



The Joint Action on Health Information InfAct

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InfAct's goals are to strengthen national and EU health information systems by:



1. Establishing a sustainable research **infrastructure** which will support population health and health system performance assessment.



2. Strengthening European health information and knowledge bases and health information research **capacities** to reduce health information inequalities,



3. Supporting health information **interoperability** and **innovative** health information tools and data sources.



Integration into national policies and sustainability



Status of health information systems in the EU



Strengthen health information capacity



Proof of concept for sustainable structure



Assessing and piloting interoperability for public health policy

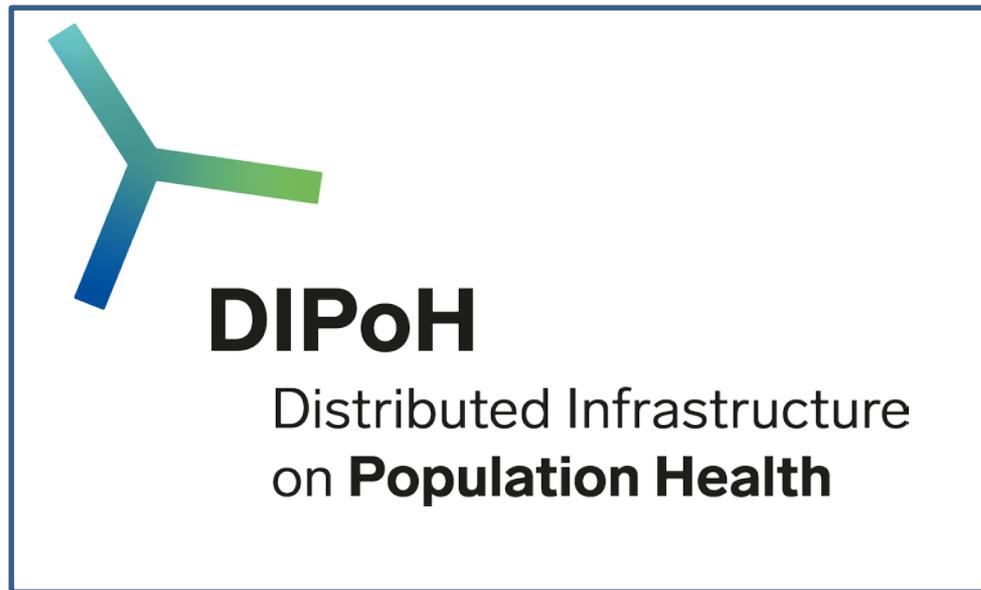


Tools and methods for health information support



Innovation in health information for public health policy development

To conceptualize a sustainable Research Infrastructure and carry out a proof of concept:



The Services of DIPoH

- 1** One-stop shop for EU health information research

Find the data, expert, network, guidelines or tool you are looking for


-  Innovative research in health information

Be the first to know and use the latest developments and methodologies

2
- 3** Capacity building in health information

Get expert support and training on collection, analysis, reporting and transformation


-  Knowledge translation research for evidence based decision-making

Know your (health) policies are based on proper evidence

4

BRIDGE Health and InfAct have contributed to various levels of the development of DIPoH

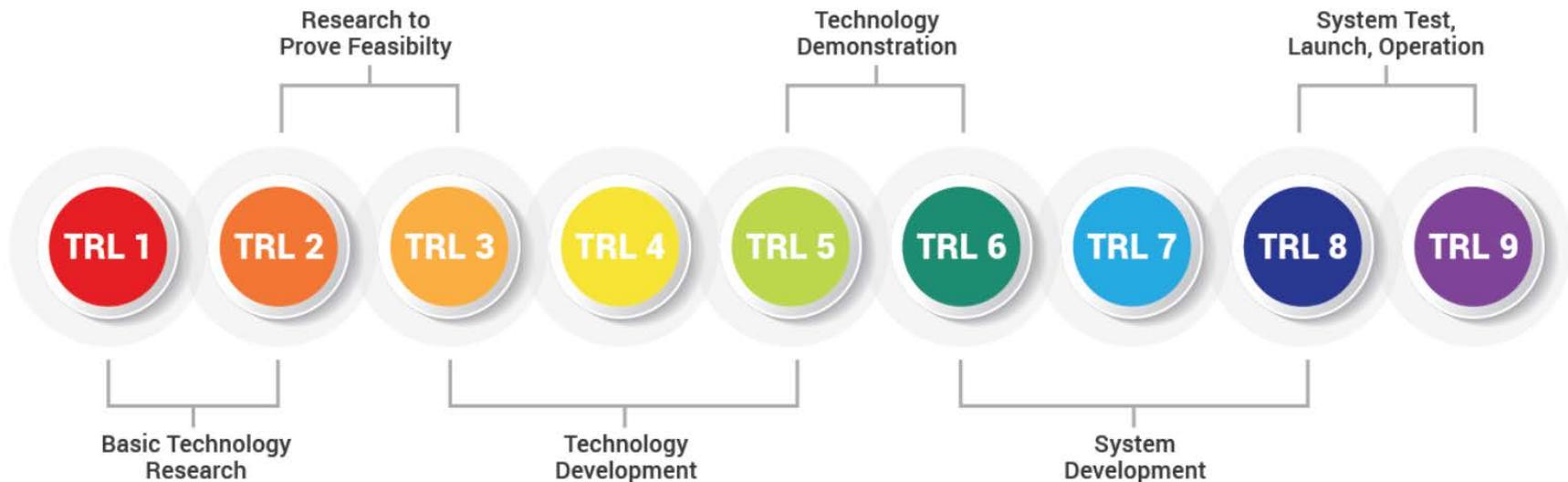
The Technology Readiness Levels (TRL)

- TRL 1 - basic principles observed
- TRL 2 - technology concept formulated
- TRL 3 - experimental proof of concept
- TRL 4 - technology validated in lab
- TRL 5 - technology validated in relevant environment
- TRL 6 - technology demonstrated in relevant environment
- TRL 7 - system prototype demonstration in operational environment
- TRL 8 - system complete and qualified
- TRL 9 - actual system proven in operational environment

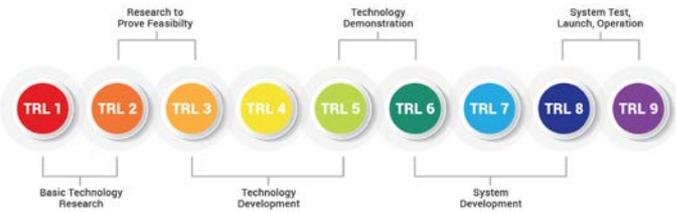
Maturity of DIPoH

BRIDGE Health and InfAct have contributed to various levels of the development of DIPoH

The Technology Readiness Levels (TRL)

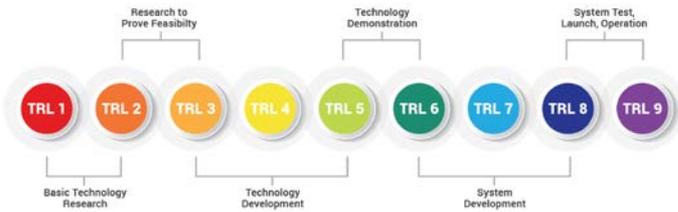


I. One-stop-shop for EU health Information Research



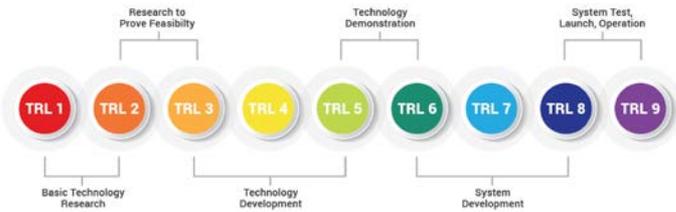
Element		Achieved during BRIDGE Health and InfAct
One-stop-shop for EU health Information Research	Metadata catalogue of existing health information projects and networks	<p><u>TRL2</u>: A review of existing health information networks is conducted by InfAct and based on that formulation of metadata needs is prepared.</p> <p><u>TRL7</u>: A prototype of the metadata catalogue of an initial set of network is being set up in InfAct and tested in operating environment (Health Information portal)</p>
	Metadata catalogue of existing health information data sources	<p><u>TRL2</u>: A review of types of data different health information networks and national health information systems host is conducted by InfAct and based on that formulation of metadata needs is prepared</p> <p><u>TRL7</u>: A prototype of the metadata catalogue of data sources has been set up and tested in operating environment (Health Information portal)</p>
	ELSI and FAIR guidelines	<p><u>TRL2</u>: Several research networks have prepared their own ELSI and FAIR guidelines which have been summarised in previous project (BRIDGE Health)</p> <p><u>TRL7</u>: ELSI and FAIR guidelines are demonstrated in the different settings and will be made available in the portal</p>

II. Innovative research in health information

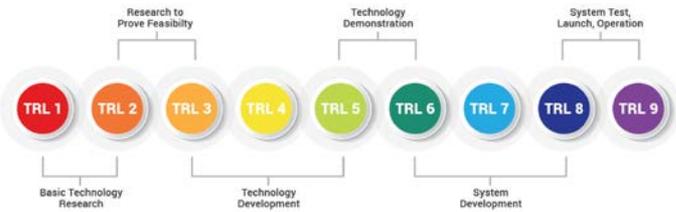


Element		Achieved during BRIDGE Health and InfAct
Innovative research in health information	Leading-edge study designs and analytical methods	<u>TRL5</u> : Machine-learning techniques has been applied to the administrative health databases leading to Methodological guidelines to use linked data and machine learning techniques for population health research with practical examples of research studies
	Semantic and technological interoperability across datasets (within and between countries)	<p><u>TRL4</u>: A review of existing research networks (BRIDGE Health) reveals that most of population health research has been conducted using rigid data schemas and centralised data infrastructures collecting aggregated information</p> <p><u>TRL3</u>: Existing health data collection methods in EU by: i) reviewing and identifying standardized data collection methods and related quality assurance procedures; and ii) elaborating common procedures and guidelines for accessibility and availability of health information both for individual-based data and health indicators.</p> <p><u>TRL6</u>: Use cases demonstrated the feasibility of using common data models in distributed infrastructures implemented in real-life environments</p> <p><u>TL3</u>: Assessing interoperability enablers and barriers</p>

III. Capacity building in health information



Element		Achieved during BRIDGE Health and InfAct
Capacity building in health information	Standardised protocols and guidelines exists	<p><u>TRL2</u>: the baselines for a European Capacity Building strategy: As a flexible structure of courses and other capacity building activities, modules and training plans, covering all the areas related to Health Information easily tailored to tackle the different needs and inequalities.</p> <p><u>TRL5</u>: Distribution of existing protocols and guidelines through portal for larger audience</p>
	Training materials And development of a European level training programme for health information	<p><u>TRL2</u>: A review of existing interactive and static training materials is prepared in InfAct</p> <p><u>TRL7</u>: A pilot of a flagship European health information training course has been carried out covering the fundamental aspects of health information</p>
	Assessment of Health Information System	<p><u>TRL7</u>: To strengthen the capacity in nine European countries, peer health information system assessments have been carried out. Guidelines have been developed on how to carry out a health information system assessment in peer review format. It also performs a mapping exercise to assess national health information systems and establishes an information base where stakeholders can contact international expert networks, projects and organisational bodies collecting comparable health data.</p>



IV. Knowledge translation research for evidence based decision-making

Element		Achieved during BRIDGE Health and InfAct
Knowledge translation research for evidence based decision-making	Health Information impact index	<u>TRL3</u> : A review of existing tools and a prototype of the index has been developed within a post-doc project (BAHCI, H2020-MSCA-IF-2017, GA 795051), linked to InfAct
	Innovation on health information for public health policy development	<u>TRL5</u> : Identifying examples using data sources to estimate health indicators and development of best practices and guidelines to enlarge the set of morbidity indicators available across the EU using innovative techniques.
	Integration of research outputs in national policies	<u>TLR5</u> : a) MS involvement through health and research authorities; b) integration of the InfAct's outcomes into policies at regional, national and European level; c) strengthen national health information consortia involving health and research authorities through national nodes
	Piloting interoperability for public health policy	<u>TRL2</u> : Methods and techniques used to get sound knowledge out of data linkage, sharing, management and reporting

Outcomes of InfAct





Website: www.inf-act.eu
Twitter: @JA_InfAct



This project is funded by
the Health Programme of
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