HORIZON EUROPE

Investing to shape our future

EU Research & Innovation activities on Big Data and RWE/RWD in health research



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Presentation focus

- EU research activities in the field of Big Data & RWE/RWD and regulatory relevance
- Overview of completed & running research
- Upcoming funding opportunities





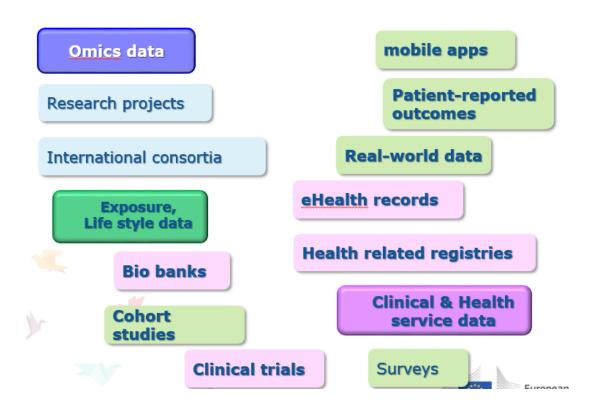






Big data in health research

Auffray, C., Balling, R., Barroso, I. et al. Making sense of big data in health research: Towards an EU action plan. Genome Med 8, 71 (2016).



Auffray et al. Genome Medicine (2016) 8:71 DOI 10.1186/s13073-016-0323-y

Genome Medicine

OPINION

Open Access

CrossMark

Making sense of big data in health research: Towards an EU action plan

Charles Auffray^{1,2*}, Rudi Balling^{3*}, Inês Barroso⁴, László Bencze⁵, Mikael Benson⁶, Jay Bergeron⁷, Enrique Bernal-Delgado⁸, Niklas Blomberg⁹, Christoph Bock^{10,11,12}, Ana Conesa^{13,14}, Susanna Del Signore¹⁵, Christophe Delogne¹⁶, Peter Devilee¹⁷, Alberto Di Meglio¹⁸, Marinus Eijkemans¹⁹, Paul Flicek²⁰, Norbert Graf²¹, Vera Grimm²², Henk-Jan Guchelaar²³, Yi-Ke Guo²⁴, Ivo Glynne Gut²⁵, Allan Hanbury²⁶, Shahid Hanif²⁷, Ralf-Dieter Hilgers²⁸, Ángel Honrado²⁹, D. Rod Hose³⁰, Jeanine Houwing-Duistermaat³¹, Tim Hubbard^{32,33}, Sophie Helen Janacek²⁰, Haralampos Karanikas³⁴, Tim Kievits³⁵, Manfred Kohler³⁶, Andreas Kremer³⁷, Jerry Lanfear³⁸, Thomas Lengauer¹², Edith Maes³⁹, Theo Meert⁴⁰, Werner Müller⁴¹, Dörthe Nickel⁴², Peter Oledzki⁴³, Bertrand Pedersen⁴⁴, Milan Petkovic⁴⁵, Konstantinos Pliakos⁴⁶, Magnus Rattray⁴¹, Josep Redón i Màs⁴⁷, Reinhard Schneider³, Thierry Sengstag⁴⁸, Xavier Serra-Picamal⁴⁹, Wouter Spek⁵⁰, Lea A. I. Vaas³⁶, Okker van Batenburg⁵⁰, Marc Vandelaer⁵¹, Peter Varnai⁵², Pablo Villoslada⁵³, Juan Antonio Vizcaíno²⁰, John Peter Mary Wubbe⁵⁴ and Gianluigi Zanetti^{55,56}

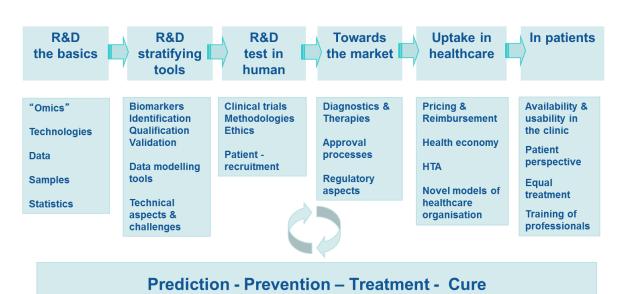




European research on Personalised Medicine

2011

The framework for Personalised Medicine

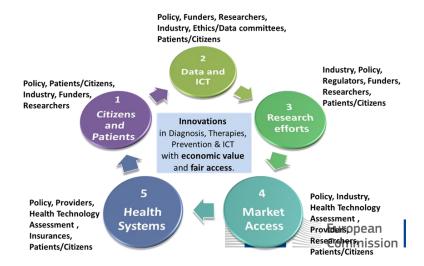






2017

Circle of the five Challenges



Rare diseases research as a model for common diseases

EUROPEAN JOINT PROGRAMME ON RARE DISEASES

- EJP RD launched 1st January 2019, 5 years duration, budget > €100 million, co-fund with Member States (€55 Mio EU contrib.)
- Research and innovation pipeline 'from bench to bedside' for rapid translation of research results into clinical applications and uptake in healthcare for the benefit of patients
- >135 partners (Research funders, universities, research institutes, research infrastructures, hospitals from 24 ERNs and patient organisations from 35 countries (including 27 EU Member States, 7 Associated Countries and Canada)
- Joint Transnational Calls for rare diseases research projects: JTC 2019, JTC 2020, JTC 2021, JTC 2022 launched
- Virtual platform for rare diseases for linking research data, information and tools – FAIR
- Capacity building, training, facilitation of partnerships, validation of new methods for clinical trials

CAPACITY **BUIDLING &** DATA & **EMPOWERMENT**

ACCELERATING TRANSLATION OF RESEARCH & **THERAPY DEVELOPMENT**



HORIZ N 2020

EU contribution 55M EUR for 2019-2023

RESEARCH **FUNDING**

COORDINATED **ACCESS TO** SERVICES FOR RESEARCH



www.ejprarediseases.org



GloPID-R since 2016 Global Research Collaboration for Infectious Diseases Prepardness

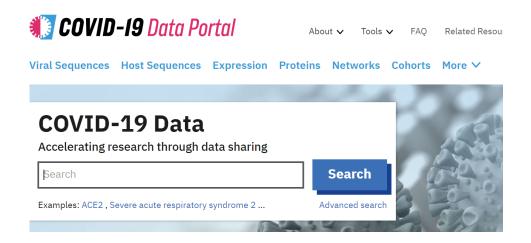
GloPID-R brings together funders investing in research related to new or re-emerging infectious diseases.

Goals

- Supporting research preparedness & rapid response to outbreaks of emerging infectious diseases like COVID-19
- Promoting collaboration & information sharing among funders based on common goals and principles



EU research - COVID-19 response





Connecting European Cohorts



Reconciliation of Cohort data in infectious diseases



ESFRI European Infrastructures

Imaging facilities

EUROBIOIMAGING – Imaging facilities

Biological Resource Centres

- BBMRI Biobanks and Biomolecular Resources
- EMBRC Marine biology resources
- EU-OPENSCREEN Chemical libraries
- INFRAFRONTIER Mouse archives and clinics
- MIRRI Microbial resources

Genomics and proteomics facilities

INSTRUCT - Structural biology facilities

Bioinformatics resources

- ELIXIR Data repositories
- ISBE Infrastructure for systems biology

Medical research facilities

- EATRIS Translational research facilities
- ECRIN Clinical trials support
- ERINHA High-security labs

Wide spectrum of research, discovery and development on health challenges







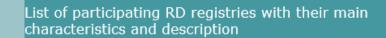
European Rare Disease Registry Infrastructure (ERDRI) developed by Joint Research Centre of the European Commission

 This allows for GDPR-compliant access, search & sharing of interoperable patient data in rare diseases registries, including cohorts and clinical studies



European Directory of Registries (ERDRI.dor)

Overview of rare disease registries in Europe including their characteristics



Descriptive metadata - eight sections with 38 data fields related to a registry of which 23 are obligatory - specific rare disease addressed

- scope
- operating institution
- contact information

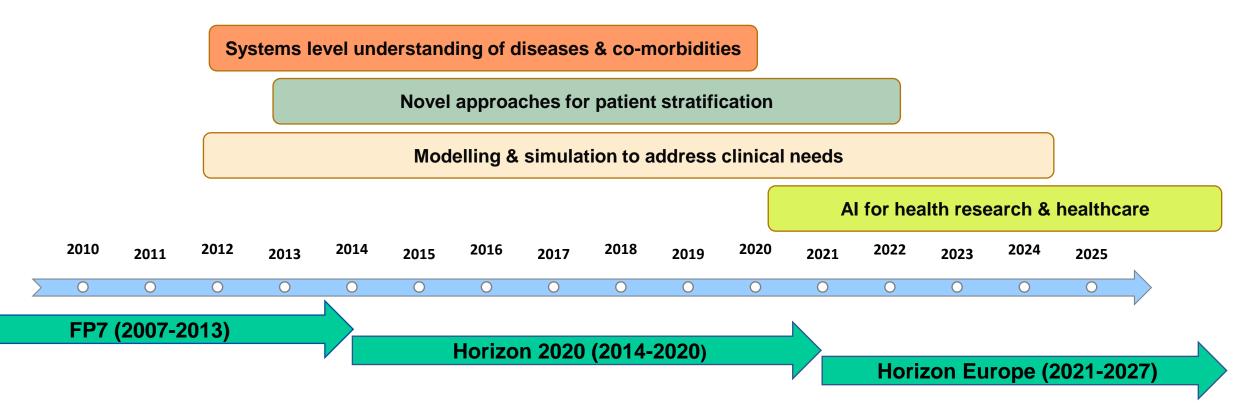
Data input is performed by registry owners

List of the data elements collected by the registries according to the ERDRI.mdr:

registry-specific data scheme



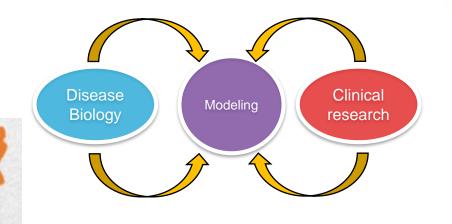
Where are we coming from? Modelling & simulation in EU collaborative health research FP7 (2007-2013) & Horizon 2020 (2014 – 2020)

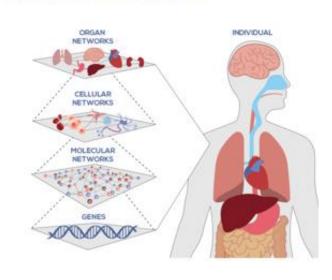


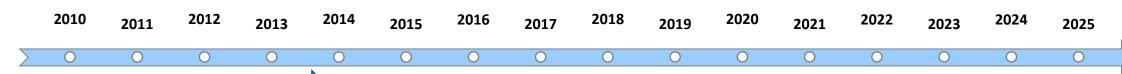
European Commission

Where are we coming from? Big Data and RWE/RWD in EU health research FP7 (2007-2013) & Horizon 2020 (2014 – 2020)

Network of Networks







FP7 (2007-2013)

Building the Virtual Physiological Human

Horizon 2020 (2014-2020)

Horizon Europe (2021-2027)





www.eu-stands4pm.eu



HORIZ N 2020

H2020 projects Use cases





BD2DECIDE



SPIDIA4P



SYSCID



LifeCycle



MultipleMS

Mission:

Establishing a pan-European Expert Forum to tackle the complexity of big data integration for in silico methodologies in personalised medicine

Aims:

- Assessment of national strategies for data-driven in silico modelling approaches
- Development of cross-border standards, recommendations and guidelines for in silico methodologies applied in personalised medicine

Key features:

- Harmonisation of health/disease data integration strategies across Europe
- Strengthening data-driven *in silico* approaches
- Advise on health data integration and standards for research and industry
- Open network that seeks interaction with all relevant stakeholders

Standardization





Data and models



Universität

Legal/ethical frame



Coordinator Regulator







www.eu-stands4pm.eu



ISO/TC276/WG5 Liaison

ISO 20691 "Requirements for data formatting and description in the life sciences for downstream data processing and integration workflows"

ISO link: https://www.iso.org/standard/68848.html



ISO TR 3985: 2021 "Biotechnology — Data publication — Preliminary considerations and

concepts"

ISO link: https://www.iso.org/standard/79690.html

ISO ISO/DTS 9491:2022 'Biotechnology — Recommendations and requirements for predictive computational models in personalised medicine research — Guidelines for constructing, verifying and validating models'

ISO/TC215/WG1 Liaison

ISO/TR 24291: Applications of Machine Learning Technologies for Artificial Intelligence in

Medicine

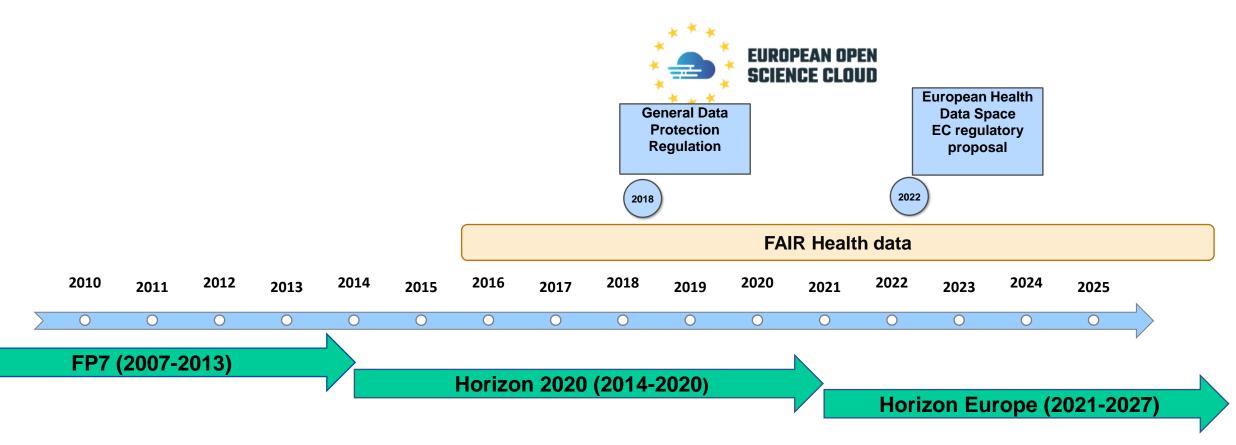
ISO link: https://www.iso.org/standard/78345.html

ISO 4454: Genomics Informatics – Phenopackets: A Format for Phenotypic Data Exchange

ISO link: https://www.iso.org/standard/79991.html



Where are we coming from? Big Data and RWD in EU collaborative health research Horizon 2020 (2014 – 2020) & Horizon Europe (2021-2027)





HealthyCloud CSA: - Health Research & Innovation Cloud (01-03-2021 to 31-07-2023)

The consortium











Junta de Andalucía

Consejería de Salud y Familias



















OF TARTU

UNIVERSITY

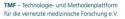


OPINION Open Access

Towards a European health research and innovation cloud (HRIC)



F. M. Aarestrup¹, A. Albeyatti^{2,3}, W. J. Armitage⁴, C. Auffray^{5*}, L. Augello⁶, R. Balling⁷, N. Benhabiles^{8*}, G. Bertolini⁹, J. G. Bjaalie¹⁰, M. Black¹¹, N. Blomberg^{12*}, P. Bogaert¹³, M. Bubak¹⁴, B. Claerhout¹⁵, L. Clarke¹⁶, B. De Meulder⁵, G. D'Errico¹⁷, A. Di Meglio¹⁸, N. Forgo¹⁹, C. Gans-Combe²⁰, A. E. Gray²¹, I. Gut²², A. Gyllenberg²³, G. Hemmrich-Stanisak²⁴, L. Hjorth²⁵, Y. Ioannidis²⁶, S. Jarmalaite²⁷, A. Kel²⁸, F. Kherif²⁹, J. O. Korbel^{30*}, C. Larue³¹, M. Laszlo³², A. Maas³³, L. Magalhaes³⁴, I. Manneh-Vangramberen³⁵, E. Morley-Fletcher^{36,37}, C. Ohmann³⁸, P. Oksvold³⁹, N. P. Oxtoby⁴⁰, I. Perseil⁴¹, V. Pezoulas⁴², O. Riess⁴³, H. Riper⁴⁴, J. Roca⁴⁵, P. Rosenstiel²⁴, P. Sabatier⁴⁶, F. Sanz⁴⁷, M. Tayeb^{2,3}, G. Thomassen⁴⁸, J. Van Bussel⁴⁹, M. Van den Bulcke⁴⁹ and H. Van Oyen^{14,50}









CSC

Innovative Medicines Initiative Europe's partnership for health







Where are we coming from? Big Data and RWE/RWD IMI IMI 1 (2008-2013) & IMI II (2020-2024)

Big data utility:

- Understanding pathophysiology –disease progression new taxonomy of disease
- Facilitate faster clinical research.
- Use and re-use Big Data, including Real World Data (RWD) for rapid decision making
- Define patients reported outcomes
- New tech (e.g. mobile apps, wearable technologies) ato track symptoms & treatments



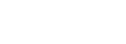
Use Real World Data (RWD) for rapid decision making



• **EMIF** (<u>emif-catalogue.eu</u>) laid the foundation for a number of subsequent IMI projects through facilitating access to RWD at scale to answer research questions. A key output is the EMIF data catalogue.



• **EHDEN** (<u>ehden.eu</u>) has put in place a network of over 160 European RWD sources which can be mobilised in a short time-frame to provide rapid answers to research questions. Already used for safety of potential COVID-19 treatments & vaccines.



 Get Real (getreal-institute.org) focusses on using RWD to address the needs of downstream health care decision-makers, in particular, health technology assessment agencies.







03/2017-02/2023





- Aims to develop new definitions of diseases and outcomes
- Informatics platforms that link, visualise and harmonise different data sources; data science techniques; and guidelines on the cross-border use of big data
- Improved impact on our understanding of heart disease, the discovery of new targets for treatments
- Utrecht University & Bayer, total budget 19.4 M EUR

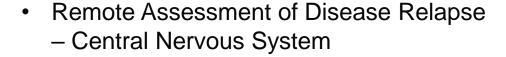
- GETREAL developed new tools and resources for incorporating real-life data into drug development
- Launch of RWE Navigator:
 online resource helps users to understand
 the need for and the generation of RWE, and
 understand how this can be used to inform
 decision-making
- Utrecht University & GlaxoSmithKline, total budget 16.9 M EUR



innovative



04/2016-03/2022



- Developed new ways of monitoring major depressive disorder, epilepsy, and multiple sclerosis using wearable devices and smartphone technology
- RADAR-base: open-source platform for remote assessment using wearable devices and mobile applications
- King's College London & Janssen, total budget 25 M EUR



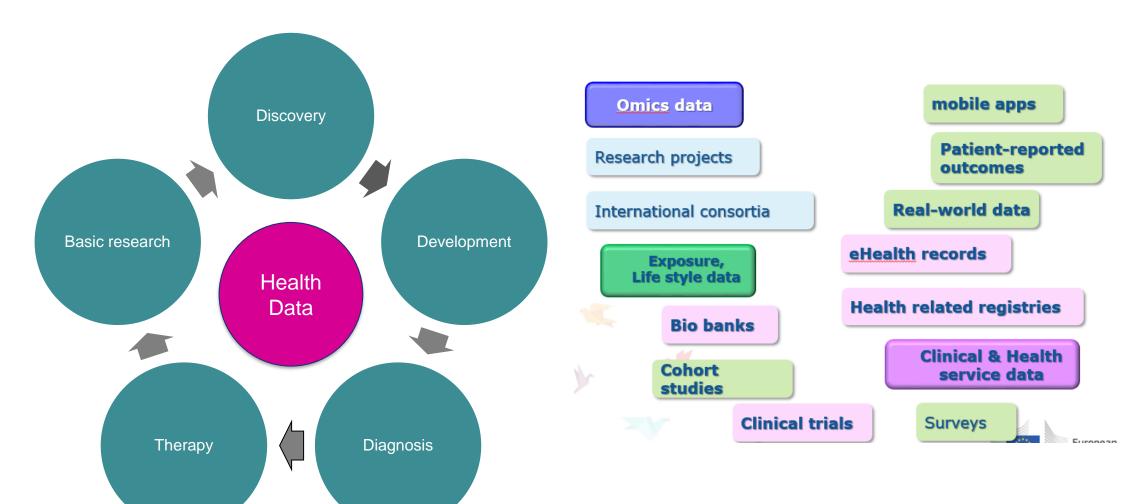


01/2017-06/2023

- Aims to use 'big data' to deliver information that will help to improve the care of patients with haematologic cancers
- Focus on integration and analysis of anonymous patient data to define clinical endpoints and outcomes for these diseases that are recognised by all key stakeholders
- IBSAL Spain & Novartis, total budget 42 M EUR



EU research & innovation ecosystem of Big Data



HORIZON EUROPE (2021 – 2027)

EURATOM

SPECIFIC SPECIFIC PROGRAMME IMPLEMENTING HORIZON EUROPE & EIT* PROGRAMME: Exclusive focus on civil applications **EUROPEAN** Pillar I Pillar II - €53.5 billion Pillar III **Fusion DEFENCE EXCELLENT GLOBAL CHALLENGES INNOVATIVE FUND** & EUROPEAN **EUROPE** Exclusive focus on INDUSTRIAL defence research **European Research** Health – €8.25 billion **European Innovation** & development Council Culture, Creativity & Council **Inclusive Society** Marie Skłodowska-Curie Civil Security for Society **European Innovation** · Digital, Industry & Space **Fission Ecosystems Research Infrastructures** Research Climate, Energy & Mobility actions · Food, Bioeconomy, **European Institute of Natural Resources**, Innovation & Technology* **Agriculture & Environment Joint Research Centre Joint** Research Development Center actions WIDENING PARTICIPATION AND STRENGTHENING THE EUROPEAN RESEARCH AREA (JRC) Widening participation & spreading excellence Reforming & Enhancing the European R&I system



^{*} The European Institute of Innovation & Technology (EIT) is not part of the Specific Programme



Horizon Europe – Cluster 1: Health

Aims:

- to contribute to the promotion of social cohesion and inclusiveness and the health and well-being of people.
- to help develop "an economy that works for people" by supporting research (and coordination) in order to make innovative, high-quality health technologies and health care both available and affordable for citizens;
- and to make health care systems more accessible and sustainable, including through the digital transformation of health and care.



Health cluster: WP 2021 & 2022 topics relevant to health data innovations

Destination 5: Unlocking the full potential of new tools, technologies and digital solutions for a healthy society

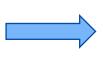
HORIZON-HLTH-2021-TOOL-06-03: Innovative tools for use and re-use of health data (in particular of electronic health records and/or patient registries

Closure: 21.09.2021

Instrument: RIA

Indicative budget: €30M

Project size: €8M



InToEHR Cluster

AIDAVA DataTools4Heart eCREAM

IDEA4RC RES-Q+



HORIZON EUROPE

Projects of the InToEHR cluster



All powered Data Curation & Publishing Virtual Assistant.

DataTools4Heart A European Health Data Toolbox for Enhancing Cardiology Data Interoperability,

Reusability and Privacy.

eCREAM Enabling Clinical Research in Emergency and Acute care Medicine through

automated data extraction.

IDEA4RC Intelligent Ecosystem to improve the governance, the sharing and the re-use of

health Data for Rare Cancers.

RES-Q PLUS Comprehensive solutions of healthcare improvement based on the global

Registry of Stroke Care Quality.





Innovative tools for use and re-use of health data (in particular of electronic health records and/or patient registries)

The challenge

- Health data in diverse forms and fragmented in multiple local repositories
- Sharing and analysing data from multiple countries in a safe and legally compliant manner

Research & innovation needs

- Improve the ways structured and unstructured health data is stored, analysed and interpreted
- Develop innovative tools and standards to improve the quality, interoperability, machine-readability and re-use of structured/unstructured health data and metadata

EU research & innovation policies

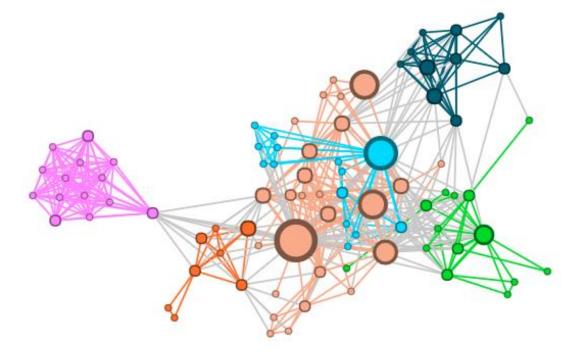
- Contribute to the work on the creation of the European Health Data Space
- Contribute to existing European and international standards and specifications for health data
- Synergise with relevant ongoing research infrastructures



Why clustering of EU-funded projects?

Increased impact

- Synergies across projects to enable faster progress
- Maximise outcomes/impact of EU-funded research
- Knowledge sharing & communication



Feedback to EU policies

- Health cluster research policy monitoring Input to support the future developments of the Health cluster work programme
- EC legislative work (e.g. EHDS regulatory proposal)



Examples of cluster activities – "joint activities"



- Exchange of knowledge
- Development and adoption of harmonised approaches or good practices
- Participation in and organization of joint workshops, including training
- Joint communication and dissemination activities
- Policy briefs and reports i.e. position paper(s) and state-of-the-art white paper(s)



1st InToEHR cluster meeting

Data & Metadata

- Data quality
 - FAIR metrics, data quality metrics and data privacy compliance
- Data models & semantic interoperability
 - Building on existing standards ontologies & terminologies ...
- Metadata driven automated FAIRification process
 - Contextual information such as structure and language
 - Orchestration of data curation tools





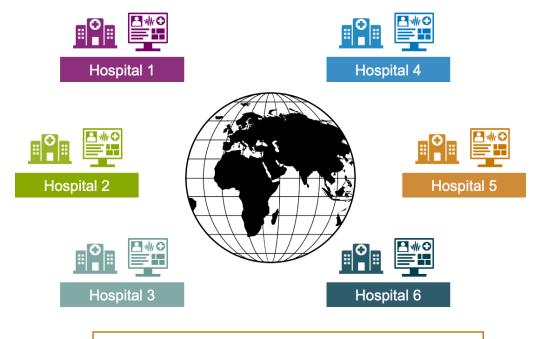
<u>DataTools4Heart*</u>: A European Health Data Toolbox for Enhancing Cardiology Data Interoperability, Reusability and Privacy

EU budget: EUR 7,7 million

Duration: 01-10-2022 to 30-09-2026

Objectives

- Develop standardised data ingestion and harmonisation tools providing a common data model, multilingual natural language processing, federated machine learning
- Develop virtual assistant to help clinicians navigate through large-scale multi-source cardiology data



* Image: Courtesy of DataTools4Heart



Health cluster: WP 2021 & 2022 topics relevant to health data innovations



Destination 5: Unlocking the full potential of new tools, technologies and digital solutions for a healthy society

HORIZON-HLTH-2022-TOOL-11-02: New methods for the effective use of real-world data and/or synthetic data in regulatory decision-making and/or in health technology assessment

Closure: 21.04.2022

Instrument: RIA

Indicative budget: €35M

Project size: €7M



5 projects under grant agreement preparation & expected to start in January 2023



HORIZON-HLTH-2022-TOOL-11-02:





The challenge

Harness RWD and synthetic data for regulatory decision-making and for health technology assessment (HTA)

Research & innovation needs

- Develop evidentiary standards in the analysis of real-word data (RWD) and/or synthetic data for regulatory decision making and/or HTA
- Define methodological standards for the regulatory acceptability of RWD and/or synthetic data
- Develop machine learning methods to help process and analyse RWD and/or synthetic data for regulatory decision making and HTA

EU research & innovation policies

Synergise with the European Health Data Space and the DARWIN Initiative



HORIZON-HLTH-2022-TOOL-11-02:



HORIZON

New methods for the effective use of real-world data and/or synthetic data in regulatory decision-making and/or in health technology assessment

The selected projects cover:

- The development and implementation of artificial intelligence methods for RWD analyses in regulatory decision-making and health technology assessment along the product lifecycle
- Al-based framework for assessing real-life effectiveness of novel cancer therapies
- The use of registries to support patient-centred regulatory and HTA decision-making
- The creation of a collaborative network of stakeholders to enable a transparent evaluation and certification of software in healthcare
- Investigation on how real-world data can complement randomized clinical trials to improve efficacy, safety in a specific disease

Real4Reg: Development, optimisation and implementation of artificial intelligence methods for real world data analyses in regulatory decision-making and health technology assessment along the product lifecycle

Coordinator: BUNDESINSTITUT FUR ARZNEIMITTEL UND MEDIZINPROD (BfArM)

Federal Institute for Druga and Medical Devices in Germany

EU budget: EUR 7 million

Duration: 01-01-2023 to 31-12-2026

Objectives

- To develops AI-based data-driven methods and tools for the assessment of medicinal products.
- To develop raining activities on good practice examples
- Develop/optimise guidelines for both health regulatory authorities and health technology assessment (HTA) bodies across Europe.



ONCOVALUE: Implementing value-based oncology care at European cancer hospitals:

An Al-based framework for assessing real-life effectiveness of novel

cancer therapies in real-time

Coordinator: Helsinki University Hospital (HUS)

EU budget: EUR 6,9 million

Duration: 01-12-2022 to 30-11-2026

Objectives

- Build up a data collection and processing capabilities of leading European cancer hospitals to create a high-quality clinical, quality of life, and adverse events data-sources
- Use AI technologies to transform unstructured data originating from medical notes and medical images into structured data to enable analytics and real world evidence (RWE)
- Provide an infrastructure for RWD reporting in health regulatory and HTA decision-making



Health cluster: WP 2021 & 2022 topics relevant to health data innovations



Destination 1: Staying healthy in a rapidly changing society

HORIZON-HLTH-2022-STAYHLTH-01-04: Trustworthy Al tools to predict the risk of chronic non-communicable diseases

Closure: 01.02.2022 (1st stage)

& 06.09.2022 (2nd stage)

and/or their progression

Instrument: RIA

Indicative budget: 60M€, Project size: 6M€



Under proposal evaluation – new projects expected to start Q2 2023

Destination 5: Unlocking the full potential of new tools, technologies and digital solutions for a healthy society

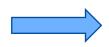
HORIZON-HLTH-2022-TOOL-12-01-two-stage:

Computational models for new patient stratification strategies Closure:

01.02.2022 (1st stage) & 06.09.2022 (2nd stage)

Instrument: RIA

Indicative budget: €60M, Project size: €6M



Under proposal evaluation – new projects expected to start Q2 2023



Health cluster: WP 2021 & 2022 topics relevant to health data innovations



Destination 3: Tackling diseases and reducing disease burden

HORIZON-HLTH-2021-DISEASE-04-04: Clinical validation of artificial intelligence (AI) solutions for treatment and care

Closure: 21.09.2021

Instrument: RIA

Indicative budget: 60M€

Project size: 6M€



TOLIFE: Combining Artificial Intelligence and smart sensing
TOward better management and improved quality of LIFE
in chronic obstructive pulmonary disease

Objectives

- Develop an AI solution that processes daily life patient data captured by unobtrusive sensors
- Predict COPD exacerbations and assess health outcomes via an AI-based platform



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What's next?
Horizon Europe
Health Cluster work programme 2023-2024



Horizon Europe — Cluster 1 Health Strategic Plan 2021-24 (link) → 6 Expected Impacts

Work Programme 2023-24 (pre-published 29 November 2022)

NOT LEGALLY BINDING

6 "Destinations"

Topics (Calls)

- 1. Staying healthy in a rapidly changing society
- 2. Living and working in a health-promoting environment
- 3. Tackling diseases & reducing disease burden
- 4. Ensuring access to innovative, sustainable & high-quality healthcare
- 5. Unlocking the full potential of new tools, technologies and digital solutions for a healthy society
- 6. Maintaining an innovative, sustainable & globally competitive health industry

Focus on outcomes contributing to the impacts specified per Destination



HORIZON EUROPE

Horizon Europe work programmes pre-publication (europa.eu)



Health cluster: WP 2023 & 2023 topics relevant to health data innovations

- HORIZON-HLTH-2024-DISEASE-03-08-two-stage: Comparative effectiveness research for healthcare interventions in areas of high public health need
- HORIZON-HLTH-2024-DISEASE-03-11-two-stage: Pandemic preparedness and response:
 Adaptive platform trials for pandemic preparedness
- HORIZON-HLTH-2023-TOOL-05-01: Clinical trials of combined Advanced Therapy Medicinal Products (ATMPs)
- HORIZON-HLTH-2023-TOOL-05-03: Integrated, multi-scale computational models of patient patho-physiology ('virtual twins') for personalised disease management
- HORIZON-HLTH-2023-TOOL-05-04: Better integration and use of health-related realworld and research data, including genomics, for improved clinical outcomes





Health cluster: WP 2023 & 2024 topics relevant to health data innovations

- HORIZON-HLTH-2023-IND-06-04: Modelling and simulation to address regulatory needs in the development of orphan and paediatric medicines
- HORIZON-HLTH-2023-IND-06-07: Development and harmonisation of methodologies for assessing digital health technologies in Europe
- HORIZON-HLTH-2024-IND-06-08: Developing EU methodological frameworks for clinical/ performance evaluation and post-market clinical/performance follow-up of medical devices and in vitro diagnostic medical devices (IVDs)
- HORIZON-HLTH-2024-IND-06-09: Gaining experience and confidence in New Approach Methodologies (NAM) for regulatory safety and efficacy testing – coordinated training and experience exchange for regulators





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What's next?
Horizon Europe
Innovative Health Initiative (IHI)



Calls currently under evaluation



Horizon Europe – Innovative Health Initiative (IHI):

- IHI Call 1, Topic 4: Access and integration of heterogenous health data for improved healthcare in disease areas of high unmet public health need (start ~ Q1 2023)
- IHI Call 2, Topic 1-two-stage: Cardiovascular diseases- improved prediction, prevention, diagnosis and monitoring (start ~ Q3 2023)

Upcoming opportunities

- Possibility to propose **IHI topics** for consideration via the IHI website: Shape our future research | IHI Innovative Health Initiative (europa.eu)
- IHI Call 3, Topic 2, single stage: "Patient generated evidence to improve outcomes, support decision making, and accelerate innovation", launch 13 December 2022 DraftTopic_PatientGeneratedEvidence.pdf (europa.eu)



Publication of draft IHI topics November 2022 https://www.ihi.europa.eu/apply-funding/open-calls

IHI call 3 (single stage call) - updated drafts of 24 November 2022

- <u>Topic 1: Screening platform and biomarkers for prediction and prevention of diseases of unmet public health need</u>
- <u>Topic 2: Patient-generated evidence to improve outcomes, support decision making, and accelerate innovation</u>
- <u>Topic 3: Combining hospital interventional approaches to improve patient outcomes and increase</u>
 <u>hospital efficiency</u>
- <u>Topic 4: Strengthening the European translational research ecosystem for advanced therapy</u> <u>medicinal products (ATMPs) for rare diseases</u>
- Topic 5: Digital health technologies for the prevention and personalised management of mental disorders and their long-term health consequences





Thank you for your attention

