Conference Centre, Bundesallee 100
Braunschweig, Germany



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Stakeholder Interaction



- Manufacturers have other priorities
- Meeting with industry representatives: 26/11/2019





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Kick-Off Meeting

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&

Joint Network Project 18NET02



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Stakeholder Interaction



Accurate results for patient care

- Studies on economic benefits are missing
 - Strategic research agenda
- Missing data
 - Collection via the network
- Participation at the JCTLM stakeholder workshop 2&3 December 2019





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Stakeholder - IFCC



- Standardization groups for several measurands
- IFCC wants to intensify interactions with NMIs
 - > EMN for efficient communication
 - Idea / Plans to establish an EMN representative at IFCC C-TLM
- Participation of the EMN at the IFCC WorldLab Seoul 2020 meeting







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Stakeholder - BIPM



- Organization through which Member States act together on matters related to Metrology
- Improved communication is required (regular meetings attached to CCQM)
- Promoting metrological traceability to regulators, patient organisations
- Plan to include the EMN on a webpage common to IFCC, JCTLM, ICHLR, ILAC





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June 2019

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