

PANDEM-2 Operational Strategy

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PANDEM-2
PANDEMIC PREPAREDNESS AND RESPONSE

PANDEM-2 Project and Operational Strategy

Overall Project Aim: Enable EU member states to better prepare for future pandemics through innovations in IT and training

Operational strategy development (UoG, RKI, CARR, UCL)

- Work with EU agencies, WHO and with all stakeholder partners to define how the technical PANDEM-2 outputs **will be used in practice**
- Particularly **in terms of cross-border collaboration** and sharing of data, and the **integration of national data sources** with more local information
- **Strategic perspective on integration of PANDEM-2 outputs into the activities** across all EU 27 Member States

Target group: National Public Health Agencies

What we approached:

IT Solutions

- **PANDEM-Source**
- **Dashboard**
- Social Media Analysis tool
(**SMA**)
- **Integrated Epidemiological
& Hospital Resource
Modelling Tool**

Trainings

- Communication with media
and public
- **Simulation exercises
(SimEx)** to test PANDEM-2
solutions and preparedness
and response

Tools

- **Media Training Toolkit**
- **Communication Toolbox**
- **Workforce capacity
mapping tool**

How we used it:

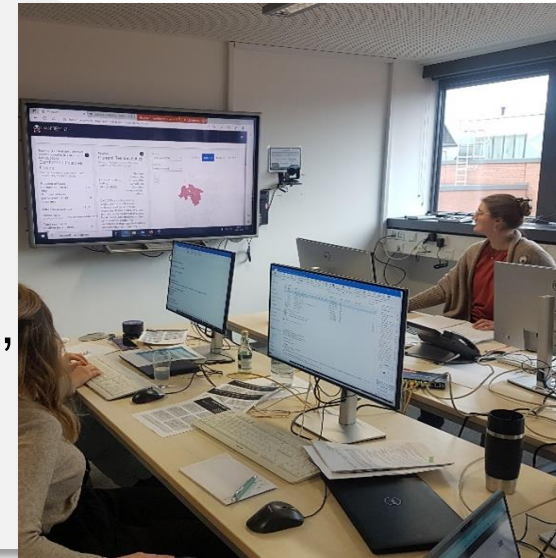
Trainings on communication (CARR)

- For public health partners
- Practical guidelines (e.g. Media Training Toolkit, Communication Toolbox)

SimEx for training preparedness and response

by using PANDEM-2 solutions

- **1 discussion-based:** tested Communication Toolbox
- **1 operations-based:** tested Dashboard incl.
 - SMA tool,
 - Integrated Epidemiological & Resource Modelling Tool,
 - PANDEM-Source,
 - Communication Toolbox



Possible use of trainings & tools for future pandemics (1)

Dashboard

- Adaptable part of **IT training platform** (compatible with different data sets)
- Part of **digital surveillance platform** (to enhance early threat detection and assessment)
- Efficient, automated IT solution for countries with low investments in infrastructure, multi-lingual approach
- **Strengthen contact tracing aspect** – import data from systems like Go.Data

PANDEM-Source

- integrate data from **various rapid alert and information systems** (all hazards approach) into one platform
- Can offer interoperability between information systems in **health** and **veterinary sector** (One Health)
- Integrate **socioeconomic indicators** for whole of society approach

Possible use of trainings & tools for future pandemics (2)

SMA Tool

Use in national public health agencies

- Runs on European servers and compliant with national data protection regulations
- Media monitoring, **fight against misinformation** (e.g. vaccine hesitancy)
- Can analyze text content in six languages – aiming to include all EU languages

Integrated Epi- & Ressource Modelling Tools

- **Support preparedness training** (e.g. shows impact of countermeasures on cases, resources, hospitalisations & deaths)
- Models could be extended with other methods (**all hazards approach** & impact on regular health services, microsimulation on **regional level**)
- Technical framework for **integrating modelling with pandemic planning** and response activities

Possible use of trainings & tools for future pandemics (3)

SimEx

Material for conducting SimEx on a regular basis at national level

- For **joint cross-border training** (extend use of ECDC EWRS SimEx Platform)
- Flexible/easily adaptable **stress tests** and training
- Different **exercise goals** (e.g. cross-border ventilator sharing, operable beds, One Health)
- Hospital modelling tool as decision support tool during training
- Reuse of synthetic data for training purposes

Workforce capacity mapping tool

Could be implemented in all EU MS

- for National Public Health Agencies (adaptable to their mandate)
- May also be used at subnational level
- Support the **mapping of existing workforce** and forecast MS workforce needs in the EU (quantifies surge capacity)
- Potential contribution to on-going work in EU4Health Initiative

Possible use of trainings & tools for future pandemics (4)

Communication Toolbox

Proposed dissemination to member states

- For improving **risk communication** capacities to health professionals and to the public (e.g to debunk **misinformation**)
- **Adaptable** to member states' needs

Media Training Toolkit

- **Complement other media preparation sources** on how to build and maintain public **trust**
- Potential use within future European research projects

Operational Strategy development (UoG, RKI, CARR, UCL)

Discussion:

- How can the PANDEM-2 solutions be used to support future pandemic preparedness and response activities by MS and EU agencies?
- How do the PANDEM-2 solutions address priorities in research and training?

- Dashboard
 - **PANDEM-Source**
 - Social media analysis (**SMA**) tool
 - Integrated Epidemiological & Hospital Resource **Modelling Tool**
 - **Synthetic data**
- **Workforce capacity** mapping tool
- **Simulation exercises**
- **Communication Toolbox** and **Media Training Toolkit**



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Thank you

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