

A large, abstract graphic on the left side of the slide, composed of several overlapping blue shapes: a large circle, a smaller circle, and several curved segments, all in various shades of blue.

## **EMNs and the Next Programme**

**RPT webinar 12.12.18**

Duncan Jarvis → slides prep

Dagmar Auerbach → presenter

## Overall objective

The overall objective is to create sustainable structures in areas of strategic importance for the future of European metrology.

EMNs will:

- cover an area of major strategic importance, with **European dimension**;
- consist of a core network of NMIs/DIs with a **clear commitment** to contribute to the network;
- establish close links to a wider **stakeholder community**;
- strive for **scientific excellence**;
- plan the activities based on a **strategic agenda**;
- establish a **knowledge, technology transfer and promotion plan**;
- plan for **sustainable structures**;
- develop and coordinate **common infrastructure** if needed

# Type of networks



## Science

- Leadership and scientific excellence in a challenging field
- Increase visibility and acceptance in research community, reach critical mass
- **MATHMET and Quantum Technologies**



## Type of networks (2)



### Societal Challenges

- Single point of contact for metrology questions in covered field
- Links to relevant stakeholders
- Underpinning of **regulation and standards** through research, KT and services
- Sustainable infrastructures
- **Laboratory medicine, smart grids, energy gases; Climate...**

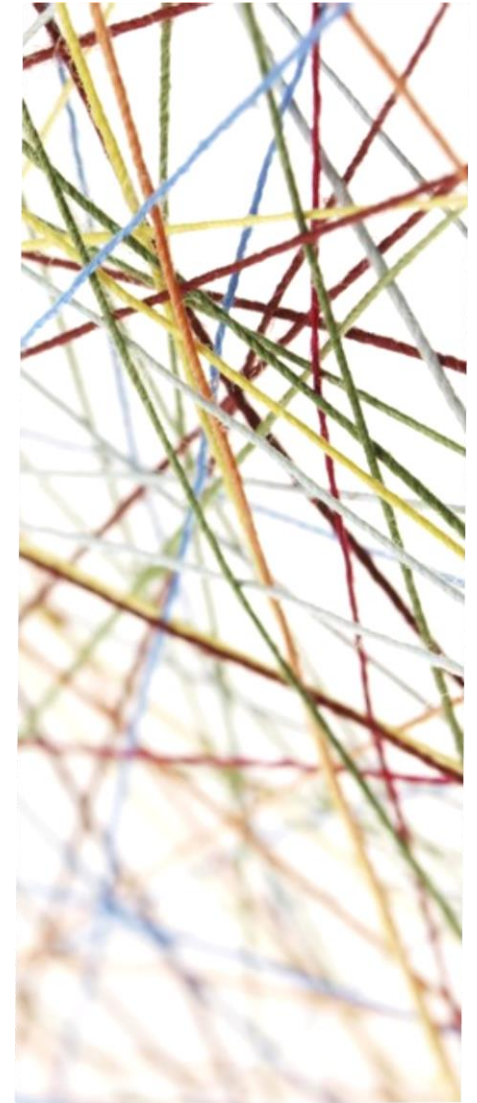


# Type of networks (3)

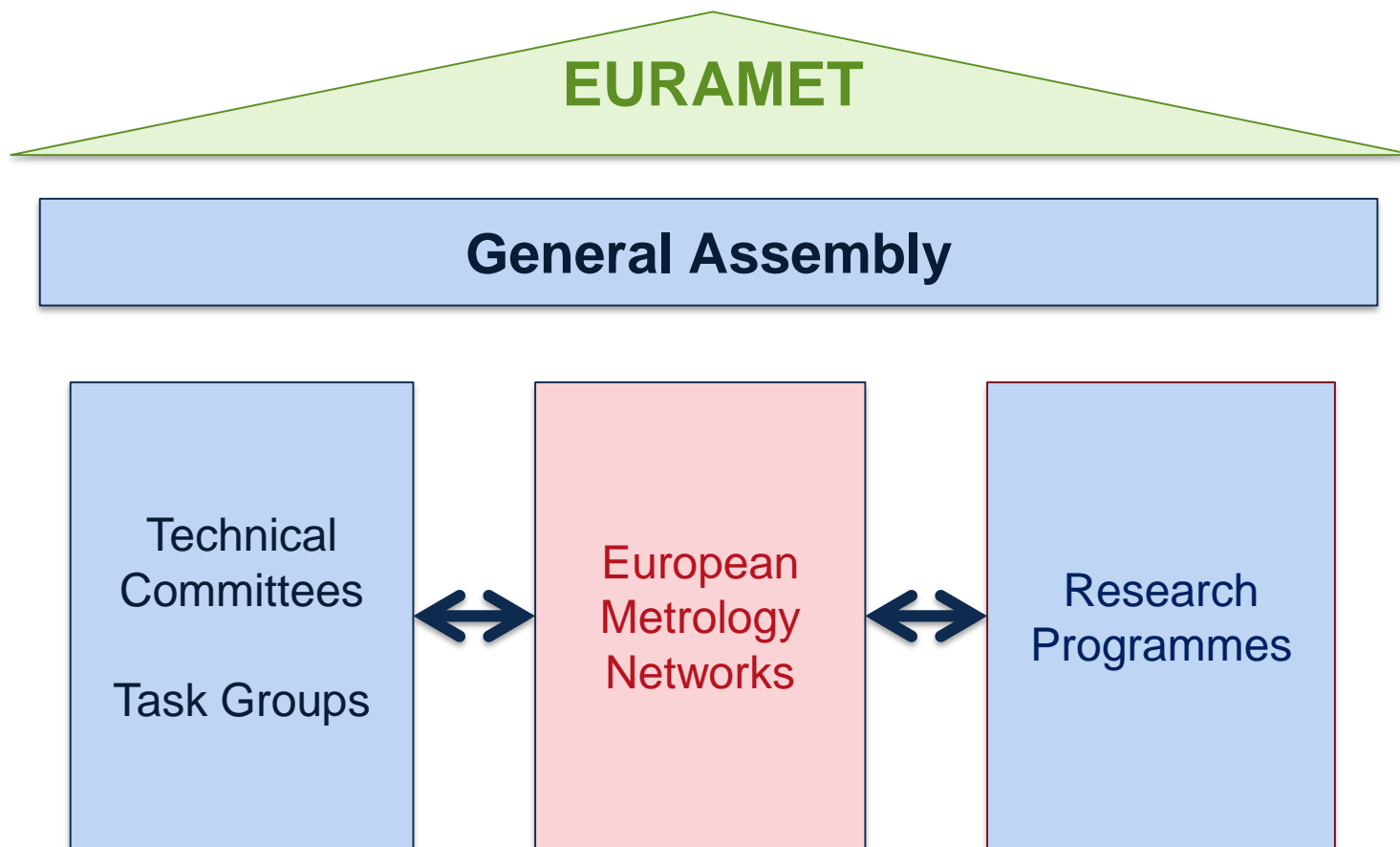


## Infrastructures and services

- Coordinated development of metrology infrastructure (in new fields): complementary development, avoiding unnecessary duplication
- Joint facilities
- Coordinated services and KT
- **Case study Smart specialisation,...**



# EMNs in EURAMET



New structural element  
described in EURAMET Rules of Procedure (RoP)

# First European Metrology Networks starting



- At the EURAMET GA in 2018 the first 6 “European Metrology Networks” (EMN) were approved.
- They are now in process of establishment

| No | Title                         | Champion               |
|----|-------------------------------|------------------------|
| 1  | Mathmet                       | Markus Bär (PTB)       |
| 2  | Quantum Technologies          | Ivo Degiovanni (INRIM) |
| 3  | Laboratory Medicine           | Rainer Stosch (PTB)    |
| 4  | Smart Electricity Grids       | Gert Rietveld (VSL)    |
| 5  | Energy Gases                  | Annarita Baldan (VSL)  |
| 6  | Climate and Ocean Observation | Emma Woolliams (NPL)   |



## JNPs selected



### Networks ranked list

|   |         |         |                 |
|---|---------|---------|-----------------|
| 1 | JNP-w05 | 18NET01 | Energy Gases    |
| 2 | JNP-w06 | 18NET02 | TraceLabMed     |
| 3 | JNP-w03 | 18NET03 | SEG-Net         |
| 4 | JNP-w02 | 18NET04 | ForClimateOcean |
| 5 | JNP-w01 | 18NET05 | MATHMET         |
| 6 | JNP-w04 |         | SupEMN-Q        |



# Other EMNs under development



- Champions have also been appointed to promote the development of further EMNs. These include:

| No | Title  | Chair                        |
|----|--|------------------------------|
|    | Food Safety                                  | Andrea Mario Rossi (INRiM)   |
|    | Nordic Smart Specialisation                  | Jan Johansson (SP)           |
|    | Nano   | Georges Favre (LNE)          |
|    | Advanced Therapeutics and Precision Medicine | Helen Parkes (LGC)           |
|    | Optical fibre networks for T&F dissemination | Philip Tuckey (ObsParis)     |
|    | Metrology for geodesy and surveying          | Jean-Pierre Wallerand (CNAM) |
|    | Digitalisation                               | Sascha Eichstätt (PTB)       |
|    | Ionising Radiation Effect                    | Hans Rabus (PTB)             |
|    | Reliable radiation protection metrology      | Annette Röttger              |

Questions?

