



D4.4 Sustainable community of practice and repository of best practice resources

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QUANTUM summary	QUANTUM aims at developing and implementing a label mechanism that could be ideally adopted in the future HealthData@EU. QUANTUM builds on 5 technical work packages (WPs). WP1 conceptualises and provides technical specifications for a data quality, utility, and maturity label. WP2 designs and tests, at small-scale, the label. WP3 implements the labelling mechanism in a number of data holders. WP4 engages the data quality users' community; and, WP5 outreaches other interested parties, including other initiatives building HealthData@EU.
Deliverable abstract	This report describes the implementation of the QUANTUM Task 4.3 repository within the European Health Information Portal, outlining its structure, content, and role in supporting access to health data quality, utility, and maturity resources. It also details key implementation choices and scope adaptations, including interoperability considerations and the development of a curated, portal-integrated knowledge hub supporting a broader community of practice in the European Health Data Space.
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QUANTUM CONSORTIUM			
#	Short Name	Organisation Name	Country
1	IACS	INSTITUTO ARAGONÉS DE CIENCIAS DE LA SALUD	ES
2	Sciensano	SCIENSANO	BE
3	Health Data Hub	PLATEFORME DES DONNEES DE SANTE	FR
3.1	HOSPICES LYON	HOSPICES CIVILS DE LYON	FR
3.2	HOSP TOULOUSE	CENTRE HOSPITALIER UNIVERSITAIRE DE TOULOUSE	FR
3.3	CHU Bordeaux	CHU HOPITAUX DE BORDEAUX	FR
4	I-HD	THE EUROPEAN INSTITUTE FOR INNOVATION THROUGH HEALTH DATA	BE
5	UCSC	UNIVERSITÀ CATTOLICA DEL SACRO CUORE	IT
6	BBMRI-ERIC	BIOBANKS AND BIOMOLECULAR RESOURCES RESEARCH INFRASTRUCTURE CONSORTIUM	AT
7	DIGITALEUROPE	DIGITALEUROPE AISBL	BE
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9	UPV	UNIVERSITAT POLITECNICA DE VALENCIA	ES
10	HEALTH-RI	STICHTING HEALTH-RI	NL
11	EUHA	EUROPEAN UNIVERSITY HOSPITAL ALLIANCE	BE
12	AP-HP	ASSISTANCE PUBLIQUE HOPITAUX DE PARIS	FR
13	VIB	VIB VZW	BE
14	CIPH	HRVATSKI ZAVOD ZA JAVNO ZDRAVSTVO	HR
15	HUS	HUS-YHTYMA	FI
16	THL	TERVEYDEN JA HYVINVOINNIN LAITOS	FI
17	ECRIN	ECRIN EUROPEAN CLINICAL RESEARCH INFRASTRUCTURE NETWORK	FR
18	BFARM	BUNDESINSTITUT FÜR ARZNEIMITTEL UND MEDIZINPRODUKTE	DE
19	HIQA	HEALTH INFORMATION AND QUALITY AUTHORITY	IE
20	ISS	ISTITUTO SUPERIORE DI SANITA	IT
21	CESSDA ERIC	CESSDA ERIC	NO
21.1	KNAW	KONINKLIJKE NEDERLANDSE AKADEMIE VAN WETENSCHAPPEN - KNAW	NL
21.2	EKKE	ETHNIKO KENTRO KOINONIKON EREVNON	EL
22	e-helse	DIREKTORAT FOR E-HELSE	NO
23	U.PORTO	UNIVERSIDADE DO PORTO	PT
24	SPMS	SERVIÇOS PARTILHADOS DO MINISTÉRIO DA SAÚDE EPE	PT
25	NIJZ	NACIONALNI INSTITUT ZA JAVNO ZDRAVJE	SI
26	ERASMUS MC	ERASMUS UNIVERSITAIR MEDISCH CENTRUM ROTTERDAM	NL
27	EDHA	EUROPEAN DIGITAL HEALTH ACADEMY GGMBH	DE
28	HDR UK	HEALTH DATA RESEARCH UK	UK
29	UESSEX	UNIVERSITY OF ESSEX	UK
30	INSERM	INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE	FR



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List of Abbreviations and Acronyms

QUANTUM	Quality, Utility and Maturity Measured; Developing a Data Quality and Utility Label for HealthData@EU
EHDS	European Health Data Space
PHIRI	The Population Health Information Research Infrastructure
FAIR	Findable, Available, Interoperable, Reusable
W3C	The World Wide Web Consortium
DQU&M	Data Quality, Utility and Maturity
DQ&U	Data Quality and Utility

1. Introduction

The QUANTUM sustainable community of practice and repository of best practice resources has been developed within Work Package 4 of the QUANTUM project (Task 4.3) as a structured collection of resources supporting health data quality concepts in the context of the European Health Data Space (EHDS). It brings together conceptual frameworks, methodological guidance, tools, training materials, and practical resources produced within QUANTUM and related initiatives.

The repository is designed as a structured and searchable entry point for stakeholders involved in health data reuse, including data holders, data users, Health Data Access Bodies, policymakers, and other actors in the European health data ecosystem. It supports knowledge sharing, reuse of methodological outputs, and dissemination of best practices in a coherent and accessible format.

In order to ensure its long-term accessibility and integration within an established European infrastructure, the QUANTUM repository is hosted within the European Health Information Portal, which is hosted and maintained by Sciensano, Sciensano being also leader of the QUANTUM task 4.3 and responsible for the development and maintenance of the repository.

The European Health Information Portal ([European Health Information Portal](#)), developed within the Population Health Information Research Infrastructure (PHIRI) project, provides a central access point for health data, information, and methodological resources across Europe. Built on FAIR principles (Findable, Accessible, Interoperable, Reusable), it supports the reuse of health-related knowledge for research, policy-making, and public health action.

Within this broader platform, the section dedicated to Data Quality plays an important role by providing structured access to resources and insights from the QUANTUM project, supporting both the understanding and practical implementation of data quality concepts through curated guidance, tools, and methodological frameworks. It is designed to meet the needs of diverse EHDS stakeholders while contributing to the development of a common approach to data quality labelling. By bringing together definitions, recommendations, and practical resources in a single accessible environment, it enables the identification of datasets that are fit for purpose and trustworthy, while fostering a shared knowledge base and supporting the emergence of a community of practice around data quality.

The QUANTUM repository is accessible through this link:

<https://www.healthinformationportal.eu/data-services/data-quality-utility-and-maturity-quantum>

2. Implementation approach and evolution

The QUANTUM repository has been implemented as a structured and searchable resource within the European Health Information Portal website under Data Services in August 2024 as M4.2. of QUANTUM. This implementation ensures that QUANTUM outputs and related resources are accessible in a coherent, stable, and user-oriented environment, aligned with the broader objectives of long-term sustainability and reuse within the European health information ecosystem.

The repository is organised thematically to support intuitive navigation across its main content areas, including conceptual frameworks, methodological guidance, tools, training materials, and supporting documentation. This structure allows different stakeholder groups to access relevant materials according to their needs and level of expertise.

2.1 Technical set-up dimension

From a technical perspective, the repository is embedded within the existing infrastructure of the European Health Information Portal. It therefore relies on the portal's established content management and metadata framework for structuring, indexing, and presenting resources. This ensures operational continuity, maintainability, and consistency with other portal components. The initial design of Task 4.3 included an ambition to rely on W3C-based standards for structured publication and to enable programmatic harvesting across platforms and infrastructures. Rather than developing a standalone searchable repository with harvesting functionality, the content was integrated into the European Health Information Portal as a curated and structured knowledge hub. This decision improved usability, discoverability, and long-term sustainability by embedding QUANTUM outputs within an established European platform. The repository maintains the underlying objective of interoperability through structured and searchable content organisation and alignment with established portal-level metadata practices.

2.2 Community of practice dimension

In parallel, the community of practice dimension foreseen in Task 4.3 is reflected through the "Community and support" section of the repository, which provides access to FAQ and help desk content, as well as opportunities to contact the repository team and propose contributions. Within QUANTUM, this community dimension was mainly supported during the piloting phase through structured interaction mechanisms, including helpdesk and FAQ functions used to gather feedback and support early adopters of the QUANTUM DQU&M tool. Following the transition from piloting to broader dissemination, these mechanisms are no longer actively operated, but their content and outputs have been integrated into the repository and made available to the wider public. A further supporting element of the broader

community available in the repository is the Data Quality Guidelines for Health Data Holders, which translate the QUANTUM framework into operational guidance, examples, and reporting templates. By supporting a more consistent and shared interpretation of data quality and utility concepts across heterogeneous data holder contexts, the document contributes to the alignment of practices within the broader QUANTUM community and facilitates a common understanding of the label implementation. In its current form, the repository supports a broader community of users by providing open access to structured resources, enabling knowledge sharing and reuse across the European health data ecosystem, through the curation and organisation of QUANTUM outputs, the integration of selected external resources, and structured entry points for users to explore and reuse materials. Rather than operating as a fully interactive contribution platform, it supports knowledge exchange through curated dissemination and progressive engagement with the broader ecosystem.

The repository is maintained as a living resource, allowing updates and integration of new materials as QUANTUM outputs and related initiatives evolve.

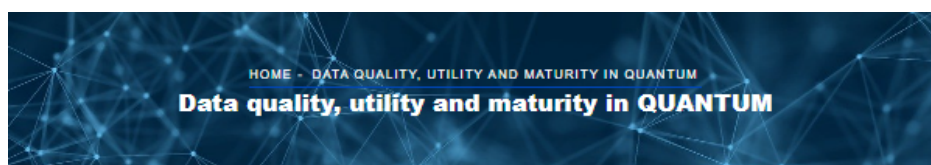
Overall, the implementation represents a pragmatic translation of the initial Task 4.3 concept into an operational environment, balancing architectural ambitions with sustainability, usability, and integration constraints.

3. Content of the repository

The repository is structured into five main thematic areas, designed to guide users from conceptual understanding to practical application:

- The core conceptual outputs of the QUANTUM project
- The data quality, utility and maturity assessment framework and technical documentation
- Data quality training opportunities
- A glossary
- A community and support page.

The repository's landing page (see Figure 1) helps users quickly navigate relevant thematic areas while also explaining the repository's purpose, highlighting the importance of data quality, briefly introducing the QUANTUM project, and guiding EHDS stakeholders to the content most relevant to their roles.



This page acts as a **repository** bringing together **resources** to support the understanding, assessment, and improvement of health data quality in the context of the **European Health Data Space (EHDS)**. Drawing on the outputs of the **QUANTUM project**, it provides access to concepts, tools, guidance, training materials, and practical resources related to health data quality, utility, and maturity.

Explore the repository

• [Results from QUANTUM](#)

Core outputs of the project, including: the definition of data quality and utility dimensions, the data holder maturity matrix, the "16-for-purpose" approach, the landscape analysis of tools and methods for data quality assessment.

• [The QUANTUM data quality & utility labelling tool](#)

Access to the tool, including: technical documentation • implementation guidance • practical examples • helpdesk resources.

• [Data quality training](#)

QUANTUM Academy and additional training resources covering data quality concepts, methods, practical applications for different stakeholder groups.

• [Glossary](#)

Definitions of key concepts and terminology used throughout the repository.

• [Community & support](#)

Frequently asked questions • contact points • opportunities to contribute to the repository.

About this repository

While grounded in QUANTUM outputs, the repository is also intended as a broader entry point to structured knowledge and practical resources on health data quality. It connects project results with relevant methods, approaches, and materials from the wider ecosystem, supporting a more comprehensive view of data quality across initiatives and contexts. Whether you are a **data holder**, **health data access body**, **researcher**, **polymaker**, **healthcare professional**, or other stakeholder working with health data, you will find resources tailored to different needs and levels of expertise.

Data quality in context

High-quality health data are essential for trustworthy research, evidence-informed policymaking, healthcare innovation, and public health monitoring. However, data quality is not a single concept. Depending on the intended use of data, different dimensions, such as completeness, consistency, timeliness, or relevance, may matter to different degrees.

In the context of **secondary use of health data** (e.g. research, policy making, innovation, public health analysis...), understanding and documenting data quality helps data holders improve their datasets and enables data users to assess whether data are fit for their intended use.

Beyond data quality itself, understanding the utility and maturity of datasets and organisations can support **more informed reuse and governance of health data**. This repository provides resources to better understand these concepts and how they can be assessed and documented.

QUANTUM in brief

QUANTUM is a Horizon Europe-funded project (2023–2026) working towards a **common European approach to describing the quality and utility of health datasets for secondary use**. In line with Article 76 of the European Health Data Space (EHDS) Regulation, the project aims to support the development of a data quality and utility labelling approach that can help researchers, policymakers, healthcare professionals, and other stakeholders better understand whether datasets are suitable for specific uses.



QUANTUM develops concepts, dimensions, methods, tools, guidance, and training materials to support the assessment and communication of health data quality, utility, and maturity.

This repository brings together selected outputs and practical resources developed through the project to support a broader understanding and adoption of good practices in health data quality. While developed within QUANTUM, these outputs are intended to support broader efforts across the health data ecosystem.

[Visit the QUANTUM project website](#)

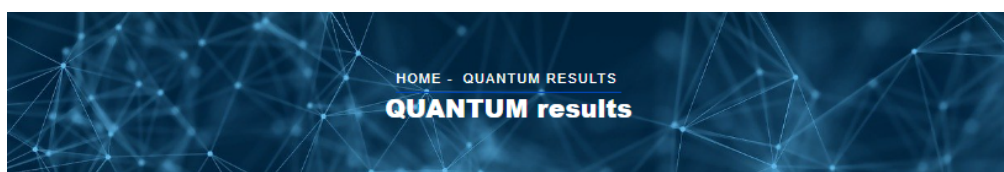
Find resources relevant to your needs

- **For health data holders:** Learn more about data quality dimensions, how to assess and document your datasets, and explore guidance, examples, and templates to support the implementation of the QUANTUM approach.
- **For health data users:** Understand how data quality and utility can support the identification of datasets fit for research and innovation purposes, and explore educational resources on data quality.
- **For Health Data Access Bodies (HDABs):** Explore the concepts, dimensions, and tools underpinning the QUANTUM approach to support understanding of data quality requirements in the EHDS context.
- **For patients and citizens:** Discover why health data quality matters for health research and innovation, and how high-quality health data can contribute to better evidence and public health outcomes.

Figure 1. The QUANTUM sustainable community of practice and repository of best practice resources landing page in European Health Information Portal.

3.1 QUANTUM project results

This section presents the core conceptual and methodological outputs of the QUANTUM project, forming the foundation of the data quality and utility labelling approach. The page structure with anchor links on top of the page and collapsible panes with detailed information is presented in Figure 2.



QUANTUM has developed a range of frameworks, methods, and tools to support the assessment of health data quality, utility, and organisational readiness within the European Health Data Space (EHDS). Explore the different components below to learn more about the project's key results.

- [1. Conceptualisation of data quality and utility](#)
- [2. Defining the Data Holders' Maturity Framework](#)
- [3. The QUANTUM fit-for-purpose approach](#)
- [4. Landscape analysis of existing data quality technologies and tools](#)

1. Data quality and utility dimensions

This section presents the data quality and utility dimensions developed within QUANTUM, which form the basis of the labelling approach. Starting from 54 dimensions identified through literature review and expert consultation, a Delphi consensus process led to a prioritised set of 26 dimensions and a final core set of 12. These dimensions describe key aspects of dataset quality and potential utility in the context of health data reuse within the European Health Data Space (EHDS). They are complemented by agreed metrics, value ranges, and weighting rules used to structure how dataset quality is measured and scored.



→ Further reading: [Deliverable 1.1 - Specification of the data sets' quality and utility label](#)

Figure 2. QUANTUM Result page structure presenting the navigation in the top part of the page and an example of the collapsible pain illustrating the 12 data quality dimensions. At the bottom of the section a link for further reading on the Data Quality dimension specification is offered.

This section includes:

- **Data quality and utility dimensions**
A structured set of the 12 QUANTUM Data Quality and Utility dimensions derived from literature review and expert consultation, refined through a Delphi process. These dimensions are complemented by metrics, value ranges, and weighting rules used for dataset quality measurement and scoring.
- **Data holders' maturity framework**
A structured model assessing the organisational readiness for managing data and data quality across 10 distinct dimensions and 5 maturity levels. It allows assessment at organisational level or, where relevant, at several workflow levels within an organisation.
- **Fit-for-purpose approach**
A complementary mechanism capturing user feedback on dataset utility in relation to specific analytical or policy purposes. The Fit-for-purpose approach facilitates dataset real-world utility assessment after use.
- **Landscape analysis of data quality tools and technologies**
A synthesis of existing tools, practices, and gaps in data quality assessment across European Data Holder institutions.

3.2 The QUANTUM data quality & utility labelling tool and supporting materials

This section provides access to the QUANTUM Data Quality, Utility and Maturity (DQU&M) labelling approach, including technical documentation, implementation guidance, and supporting materials. The aim is to provide a transparent understanding of the dataset's quality and utility, as well as related organisation or workflow maturity.

The section is divided into six chapters:

- **The Dataset quality and Utility (DQ&U) assessment**
An introduction to the QUANTUM Dataset Quality & Utility Assessment framework, designed to evaluate datasets intended for secondary use within the EHDS context. It supports data holders by outlining the four EHDS categories, along with the associated quality and utility dimensions and the metrics used in the assessment.
- **The Data holder maturity assessment tool**
An outline of the QUANTUM Maturity Assessment framework for evaluating the organisational maturity of data holders. It helps understanding of the assessed maturity dimensions, their definitions, and the levels used to report the maturity of an organisation's data management and data quality processes.
- **Github repository containing the technical documentation and guidance for the local installation of the tool**
Access point to the technical documentation of the QUANTUM DQU&M tool, including

information for local installation and deployment of the tool. The technical repository provides materials to run, reuse and further develop the tool.

- **Guidelines on how to use the QUANTUM tool**

A document offering practical guidance on how to assess and report dataset quality and utility within the QUANTUM framework. It operationalises the QUANTUM specifications through a set of examples, measurement approaches, and a data quality reporting template, as well as hands-on guidance on controls, checks, rules, criticality, and reporting logic.

- **Guidelines on how to interpret the RDF structure**

The initial RDF template for the QUANTUM DQU&M label, along with practical implementation examples. The template enables machine-readable dataset quality assessments using W3C standards (DCAT, DQV, SKOS, Open Annotation, PROV-O), supplemented by the custom QUANTUM qnt vocabulary.

- **QUANTUM tool in action: results from the piloting phase**

Result reports providing outcomes of the mid-scale pilot of the DQ&U tool among QUANTUM project partners.

These chapters feature link buttons that direct users to further information. Some sections are organised into distinct pages offering a more interactive and visually engaging alternative to text-heavy content (see Figure 3 for an example page on Dataset Quality and Utility Assessment). Ultimately, the technical documentation, guidance and practical examples compiled into this section aims to support the interpretation and application of the QUANTUM tool framework in real-world contexts.



QUALITY & UTILITY ASSESSMENT

This page presents the QUANTUM Dataset Quality & Utility Assessment framework for assessing datasets intended for secondary use in the EHDS context. It guides data holders through the four EHDS categories, the corresponding quality and utility dimensions, and the related metrics used to describe the dataset assessment. Open each category, dimension, and metric to view the definitions, recommended measurement approach, and available assessment levels that support consistent interpretation and reporting.

Unfold all

Fold all

	EHDS category	Dimension	Metric
1. Access and provision		1 dimension ^	
1.1 Accessibility		Dimension weight: 9.95% ^	
Definition: Accessibility refers to the dataset being accompanied by clear and transparent access and usage conditions.			
Metric #1 – Availability of a data access & usage policy at the time of release of the dataset		Metric weight: 50.00% ^	
Metric description: Availability of a data access & usage policy at the time of release of the dataset			
Recommended measurement approach: Preferably using a standard vocabulary as for example the DCAT property dot:accessRights			
AVAILABLE LEVELS			
0		No policy available	
1		Basic policy available	
2		Comprehensive policy available	
Metric #2 – Average time from data access application to data release for a specific dataset		Metric weight: 50.00% v	
2. Coverage		2 dimensions v	
3. Data documentation		3 dimensions v	
4. Technical quality		6 dimensions v	

Figure 3. Data Quality and Utility assessment page provides a more engaging user-experience to explore the dimensions employed in the quality and utility assessment, their metrics and the possible metric levels.

3.3 Data quality training

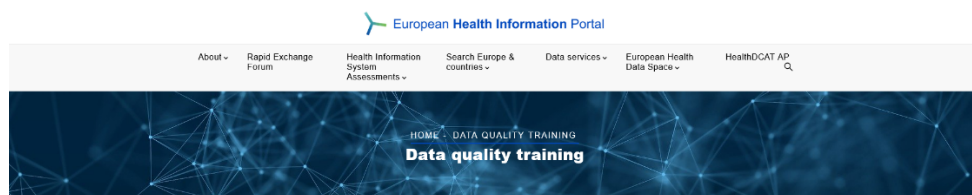
The section is dedicated to data quality training and provides learning resources through the QUANTUM Academy, complemented by external training materials. Figure 4

The QUANTUM Academy includes three modules:

- Introduction to health data quality, utility, and maturity
- Data quality components and specifications of the QUANTUM label
- Understanding, implementation, and interpretation of the label.

The curriculum is designed for different stakeholder groups, including data holders, data users, and Health Data Access Bodies, with flexible entry points depending on level of expertise.

In addition, external educational resources complement the QUANTUM training offer by providing additional learning materials on data quality concepts, methodologies, interoperability, and applied approaches in health data ecosystems. The repository users are invited to contribute to further extension of the external data quality training resources through the fifth main section of the QUANTUM repository, Community and Support.



This page supports capacity building in data quality across the health data ecosystem. It aims to strengthen a shared understanding of concepts, methods, and tools that ensure health data is reliable, standardised, and suitable for secondary use in research, policy development, and healthcare improvement within the European Health Data Space. It brings together structured learning resources covering data quality and secondary use of health data. These include training materials developed within the QUANTUM project, namely the QUANTUM Academy, as well as selected external resources that complement and extend the scope of the project content.

1. [QUANTUM Academy](#)
2. [External data quality training resources](#)

QUANTUM Academy

To support understanding of the QUANTUM Data Quality, Utility and Maturity Label, dedicated training is provided through the QUANTUM Academy. It offers structured learning materials, practical guidance, and project-specific insights to help users understand and apply the QUANTUM framework.



QUANTUM Academy Syllabus overview

1

Module 1: Introduction

- Chapter 1 - Introduction to health data quality, utility and maturity

2

Module 2: Data quality components in QUANTUM

- Chapter 2.1 - Specifications of the Quality and Utility label
- Chapter 2.2 - Data Holders' Maturity Model
- Chapter 2.3 - Fit for purpose

3

Module 3: Understanding of the label

- Chapter 3.1 - Tools and Methodologies
- Chapter 3.2 - Design and Development of the Label
- Chapter 3.3 - Implementing and Interpreting the Label
- Chapter 3.4 - Interaction with the QUANTUM Label

1 The QUANTUM Academy is currently hosted on the i-HD Academy platform. Enrolling will redirect you there to create an account and self-enrol.

The QUANTUM Academy curriculum targets Data Users, Data Holders, and Health Data Access Bodies (HDABs). It is designed to be broadly applicable while allowing users to explore content at different levels of depth depending on their needs.

The QUANTUM Academy is hosted by the **European Institute for Innovation through Health Data (i-HD)**, which was the QUANTUM partner in charge of leading this work package within the project. It is **free of charge**. The QUANTUM course can be accessed through the **i-HD Academy**, where registration and self-enrolment are necessary.

[Access QUANTUM Academy](#)

Further information:

- Stakeholder learning needs assessment mapped to learning objectives (QUANTUM deliverable 4.1)
- Online training courses and workshops for different stakeholder groups (QUANTUM deliverable 4.3)

External data quality training resources

To complement the QUANTUM Academy, a selection of external training resources is provided to support a broader understanding of data quality in secondary health data use. These resources are particularly useful for users new to the field or seeking to deepen their expertise.

The need for strengthened data quality understanding was confirmed in Deliverable D4.1 Stakeholder learning needs assessment mapped to learning objectives.

Below is a curated set of external training resources:

Resource	Provider	Description
data.europa.academy - The official portal for European Data	European Union	Open data, data quality and interoperability related courses
eujacademy - EU Academy section for Data, Digital & Technology	European Union	EU policies, initiatives and programmes aimed at exploiting the opportunities provided by data and digital and technological progress. Courses in semantical interoperability, DCAT, AP and its variations, DCAT-AP for Data Spaces
GO FAIR Media resources	GO FAIR	Explanation on FAIR (making data Findable, Accessible, Interoperable and Reusable), FAIR specifications and implementation examples
SUSA Campus	Sustainable Healthcare with Digital Health Data Competence	- Introduction on data quality - Data quality in a lifecycle approach - Data quality issues when data transformation (e.g. OMOP) - AI basics when training AI algorithms
EHDEN Academy	European Health Data and Evidence Network	Tools, Skills & Methods Training for Working with Real World Observational Data in Generating Evidence
eCancer e-learning platform	eCancer	E-learning to manage quality and consistency of cancer registry data across Europe.

Figure 4. Data quality training page is organised to primarily highlight the training offered in QUANTUM Academy, but also informing the repository community on further training publicly available.

3.4 Glossary

The Glossary section provides guidance on the terms and definitions used across QUANTUM project outputs and documentation. Its purpose is to support users in understanding the materials within the repository (see an example of glossary entries in Figure 5).



This glossary provides clear definitions for the core terms and concepts used across the QUANTUM project, based on the EHDS Regulation and project documentation.

A

Accessibility

Accessibility refers to the dataset being accompanied by clear and transparent access and usage conditions.
Source: [QUANTUM deliverable 1.1 Specification of the data sets' quality and utility label](#).

Accuracy

Accuracy refers to the degree to which observations correctly describe what it was designed to measure.
Source: [QUANTUM deliverable 1.1 Specification of the data sets' quality and utility label](#).

Article 78 of the EHDS Regulation

Article 78 establishes a Union data quality and utility label that may be provided by data holders and is mandatory for certain publicly funded datasets made available for secondary use via Health Data Access Bodies. The label standardises structured information on datasets, covering documentation, technical data quality, data quality management processes, coverage, access conditions, and data enrichments. In the context of QUANTUM, this provision is key as it creates the regulatory basis for a harmonised description of data quality and utility, which QUANTUM operationalises through its label to support transparent and comparable assessment of datasets used for secondary use.
Source: [EHDS Regulation, Article 78](#)

Figure 5: QUANTUM repository glossary page is alphabetised to aid finding different terms with ease.

3.5 Community of practice and support

This section (see figure 6) supports stakeholder engagement and implementation through:

- **Frequently asked questions about the QUANTUM tool**
A GitBook FAQ compiled from QUANTUM Helpdesk replies to QUANTUM project partners questions when piloting the DQU&M tool
- **Contact and support mechanisms**
Possibility to contact the team on questions related to the content of the repository.
- **Contribution pathways for users and stakeholders**
Possibility for community to contribute to the repository with their content that can complement the existing selection. This includes suggestions for additional external training resources, or highlighting emerging practices from early adopters

implementing the QUANTUM DQU&M labeling tool.

Essentially, the section supports the broader objective of building a sustainable community of practice around health data quality in Europe.



Frequently asked questions about the QUANTUM tool

QUANTUM Helpdesk was established during the QUANTUM Data Quality and Utility Tool piloting phase, when partners were exploring the tool use during the tool piloting phase. An FAQ was compiled during the piloting phase by replying to the questions raised by QUANTUM project partners when doing the hands-on assessment of the quality of their workflows and datasets with the QUANTUM Data Quality, Utility and Maturity tool, and making the replies available to a wider community.

[Explore the QUANTUM GitBook FAQ](#)

Contact points

In case you have any questions about the content presented on this repository, please don't hesitate to get in touch with us. We're happy to provide clarification, additional information, or address any concerns you may have. Simply click the button below to reach out to our team. To get more information on the QUANTUM project, please visit [the project website](#).

[Contact us about content](#)

Opportunities to contribute to the repository

If you have valuable and relevant content that you would like to see featured on this repository, we would love to hear from you. Whether it's insights, external training resources, or suggestions to improve, your contributions can help enrich the repository for everyone. Please use the "Contribute to the repository" function below to share your ideas with us.

[Contribute](#)

Figure 6. The section for community and support has an FAQ section established from QUANTUM tool pilot questions, and it offers two contact points for possible content-related questions and additional contributions from the extended community.

4. Conclusion

The QUANTUM repository supports the dissemination and reuse of project outputs while contributing to broader knowledge sharing within the European health data ecosystem. By combining conceptual frameworks, methodological guidance, training resources, and selected external materials, it creates a structured entry point that connects theoretical development with practical implementation and stakeholder capacity building.

The repository supports the dissemination of QUANTUM results, improved understanding of data quality, utility, and maturity concepts, and the reuse of methodological and training resources across stakeholder groups. It also contributes to alignment of approaches within the



European Health Data Space by providing a coherent and structured access point to key resources.

Implemented within the European Health Information Portal, the repository benefits from long-term accessibility, operational sustainability, and integration within an established European infrastructure. It is designed as a living resource, allowing continued updates and evolution in line with new project outputs and related initiatives.

Maintenance of the repository is ensured by Sciensano, supporting its long-term sustainability and continued availability as part of the European Health Information Portal. Updates to the materials will be made only if significant changes are expected.

Overall, the QUANTUM repository provides a structured and sustainable access point to key outputs, tools, and resources on health data quality, utility, and maturity. It strengthens shared understanding and supports the gradual development of a broader community of practice within the European Health Data Space.