



European Cloud for Heritage Open Science

Milestone MS30

Publication of KPIs

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1. Overview

This milestone documents the publication and initial definition of the Key Performance Indicators (KPIs) developed within the project framework.

The KPI framework has been progressively established through project activities and is currently documented in two project deliverables addressing different monitoring needs and stages of project development.

At this stage, the KPI framework should be considered as an evolving reference framework. Further refinements and updates may be introduced as the project progresses and additional monitoring requirements are identified.

2. Project-Level KPIs

The first set of KPIs corresponds to the project-level monitoring framework defined to track progress against the project's Specific Objectives and Work Package activities.

These indicators are based on the Key Performance Indicators specified in Annex 1 of the Grant Agreement and are used to monitor the achievement of project objectives, deliverables, and milestones.

No	KPI	Description	Target at the end of the project
SO1: Develop Open-Source Infrastructure			
1	KPI 1.1 Data Quality and Monitoring	The Data Management Plan (DMP) is published and implemented correctly by all partners.	DMP published by Month 6; annual compliance monitored.
2	KPI 1.2 Single Entry Point (SEP)	The SEP is functional and adopted by cultural heritage communities.	Annual increase in access after launch.
3	KPI 1.3 Heritage Digital Twin (HDT) Availability	Number of HDTs accessible through the platform.	>5,000 HDTs available by Month 60.
4	KPI 1.4 HDT Quality	Number of HDTs processed by tools on the platform.	>2,000 HDTs processed by Month 60.
5	KPI 1.5 Vertical Applications (VAs) Availability	Number of VAs available online for stakeholders.	Accessible VAs by Month 48.

6	KPI 1.6 Software Tools	Number of interoperable software tools accessible via the platform.	Target: >20 tools available by Month 48.
7	KPI 1.7 Cloud Performance Monitoring	Operational monitoring tools for cloud components.	Target: Fully functional tools by Month 48.
SO2: Establish a Sustainable Legal Entity			
8	KPI 2.1 Founding Members	Number of founding members for the legal entity	>20 members.
9	KPI 2.2 Geographical Balance	Representation of founding members from diverse regions.	Members from >10 countries.
10	KPI 2.3 Community Engagement	Number of umbrella organizations involved.	>15 umbrella organizations.
11	KPI 2.4 Financial Viability	Financial contributions for long-term sustainability secured.	Sustainable budget by Month 60.
SO3: Build a Community of Stakeholders			
12	KPI 3.1 Inclusion of Pan-European Stakeholders	Number of engaged institutions and individuals.	>500 stakeholders.
13	KPI 3.2 ECCCH Dissemination Strategy	Number of visits to the project website and campaign reach.	>60,000 visits annually.
14	KPI 3.3 Training and Capacity Building	Number of training sessions and participants.	>10 sessions with >200 participants.
15	KPI 3.4 Cascading Grants	Diversity of cultural heritage stakeholders receiving funding.	At least 45 projects funded.
SO4: Integrate Results of Past and Current Initiatives			
16	KPI 4.1 Inventory and Gap Analysis	Number of initiatives mapped and integrated.	>50 initiatives.
17	KPI 4.2 Synergy Creation	Number of collaborative projects launched through integration.	>10 joint projects.

18	KPI 4.3 Coordination and Networking	Engagement with ECCCH-funded projects and initiatives.	90% participation in general meetings.
SO5: Foster Innovative Knowledge Co-Creation			
19	KPI 5.1 Multidisciplinary Collaboration	Number of collaborative scientific publications and outputs.	>50 peer-reviewed articles.
20	KPI 5.2 Data Reuse and Enrichment	Increase in the reuse and enrichment of data.	Measured through platform analytics and user feedback.
21	KPI 5.3 Inclusivity	Number of projects addressing diversity and socio-cultural challenges.	>10 community-based projects.
22	KPI 5.4 Metadata Enhancement	Improvement in metadata quality and accessibility.	Increased access and reuse by stakeholders.

Table 1: Project-level KPIs (Source: Deliverable D1.3, Section 2.3)

3. ECCCH Strategic and Long-term Monitoring KPIs

The second set of KPIs corresponds to the strategic monitoring framework developed for the European Collaborative Cloud for Cultural Heritage (ECCCH).

These indicators focus on monitoring ecosystem growth, participation, reuse, collaboration, perceived value, and longer-term impact. They complement the project-level KPIs by providing a strategic perspective on the development and sustainability of the ECCCH.

ECCCH-KPI1	Number of interoperable resources and services accessible through the ECCCH.
DESCRIPTION & RATIONALE	
It captures the extent to which the ECCCH succeeds in making interoperable data, applications, and services available through the cloud. It provides a high-level indication of growth of the ecosystem and of progress in interoperability and service uptake.	
POTENTIAL SUB-INDICATORS & EXAMPLES	
• Number of HDTs available. • Number of vertical applications available. • Number of interoperable software tools. • Number of shared services exposed through the platform.	

ECCCH-KPI2 Number of institutions, projects, and stakeholders actively participating in the ECCCH**DESCRIPTION & RATIONALE**

It captures the breadth of participation in the ecosystem, including institutional and individual engagement. It reflects whether the ECCCH is effectively reducing barriers to participation and fostering equitable collaboration across scales, domains, and countries.

POTENTIAL SUB-INDICATORS & EXAMPLES

- Number of engaged institutions and individuals.
- Number of founding members (legal entity).
- Number of umbrella organizations involved.
- Participation of funded projects or external contributors.

ECCCH-KPI3 Number of training, engagement, and capacity-building activities and their participants**DESCRIPTION & RATIONALE**

It captures the extent to which the ECCCH supports the uptake and effective use of its resources through training and community-facing services. It is particularly relevant for assessing broader and more inclusive participation.

POTENTIAL SUB-INDICATORS & EXAMPLES

- Number of training sessions, workshops, and webinars.
- Number of other engagement events.
- Total number of participants reached.

ECCCH-KPI4 Number of Heritage Digital Twins and other enriched knowledge objects actively used or processed through the ECCCH**DESCRIPTION & RATIONALE**

It captures the extent to which the ECCCH is supporting the co-creation, enrichment, stewardship, and operational use of Heritage Digital Twins and related knowledge objects.

POTENTIAL SUB-INDICATORS & EXAMPLES

- Number of HDTs accessible through the cloud.
- Number of HDTs processed by ECCCH tools or workflows.

ECCCH-KPI5 Number of collaborative outputs enabled by the ECCCH**DESCRIPTION & RATIONALE**

It captures the extent to which the ECCCH supports collaboration and knowledge co-creation across institutions and disciplines.

POTENTIAL SUB-INDICATORS & EXAMPLES

- Collaborative scientific publications.
- Jointly developed tools or services.
- Co-creation projects between stakeholder groups.
- Collaborative initiatives launched through the cloud.

ECCCH-KPI6 Number of reusable open resources made available through the ECCCH**DESCRIPTION & RATIONALE**

It captures the extent to which the ECCCH advances trusted and reusable openness.

POTENTIAL SUB-INDICATORS & EXAMPLES

- Open datasets.
- Open-source tools.
- Openly documented services.
- Publicly available documentation and resources supporting reuse.

ECCCH-KPI7 Sustainability readiness of the ECCCH legal and organizational framework**DESCRIPTION & RATIONALE**

It captures whether the ECCCH is progressing toward sustainable long-term operation beyond project funding. Currently milestone-oriented, more detailed KPIs developed in WP11 will be integrated later.

POTENTIAL SUB-INDICATORS & EXAMPLES • Number of founding members. • Geographical balance of membership. • Existence of a sustainable budget model. • Evidence of institutional commitment.	
ECCCH-KPI8 Extent of meaningful reuse of ECCCH resources and services.	
DESCRIPTION & RATIONALE It captures whether ECCCH resources and services are not only available, but are actually reused in research, professional workflows, applications, training activities, or collaborative initiatives. It strengthens the outcome-oriented dimension of strategic monitoring.	
POTENTIAL SUB-INDICATORS & EXAMPLES • Integration into workflows. • Repeated use in projects. • Reuse in external applications. • Documented cases of adoption in research and professional practice.	
ECCCH-KPI9 Reported usefulness and value of ECCCH resources and services for target communities	
DESCRIPTION & RATIONALE It captures the extent to which ECCCH resources and services are perceived as useful and valuable by their intended users and communities. It is particularly important because scale and access alone do not prove meaningful benefits to its users.	
POTENTIAL SUB-INDICATORS & EXAMPLES • Questionnaires and pilot evaluations. • Training feedback forms. • Assessment activities addressing relevance, usefulness, and contribution to work or research practice. • Overall perceived value.	
ECCCH-KPI10 Extent of ECCCH-supported collaboration across institutions, disciplines, and communities.	
DESCRIPTION & RATIONALE It captures collaboration outcomes enabled or strengthened by the ECCCH. It moves beyond simple counts of participants to assess whether the ECCCH is strengthening collaboration across the ecosystem. Its implementation could benefit from the EOSC Partnership Monitoring Framework (EC and EOSC Association, 2024).	
POTENTIAL SUB-INDICATORS & EXAMPLES • Joint initiatives, co-created outputs. • Cross-institutional reuse of resources. • Shared workflows. • Network-level collaboration indicators derived from participation and usage data.	
ECCCH-KPI11 Scientific and professional outputs enabled by the ECCCH.	
DESCRIPTION & RATIONALE It captures the contribution of the ECCCH to scientific excellence and to professional knowledge creation and reuse.	
POTENTIAL SUB-INDICATORS & EXAMPLES • Scientific publications. • Documented research outputs. • Professional reuse cases. • Other outputs that make significant use of ECCCH resources or services.	

Table 2: ECCCH Strategic Monitoring KPIs (Source: Deliverable D9.1, Section 6.10.3)

4. Link Between the Two KPI Sets

The two KPI sets address different monitoring levels and should therefore be considered complementary.

The Project-Level KPIs focus on monitoring project implementation, achievement of deliverables, milestones, and specific objectives throughout the project lifecycle.

The ECCCH Strategic Monitoring KPIs focus on the longer-term performance and development of the ECCCH ecosystem, including adoption, engagement, collaboration, and impact.

As a result, the two KPI frameworks correspond to different stages and dimensions of project monitoring and together provide a comprehensive basis for performance assessment.

Conclusion

This document consolidates the KPI frameworks currently established within the project and published in the relevant project deliverables.

The presented KPI sets address complementary monitoring dimensions: project implementation and strategic monitoring of the ECCCH ecosystem. Together, they provide the basis for measuring project progress, monitoring achievement of objectives, and assessing the development and long-term impact of the ECCCH.

As the project evolves, these KPI frameworks may be further refined and expanded in accordance with the activities of the relevant Work Packages and future project requirements.

The milestone "Publication of KPIs" is therefore considered achieved through the publication and dissemination of the KPI frameworks documented in Deliverable 1.3 and later on in Deliverable 9.1.

References

- [Deliverable D1.3 – Quality and Risk Management Plan, 05/2026, ECHOES.](#)
- [Deliverable D9.1 – Evaluation Framework, 05/2026, ECHOES.](#)