OPEN SCIENCE FAIR

FAIR4Health

Landscape Analysis – Initial Findings from FAIR4Health Project

Workshop session: Fostering a FAIR research culture - what works?

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Open Science Fair 2019
16-18 Sep 2019, Porto (Portugal)

This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 824666

European Commission

HORIZON 2020

Outline

1. The FAIR4Health Project
2. The FAIRification workflow
3. Guidelines for HRPOs to implement a FAIR data policy

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Improving Health Research in EU through FAIR data

Health Research Organizations

Research Data Management

Health Informatics

Business Actors

OBJECTIVES

To facilitate and encourage the EU Health Research community to FAIRify, share and reuse their datasets derived from publicly funded research initiatives through the demonstration of the potential impact that such strategy will have on health outcomes and health research.

1. OUTREACH STRATEGY AT EU LEVEL
2. FAIR DATA CERTIFICATION ROADMAP
3. TECHNOLOGICAL PLATFORM
4. DEMONSTRATE POTENTIAL IMPACT

EC funding: 2,999,053.75 €

www.fair4health.eu

@FAIR4Health

Demonstrators

Innovative eHealth services based on FAIR data reuse

#1 To support the discovery of disease onset triggers and disease association patterns in comorbid patients and demonstrate the reproducibility of research.

#2 To develop and pilot a prediction service for 30-days readmission risk in complex chronic patients

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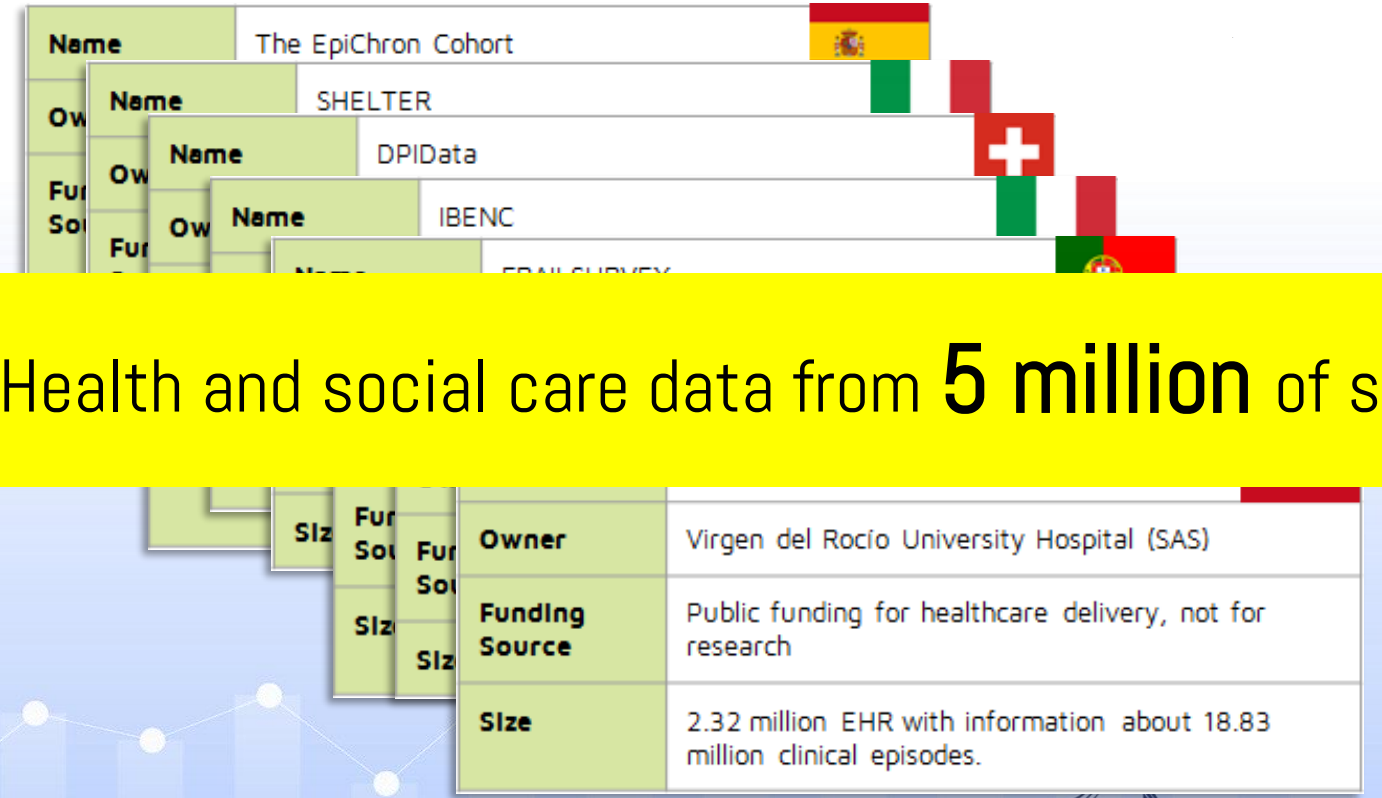
Datasets



Health and social care data from **5 million** of subjects

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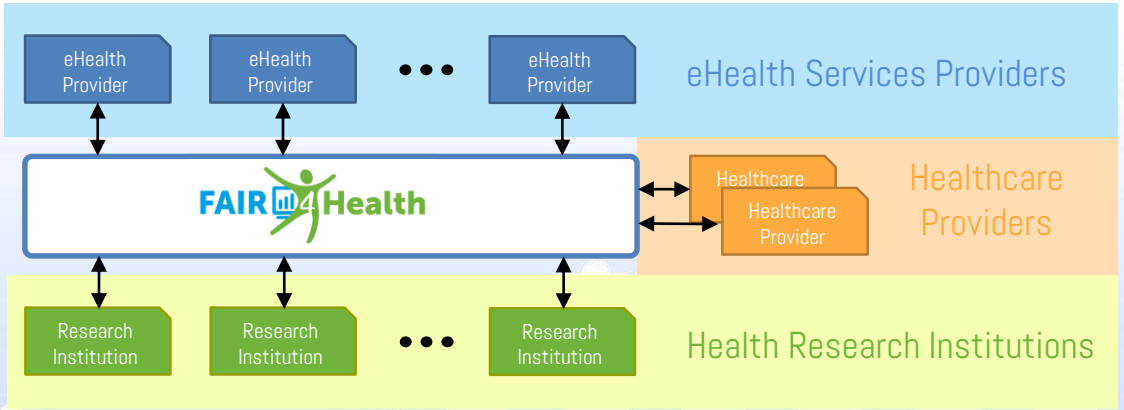
FAIR4Health Vision



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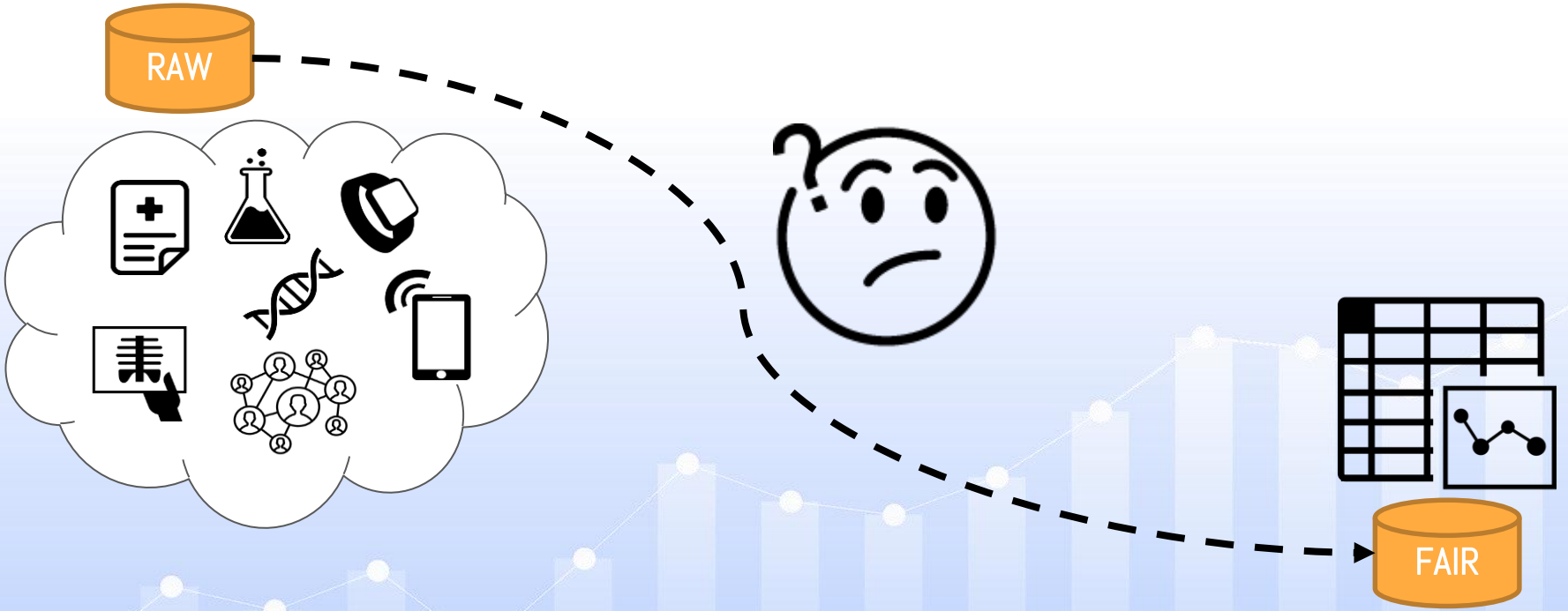
FAIRification workflow



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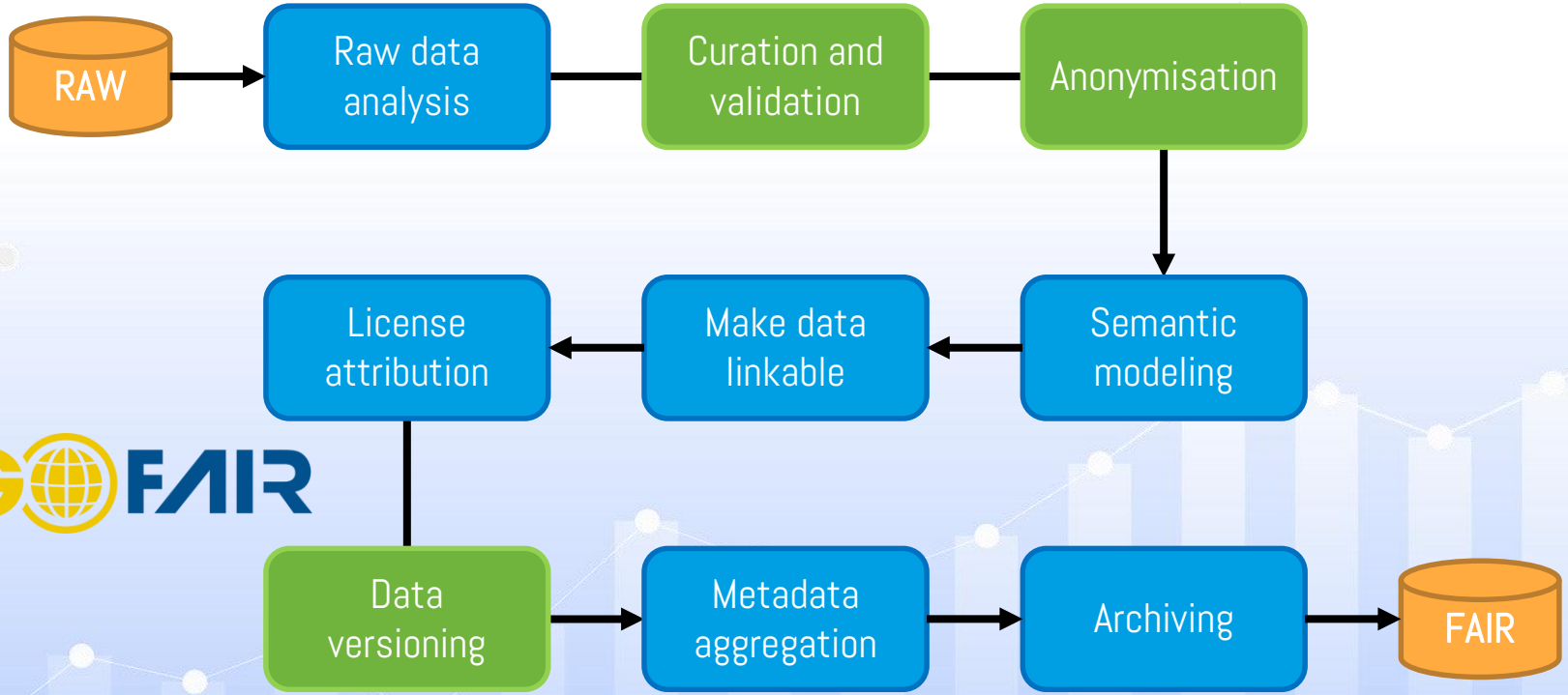
FAIRification workflow



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Guidelines: 5 principles

01	Strategic Vision	The implementation of FAIR policy implies to manage a **complex change**
02	Resources	There are no policies without **resources and incentives** supported by the needed **infrastructure**
03	Skills	Need to count with right **knowledge and skills** about FAIR data and research data management
04	Action Plan	The FAIR policy implementation must follow a clear **action plan**, identifying main **actors** and a credible **timeline**
05	Approval	The FAIR policy must be **written down** and **approved** by the institution

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Guidelines: 10 Steps

1. Vision and Objectives	2. Responsible Team	3. Raise Awareness	4. Data Infrastructure	5. Good Practices
Describe current research, funders and their policies, research outcomes and infrastructure. Define the **objectives** of the policy. Adoption of **overcoming mechanisms** to enhance data sharing	Design an **action plan** State **resources** and a feasible **timeline**	Provide training and **assistance** to researchers. Definition of **skills** and a **training programme**	Identify and describe **data storage** and architecture. Provision of **tools** to make data FAIR. Research outcomes should be deposited in **trustworthy** repos.	Establish responsible **RDM** practices. Define FAIR for **implementation**. Creation of standard institutional template for **DMP**

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Guidelines: 10 Steps

6. Openness	7. Standards	8. Incentivize	9. Implement	10. Assess
Determine the level of **openness, transparency and re-usability** of research outputs, including **licensing, provenance** and mechanisms for **data protection**	Technical decisions must be adopted regarding **persistent IDs** and **metadata schemas** for accessibility and interoperability. Include a technical analysis of **domain-specific standards**	Devise **credit** and **reward** mechanisms to encourage **researchers** to apply the FAIR data policy	**1. Write** the policy **2. Submit** for approval **3. Disseminate**	Provide mechanisms for **FAIR data assessment** within the institution. **Re-align and consolidate** with funders.

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