Update activities InfAct

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InfAct and COVID-19

- Partners at the core of the Covid-19 response teams have indicated a strong need to structurally exchange between countries.
- InfAct facilitates exchanges between partners and with international organizations
- How?
  - Rapid exchange with InfAct connecting experts and expertise
  - Two weekly meetings with specific questions
  - Storage of relevant information
InfAct and COVID-19

- What?
  - Exchange and provide overview of ongoing or planned Covid-19 studies
    - What data should be collected to analysis impact COVID-19 on with NCDs?
  - Exchange relevant regional, national and international data sources
    - Which data sources are available at sub-regional level?
  - Discuss and exchange on latest developments, recently validated tools, approaches, standard operating procedures, protocols and guidelines
    - How are you counting COVID-19 deaths in your country and who is being tested?
    - How are you carrying out contact tracing in your country?
  - Exchange policy and impact measures
    - Measure/guidelines about re-opening of schools and data indicating the consequences of the re-opening?
    - How are hospital visits and visits to LTCF organized in your country?
    - Impact on mental health through health surveys.
Conclusions

1. Many questions remain unanswered by existing institutions. Data gaps are persistent.
2. Partners are looking for mechanisms for structured exchange.
3. InfAct build up trust between the partners to share and exchange. InfAct provided a safe space.

The need for a Research Infrastructure on population health is also reflected during the COVID-19 crisis for which DIPOH can provide the basis.
Distributed Infrastructure on Population Health (DIPoH)
Bottom up approach building on 2 consortiums:

   - 31 partners in 16 countries representing 14 population health research networks in 9 population health research domains.
   - Concluded there is need for a Research Infrastructure (RI) on population health research

2. **InfAct** Joint Action (2018-2021)
   - 40 partners from 28 EU countries: 20 public health or research institutes, 13 ministries, 3 universities and 4 others
   - Providing proof of concept by piloting RI elements
Aim: facilitate the identification, access, assessment, and reuse of population health and information data across Europe

The concept of DIPOH

- Connect networks and stakeholders
- Enable top level research (linked data, access systems, processes and capabilities, …)
- Policy change
- Practice change
- Technology change

Improved health and other outcomes

Achievement of outcomes at lower costs
This project is funded by the Health Programme of the European Union.

### Framework of Population Health Information

#### Health Status
How healthy are citizens, what are their health needs and healthcare utilisation options?

- Disease states
- Functioning and Quality of Life
- Healthy Life Expectancy
- Mortality by cause, sex and age

#### Determinants of Health
What are the factors that determine the health of a population?

- Health Behaviour
- Personal Risks and Resources
- Socio-Economic factors (participation, financial safety)
- Physical Environment

#### Health Care System
How does the health system perform? What is the level of care across the range of patient needs? What does this performance cost? How is prevention implemented?

- Expenditure
- Input (personnel, infrastructure, technology)
- Accessibility
- Utilisation
- Quality, Effectiveness, Safety
Uniqueness

- Covers the population as a whole (healthy and non healthy)
- Focus on non communicable chronic diseases
- Comprehensive view on health data: population health (administrative data, vital statistics, health surveys, longitudinal studies) and health care (e-health records, hospitalisations)
- Facilitate secondary use of routine data sources
- Include individual and aggregated level data
- Does not include experimental research
- Boost national population health research

This project is funded by the Health Programme of the European Union
1. One-stop shop for EU health information research
   Find the data, expert, network, guidelines or tool you are looking for

2. Innovative research in health information
   Be the first to know and use the latest developments and methodologies

3. Capacity building in health information
   Get expert support and training on collection, analysis, reporting and transformation

4. Knowledge translation research for evidence-based decision-making
   Know your (health) policies are based on proper evidence
Population Health Information Research Infrastructure (PHIRI) for COVID-19
Population Health Information Research Infrastructure (PHIRI) which facilitates
- the identification, access, assessment and reuse for research,
- population health and non-health data in MSs and across MSs
- that can underpin public health policy decisions relevant to Covid-19.

What?
1. A one-stop shop platform with FAIR catalogues
2. Provide tools for population health research for Covid-19
3. Providing overview of capacity building and training
4. Assisting the health research community in knowledge translation
Main focus: platform with FAIR catalogues

- Build FAIR catalogue with metadata repository on population health information with information on their accessibility
- Facilitate real-time data exchange and data requests: securely make available federated data sets and variables in countries to monitor population health with controlled access policies
- Allow tools for analysis and queries searches
- Provide overview of studies and trainings in population health and contact points in countries
- Provide overview of policy and impact measures
Added value for MS

- Easily findable data and information needed for research and to underpin policy decisions
- Facilitate exchange and access data
- Helping to cope with multitude of research and evidence
- Rapid response to research and policy questions
- Access to a network of Covid-19 health information experts to retrieve information from and feed international agreed standards to
- Quick wins by identifying good practices in countries and exchanging approaches between countries such as sharing key indicators, protocols and tools to monitor the wider effects of Covid-19 pandemic
- Overview of available training materials and training staff
- Pragmatic support to countries in preparing for potential upcoming Covid-19 waves or other epidemics
Interaction with existing organisations, platforms and initiatives
This project is funded by the Health Programme of the European Union.

- **InfAct**

- **HealthyCloud: Health Research and Innovation Cloud**

- **EGI-ACE**

- **TEHDAS: European Health Data Space**
This project is funded by the Health Programme of the European Union.
Added value PHIRI

Population dynamics of human and virus: public health and societal impact

Population dynamics

- Health Status
  - Disease states (risk factors)
  - Quality of life
  - Burden of disease
  - Vital statistics
  - Epidemiological data

Determinants of Health

- Health behaviours
- Personal risks and resources
- Socio economic factors (inequality data)
- Physical environment

Health Care System

- Administrative data
- Individual health records
- Input and resources (personnel, infrastructure, technology)
- Utilisation
- Clinical research
- Expenditure

Population dynamics of human and virus: public health and societal impact