



QUANTUM
THE HEALTH DATA QUALITY LABEL

D5.12

QUANTUM Final Event

Dissemination event 2

Agatha Latorre Redondo (DIGITALEUROPE)



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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 deliverable provides an overview of the QUANTUM Final Event. As the project approached its conclusion, the event served as the main forum for presenting QUANTUM's achievements and fostering dialogue on the future of health data quality and utility in Europe.
Keywords	Data Quality; EHDS; Dissemination; Stakeholders' engagement.

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QUANTUM CONSORTIUM			
#	Short Name	Organisation Name	Country
1	IACS	INSTITUTO ARAGONES 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	UNIVERSITA CATTOLICA DEL SACRO CUORE	IT
6	BBMRI-ERIC	BIOBANKS AND BIOMOLECULAR RESOURCES RESEARCH INFRASTRUCTURE CONSORTIUM	AT
7	DIGITALEUROPE	DIGITALEUROPE AISBL	BE
8	GÖG	GESUNDHEIT OSTERREICH GMBH	AT
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	SERVICOS PARTILHADOS DO MINISTERIO DA SAUDE 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

Accepted in Work Package Leaders' Group on XX/XX/XXXX.

The European Commission's evaluation determines the final approval of QUANTUM Deliverables.

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Developing a data quality and utility label for the European Health Data Space.

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List of Abbreviations and Acronyms

EHDS	European Health Data Space
IACS	Instituto Aragonés de Ciencias de la Salud
DG SANTE	Directorate-General for Health and Food Safety
AWS	Amazon Web Services
THL	Finnish Institute for Health and Welfare
UPV	Universitat Politècnica de Valencia

1 Introduction

This deliverable provides an overview of the QUANTUM Final Event, its programme, main takeaways and overall impression. As the project approached its conclusion, the event served as the main forum for presenting QUANTUM's achievements and fostering dialogue on the future of health data quality and utility in Europe.

2 Programme

The QUANTUM Final Event took place on 27–28 May 2026 in a hybrid format, bringing together participants both in Brussels and online. The event attracted significant interest, with 211 registrations from stakeholders outside the consortium. Online attendance reached 178 participants on Day 1 and 125 participants on Day 2, while 58 participants attended in person, including members of the QUANTUM consortium.

To maximise engagement and facilitate participation from consortium partners, the Final Event was strategically organised alongside the Work Package Leaders Meeting and the General Assembly. This approach contributed to strong attendance and provided an opportunity to combine project governance activities with broader stakeholder engagement and dissemination efforts.

For attendance monitoring purposes, a single attendance form was used for both days of the event. In addition, consortium members attending in person were asked, where possible, to sign the dedicated attendance sheets. This provided an additional record of participation that could be cross-checked against the attendance records of the General Assembly and Work Package Leaders Meeting, ensuring greater accuracy and consistency in reporting consortium participation across the different project activities.

A detailed overview of both in-person and online attendance is provided in Annex 1.

Day 1: 27 May 2026 | 14:30 - 18:30 CET

Day 2: 28 May 2026 | 8:00- 13:00 CET

The event brought together policymakers, researchers, healthcare professionals, industry representatives, patient organisations, and other stakeholders involved in the development and implementation of the European Health Data Space (EHDS). Through a combination of keynote presentations, panel discussions, demonstrations, and implementation case studies, participants explored the practical application of QUANTUM's results and their contribution to strengthening trust, interoperability, and data quality across Europe.

The event pursued four main objectives:

- **Showcase QUANTUM results:** Present pilots, outputs, and innovations in data quality and utility.
- **Engage stakeholders in practical application:** Demonstrate how QUANTUM tools and outputs can be used in diverse national, European, and institutional contexts.
- **Facilitate action-oriented dialogue:** Enable policymakers, researchers, regulators, and industry to define next steps for adoption and scale-up.
- **Strengthen collaboration networks:** Connect EU-level initiatives, national authorities, research infrastructures, and civil society for sustained impact.

**QUANTUM**
THE HEALTH DATA QUALITY LABEL

QUANTUM FINAL EVENT

COMET LOUISE, PL, STÉPHANIE 20, 1050 BRUXELLES, & ONLINE

AGENDA

WEDNESDAY
27.05.2026

14:30–14:45	OPENING
14:45–15:05	KEYNOTE: POLICY VISION FOR HEALTH DATA QUALITY IN EUROPE
15:05–15:30	QUANTUM PROJECT OVERVIEW
15:30–16:00	QUANTUM LABEL DEMONSTRATION
16:00–16:10	COFFEE BREAK 
16:10–17:05	POLICY IMPLICATIONS PANEL
17:05–17:20	KEYNOTE SPEECH INDUSTRY: THE ROLE OF DATA QUALITY UTILITY LABEL FOR THE INDUSTRY
17:20–18:20	QUANTUM'S ROLE IN THE EUROPEAN HEALTH DATA SPACE AND SYNERGIES WITH OTHER INITIATIVES
18:20–18:25	CLOSING
18:25–19:30	NETWORKING COCKTAIL

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Figure 1 Agenda Final Event Day 1



QUANTUM
FINAL EVENT

COMET LOUISE, PL, STÉPHANIE 20, 1050 BRUXELLES, & ONLINE

QUANTUM
THE HEALTH DATA QUALITY LABEL

AGENDA
THURSDAY
28.05.2026

08:30–09:00 **WELCOME**

09:00–09:05 **OPENING**

09:05–10:35 **CASE STUDIES: QUANTUM PILOTS & IMPLEMENTATION STORIES**

10:35–10:45 **COFFEE BREAK** 

10:45–11:30 **QUANTUM'S PROJECT AND PATIENTS FORUMS**

11:30–12:45 **2030: THE VISION FOR THE DATA QUALITY IN EUROPE**

12:45–13:00 **CLOSING SESSION: FROM QUANTUM TO WHAT'S NEXT**

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Figure 2 Agenda Final Event Day 2

2.1 Day 1 – 27 May 2026 | 14:30 - 18:30 CET

The event opened with welcome remarks from **Helena Lovegrove**, Senior Director for Projects and Operations at DIGITALEUROPE, **Enrique Bernal-Delgado**, Senior scientist in Health Services and Policy Research at the Instituto Aragonés de Ciencias de la Salud (IACS) and project coordinator, and **Fulvia Raffaelli**, Head of Unit, Digital Health, Directorate-General for Health and Food Safety (DG SANTE).

The speakers introduced the objectives of the final event and reflected on the project's contribution to improving health data quality and utility across Europe. The session also highlighted the importance of collaboration among policymakers, researchers, healthcare organisations, and industry stakeholders to support the implementation of the European Health Data Space (EHDS).



Figure 3 Welcome remarks from Helena Lovegrove



Figure 4 Welcome remarks from Enrique Bernal-Delgado

The opening keynote, delivered by **Fulvia Raffaelli**, presented the European Commission's policy vision for health data quality in Europe. The session explored the growing importance of trustworthy, interoperable, and high-quality health data for research, innovation, healthcare delivery, and policymaking. Particular attention was given to the role of data quality frameworks and labels in supporting the objectives of the EHDS.



Figure 5 Opening and keynote presentation by Fulvia Raffaelli

This was followed by a presentation from **Enrique Bernal-Delgado**, who provided a comprehensive overview of the QUANTUM project. The session summarised the project's objectives, methodology, key achievements, and outputs, while also outlining opportunities for sustaining and scaling its results beyond the project's lifetime.

A dedicated demonstration of the **QUANTUM Data Quality and Utility Label** was then delivered by **Claudio Proietti Mercuri**, Data Scientist at **Sciensano**. The objective of this session was to provide participants with a practical understanding of how the label functions in practice. Through a walkthrough of its methodology and assessment criteria, attendees gained insight into how the label can support transparency, comparability, and trust in health datasets intended for secondary use.



Figure 6 Practical demonstration of the QUANTUM Label by Claudio Proietti Mercuri

Following the coffee break, a policy-focused panel discussion examined the implications of QUANTUM's outputs for the future governance of health data in Europe. Moderated by **Enrique Bernal-Delgado**, the discussion brought together **Yin Cai** EMEA Healthcare Technical Business Development Manager for Precision Medicine at Amazon Web Services (AWS) **Jerome de Barros**, Project Officer, Digital Health, Directorate-General for Health and Food Safety (DG SANTE), and **Jérôme Fabiano** Strategic Analyst for Health Sectors at Numeum.

The panel explored how data quality and utility standards could be embedded into European and national governance frameworks, the incentives required to encourage adoption, and the regulatory considerations associated with scaling the label across HealthData@EU.



Figure 7 Policy implications panel

A keynote address from an industry perspective was delivered by **Dr. Yin Cai (Amazon Web Services)**.



Figure 8 Keynote on industry perspective by Yin Cai

The final panel of the day explored **QUANTUM's** role within the broader European Health

Data Space ecosystem. Moderated by **Anderson Carmo**, Senior Research and Innovation Manager at **DIGITALEUROPE**, the discussion featured **Elina Drakvik**, Senior Lead in International Programmes at **SITRA**, **Valentine Facque**, European & International Affairs Project Manager at **Health Data Hub**, and **Inge Franki**, EU Case Manager at the **Belgian Health Data Agency & Chair of subgroup HDAB CoP 5 (Deployment and Operations)**, Belgium.

The session examined how **QUANTUM** contributes to the implementation of Article 78 of the EHDS, supports interoperability efforts, and complements other European initiatives working towards a more integrated health data landscape. Particular emphasis was placed on identifying synergies, reducing fragmentation, and promoting the adoption of common standards and approaches.



Figure 9 Panel: QUANTUM's role within the European Health Data Space and synergies with other European initiatives

The first day concluded with closing remarks from **Enrique Bernal-Delgado**, who summarised the key messages emerging from the discussions and introduced the programme for the second day. Participants then continued exchanges during a networking cocktail.

2.2 Day 2 - 28 May 2026 | 8:00- 13:00 CET

The second day opened with introductory remarks from **Enrique Bernal-Delgado (IACS)**.

The first session focused on **real-world implementation experiences and pilot activities developed within the QUANTUM project**. Moderated by **Maria Ryan, Health Information Programme Manager** at the **Health Information Quality Authority (Ireland)**, and individual presentations were delivered by **Jan-Willem Boiten, Senior Program Manager** at **Lygature**, **Carlos Sáez Silvestre, Associate Professor** in the **Department of Applied Physics** at **Universitat Politècnica de Valencia (UPV)**, **Claudio Proietti Mercuri, Data Scientist** at **Sciensano**, and **Carlos Telleria-Orriols, Biocomputing Research and Health Data Science** at **Instituto Aragonés de Ciencias de la Salud (IACS)**, as well as a panel discussion right after.

The objective of this session was to demonstrate how the project's methodologies and tools were applied in practice across different contexts. Speakers, who were all part of the QUANTUM Consortium and implementation, presented experiences related to data quality assessment, utility and maturity criteria, institutional and research use cases, capacity-building activities, and community engagement efforts. The session also provided valuable lessons learned and practical recommendations for future implementation and scale-up.



Figure 10 Case Studies: QUANTUM Pilots & Implementation Stories

The event then moved to dedicated sessions presenting the outcomes of the **QUANTUM Project Forum** and the **QUANTUM Patients Forum**. Contributions from **Mari Mäkinen, Senior planning officer**, **Finnish Institute for Health and Welfare (THL)** and **Birgit Bauer, Founder & Managing Partner**, **European digital health academy gGmbH**, highlighted the importance of stakeholder involvement in shaping trustworthy and usable health data ecosystems. Discussions focused on governance considerations, user perspectives, trust-building measures,

and recommendations for improving data quality and usability within the EHDS framework.

The final panel discussion of the event looked ahead to the future of health data quality in Europe by 2030. Moderated by **Sara Marques**, PhD eHealth Project Manager at SPMS, the panel featured **Fidelia Cascini**, Head of the Scientific Secretariat, Presidency of the National Institute of Health, **Enrique Bernal-Delgado** (IACS), **Eric Lemaire**, Clinical Data Protection Program Director at Medtronic and **Jerome de Barros** (DG SANTE).



Figure 11 2030: The vision for the data quality in Europe panel

The discussion focused on the main barriers and opportunities associated with the widespread adoption of data quality and utility frameworks. Panellists explored the investments needed in infrastructure, governance, skills, and capacity building, while also identifying practical actions that could accelerate implementation and maximise the impact of labelled datasets across Europe. The session provided a forward-looking perspective on how the foundations established by QUANTUM could contribute to a more trusted and effective European health data ecosystem.

The event concluded with a closing session led by **Enrique Bernal-Delgado**, who summarised the main conclusions of the two-day event, reflected on the project's achievements, and outlined opportunities for continued collaboration and stakeholder engagement beyond the project's completion.

3 Main takeaways

Over the two days of the event, speakers and participants explored a broad range of topics related to the future of health data in Europe and the implementation of the European Health Data Space (EHDS). Beyond the broader discussions held during the event, several key takeaways emerged specifically in relation to the outputs, achievements, and future impact of the QUANTUM project. These are summarised below:

- **Data quality must become a foundational layer of the EHDS** - Data quality can no longer be treated as an isolated technical exercise. Its utility and maturity need to become foundational components of the digital health data ecosystem, supporting trust, interoperability, discoverability and responsible secondary use of health data.
- **The implementation of Article 78 requires practical and operational solutions** - QUANTUM demonstrated that data quality and utility label can be translated into practical methodologies, governance frameworks and deployable tools.
- **Interoperability and data quality must evolve together** - Data quality metadata should become an integral component of future interoperability frameworks rather than a separate layer.
- **Adoption depends as much on governance and capacity as on technology** - Successful deployment of data quality frameworks requires more than technical solutions, in addition they should include organisational readiness, governance structures, workforce skills, stakeholder engagement and institutional capacity building.
- **Collaboration across initiatives is essential to avoid fragmentation** - QUANTUM demonstrated the value of building common approaches and fostering synergies with parallel EHDS-related initiatives to maximise impact, reduce duplication and accelerate adoption across Europe.
- **Trust remains the key enabler for secondary use of health data** - Data quality labelling was recognised as an important mechanism to strengthen trust in health data reuse, through assessment mechanisms, governance frameworks and stakeholder involvement, such as patients and civil society.
- **QUANTUM has established foundations for a European data quality ecosystem beyond the project lifetime** - QUANTUM should not be viewed solely as a Horizon Europe project, but as a starting point for a broader European ecosystem around health data quality.

Moreover, to capture the key messages and atmosphere of the event, a dedicated video was produced following the QUANTUM Final Event. The video combines highlights from the two-day programme with interviews featuring Helena Lovegrove, Enrique Bernal-Delgado, and Fulvia Raffaelli, who reflect on the project's achievements, its contribution to the implementation of the European Health Data Space (EHDS), and the broader importance of data quality for the future of health data in Europe. As part of the event's dissemination and

communication activities, the video serves not only as a record of the final event but also as a promotional asset showcasing the overall impact, outcomes, and legacy of the QUANTUM project. The video can be accessed here: <https://www.youtube.com/watch?v=sBUnOwTCYtI>

4 Concluding remarks

In conclusion, the QUANTUM Final Event in Brussels served as a pivotal moment for advancing the dialogue and collaboration around data quality within the European Health Data Space. The event successfully highlighted the project's outcomes, key achievements, and the critical importance of data quality labels for enhancing trust and usability of health data. The strong engagement from policymakers, researchers, healthcare organisations, industry representatives, and patient groups demonstrated that the conversation has moved beyond conceptual discussions towards practical implementation. Overall, the event conveyed a sense of momentum, collaboration, and shared responsibility for building a sustainable European health data quality ecosystem beyond the lifetime of the project.