



EUROPEAN MEDICINES AGENCY  
SCIENCE MEDICINES HEALTH

## 4. Quality Innovation Group

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2023 achievements and plans for 2024

**Industry standing group meeting – 23 November 2024**

Evdokia Korakianiti & Dolores Hernan





# Overview

Innovation strategic priority for EU

Quality Innovation group (QIG)

2023 QIG activities

QIG and FDA collaboration



Patients in EU and globally expect that medicines are available and are of the best possible quality.

## EU strategies on Innovation



## Pharmaceutical Strategy for Europe



...aims at creating a *future proof regulatory framework and at supporting industry in promoting research and technologies that actually reach **patients** in order to fulfil their **therapeutic needs** while addressing market failures*



English 

Home > Live, work, travel in the EU > Public Health > Medicinal products >

Medicinal products

  All topics Medicinal products

### A pharmaceutical strategy for Europe

Adopted on 25 November 2020, the [Pharmaceutical Strategy for Europe \(reader-friendly version\)](#)   aims at creating a future proof regulatory framework and at supporting industry in promoting research and technologies that actually reach patients in order to fulfil their therapeutic needs while addressing market failures. It will also take into account the weaknesses exposed by the coronavirus pandemic and take appropriate actions to strengthen the system.

[https://health.ec.europa.eu/medicinal-products/pharmaceutical-strategy-europe\\_en#next-steps](https://health.ec.europa.eu/medicinal-products/pharmaceutical-strategy-europe_en#next-steps)

- ❖ Access (affordability & unmet medical need)
- ❖ Competitiveness, innovation, sustainability
- ❖ Crisis preparedness & response
- ❖ EU voice

### Digitalisation & innovation:

- ✓ **emerging new manufacturing methods**
- ✓ master files
- ✓ personalised medicines & platform approaches
- ✓ Variations & lifecycle management

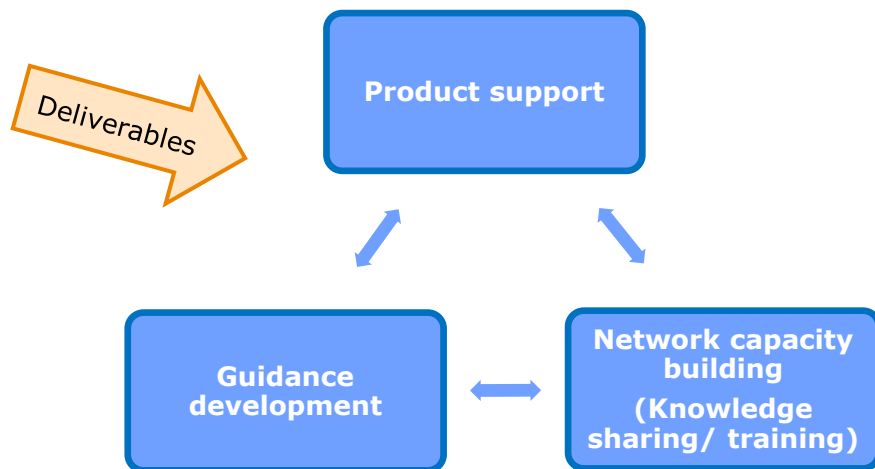
## EMRN priority areas in innovation

✓ Novel manufacturing including digitalisation in manufacturing

- ✓ Advanced therapies
- ✓ Novel materials (inc. nano)

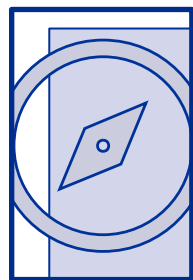
### Benefits:

- Better understanding and control of manufacturing processes
- Faster scale-up/out
- ✓ Better quality medicines for patients
- ✓ More robust supply chains, strengthening medicines availability

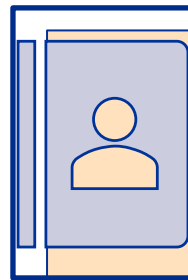




# The 3 pillars of a regulatory framework that supports innovation



**Flexible framework** adapted to  
current state of science

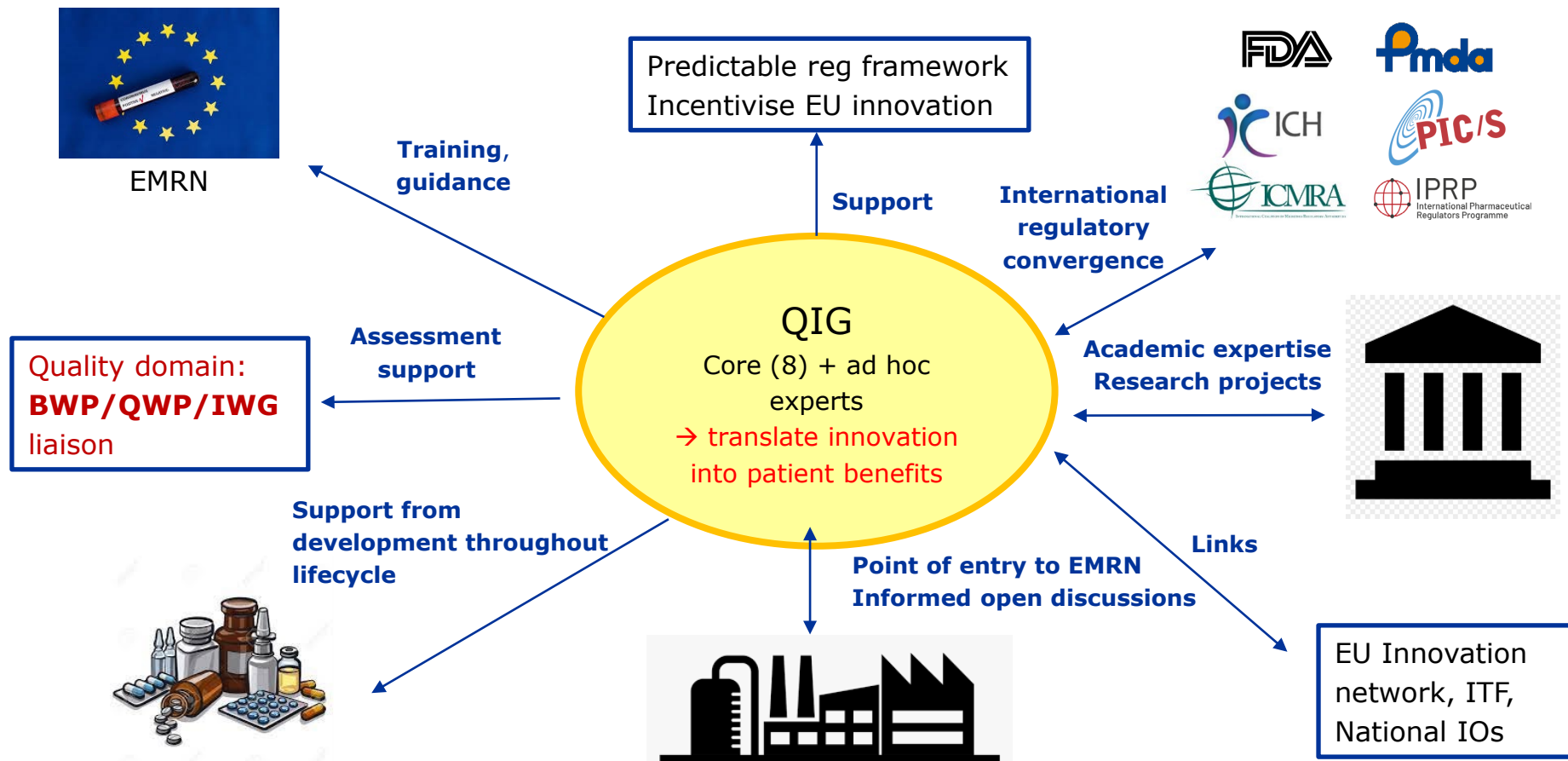


**Predictability – clarity on  
regulatory expectations**

**Single contact** that follows through  
product development, IMP, approval  
and major related lifecycle changes



**Globally harmonisation**

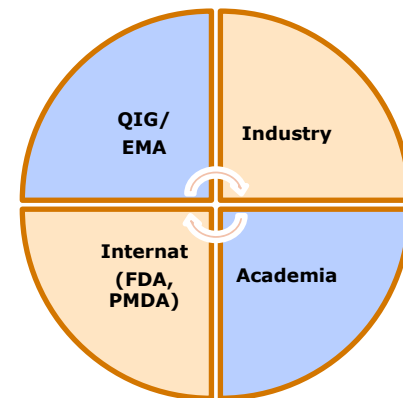
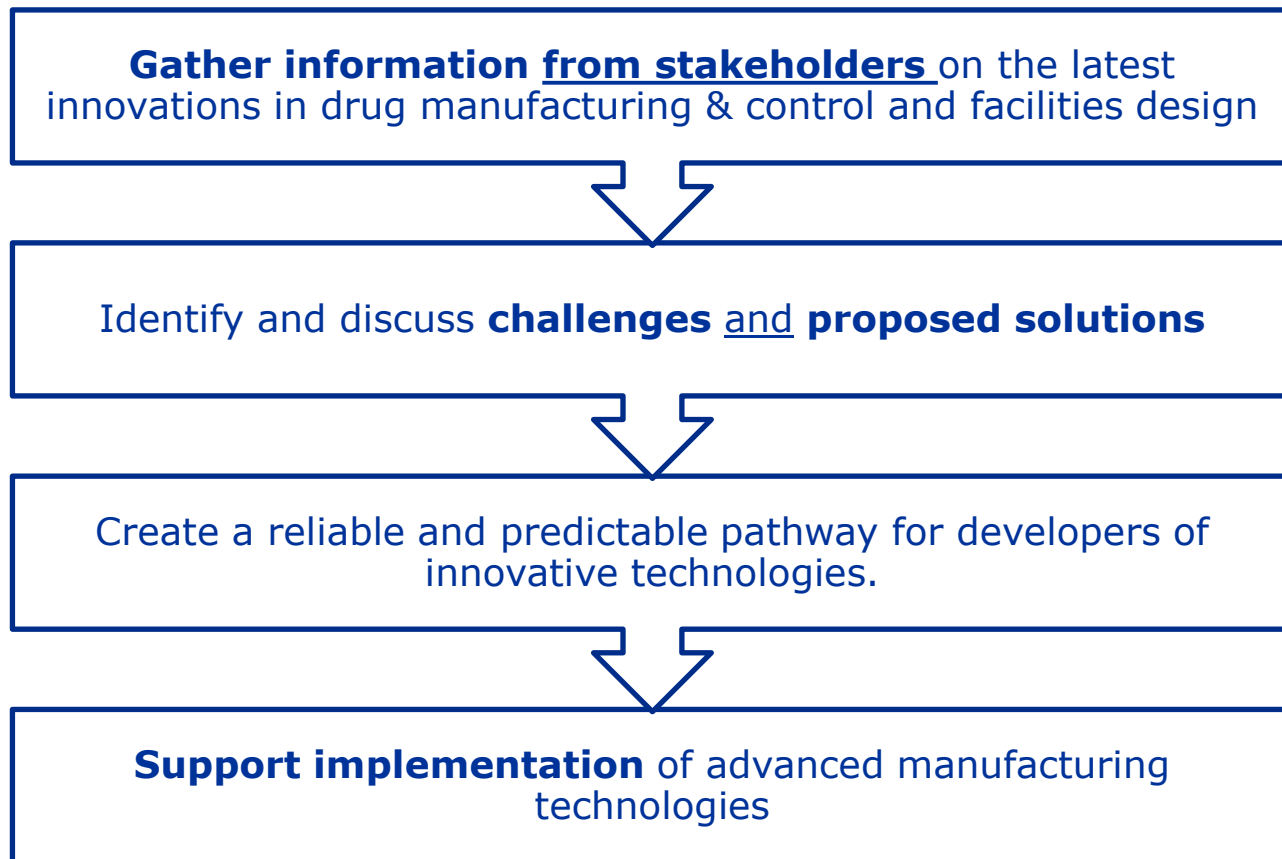


## 2023 priority topics

- Continuous Manufacturing for Biologicals, E2E
- Decentralised manufacture
- Digitalisation/automation
- Other (feedback from Industry)

[2023 work plan for the Quality Innovation Group \(QIG\)](#)  
[- Consolidated workplan \(europa.eu\)](#)





## Topics

1. Continuous manufacturing
2. Decentralized manufacturing

## Challenges

- Regulatory expectations for **process models** (dossier vs PQS, lifecycle)
- Comparability of products from different DM sites
  - Control of variability of starting material (e.g. patient-derived starting material)?
    - Registration and maintenance of DM sites in dossiers?
- Qualified Person oversight

## Deliverables & Follow-up

[Meeting report](#)

Development of Q&A on process models (on-going)

Internal reflections on DM (on-going)

Follow-up 1:1 mtgs

## Topics

3. Digital novel technologies to manufacturing and QC testing

## Challenges

- Lack of clear AI definition
- Uncertainty of regulatory acceptance of models
- Uncertainty on regulatory requirements for process models
- Expectations for AI/ML models

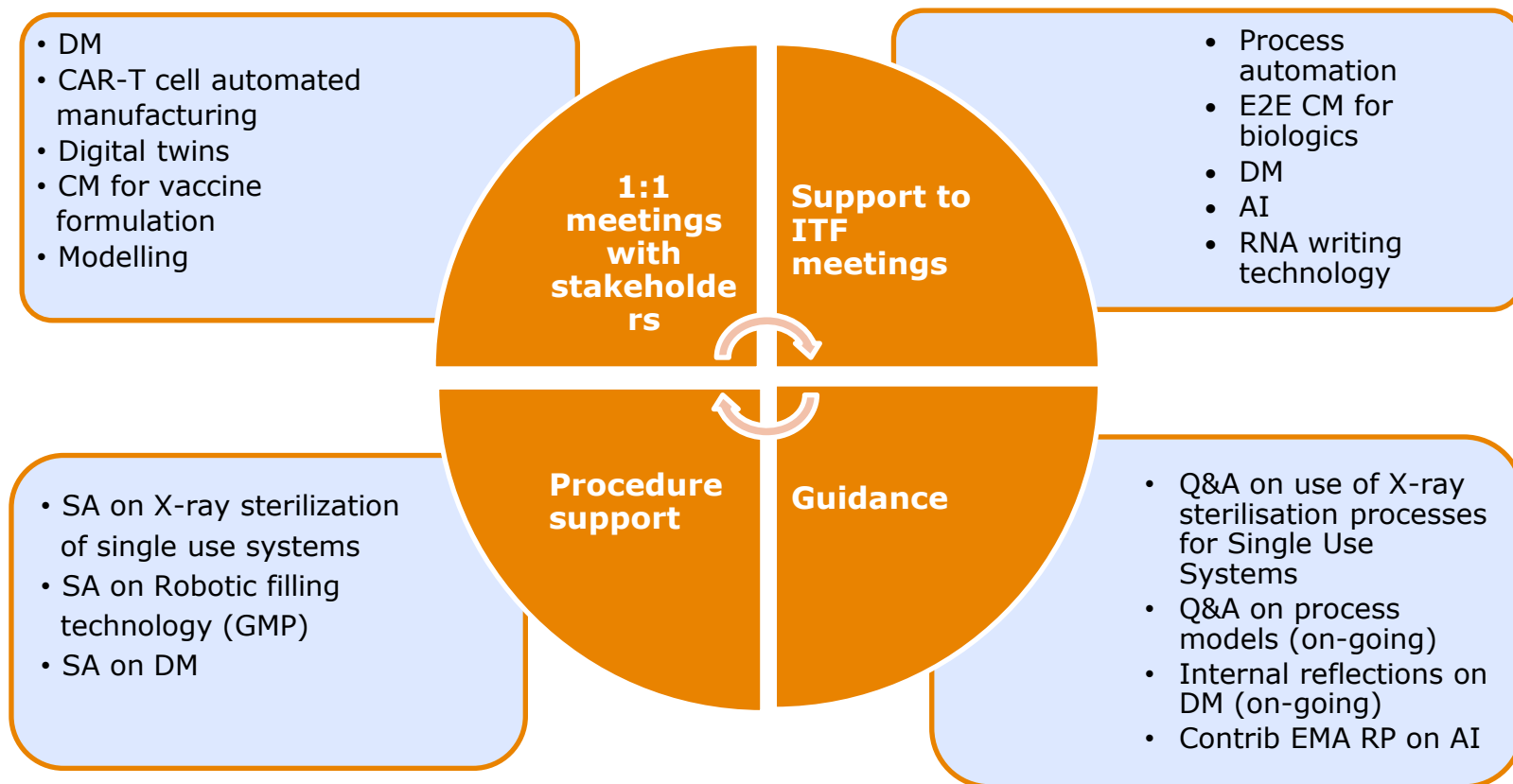
## Deliverables & Follow-up

Meeting report (in preparation)

Development of Q&A on process models (on-going)

Revision of EU GMP Annex 11 (AI/ML)

Follow-up 1:1 mtgs



To meet representatives from CDER and CBER to:

- ✓ **exchange experience and current thinking** on scientific and regulatory aspects of advanced manufacturing (AM) e.g. models, DM, AI;
- ✓ explore avenues for **closer collaboration** in this area and **support international harmonization**



# Areas for collaboration in advanced manufacturing

## Knowledge sharing

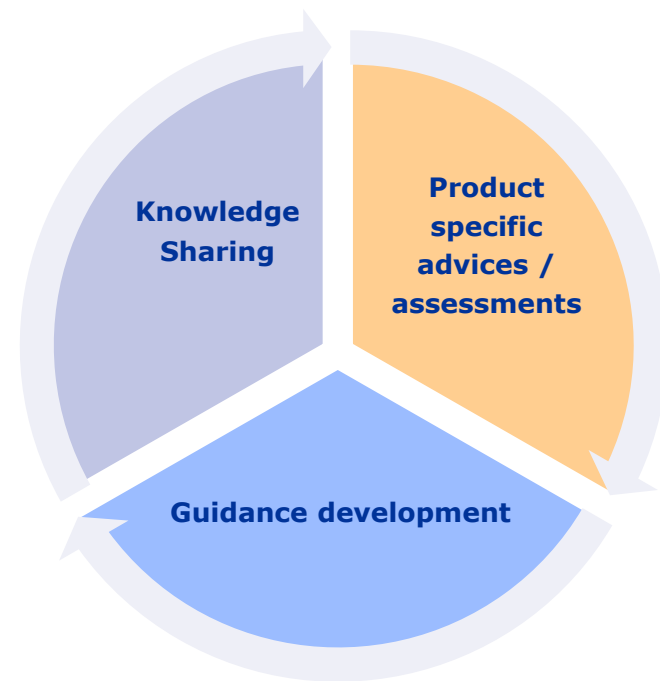
- Sharing learnings from workshops, company meetings
- Attending workshops and LLFGs
- Staff/ expert exchanges

## Product specific advices / assessments

- Consultative / parallel scientific advices /collaborative assessments leading to harmonized outcomes (where possible)
- Joint (hybrid) site visits / inspections

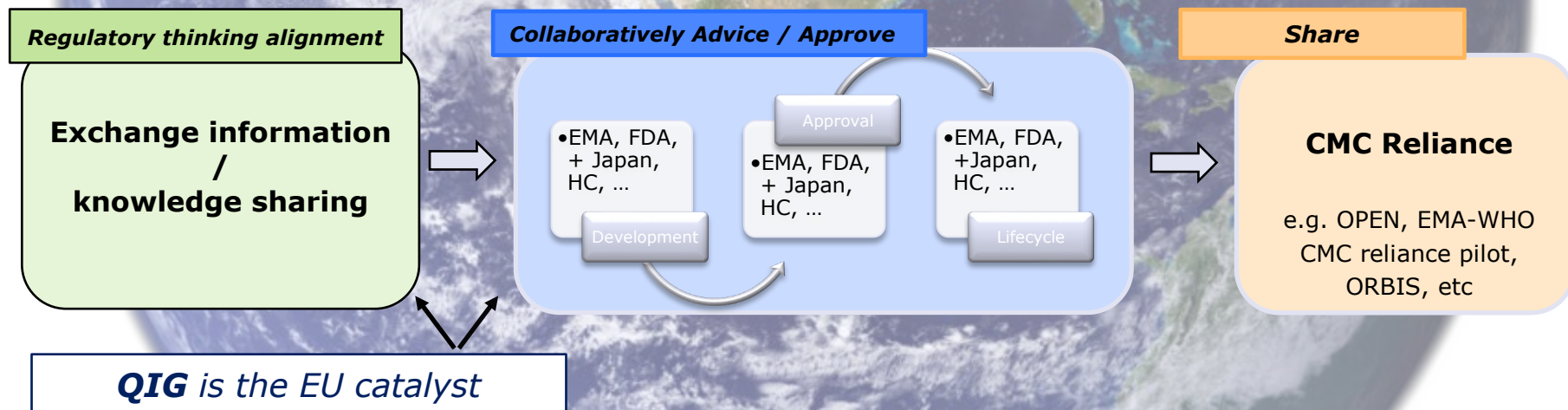
## Guidance development

- Exchanging priorities, agreeing on topics of common interest
- Aligned or joined guidance and Q&As, joint proposals to ICH



## Align/ Advice / Approve collaboratively and share

- Exchange information; knowledge sharing; regulatory thinking alignment
- Use collaborative ICMRA pathways (incl Insp) for consultative advices and approval (either in the initial MAA or as a variation)
- Then Build on existing regional initiatives like ORBIS, OPEN, EMA-WHO CMC reliance pilot to allow other Regulators to onboard this journey and facilitate approvals in different regions so more patients can benefit





- ❑ Continue stakeholder support on advanced manufacturing through existing channels e.g. SA (EU only or joint with FDA), QIG 1:1 or ITF meetings, LLFG meetings
- ❑ Continue work on 2023 priority topics and monitor progress in other areas
- ❑ Close collaboration with FDA on topics of mutual interest, considering joint SA, MAA reviews, guidance when relevant
- ❑ Continue collaboration with industry interested parties and academia



*Let's continue the collaboration to foster (quality)  
innovation for patients' medicines access*

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[Quality Innovation Group | European Medicines Agency \(europa.eu\)](https://www.europa.eu)



## **QIG members**

See composition session of:

[Quality Innovation Group |  
European Medicines Agency  
\(europa.eu\)](https://european-council.europa.eu/media/en/press-communications/infographic/Pages/infographic-qig-membership-2022-2023.aspx)

## **EMA**

Inspection office

Pharmaceutical quality office



# Any questions?

## Further information

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