Imagine 2029: Our data, our health, our care – 20th anniversary of EHTEL EHTEL 2019 Symposium

Kindly hosted by



11:15 - 12:30 [S8]

Aula 0 Ground Floor

Digital

Health Europe Breakout B: Improving Availability and Use of Secondary Health Data

Inspired by the DigiCare communication COM(2018)233 on enabling the digital transformation of health and care in the Digital Single Market, empowering citizens and building a healthier society, the workshop will focus on exploring secondary data use for improving health and care.

Session Chair: Giovanni Gorgoni, AReSS Puglia, Bari, italy

Introduction to DigitalHealthEurope

Strahil Birov, empirica, Bonn, Germany

Data Infrastructure Platforms to Support Secondary Uses of Health Data

Oliver Zobell, FZ Jülich, Germany

Moderated Discussion Based on Three Driving Questions

Diane Whitehouse and Tino Marti, EHTEL, Brussels, Belgium

Q&A and Conclusions by the Session Chairs





Symposium Silver Sponsors



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@ehtel eHealth

DigitalHealthEurope

Support to a Digital Health and Care Innovation initiative in the context of Digital Single Market strategy

Strahil Birov empirica Technology Research , Bonn, Germany







DigitalHealthEurope (DHE) – key facts

- ➤ **Title**: Support to a Digital Health and Care Innovation initiative in the context of Digital Single Market strategy
- Duration: Jan '19 Dec '20 (2 years)
- Coordinator: empirica, Germany

- Instrument: HORIZON 2020
- ► Type: Coordination & Support Action
- ► **Grant Agreement Number**: 826353
- Acronym: DigitalHealthEurope
- **Budget**: €3,999,993.75
- Carried out by 17 partners supported by a Board of 50+ Associated Experts
- ▶ Partners' members have >1,100 members, outreach to >20,000 organisations





































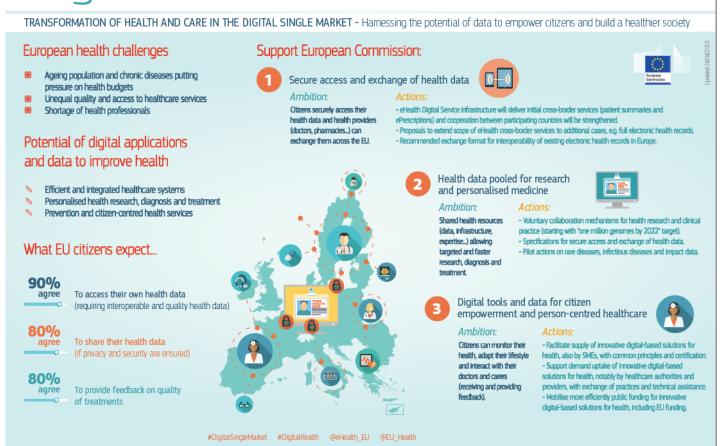
Background: Supporting the three priorities of the EC COM 25 April 2018

Digital Health and Care 🛞











Overview of activities





Twinning activities. Lead: empirica



- The twinning scheme is a mechanism for scaling up innovative digital solutions
- Funding is provided by DigitalHealthEurope to enable the transfer of innovative solutions from one European region or country to another
- ► 1st call for applications closed, 2nd call planned for January 2020

~€ 1 Million in funding for Twinnings on innovative digital solutions in 2019-2020



Further support instruments provided by DigitalHealthEurope (Leads: Funka, IFIC):





Citizens' secure access to & sharing of their data across borders. Lead: SPMS, Portugal



- Collaboration on citizens' secure access to and management of their own health data; sharing of data across borders
 - Common agenda on how to advance digital health literacy
 - ▶ New ways for sharing data across borders
 - Efforts towards the adoption of the European Electronic Health Record exchange format
 - European guidelines for citizencontrolled data governance



Better data to advance research, disease prevention and personalised health & care. Lead: EuroRec



- Collaboration on data infrastructure; better data, personalised medicine
 - Challenges for regional, national, EU infrastructures handling personal and/or anonymous health data
 - Criteria to ensure cross-border access to genomic data
 - Business drivers for scaling up the reuse of health data
 - Business models for Real World Evidence, safeguards to ensure public trust



Citizen empowerment, interaction with health care provider. Lead: European Patients' Forum



- Collaboration on scaling up of digital solutions for citizen empowerment and for person-centred care in Europe
 - Analysis of the experiences of European initiatives
 - Guides for successful implementation of digital solutions for citizen-health & care professionals interaction and active cooperation
 - Empowerment roadmap for healthcare providers to better engage with patients and caregivers
 - Indicators to measure Patient Reported Outcomes (PRO)



Vision of EU coordination & support

Lead: empirica

- ➤ Actionable strategic vision for EU policy on digital transformation of health and care beyond 2020, incl. mobilisation of EU instruments
 - - Legal challenges in using health data, privacy, GDPR
 - Health data standards and interoperability
 - Value-based care
 - Recommendations for future EU support to Digital Transformation of Health and Care



Get involved!

- You can get involved in DigitalHealthEurope by:
 - participating in twinnings: look out for the second twinning call in Juanary 2020
 - Providing expert input to various activities of the three priorities via attending **events** (workshops, roundtables), taking part in **surveys**, validating and commenting on upcoming key reports (white papers, guidelines, policy recommendations)
 - https://digitalhealtheurope.eu/participate.html



Thank you for your attention!

Contact

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Support to a Digital Health and Care Innovation initiative in the context of the Digital Single Market strategy

How to Support Secondary Uses of Health Data

Oliver Zobell

EHTEL Symposium 2019



May 2015

A **Digital Single Market** Strategy for Europe, COM(2015) 192

May 2017

Mid-Term Review on the implementation of the Digital Single Market Strategy, COM(2017) 228



Apr 2018

Communication on enabling the

digital transformation of health and

care in the Digital Single Market; empowering citizens and building a healthier society, COM(2018) 233

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Health data pooled for research and personalised medicine



Ambition:

Shared health resources (data, infrastructure, expertise...) allowing targeted and faster research, diagnosis and treatment. Actions:

- Voluntary collaboration mechanisms for health research and clinical practice (starting with "one million genomes by 2022" target).
- Specifications for secure access and exchange of health data.
- Pilot actions on rare diseases, infectious diseases and impact data.

Feb 2019

Recommendation on a European **Electronic Health Record** exchange format, C(2019) 800



Who we are

Strahil Birov



Stefan Bujok





Dipak Kalra



EUROREC

Zoi Kolitsi





Veli Stroetmann



Oliver Zobell





Scope of this group within the project

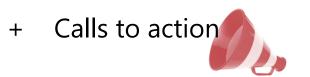
► Supporting the European Commission's plan:

Digital transformation of health and care in the Digital Single Market; empowering citizens and building a healthier society, COM(2018) 233



White paper on better utilisation of data infrastructures to support secondary uses of health data









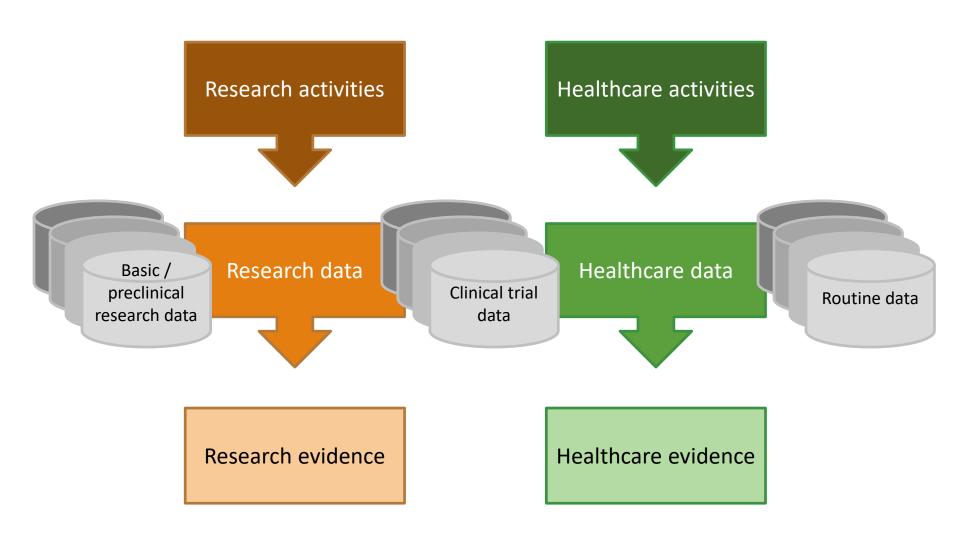


Requirements for + coordination

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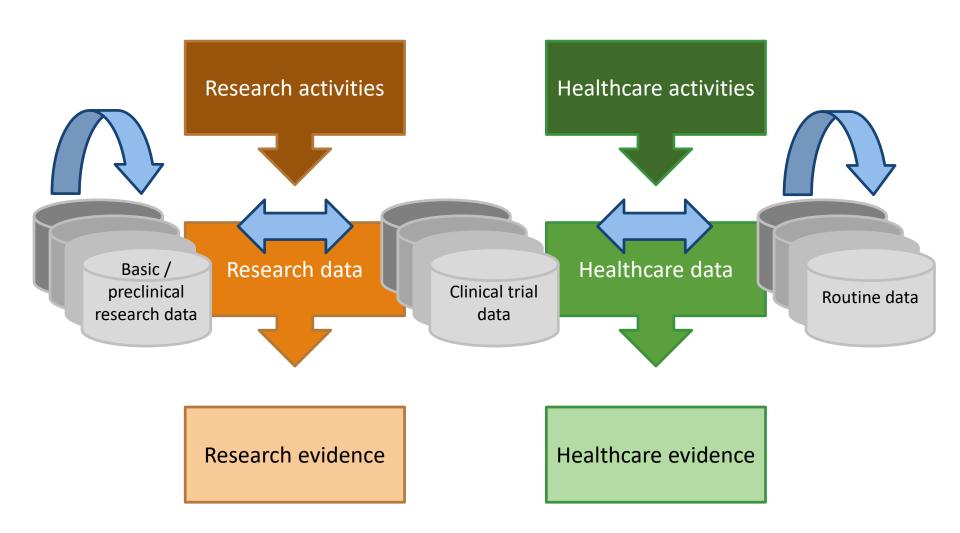


Secondary uses of health data





Secondary uses of health data





"Our" problem space: Data infrastructures vs Research infrastructures

(HEALTH) Data Infrastructures

- flexible access to own health information
- Faster access to patient records by health care providers
- better longitudinal tracking of patients and patient groups
- improved standards of care and reduce the incidence of errors in clinical practice
- provide research data

"Our"
problem
space:
Better
data for
re-use

Research infrastructures

- provide resources and services for research communities to conduct research and foster innovation.
- They include:
 - major scientific equipment or sets of instruments
- collections, archives or scientific data
- computing systems and communication networks
- any other research and innovation infrastructure of a unique nature which is open to external users



Data Infrastructures: Example infrastructures we can learn from







Reuse for clinical trials









Reuse for big data research









Reuse for digital health innovation









Rare Diseases

Life sciences research



Better utilization of data infrastructures to support **secondary uses** of health data

- Recommendations to policy makers on better utilization of data infrastructures for data re-use
- Two topics
 - > What is needed in terms of data access?
 - "Can I find the data I need?"
 - "Can I connect to the data?"
 - ▶ What is needed in terms of the data stewardship/governance?
 - "Are the data useful?"
 - "Am I permitted to use the data?"
 - "What are the terms, and my obligations?"



Some of the bottlenecks for data access

- Connecting a growing family of data catalogues
- Interoperability
 - > standardised metadata for discovery and data set profiling
 - > co-ordinated alignment of eHealth and clinical research standards
 - > prioritised high value data sets to focus all efforts
 - > promoting the wider adoption of standards by vendors, procurers
- Data quality assessment, benchmarking (minimum quality criteria)
- Information security measures and best practices
 - > anonymisation
 - privacy protecting linkage
 - dynamic consent or other models
 - > the role of Blockchain in enabling transparency and auditability



Some of the bottlenecks for **data stewardship / governance**

- Public engagement in understanding and supporting the data reuse ecosystem
 - including mechanisms to consult with the public, take their preferences on board and provide transparency
- Respect, recognition and reward to data providers
 - defining suitable (non-restrictive, but protecting) data access rules
 - in return for abiding by FAIR principles
- Agreeing who are acceptable user organisations and their data reuse purposes
 - including commercial and non-commercial uses
 - > payback (various forms) to health systems for data reuse
 - including how to monitor and govern appropriate use
- GDPR compliance
 - legal basis, the role of consent, data controllers and processors, pseudonymised and anonymised data, adequate safeguards, data minimisation vs big data, audit and escalation
- Business models
 - > attracting pump priming investments for implementation and early operation
 - > a medium and long-term business model for sustainability, including ROI
 - investing in the data e.g. in data quality improvements, data provision resources



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Feb 2019

Recommendation on a European **Electronic Health Record** exchange format, C(2019) 800



Communication "Towards a common **European data space**", COM(2018) 125

06.12.2019

12







Brussels, 10 September 2019



Stella Kyriakides

Commissioner-designate for Health

Dear Stella,

Earlier this year, the people of Europe made their voices heard in record numbers at the European elections. They presented us with a mission to be decisive and ambitious on the big issues of our time that are shaping the future of our society, economy and planet.

Changes in climate, digital technologies and geopolitics are already having a profound effect on the lives of Europeans. We are witnessing major shifts all the way from global power structures to local politics. While these transformations may be different in nature, we must show the same ambition and determination in our response. What we do now will determine what kind of evoid our children live in and will define Europe's place in the world.

Our job as the European Commission will be to lead, to grasp the opportunities and to tackle the challenges that these changes present, working hand in hand with people from across Europe and with the governments, partiaments and institutions that serve them.

This is the guiding principle behind my Political Guidelines for the next European Commission 2019-2024, which I presented to the European Parliament on 16 July 2019. I outlined six headline arribitors on which I want the European Commission's work to focus. These priorities are interlocking and are part of the same picture. In this spirit, I have put together a College in which we will all work, decide and deliver together.

Communication "Towards a common **European data space**", COM(2018) 125

"We need to make the most of the potential of **e-health** to provide high-quality healthcare and reduce inequalities. I want you to work on the creation of a **European Health Data Space** to promote health-data exchange and support research on new preventive strategies, as well as on treatments, medicines, medical devices and outcomes. As part of this, you should ensure citizens have control over their own personal data."

06.12.2019 data."



THANK YOU FOR YOUR ATTENTION!

https://digitalhealtheurope.eu

To get involved, subscribe to our mailing list at https://digitalhealtheurope.eu/participate.html

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