

Pandemic management through indoor pathogen transmission suppression

EU innovation funding & technology mapping

WHO Europe Indoor Air Conference, Bern

20/09/2023

### Outline

- 1) Introduction HERA
- 2) Innovation funding: EIC Accelerator Challenge
- 3) Foresight project on indoor pathogen transmission suppression

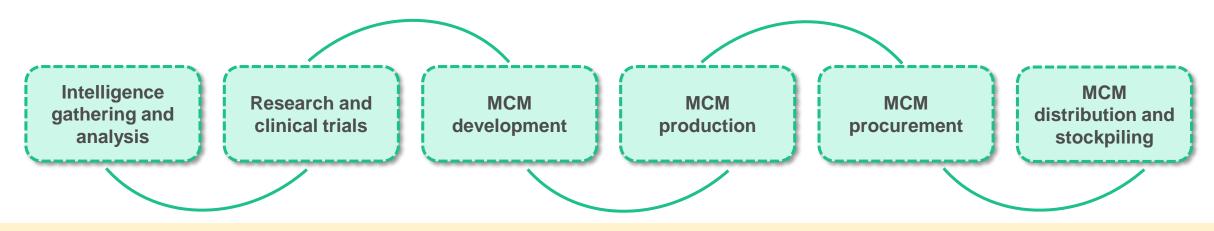


#### 1) Introduction HERA

- When? Created on 16 September 2021
- Budget: EUR 6 billion over 2022-2027
- Mission: strengthening Europe's ability to prevent, detect, and rapidly respond to cross-border health emergencies, by ensuring the availability of and access to key medical countermeasures (MCM) by looking at the whole value chain

= medicines, medical devices, other goods or services that are aimed at combating serious cross-border threats to health





**CROSS-SECTOR, MULTI-ACTOR AND INTERNATIONAL COLLABORATION** 

## 1) 2023 HERA innovation actions

R&D budget: ca. EUR 560m

#### Early-stage research

- Broad spectrum anti-viral therapeutics for infectious diseases with epidemic potential: EUR 50 m
- Immunogenicity of viral proteins of viruses with epidemic and pandemic potential: EUR 50 m
- In vitro diagnostic devices to tackle cross-border health threats: EUR 40 m
- Understanding vaccine-induced immunity: EUR 20 m
- European and Developing Countries Clinical Trials Partnership (EDCTP3): EUR 40 m

#### Contribution to CEPI (EUR 70 m)

#### Late-stage development

- Speed up MCM development: EUR 82 m
  - Point-of care metagenomic sequencing
  - Broad-spectrum antivirals
  - ✤ AMR vaccines
  - EIC Accelerator Challenge: EUR 65m
    - **UV-C** irradiation systems
    - Pathogen capture/ventilation systems
    - Next-generation face masks
- Innovative Health Initiative (IHI): EUR 30mn

#### HERA Invest (EUR 100 m)



### 2) Funding opportunity: 2023 EIC Accelerator

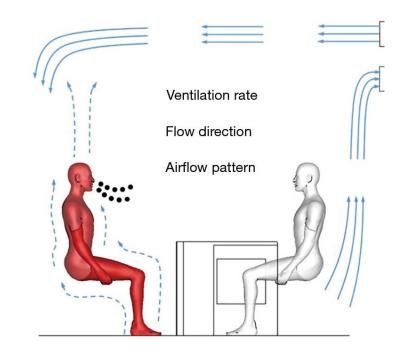
 Development and commercialization of aerosol and surface decontamination solutions

 Pandemic management: evidence that intervention can avoid or reduce social distancing

Applicants: SMEs established in EU (or Horizon Europe associated countries)\*

♦ Total funding: €65 million

- ♦ Up to €2.5m in grants and up to €15m in equity
- Final deadline: 19 October 2023



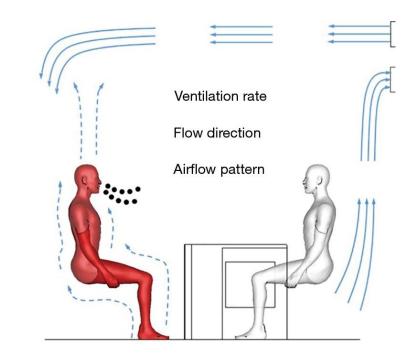


### 2) Funding opportunity: 2023 EIC Accelerator

Supports solutions in three areas:

- Full systems for aerosol capture, pathogen deactivation and air circulation management
- Rapid surface decontamination devices (UV-C irradiation systems, biocidal agent dispersion)
- Next-generation face mask technologies

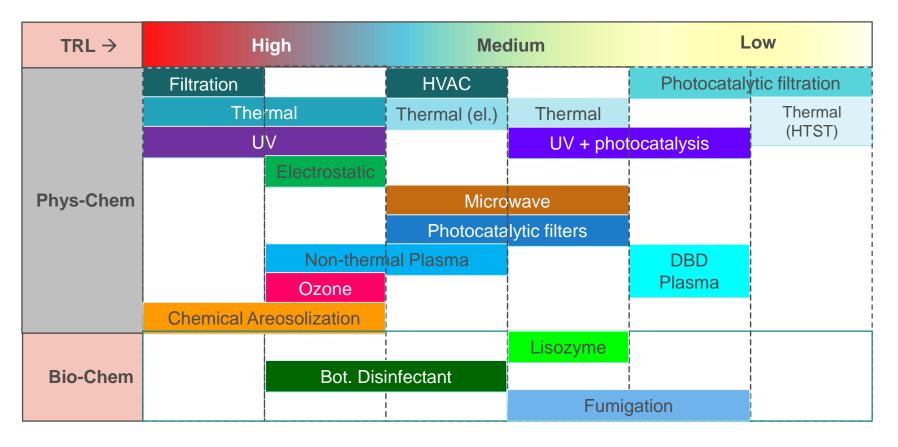
Potential to integrate pathogen profiling sensors for quasi-real-time information





### 3) JRC – HERA Foresight project

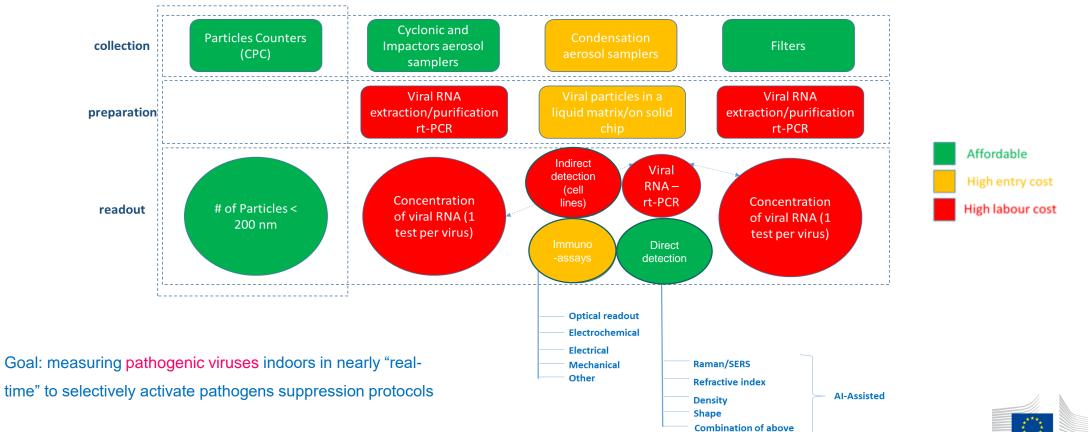
#### **Technology mapping: elimination**





### 3) JRC – HERA Foresight project

#### **Technology** mapping: detection



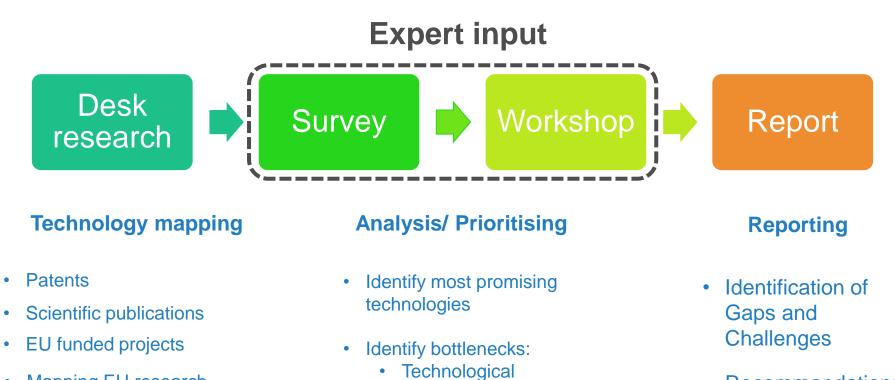
European Commission

### 3) JRC – HERA Foresight project

Mapping EU research

ries

infrastructure/laborato



- Societal/regulatory ٠

Recommendations 



### 3) Call for external experts

- Expression of interest:
  - Online expert survey
  - Workshop: Friday, November 10 2023, Brussels
- Email to: <u>hera-02@ec.europa.eu</u>
  - Indicating interest in participation in survey or workshop
  - Short info on relevant background/experience



# Thank you



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