

European Metrology Network for Safe and Sustainable Food

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The provision of safe, high-quality food is vital for human health, and innovation in the food sector will be needed to protect the environment, ensure sustainability, and respond to future needs. EURAMET, the association of National Metrology Institutes (NMI) in Europe, approved in May 2022 the European Metrology Network (EMN) for Safe and Sustainable Food (EMN-Food). This network will promote a harmonised approach to ensure traceability in food measurements, matrix reference materials and calibration standards. This will allow National Metrology Institutes (NMIs) and Designated Institutes (DIs) across Europe to respond to stakeholder needs with confidence and quality. Furthermore, the EMN Food aims to assess current capabilities within the network, transfer knowledge between network members, support provisional developments and create a research hub for food safety.

The support to new business opportunities and innovation in the food safety field will increase the competitiveness of the market, ensuring sustainability and reducing environmental impact. <https://www.euramet.org/european-metrology-networks/safe-and-sustainable-food>

European Context

Horizon Europe

Pillar II

Global Challenges and European Industrial Competitiveness.



Cluster 6: Food, Bioeconomy, Natural Resources, Agriculture and Environment.

The EMN-Food will contribute to the objectives of :

- European Green Deal
- Biodiversity Strategy 2030
- Farm to Fork Strategy
- European Climate Pact
- Sustainable Industry
- Long-term Vision for Rural Areas

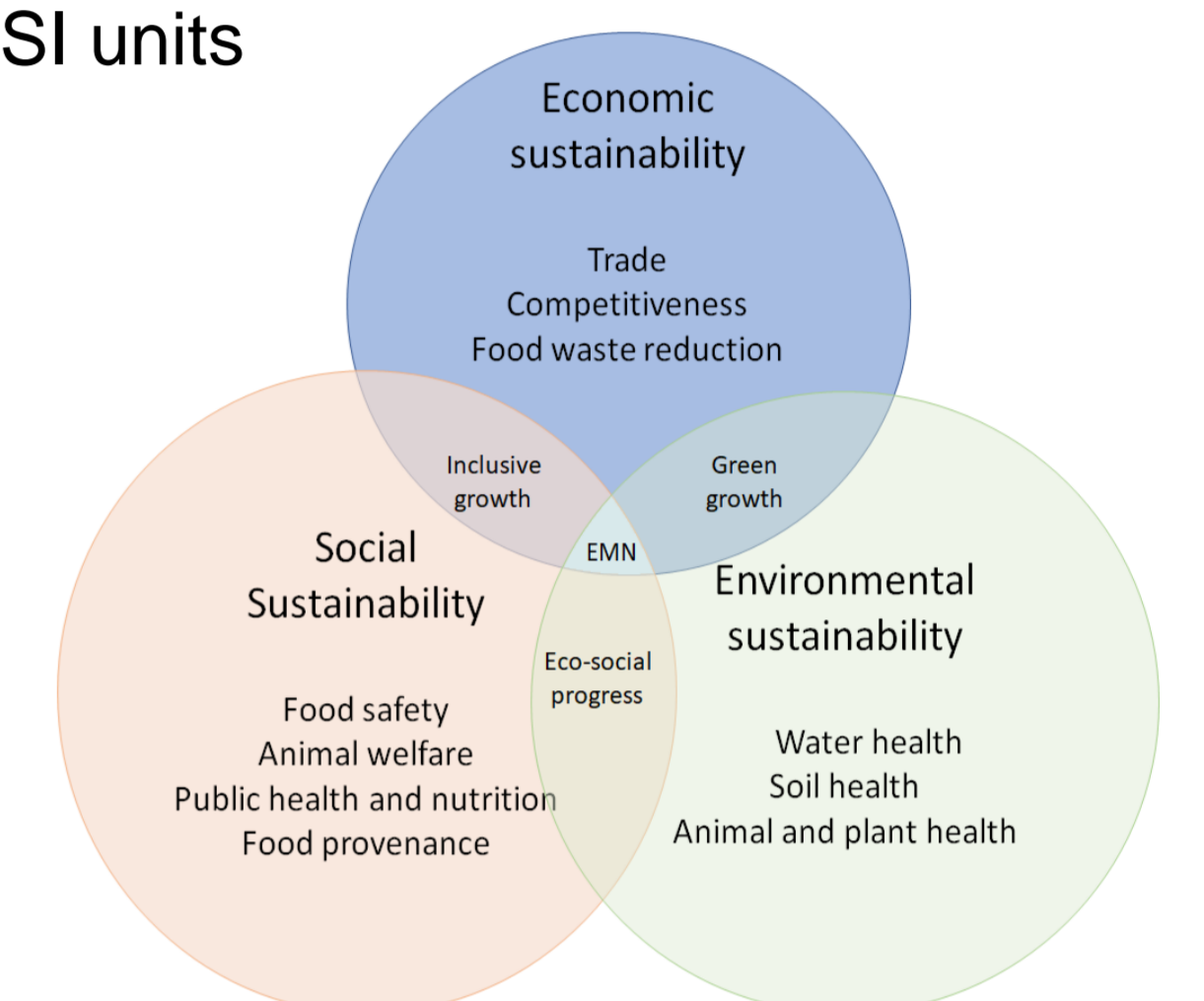


Needs

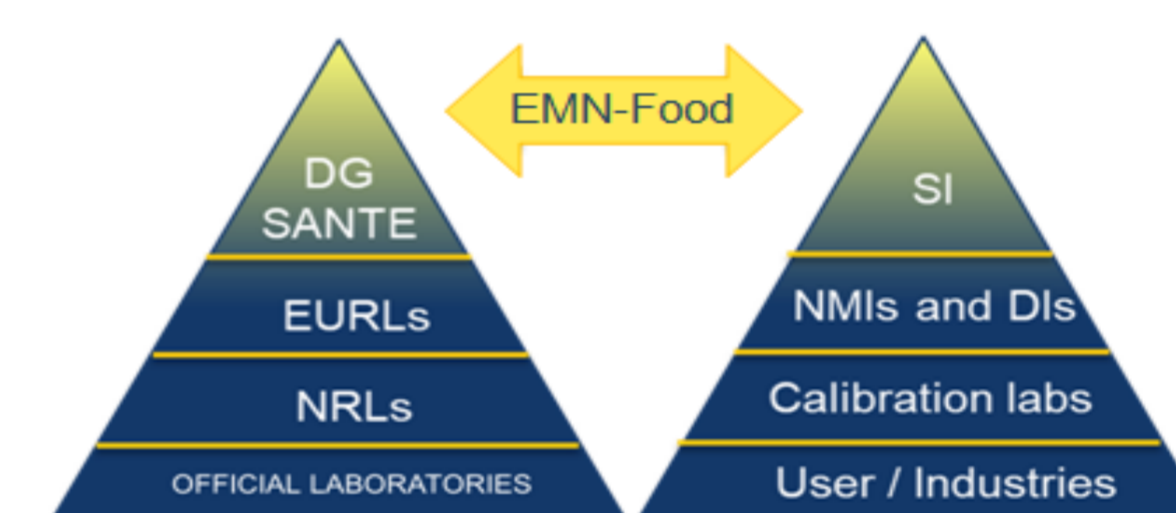
- Improve the EU food safety system along the food chain
- Support efforts in ensuring traceability to SI units of all food related measurements

Measurements of the highest order in:

- Agri-food
- Sustainable development
- Food provenance and authenticity
- Environmental safety
- Human health



Harmonization and standardization of food measurement results and support the legislation through metrological traceability



EMN structure

Pillar I



Metrological support for advanced analytical techniques for food safety from farm to fork

Pillar II



Promoting the development of metrologically traceable matrix reference materials for a sustainable food and feed system

Pillar III



Metrology-based solutions for a sustainable food system

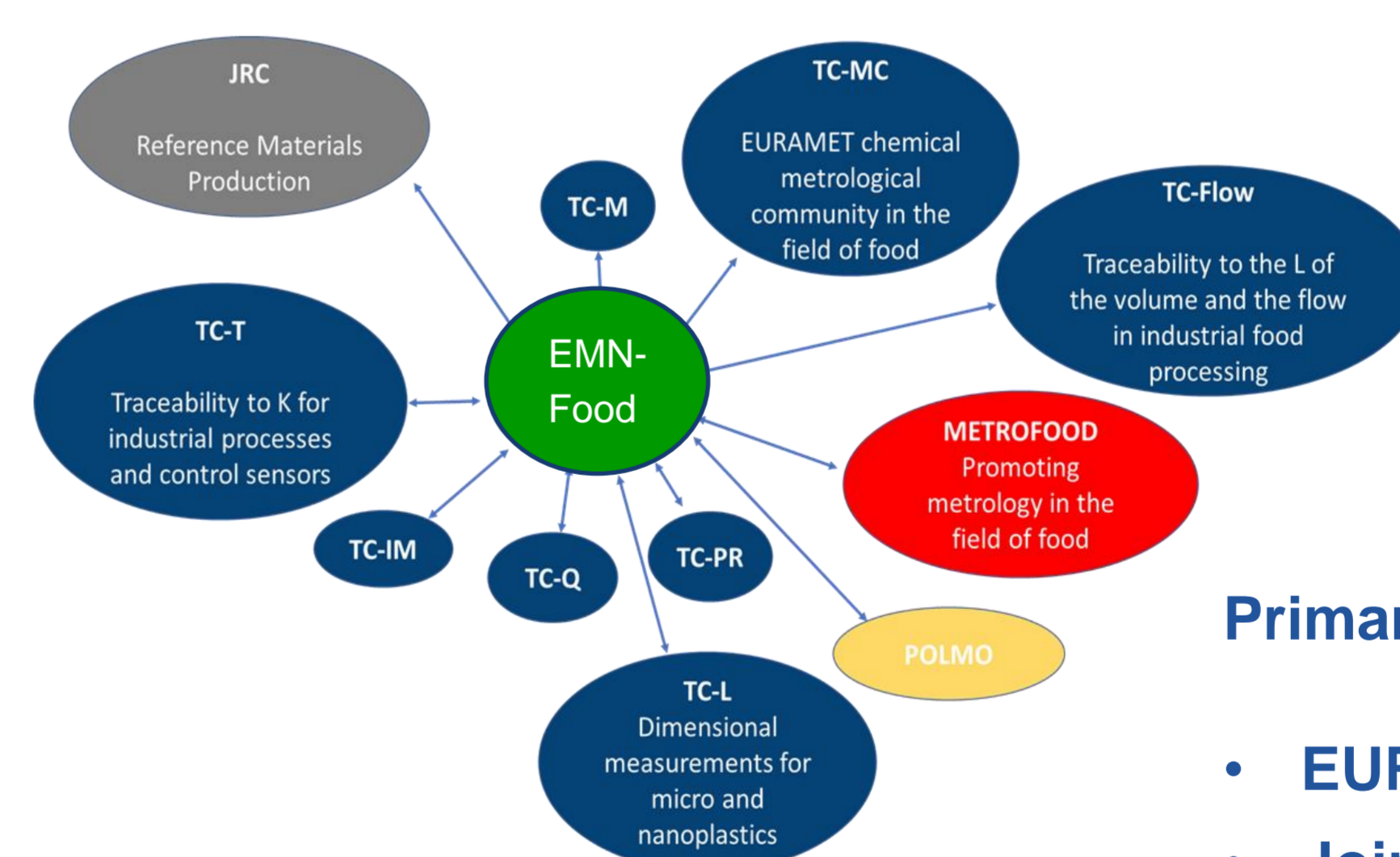
OBJECTIVES

- Alignment of metrology-driven challenges with stakeholder needs
- Involvement of stakeholders
- Systematic assimilation, exploitation and dissemination of research results from completed and on-going research projects within the network
- Support for the implementation of European policies

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Engagement with stakeholders

We aim to work in close cooperation with relevant stakeholders such as control bodies, regulatory bodies, reference laboratories, industry, standardization bodies, policymakers and society.



Primary stakeholders:

Impact on:

- Legislation
- EU Food Safety Policy
- Hygiene
- Animal health
- Plant health
- Contaminants and residues

- EURLs and NRLs
- Joint Research Centre (JRC)
- EURAMET's Technical committee of Metrology in Chemistry (TC-MC)
- METROFOOD
- Alert System for Food and Feed (RASFF)
- European Food Safety Authority (EFSA)
- EU Food Fraud Network

EMN-FOOD: ONE VOICE FOR EUROPE to drive METROLOGY in the field of FOOD SAFETY and SUSTAINABILITY