



**Health  
Data Access  
Body-NL**

*Denk mee. Praat mee. Bouw mee.*

**Project acronym:** HDAB-NL

**Project title:** *Establishing the coordinating Health Data Access Body in the Netherlands and its supporting digital business capabilities*

**Number of grant agreement:** 101128662

**Call identifier/ID of the action:**

**Topic:** D3.1: Report on the action level indicators framework

**Starting date of the project:** December 31<sup>st</sup> 2023

**Duration of the project:** 4 years (dec. 31<sup>st</sup> 2027)

**Work package (task):** Work Package 3: evaluation

**Submission date of deliverable:** 30-06-2025

**Dissemination level:** PU- Public



**Co-funded by the  
European Union**

*Co-funded by the European Union. Views and opinions expressed are however those of the author(s) only and do not necessarily reflect those of the European Union or the European Health and Digital Executive Agency. Neither*

*the European Union nor the granting authority can be held responsible for them.*

## 1. Executive summary

This deliverable presents a synthesis of HDAB-NL Work Package 3: Evaluation, incorporating the indicators framework (Milestone 13), the initial survey conducted in month 6 (May 2024), and the follow-up survey from month 18 (April 2025). As its title suggests, this horizontal work package assesses the project's overall progress over the course of its execution: does the project achieve the results as outlined in the Direct Grant? To this end, an indicator framework was developed in Q1 2024, defining both overall project progress metrics and specific targets for individual work packages. These indicators are assessed through four surveys rounds conducted by the Work Package leaders, of which this Deliverable covers the first two rounds (month 6 and month 18). Consequently, the document offers an overview of the project's current progress and highlights areas that may require improvement, which will be assessed against the outcomes of the subsequent survey rounds scheduled for May 2026 (month 30) and May 2027 (month 42).

The results from the first two survey rounds indicate a consistent increase in overall satisfaction across all four predefined aspects of the project. Coordination and internal teamwork received particularly high ratings, while internal communication also improved steadily over the first year. However, satisfaction with the project's overall progress remains the lowest-rated aspect in both surveys. Despite this, several respondents acknowledged recent improvements in this area, citing increased efforts to define concrete steps for iterating and piloting the Minimum Viable Products (MVPs). Other key challenges include dependencies on external initiatives with misaligned deadlines, the need for continuous stakeholder engagement, and turnover in key positions.

Regarding the metrics for individual work packages, the Deliverable assessed a total of 84 indicators related to individual work packages. These include on-time Delivery of Milestones and deliverables, status of upcoming publications, and methodologies applied to achieve predefined objectives. Overall, the results are positive, with some room for improvement: 64 indicators were met or on track, 16 indicators were partially met, and 4 indicators were not met. Work Package leaders provided valid explanations for all deviations in unmet and partially met indicators. These include dependencies on external document publication, timing of stakeholder engagement

---

Disclaimer: ongeoorloofd hergebruik van dit document zonder context of toestemming van het HDAB-NL programma is verboden. De publicatie van dit document op de website [openvws.nl](https://openvws.nl) is uitsluitend ter informatie en is uitdrukkelijk geen onderdeel van een formele feedbackronde.

activities, and the observation that some indicators are only relevant at later stages of the project or are nearing completion.

Taking these findings into account, the next step for Work Package 3: Evaluation is to discuss with the project coordination team, work package leaders, and Tactical Committee targeted actions to address the identified challenges. The first of these meetings is scheduled for the next quarterly meeting in July 2025. Progress and the effectiveness of these measures will be monitored and assessed in the next survey round scheduled for May 2026.

## 2. Table of contents

1.	Executive summary .....	2
2.	Table of contents .....	4
3.	Introduction.....	5
3.1.	The European Health Data Space.....	5
3.2.	The Dutch Context.....	5
3.3.	HDAB-NL.....	6
4.	Methodology.....	6
4.1.	Structure of Work Package 3: Evaluation.....	7
4.2.	Evaluation framework.....	8
4.3.	Survey rounds .....	11
5.	Survey results.....	12
5.1.	General questions progress HDAB-NL.....	13
5.2.	Work package specific questions.....	21
6.	Conclusion.....	39
7.	Bibliography.....	41
8.	Annex i: list of indicators per work package.....	43
9.	Annex ii: questionnaire baseline survey (month 6).....	57
9.1.	General questions HDAB-NL.....	57
9.2.	Work package specific questions.....	57
10.	Annex iii: questionnaire first periodic survey (month 18).....	66
10.1.	General questions HDAB-NL.....	66
10.2.	Work package specific questions.....	66
11.	Annex iv: categorisation action-level indicators Grant Agreement.....	86

## 3. Introduction

### 3.1. The European Health Data Space

As outlined in the *European Strategy for Data*, published in February 2020, the European Commission is committed to implementing a single market for data, which enables the European Union to harness the increasing volumes of data generated across its Member States. This vision entails the seamless movement of data across nine sectoral domains, referred to as “data spaces”, both within and between Member States, in full alignment with European values, including strict adherence to data protection laws and respect for fundamental human rights (1).

Regarding health data — one of the proposed sectoral data spaces — persistent challenges hinder the sharing of data for both the direct provision of healthcare, primary use, and usage beyond the initial purpose for which data was collected: secondary use. Indeed, the fragmented regulatory landscape across Europe, characterised by divergent national rules on data access, data sharing, and secondary use, coupled with a lack of interoperability, significantly impedes the effective use of health data. Therefore, these barriers limit the potential for research and innovation in both national and cross-border contexts, affecting medical professionals, patients, researchers, and policymakers alike (2)(3)(4).

To enhance the availability of health data for both primary and secondary use, the European Commission introduced a proposal for the European Health Data Space (EHDS) on 3 May 2022 (5). Following the political agreement reached in the trilogue, the EHDS was published in the *Official Journal of the European Union* on 5 March 2025. It will enter into force 20 days after publication, on 25 March 2025 (6).

For secondary use, the EHDS introduces a new infrastructure, *HealthData@EU*, which will operate alongside the existing *MyHealth@EU* framework designed for primary use. Moreover, the EHDS Regulation will require Member States to establish a national (or coordinating) Health Data Access Body (HDAB). This public entity—or multiple entities, depending on national implementation—will facilitate the secondary use of health data at both national and cross-border levels. It will do so by enhancing the discoverability of health data through a central metadata catalogue, standardising procedures for data permits, and ensuring access to secure processing environments. In sum, the HDAB will serve as an intermediary between fragmented data holders and data users seeking to utilise health data for secondary purposes, such as research and innovation.

### 3.2. The Dutch Context

Several Member States have already established public institutes similar to an HDAB in recent years, while others have expressed interest in doing so in the future (7)(8)(9)(10)(11). Any such

body must possess a set of digital business capabilities to effectively manage core operational functions. These include:

- A national Data Access Application Management System (DAAMs)
- A National Dataset Catalogue (NDC)
- Support for the use of a Secure Processing Environment (SPE)
- Interoperability with the proposed HealthData@EU infrastructure

In the case of the Netherlands, there is a clear need to establish a Dutch Health Data Access Body (HDAB-NL) to develop an integrated health information system and align with the ambitious objectives of the EHDS. While the Dutch national health data landscape is rich in datasets, it remains highly fragmented and disaggregated. Various domain-specific public and private sector entities currently function as de facto health data access bodies for the datasets under their control (12).

This fragmentation significantly hampers the secondary use of health data at both the national and cross-border levels. Combining or accessing datasets from different Dutch data holders proves challenging due to diverging interpretations of the GDPR, inconsistencies in data permit procedures, a lack of interoperability between information systems, poor findability of relevant datasets, and a general lack of transparency regarding pricing and procedures (13).

### **3.3. HDAB-NL**

With support from Direct Grant 2022-DGA-MS-IBA2 under the EU4Health project, the four-year HDAB-NL project was created with the task of initiating a decision-making process leading to the establishment of HDAB-NL and a National Contact Point for the secondary use of health data (NCP2) to connect The Netherlands to the proposed HealthData@EU infrastructure (14). Additionally, the project aims to develop the four necessary digital business capabilities mentioned previously. The project is a collaborative effort between the Dutch Ministry of Health, Welfare, and Sport VWS (Volksgezondheid, Welzijn en Sport), Stichting ICTU, Statistics Netherlands CBS (Centraal Bureau voor de Statistiek), the Dutch National Institute for Public Health and the Environment RIVM (Rijksinstituut voor Volksgezondheid en Milieu), and Stichting Health-RI. The project contains ten work packages, of which four run horizontally across the project (Work Packages 1 to 4), four deal with the development of the necessary digital business capabilities (Work Packages 5 to 8, or technical work packages), one work package aims to enhance data quality (Work Package 9), and one will write an implementation plan on the formal establishment of a coordinating HDAB and NCP2 (Work Package 10):

- Work Package 1: Management and Coordination (coordinator ICTU)
- Work Package 2:
  - 2a: Dissemination (coordinator VWS)

- 2b: Training and Support (coordinator Health-RI)
- **Work Package 3: Evaluation (coordinator RIVM)**
- Work Package 4: Sustainability (coordinator RIVM)
- Work Package 5: National Data Access Application Management System (DAAMs) (coordinator CBS)
- Work Package 6: National Dataset Catalogue (coordinator Health-RI)
- Work Package 7: Secure Processing Environments (coordinator CBS)
- Work Package 8 Infrastructural Solutions (coordinator ICTU)
- Work Package 9: Data Quality Enhancement (coordinator RIVM)
- Work Package 10: Establishment of a Coordinating Health Data Access Body (coordinator VWS)

## 4. Methodology

### 4.1. Structure of Work Package 3: Evaluation

This document is the first Deliverable of HDAB-NL Work Package 3: Evaluation (Deliverable 3.1). As indicated by its title, this horizontal work package is designed to assess the execution of the HDAB-NL project, with particular emphasis on digital business capabilities (Work Packages 5 to 8).

The objective of this work package is to evaluate the overall progress of the project: does it achieve the results and produce the deliverables outlined in the Direct Grant application? This assessment is conducted through periodic evaluations of both the project's objectives (targets) and the activities undertaken within each work package. The evaluation is structured around the following four key documents:

- Milestone 13: Definition indicators framework (deadline 31/05/2024)
- Deliverable 3.1: Report on the indicators framework (deadline 31/06/2025)
- Milestone 14: Overall evaluation of the project (deadline 31/07/2027)
- Deliverable 3.2: Overall evaluation report (deadline 01/10/2027)

In May of last year, Work Package 3 completed Milestone 13 (15), which focused on establishing a methodology for the internal review process (see sections 4.2 and 4.3) and developing an indicators framework, in close consultation with the work package leaders, to assess the project's progress (see Annex i). Additionally, the Milestone included a baseline survey (month 6), containing questions on the overall progress of the project and work package-specific questions (see section 5.1 and annex ii). This Deliverable builds upon the work completed in Milestone 13 by

incorporating a new survey round (month 18) to assess the progress made in 2024 and compare the results with the abovementioned baseline survey.

## 4.2. Evaluation framework

The evaluation framework of HDAB-NL Work Package 3 mainly uses a quantitative approach based on the Input-Process-Output-Outcome (IPOO) method of quality assurance (16). It incorporates insights from past European-funded projects, such as the Joint Action Towards a European Health Data Space (JA TEHDAS from 2021 to 2023) and the Joint Action Information for Action (JA InfAct from 2018 to 2021) (17)(18). Three types of indicators are used:

- Process indicators
- Output indicators
- Outcome indicators

### Process indicators

Process indicators aim to assess the quality of the methodology (process) used in each work package to reach their pre-defined objectives, e.g., has all relevant literature been analysed, or have expert stakeholders been consulted when developing a pilot for one of the business capabilities? Each technical work package follows a structured temporal approach divided into three phases – project months 1 to 16 (phase 1 – requirements & design), months 17 to 32 (phase 2 – prototype), and months 33 to 48 (phase 3 – operational). To reduce the workload for work package leaders when reporting on progress, a maximum of five process indicators per phase for these work packages (5 to 8) was decided upon.

Other work packages may have more process indicators depending on the methodology used to reach specific objectives. Additionally, it quickly became apparent that developing process indicators and defining target values at the start of the project (Q1 2024) would be challenging for most work packages, as the most appropriate methodology will depend on the initial set of Deliverables, which are scheduled between Q4 2024 and Q4 2025. Therefore, these indicators will be formulated together with the relevant work package leaders at a later stage of the project, most likely in Q3 to Q4 2025 (see also section 4.3 below).

### Output indicators

Output indicators refer to the delivery of products, which are further specified as the timely publication of Milestones within each work package, in line with the European deadline stated in the project's Grant Agreement. In some instances, the Deliverable's publication served as an output indicator, depending on the document's content — that is, whether the Deliverable produces a tangible, conclusive result or merely measures progress towards this result. In the latter case, the Deliverable was then classified as an *output indicator*, as elaborated below.

## Outcome indicators

Outcome indicators refer to the degree to which the HDAB-NL project is having its intended effects, e.g., are the proposed business capabilities implemented as intended? Carrying out such an analysis poses a challenge because Work Package 3 is only active for the duration of the HDAB-NL project (2023 to 2027), serving as a real-time assessment of its progress rather than an *ex-post* analysis. Much of the work of HDAB-NL, however, will likely come to full fruition after the project's conclusion, with the comprehensive implementation of the EHDS in 2029 and additional data on the performance of each business capability following the publication of the final Deliverables. Therefore, it was decided to use the following indicators as a proxy for outcomes:

- The on-time publication of Deliverables as a final tangible product in line with other European projects, such as the evaluation work package of JA TEHDAS
- The number of views of relevant Deliverables on the dedicated HDAB-NL online webpage 'Zorgbrede Community'
- An aggregated score from the internal assessment of the pilots (phase 2 between months 17 to 32 and phase 3 between months 33 to 48) in each of the four technical work packages
- The action-level indicators as described on pages 8 to 9 in Annex 1B to the Grant Agreement and section F to the call for proposal Direct Grants to Member State's authorities (EU4H-2022-DGA-MS-IBA2). These eighteen indicators have been categorised according to the relevant work packages and included in the indicator annexes (see also annex iv for a categorisation of the indicators).

## The evaluation of Work Packages 1 and 3

Work Packages 1 (Management and Coordination) and 3 (Evaluation) do not apply the distinction of process-output-outcome as mentioned above. For work package 1, the decision was made to base the indicators on the respective objectives of the work package, namely:

- High quality project management (O.1.1)
- Timely and robust financial management (O.1.2)
- Sound internal communication (O.1.3)
- Timely delivery of Milestones and Deliverables (O.1.4)

Notably, as the coordinator of HDAB-NL, Work Package 1 also provides relevant input from various sources for the project's evaluation, alongside the efforts of Work Package 3 (19). First, the Work Package created a bimonthly progress analysis to report to the project's Steering Committee consisting of seven indicators based on the objectives from the Grant Agreement:

- Results (milestones & deliverables)
- Planning
- Financial management (timely & robust)

- Collaboration & communication
- Activities
- Risk & issues
- Relevant developments

Each work package leader is required to complete the report and assign its status using the so-called 'traffic light model', in which red stands for 'immediate action required', orange stands for 'attention needed', and green stands for 'everything is going according to plan'.

Second, the consortium partners are required to report monthly insights into financial expenses to Work Package 1. Strategic insights into financial alignment are discussed in the Tactical Committee, in which all consortium partners are represented. This Committee likewise evaluates the overall progress of the project once per half year, whereas the project's Steering Committee does so annually. The work package leaders conduct a similar review on a quarterly basis.

Third, an extensive review process was established, in which version 0.85 of a Deliverable is reviewed by two other work packages using a pre-defined template. After incorporating the feedback, the Deliverable is sent to the aforementioned Tactical Committee, who give the final approval on whether the document is ready to be sent to the European Commission. This process is initiated approximately six to eight weeks before the European deadline as stated in the Grant Agreement.

Last, Work Package 1 has established a societal advisory council and an expert panel as formal advisory boards in Q4 2024, with kick-offs in Q1 2025. The former comprises various representatives of societal interests and provides both solicited and unsolicited advice on social issues related to HDAB-NL. They meet quarterly, preferably on-site, and any feedback is integrated into the annual Deliverables from Work Package 1. The latter comprises individuals with diverse technical expertise and provides solicited and unsolicited advice regarding digital business capabilities on themes spanning multiple business capabilities. They meet online.

Regarding Work Package 3, only the timely delivery of Milestones and Deliverables, in accordance with the European deadline, will be monitored in the future as tangible evidence to assess the performance of this work package.

#### Developing indicators and target values

The indicators framework used in project phase 1 (requirements & design: months 1 to 16) with corresponding target values (see Annex i), was formulated through an iterative process in Q1 of 2024. More specifically, the Work Package 3 coordinators analysed all work package plans and drafted the initial version of the indicators in Microsoft Excel. This draft was subsequently used in bilateral meetings between the Work Package 3 coordinators and the coordinators of other work

packages to discuss the overall aim of the evaluation, refine the indicators, and deliberate on potential target values.

Additionally, a kick-off meeting with all HDAB-NL consortium partners on 11 March 2024 was held to further clarify the evaluation process, the survey rounds (see subsequent section), the division of labour between consortium partners, and to discuss deadlines for the final version of the indicators and target values.

Finally, an online survey was developed in Microsoft Forms, which will be used in the future to compare progress across different survey rounds and reflect on the project's overall progress as a method for assessing the performance of Work Package 1.

For project phases 2 (prototype: months 17 to 32) and 3 (operational: months 33 to 48), indicators and target values will be developed in Q2 of 2025 and 2026, respectively, using the same methodology as described above. However, as the project delivers more tangible results through the completion of Minimum Viable Products (MVPs) in 2026 and operational services in 2027, the focus on the internal evaluation of digital business capabilities will become increasingly important. Work Package 3 will assist the technical work packages in establishing a streamlined review process for these products, though the lion's share of the review will rest within each work package's own technical review.

### **4.3. Survey rounds**

As work package 3 aims to perform monitoring activities using periodic evaluations, relevant data for the Milestones and Deliverables is collected using concise online surveys to be filled in by the respective work package leaders in the following months of the project:

- Month 6 (May 2024)
- Month 18 (April 2025)
- Month 30 (May 2026)
- Month 42 (May 2027)

#### **Month 6 survey**

The Month 6 survey (May 2024) served as a baseline measurement to provide an initial overview of the progress made within the first months of the HDAB-NL project (see Annex ii for the questionnaire and section 5.1 for the findings). This survey should be regarded as a simplified version of those used in subsequent rounds, as it does not yet include questions on process indicators. Instead, it focuses on the overall progress of the HDAB-NL project and its advancement towards the first Milestones and Deliverables of each work package. Including questions on process indicators in Q1 2024 was deemed premature for most work packages.

Additionally, the Month 6 survey contains a set of questions about the overall progress of the HDAB-NL project to be used for the evaluation of Work Package 1, and some room for open questions (qualitative method) for any other suggestions from the work package leaders.

#### Month 18 survey

The Month 18 survey (April 2025) included, in addition to the aforementioned questions on the overall progress of HDAB-NL and space for suggestions, a more detailed assessment of the progress on relevant process indicators and the delivery of Milestones and Deliverables, as well as a question on suggestions for quality assessment indicators as part of the delivery of the MVPs in phase 2 of the project.

Two relevant points regarding this survey should be noted. First, although it is referred to as the 'Month 18 survey', it was conducted in April 2025 (month 17) rather than May 2025 to align with the European deadline for this Deliverable on 30 June 2025. This adjustment also accounts for the thorough review process of all HDAB-NL Deliverables, including the current document, as described in the previous section.

Second, while the initial aim was to include indicators for phase 2 in this Deliverable, this proved unattainable. At the time of writing, the technical work packages were still in the process of formulating the content of the MVP, including the necessary internal review. To avoid imposing an unnecessary burden on work package leaders and generating irrelevant indicators, it was decided to establish these indicators after the publication of this Deliverable.

#### Month 30 and month 42 surveys

The subsequent survey rounds in month 30 (May 2026) will follow the same structure as the Month 18 survey, with the additional aim of formulating process indicators for project phase 3. The final survey in month 42 (May 2027) will provide input for the drafting of the last two documents of Work Package 3: Milestone 14 on the overall evaluation of the project (deadline 31 July 2027) and Deliverable 3.2 on the evaluation report (deadline 1 October 2027).

## 5. Survey results

The current chapter reports and analyses the results from the Month 6 survey (May 2024) and Month 18 survey (April 2025). The surveys, including relevant questionnaires, can be found in Annex i (list of indicators per work package), Annex ii (questionnaire baseline survey (month 6)), and Annex iii (questionnaire first periodic survey (month 18)). Whenever necessary, answers to the open questions were reformulated and shortened. However, no substantial changes were made to the content of each answer. The total number of responses per survey was n=11, one anonymous answer per work package. The chapter is structured as follows:

- 5.1. General questions progress HDAB-NL
  - Month 6 survey
  - Month 18 survey
- 5.2. Work package specific questions
  - Month 6 survey
  - Month 18 survey

### 5.1. General questions progress HDAB-NL

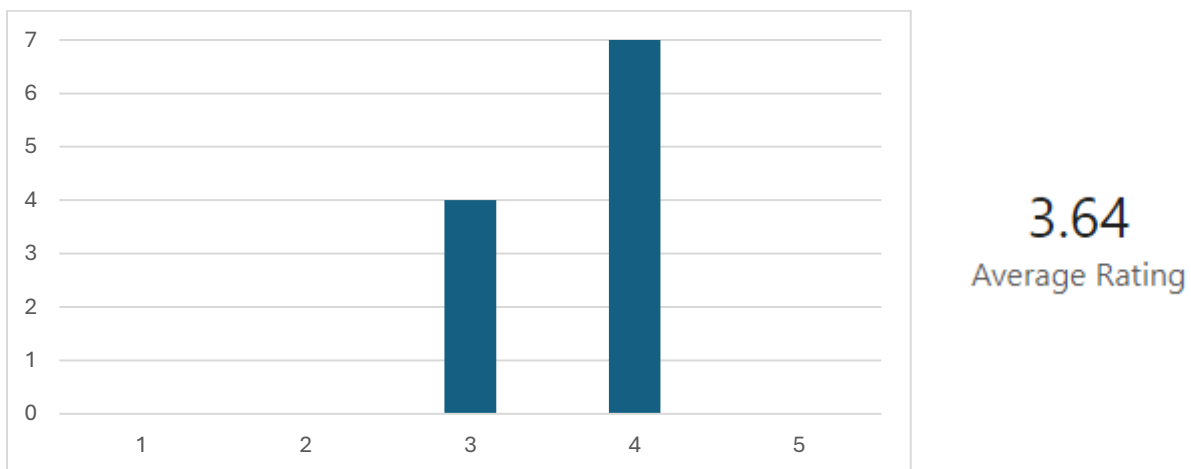
The first part of both surveys contained four closed questions regarding general satisfaction with the progress of HDAB-NL. It also provided space for additional comments. In addition, the Month 18 survey contained a question on suggestions for the formulation of indicators for the quality assessment of a Minimum Viable Product (MVP) as part of the technical work packages.

#### Month 6 survey

*1. How satisfied are you with the teamwork within the HDAB-NL consortium? Please rate the question from 1 (not satisfied at all) to 5 (very satisfied)*

As indicated by Figure 1 below, overall satisfaction with teamwork within the HDAB-NL consortium was relatively high in month 6 as all respondents gave a score of either 3 or 4, with an average of 3.64. Specifically, seven out of eleven respondents chose a rating of 4, indicating a relatively high level of satisfaction with the teamwork within the HDAB-NL consortium. As no scores of 1 or 2 were given, there does not appear to be extreme dissatisfaction with the teamwork.

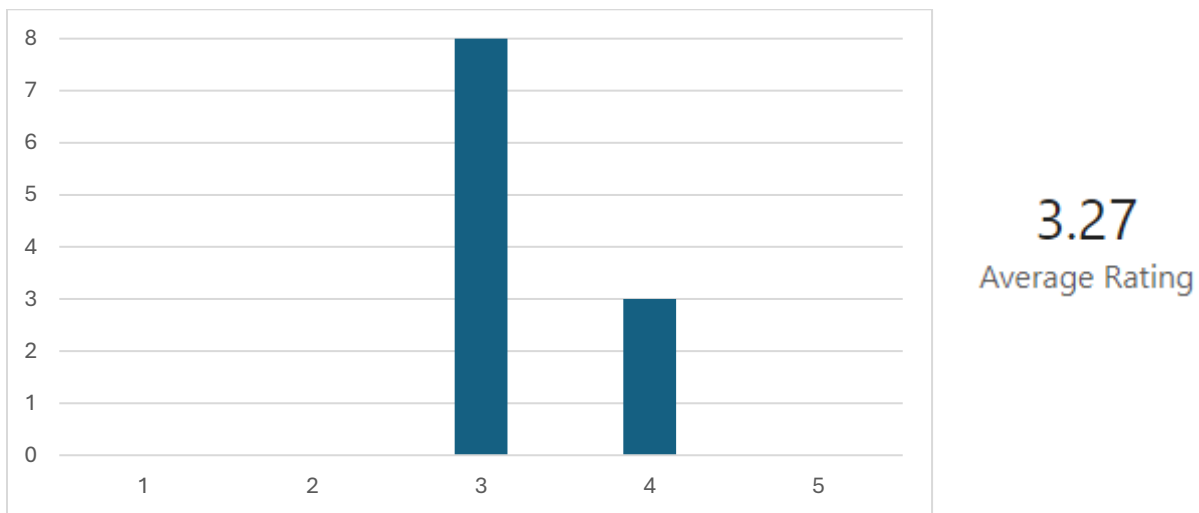
Figure 1: results question 1: satisfaction teamwork HDAB-NL (month 6)



*2. How satisfied are you with the overall progress of the HDAB-NL project? Please rate the question from 1 (not satisfied at all) to 5 (very satisfied)*

As Figure 2 shows below, overall satisfaction with the progress of the HDAB-NL project would seem moderate in month 6, with an average of 3.27. Most respondents (eight out of eleven) gave a rating of 3, indicating they are somewhat satisfied but recognise room for improvement. A smaller group of respondents (three out of eleven) rated their satisfaction as 4, showing a higher level of contentment. No respondents indicated extreme dissatisfaction as no scores of 1 or 2 were given.

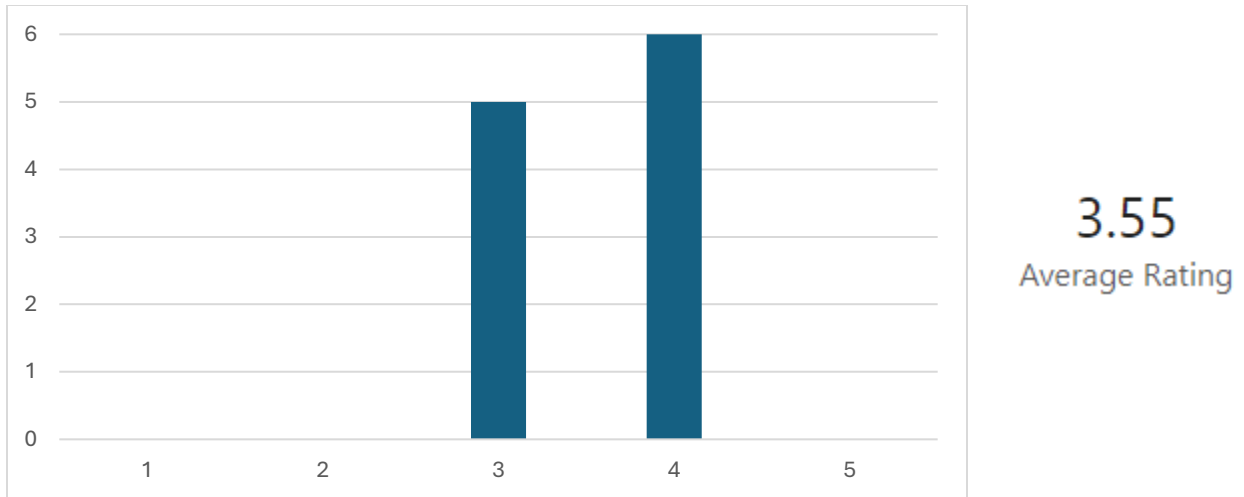
Figure 2: results question 2: satisfaction progress of HDAB-NL (month 6)



*3. How satisfied are you with the internal communication between the consortium partners within the HDAB-NL project? Please rate the question from 1 (not satisfied at all) to 5 (very satisfied)*

As displayed in Figure 3 below, most respondents appeared relatively satisfied with the internal communication between the consortium partners in month 6, with an average rating of 3.55. The most common rating was 4 (six out of eleven), indicating general satisfaction. The remaining respondents (five out of eleven) gave a score of 3, indicating moderate satisfaction with communication. The absence of scores 1 and 2 suggests that none of the respondents felt extremely dissatisfied with the internal communication.

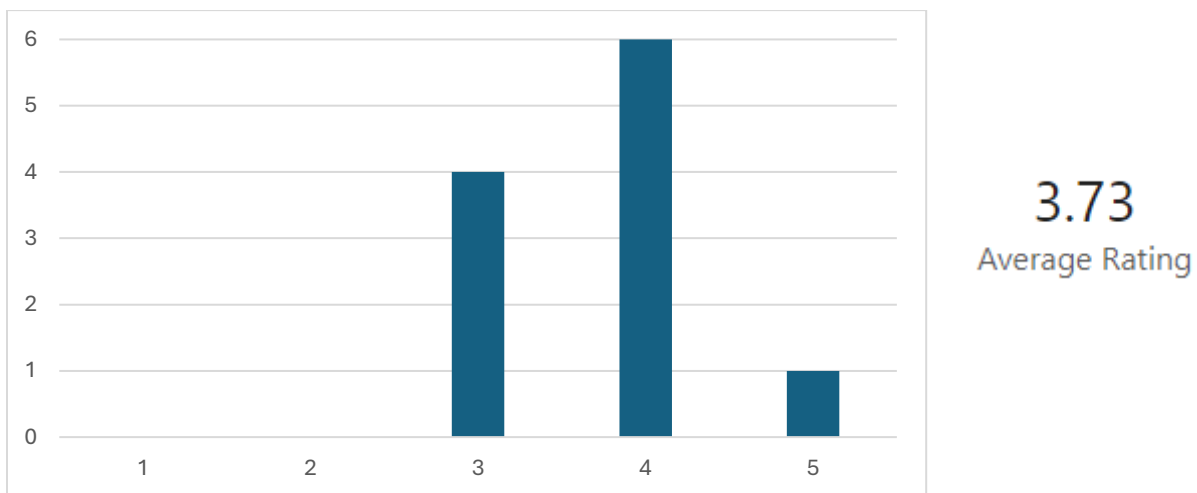
Figure 3: results question 3: satisfaction internal communication (month 6)



4. How satisfied are you with the overall coordination of the HDAB-NL project? Please rate the question from 1 (not satisfied at all) to 5 (very satisfied)

As displayed in Figure 4 below, the respondents appeared generally satisfied with the overall coordination of the HDAB-NL project in month 6, with an average of 3.73 and the only quantitative question having one response of 5. The most common rating was 4 (six out of eleven), indicating a high level of satisfaction. Additionally, four respondents rated their satisfaction as 3, suggesting moderate satisfaction with the coordination. The absence of ratings of 1 and 2 indicates that none of the participants felt extremely dissatisfied with the project's coordination.

Figure 4: results question 4: satisfaction overall coordination (month 6)



5. Please indicate if you have any remarks regarding the progress of the HDAB-NL project

Four out of the eleven respondents provided additional remarks regarding the HDAB-NL project. Their comments are as follows:

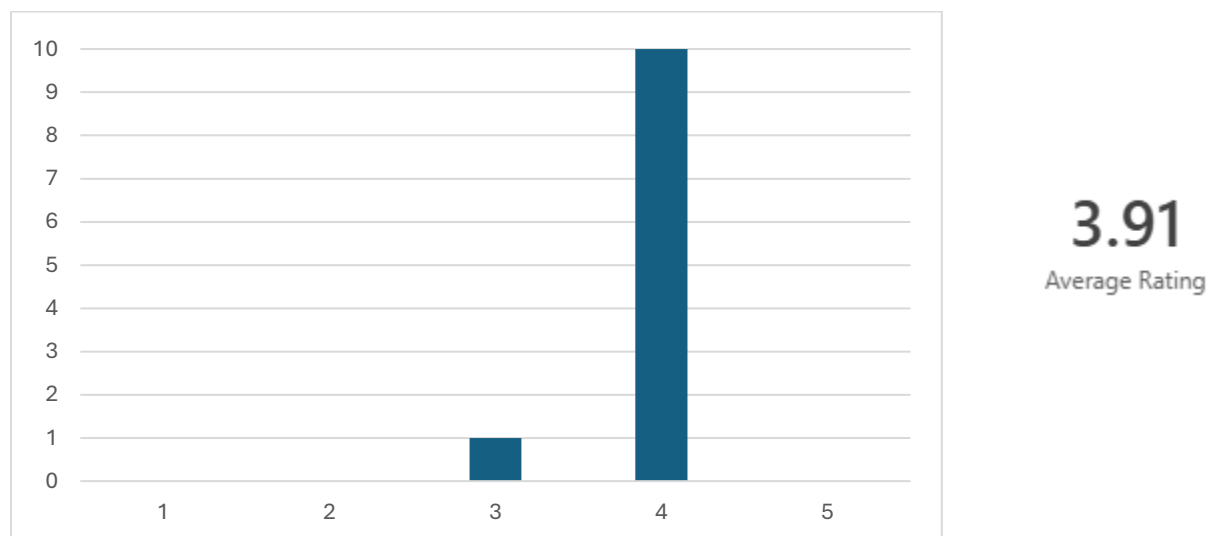
- The first respondent noted that greater alignment is needed regarding the overall pace of the project and the relationship between the 2024 deadlines and the expected timelines for clarity on EHDS and healthDCAT. There is a tendency to move forward quickly in order to achieve set goals, even though some information remains incomplete.
- The second respondent argued that communication and stakeholder management are the only elements that are not progressing as well as anticipated
- The third respondent noted satisfaction with the general progress and observed an upward trend in both collaboration and communication
- The last respondent mentioned that staying informed about content created by all partners requires ongoing effort. It was suggested that internal electronic communication could be improved, for example by introducing a “what’s new this week” internal update channel.

### Month 18 survey

*1. How satisfied are you with the teamwork within the HDAB-NL consortium? Please rate the question from 1 (not satisfied at all) to 5 (very satisfied)*

As shown in Figure 5, teamwork within the HDAB-NL consortium was viewed positively in month 18, with the lowest score being 3. The remaining ten respondents rated this question with a 4, resulting in an average score of 3.91. As there were no ratings of 1 or 2, there appears to be no significant dissatisfaction. In comparison to the average score of 3.64 from the Month 6 survey, a steady increase in satisfaction can be observed.

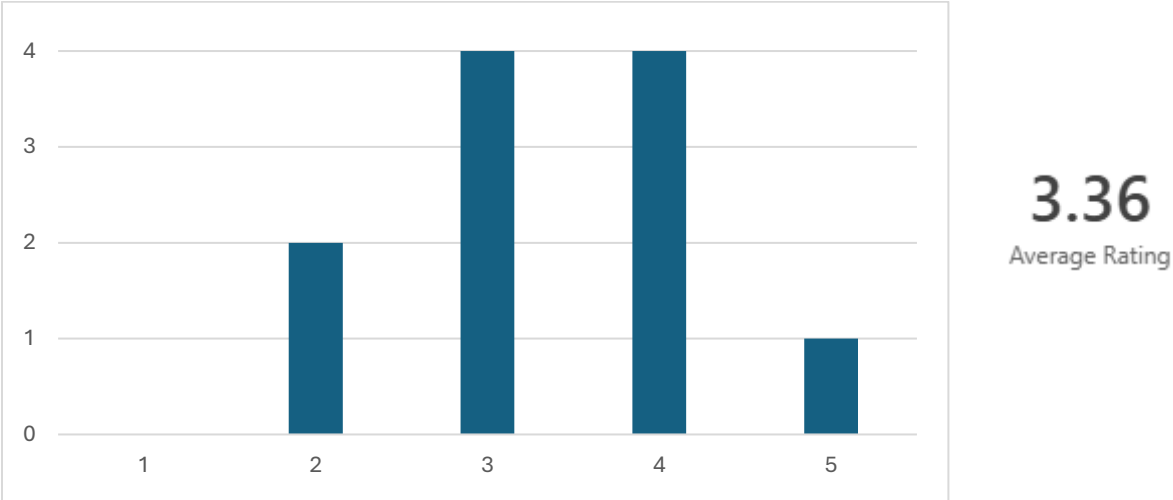
Figure 5: results question 1: satisfaction teamwork HDAB-NL (month 18)



*2. How satisfied are you with the overall progress of the HDAB-NL project? Please rate the question from 1 (not satisfied at all) to 5 (very satisfied)*

As shown in Figure 6, perceptions of the project's progress appeared moderate in month 18, with an average score of 3.36. Notably, the spread of responses is relatively broad, with the most common ratings being 3 and 4 (each selected by four out of eleven respondents). Of the remaining three respondents, one gave a score of 5, while two gave a score of 2. Compared to the average score of 3.27 from the Month 6 survey, the current score is slightly higher. Furthermore, the range of responses is broader, as the previous survey only included scores of 3 and 4.

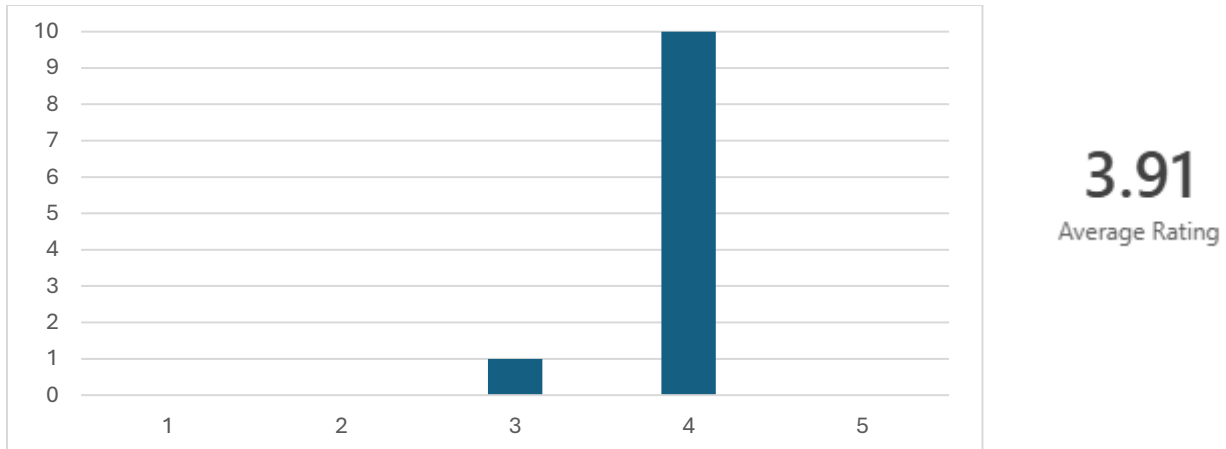
Figure 6: results question 2: satisfaction progress of HDAB-NL (month 18)



*3. How satisfied are you with the internal communication between the consortium partners within the HDAB-NL project? Please rate the question from 1 (not satisfied at all) to 5 (very satisfied)*

As displayed in Figure 7, internal communication between the consortium partners was viewed positively by the respondents in month 18, with an average score of 3.91. The most common rating was 4 (ten out of eleven), while only one respondent gave a score of 3. As there were no ratings of 1 or 2, there appears to be no significant dissatisfaction with teamwork. Compared to the survey conducted in month 6, the current score is higher by almost half a point (3.91 versus 3.55), indicating an increase in satisfaction.

Figure 7: results question 3: satisfaction internal communication (month 18)

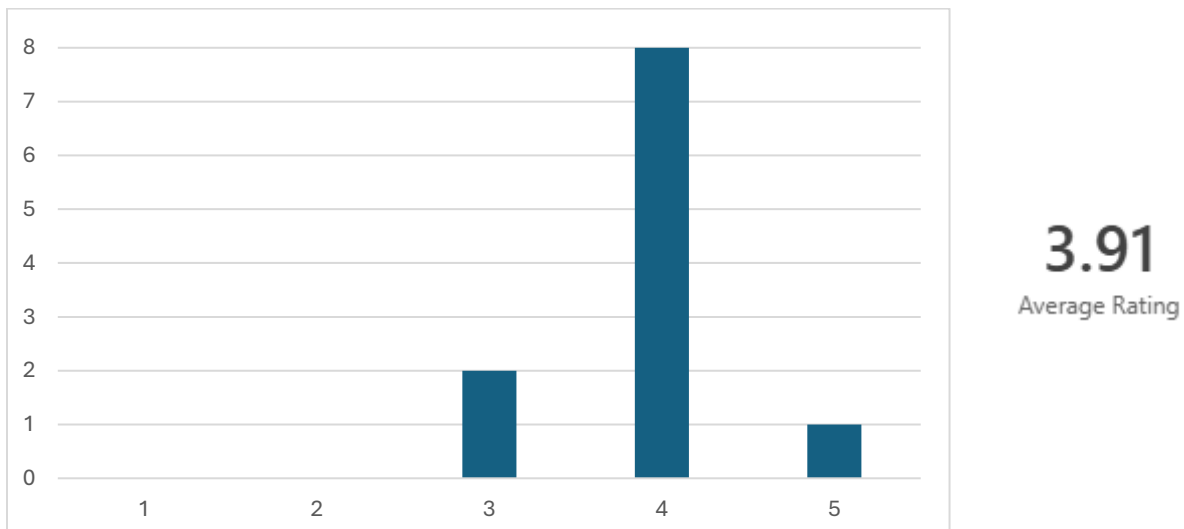


*4. How satisfied are you with the overall coordination of the HDAB-NL project? Please rate the question from 1 (not satisfied at all) to 5 (very satisfied)*

As indicated by Figure 8, the respondents appeared satisfied with the overall coordination of the HDAB-NL project in month 18 as the average score reached 3.91. The most common response was 4 (eight out of eleven), whereas the lowest score was 3 (two out of eleven responses). One respondent rated 5. Since no respondent gave ratings of 1 or 2, it seems there is no major dissatisfaction with the overall coordination.

In comparison to the average of 3.73 from the Month 6 survey, the current score is slightly higher.

Figure 8: results question 4: satisfaction overall coordination (month 18)



*5. Please indicate if you have any remarks regarding the progress of the HDAB-NL project.*

Seven out of the eleven respondents provided additional remarks regarding the HDAB-NL project. Their comments are as follows:

- The first respondent noted that delayed stakeholder engagement led to setbacks during phase 1 of the HDAB-NL project, resulting in the initial deliverables of the technical work packages being less complete than intended. Additionally, HDAB-NL is highly dependent on other European initiatives such as JA TEHDAS2 and HealthData@EU, whose deadlines are not well aligned with those of the HDAB-NL Grant Agreement, creating bottlenecks. The first respondent also mentioned that internal discussions regarding the scope of the pilot phase and the MVP have contributed to delays in phase 2 of the project.
- The second respondent noted that phase 1 experienced some delays. Due to delayed external stakeholder engagement, only the legal requirements could be included at that stage of the project. As a result, business and stakeholder requirements will be addressed in phase 2 of the project. The respondent also indicated that project management is currently determining the scope of phases 2 and 3 of HDAB-NL, which is expected to cause some additional delays in phase 2. Furthermore, HDAB-NL's strong reliance on other European initiatives such as JA TEHDAS2 and HealthData@EU, whose deadlines are not well aligned, has led to bottlenecks.
- The third respondent expressed the need to move forward with more concrete steps, enabling the team to begin iterating and piloting towards developing HDAB-NL's technical capabilities. The respondent noted that, given the limited time until 2029 and the likelihood of encountering unforeseen challenges, it is important to maintain momentum. At the same time, they acknowledged the need for careful decision-making to ensure privacy, security, and compliance with mandates.
- The fourth respondent noted that it is positive to see a clear focus on the project strategy.
- The fifth respondent indicated that 2025 will be a crucial year for the project, particularly with the clarification of the MVPs. They noted that the project's success will depend on the implementation of these products. Although the initial steps took a relatively long time, the respondent observed real progress in this area.
- The sixth respondent observed that there has been a significant turnover, with many people leaving and starting in key positions within the project. However, they noted that this has not had a substantial impact on the overall progress thus far.
- The last respondent noted that, considering recent events, such as the change in leadership and the start of a new project phase, it has become clearer and more feasible to coordinate and steer towards the desired results. However, they acknowledged that, like any other project, there are ongoing challenges. Communication, cooperation, and aligning efforts with European 'gaps' remain areas for attention and continuous improvement.

*6. As part of the delivery of the Minimum Viable Product (MVP), the technical work packages need to develop indicators for quality assessment. Could you suggest specific indicators, such as those related to the process, quality, user satisfaction, or reliability?*

Eight out of the eleven respondents provided suggestions for the development of quality criteria, albeit one was a duplicate answer. The seven unique responses are as follows:

- Quality criteria will be reviewed and decided at a later stage within the work package. Ideas for now are the following:
  - Process: stick to the project management plan and deadlines.
  - Quality & user satisfaction: ratings of stakeholders (at least 6 out of 10 overall) on the first iterations of the MVP.
  - Reliability: data applications and permits are reviewed and decided upon within the EHDS stipulated time limits. MVP flow of HDAB-NL concurs (and where not, gives clear argumentation) with HealthData@EU digital capabilities blueprint. Sampling of automated procedures shows accurate decisions were made (set minimum %).
- Indicators for a finished MVP could be as follows:
  - Does a dataset get sent to the EU acceptance catalogue?
  - Does the dataset pass the validator?
  - If yes, does the dataset show up in the EU catalogue?
  - If no, is there communication back as to why the dataset does not pass the validator?
  - Can the data holder make changes and try again?
  - Can we make a tech connection (ping?) to the EU acceptance catalogue?
  - Do we have clear instructions for a data holder on how to send their metadata and be compliant to health DCAT?
  - Do our stakeholders know who is joining in the pilot and what the process for use case selection is? (could be more of a stakeholder management responsibility, not sure if we should take this into the catalogue WP).
- Examples of indicators are:
  - Success of the outcome of the MVP
  - Satisfaction with the general MVP development process
  - General test outcomes of MVP testing
- Quality criteria are prescribed by the EHDS. We will be testing the proposal by Quantum in mid-scale pilots by CBS and RIVM.
- Quality criteria are not completed yet. We are currently in the process of defining those. The technical work packages are working together to determine a framework for future execution; I believe WP8 will be able to further specify on this. On a project level, a few criteria have been determined in order to scope the results of our MVP's (scenario's):
  - Interoperability

- Feasibility
- Achievability
- Support (society)
- It must be clear what is considered an 'MVP' before we can develop quality indicators.
- Please refer to Deliverable D10.1 for input.

## 5.2. Work package specific questions

The second part of the two survey rounds contained questions for each work package based on the list of indicators (see Annex i). As previously noted, the Month 6 survey did not include questions on process indicators, instead focusing on overall progress towards the achievement of Milestones and Deliverables. In contrast, the Month 18 survey did include these questions and therefore contains a progress table encompassing all relevant indicators for each work package.

### Month 6 survey

#### Work Package 1: Management and Coordination

For Work Package 1, questions in the baseline survey centralised the following three objectives:

- Timely and robust financial management
- Sound internal communication
- Timely delivery of Milestones and Deliverables

For the first objective, the survey indicated that all financial statements had been delivered on time by consortium partners, with monthly submissions since January 2024 (n=4).

Regarding sound internal communication, both the organisation of quarterly meetings and steering group meetings seem on track to reach the respective targets of 16 meetings by Q4 2027 (average of 4 per year) and 20 meetings by Q4 2027 (average of 5 per year). While the first advisory board meeting has not yet taken place as of May 2024, preparations are underway to organise the first meeting in September based on feedback from the project's steering group.

The first meeting of the advisory board will also be used as input for the formulation Milestone M2-M5: *Assembly advisory board*, part of the above-mentioned objective three on the timely delivery of Milestones and Deliverables. No other remarks were made regarding this objective.

#### Work Package 2: Dissemination & Training and support

Work Package 2a: Dissemination informed that the information campaign is on track to reach the planned deadline of 31-05-2024 for the respective milestone (Milestone 10). For Milestone M6 on integral communication (30-11-2024), however, a planned co-creation kick-off will be delayed to September of this year. Information on potential risks to reach the planned deadline for the first Deliverable (D2.1: Communication and training plan) was not yet provided as this will depend on the training plan to be developed by work package 2b: training and support.

The latter work package (2b) likewise commented on concerns about the emphasis on technical work packages potentially overshadowing training requirements. This work package stresses the need for a broader overview from other work packages.

#### Work Package 3: Evaluation

Work Package 3: evaluation reported to be on track to reach the planned deadline of 31-05-2024 for Milestone M13 on the action level indicators framework (the current document). No risks regarding the delivery of future surveys (month 18, month 30, and month 42) were mentioned.

#### Work Package 4: Sustainability

The respondent from Work Package 4: sustainability mentioned how the work package has had a kick-off according to plan, with no perceived risks for meeting the deadlines for Milestone M15 (preparation sustainability plan) and M16 (preparation business continuity plan) by 30-11-2025.

#### Work Package 5: DAAMs

Regarding the publication of Milestone M17 and Deliverable D5.1 on Draft requirements, Specifications and Prototype (deadlines 30-11-2024 and 28-02-2025), the preliminary studies on EHDS requirements of the DAAMs and a landscape analysis of similar systems are almost finished. A stakeholder session is planned but has been postponed multiple times, potentially jeopardising the EU deadline for the first milestone. Despite this, the project manager's efforts are commendable, and the respondent attributes this issue to other internal inefficiencies.

#### Work Package 6: National Dataset Catalogue

The respondent from Work Package 6: National Dataset Catalogue mentioned that the draft requirements, specifications, and a prototype (Milestone M20 and Deliverable D6.1) will be based on current knowledge. However, the success of these outputs will likewise depend on the Dutch Ministry of Health's planned market analysis, which remains pending. Any additional requirements relevant for Work Package 6 will only be identified following the publication of this analysis. While the work package can anticipate necessary features based on existing stakeholders, it cannot ensure meeting all the requirements without comprehensive knowledge of all stakeholders.

Furthermore, the timely completion of the stakeholder analysis (Milestone M20) will be essential to reach the planned deadline for Deliverable D6.1 on Requirements and specifications (respectively with deadlines on 30-11-2024 for the Milestone and 28-02-2025 for the Deliverable) as this will allow the work package to solicit feedback from the appropriate stakeholders. The Christmas and early spring holidays pose challenges, but the work package aims to deliver sufficient requirements to proceed with agile methodologies and ensure effective user testing for successful product delivery.

Additionally, Work Package 6 outlined its efforts to stay well-informed, such as considering JA TEHDAS results and active participation in the EHDS Community of Practice subgroup 2 on Health

Datasets Metadata Catalogue and Data Quality and Utility. The work package will integrate existing solutions into the new IT architecture and maintain contact with CumuluZ regarding primary use considerations in The Netherlands. Despite potential market expertise shortages, the skilled team is well-equipped to meet objectives.

#### Work Package 7: Secure Processing Environments

The respondent from Work Package 7 stated that Milestone M23 on Draft requirements, Specifications and Prototype and Deliverable D7.1 are on track as the preliminary studies on relevant EHDS requirements and a landscape analysis of secure processing environments are nearly completed (deadlines 30-11-2024 and 28-02-2025). In line with the response from Work Package 5, the postponement of a stakeholder session might impede progress in meeting the planned deadlines. These issues, however, do not stem from the commendable efforts of the project leader.

#### Work Package 8: Infrastructural Solutions

Regarding Milestone M26 on Draft requirements (Q4 2024), the respondent highlighted how unresolved issues in the first EHDS agreement of December 2024, due to existing uncertainties, diverging legislative interpretations, and election dynamics might necessitate drafting additional versions of Milestone M26. Under these circumstances, the work package might need to transform the obsolete version of Milestone M26 into a sequence of drafts with a planned and versioned roadmap containing scenarios of different outcomes.

Moreover, for M29 on Governance decisions (30-11-2024), the respondent mentioned uncertainty about the objectives and parameters of architectural strategy to be chosen and pursued for the primary use of data (CumuluZ at the National level). Consequently, the work package may need to pivot and follow directional architectural decision processes as needed.

#### Work Package 9: Data quality Enhancement

Regarding the publication of Milestone M30 on the Draft Data Quality Assessment Framework: Data Quality Labeling (deadline 31-07-2025), the respondent outlined the following activities to meet the planned deadline: conducting literature reviews, aligning with other work packages and related projects such as Quantum, and gathering input from stakeholders.

#### Work Package 10: Establishment of a Coordinating Health Data Access Body

With reference to the publication of Milestone M33 on Needs from data holders and users regarding the HDAB (deadline 31-02-2025), the respondent from Work Package 10 highlighted the general complexity of stakeholder engagement and the challenge of reaching all necessary stakeholders within the project's timeframe. Moreover, effective communication and collaboration among different work packages are crucial as the technical work packages depend on stakeholder input for their Deliverables and Milestones. Poor stakeholder engagement could delay data collection.

In similar vein, risks to meeting the planned deadline of 31-03-2025 for Deliverable D10.1 (advisory report) include problems with stakeholder engagement and data collection. Conducting an impact analysis for the EHDS's scope for both primary and secondary use involves coordination with various ministry departments, posing logistical challenges. Legislative delays could also occur. Moreover, input for this deliverable will depend on work from other work packages within the HDAB-NL consortium, particularly Work Packages 5 to 9. Additionally, drafting and finalising the advisory report, ensuring clarity, accuracy, and relevance of recommendations, may require iterative reviews and revisions, potentially causing further delays.

## Month 18 survey

### Work Package 1: Management and Coordination

The questionnaire for Work Package 1: Management and Coordination consisted of thirteen questions, eleven of which focused on the indicator framework, further subdivided into three objectives. The questions can be summarised as follows:

- High quality project management
  - High satisfaction with the progress of the project
- Timely and robust financial management
  - Provision of financial statements by consortium partners
- Sound internal communication
  - Organisation of quarterly meetings
  - Organisation of Steering group meetings
  - Organisation of advisory board meetings: *Maatschappelijke adviesraad* (MAR)
  - Organisation of advisory board meetings: *Expertgroep* (EG)
- Timely delivery of Milestones and Deliverables
  - Publication of Milestones and Deliverables
  - The timely delivery of Milestone M2: *First assembly advisory board*
  - The timely delivery of Deliverable D.1.1: *Mid-term overall progress and advisory board report*
  - The timely delivery of Milestones M3 to M5: *Assembly advisory board*
  - The timely delivery of Deliverables D1.2 to D1.4: *Mid-term overall progress and advisory board report*

In relation to the first objective concerning high-quality project management, the target average score of 4 out of 5 across the four quantitative questions from the first part of the survey was not fully achieved. However, three of the four scores were very close to this benchmark, with an overall average of 3.91. Furthermore, all scores showed a significant improvement compared to the Month 6 survey.

Regarding the second objective, the survey indicated that all consortium partners were able to provide financial statements (n=12). This would be in line with the results from the Month 6 survey, in which all financial statements were likewise delivered. Occasionally, delays occurred due to the need to coordinate internally and ensure the provision of accurate data.

In reference to sound internal communication, a quarterly meeting is held every three months. In 2024, 4 such meetings were conducted in line with the target of 4 yearly meetings (target of 16 by Q4 2027). Additionally, 6 Steering Group meetings were held in 2024, exceeding the originally planned 5 due to the need for decision-making on the stakeholder engagement strategy (target of 20 by Q4 2027). In 2025, 5 Steering Group meetings are planned. If the current schedule is maintained, a total of 21 meetings will have been organised by Q4 2027. These results are also in line with input from the Month 6 survey.

For the MAR and EG, the Grant Agreement specifies the necessity of at least 1 annual meeting per year. The target for the former group was achieved with the successful organisation of a kick-off meeting at the end of 2024. The aim is to hold 4 meetings per year, reaching more than 12 by Q4 2027. The target for the latter group was likewise achieved as 2 meetings were held. The first was in June and the second in September (kick-off). The aim is to organise at least 3 meetings per year. This means that the total number will likewise deviate, reaching 10 meetings in total by Q4 2027. Compared to the Month 6 survey, significant progress has been made in this regard, as advisory board meetings had not yet been organised in Q1 2024.

It should be noted that the two groups differ in composition, strategic purpose, function, membership, and mandate. While not every MAR or EG meeting will have the purpose to create input for Deliverables D1.2-D1.4: *Mid-term overall progress* and Milestone M3-M5: *Assembly advisory board*, advice will be integrated whenever relevant. Given the high number of planned meetings for the Steering Group and MAR, Work Package 1 foresees no risks in achieving the planned deadlines. Moreover, at a more general level, a national kick-off event for the Dutch healthcare sector was held in September 2024 to exchange knowledge in various break-out sessions.

Referring to the on-time publication of Milestone and Deliverables in 2024, some milestones (4) were finished sooner than the deadline specified, including the Milestone for Work Package 1: *First assembly advisory board*. Other milestones (4), however, were delayed due to unclear specifications and dependencies on other parallel trajectories, such as JA TEHDAS2. Only 1 Deliverable was planned for 2024: Deliverable D.1.1: *Mid-term overall progress and advisory board report*. The deadline of 30-11-2024 was met for this product, as expected based on input from the Month 6 survey.

Table 1: summary indicators progress Work Package 1: Management and Coordination

Indicator	Target	Status
High satisfaction with the progress of the project	Avg. 4 out of 5	Not reached
Financial statements	100%	Reached
Quarterly meetings	4 per year	Reached
Steering group meetings	5 per year	Reached
Advisory board meetings: <i>Matschappelijke adviesraad</i> (MAR)	1 per year	Reached
Advisory board meetings: <i>Expertgroep</i> (EG)	1 per year	Reached
On time publication of Milestones and Deliverables	100%	Partly reached
Delivery Milestone M2: <i>First assembly advisory board</i>	30-11-2024	Reached
Delivery Deliverable D.1.1: <i>Mid-term overall progress and advisory board report</i>	30-11-2024	Reached
Delivery Milestones M3-M5: <i>Assembly advisory board</i>	30-11-2025	On track
Delivery Deliverables D1.2-D1.4: <i>Mid-term overall progress and advisory board report</i>	30-11-2025	On track

### Work Package 2a: Dissemination

The questionnaire for Work Package 2a: Dissemination contained eleven questions, of which nine were related to the indicator framework. These questions can be summarised as follows:

- The timely delivery of Milestone M10: *Dissemination Campaign*
- The timely delivery of Milestone M6: *Dissemination campaign: integral communication strategy*
- The timely delivery of Deliverable D2.1: *Communication and training plan*
- The timely delivery of Milestone M7: *Execution of campaign phase 1*
- Participants per dedicated stakeholder meetup
- Website traffic HDAB-NL community
- HDAB-NL community members
- Co-creation working groups
- Published news articles regarding HDAB-NL

Regarding the timely delivery of Milestone M10: *Dissemination Campaign*, Milestone M6: *Dissemination campaign: integral communication strategy*, and Deliverable D2.1: *Communication and training plan*, all deadlines were met on time. No significant risks pertaining to these deadlines were identified in month 6.

On the content of the next document — Milestone M7: *Execution of campaign phase 1* — citizens and patients will receive ongoing information on how their data is currently shared and (re)used, including the benefits of data sharing for innovation. They will also be informed about the establishment of a governmental organisation that will regulate access to health data, i.e., HDAB-

NL. At present, no significant risks have been identified. However, it should be noted that communication remains an ongoing process and will not be fully completed by the Milestone deadline of 31-5-2025. Work Package 2a will continue to inform citizens and patients in various ways about the reuse of data and the benefits it offers, including via the website ‘gegevensverbeterenlevens.nl’ and the use of the ministry of health’s internal toolkits.

Referring to the other indicators, the organised stakeholder sessions were a great success in terms of participation from stakeholders. On the other hand, website traffic has only been collected since the end of January 2025. The current number is way below the target of 1200. In terms of community members, Work Package 2a is very close to reaching the target of 300 members. Co-creation work groups have likewise been created for all work packages, some having organised sessions during which stakeholders were invited to provide their perspectives on issues relevant to the respective work package.

Table 2: summary indicators progress Work Package 2a: Dissemination

Indicator	Target	Status
Delivery Milestone M10: <i>Dissemination Campaign</i>	31-5-2024	Reached
Delivery Milestone M6: <i>Dissemination campaign: integral communication strategy</i>	30-11-2024	Reached
Delivery Deliverable D2.1: <i>Communication and training plan</i>	31-3-2025	Reached
Delivery Milestone M7: <i>Execution of campaign phase 1</i>	31-5-2025	On track
Participants per dedicated stakeholder meetup	100	Reached
Website traffic HDAB-NL community	1200	Not reached
HDAB-NL community members	300	Partly reached
Co-creation working groups	4	Reached
Published news articles regarding HDAB-NL	10	Reached

### Work Package 2b: Training and Support

The questionnaire for Work Package 2b: Training and Support included ten questions, eight of which focused on the indicator framework. These can be summarised as follows:

- The timely delivery of Deliverable D2.1: *Training & strategy plan*
- The timely delivery of Deliverable D2.2: *Training project’s*
- The timely delivery of Milestone M11: *Training and educational material*.
- The timely delivery of Milestone M12: *Helpdesk*
- Analysed training portals

- Analysed training materials
- Interviews with end-users and work package leaders on the training material
- Interviews with end-users and work package leaders on the training portal

Regarding the delivery of Deliverable D2.1: *Training & strategy plan*, the deadline was met before the deadline of 31-3-2025.

Referring to the delivery of subsequent documents — Milestone M12: *Helpdesk*, Milestone M11: *Training and educational material*, and Deliverable D2.2: *Training project's* — the focus in 2025 is on understanding what is needed for the HDAB in terms of training, e.g., what training resources are already available, where do stakeholders still have unmet needs, and which formats would be most suitable (video, PDF, e-learning)? Furthermore, establishing a CoP for training is seen as an important task as there is a need for increased information sharing between Member States. HDA from Belgium and LNDS from Luxembourg have already expressed interest in participating, while other Member States still need to be approached. The last task is monitoring relevant developments at the EU level.

For the remaining indicators, Work Package 2b has reviewed several training portals, with some still under assessment. For example, consortium partner CBS maintains its own training portal, which is currently being updated, offering valuable input for defining the requirements of the HDAB-NL portal. Similarly, consortium partner RIVM has its own portal, which is presently under analysis. Training portals from other countries — such as Belgium, the United Kingdom, Luxembourg, and Finland — have also been examined.

Work Package 2b has collected more than 20 training materials, although not all have been analysed yet. This phase is now commencing in parallel with the development of the training projects. While not all interviews have been conducted, discussions have already taken place with Work Package leaders and end-users to assess their training needs. Similar discussions on the training portal will be conducted in the future.

Table 3: summary indicators progress Work Package 2b: Training and Support

Indicator	Target	Status
Delivery Deliverable D2.1: <i>Training &amp; strategy plan</i>	31-3-2025	Reached
Deliverable D2.2: <i>Training project's</i>	31-7-2026	On track
Delivery of Milestone M11: <i>Training and educational material</i>	31-3-2026	On track
Delivery of Milestone M12: <i>Helpdesk</i>	30-11-2025	On track
Analysed training portals	5	Reached
Analysed training materials	20	Partly reached
Interviews with end-users and work package leaders on training material	10	Partly reached
Interviews with end-users and work package leaders on training portal	10	Not reached

### Work Package 3: Evaluation

The questionnaire for Work Package 3: Evaluation included six questions, three of which focused on the indicator framework. These can be summarised as follows:

- Response rate to period work package surveys
- The timely delivery of Milestone M13: *Definition of action level indicators framework*
- The timely delivery of Deliverable D3.1: *Report on the action level indicators framework*

With respect to the first objective, a total of eleven responses were received across both survey rounds, with one anonymous response submitted per work package. However, it was necessary to extend the survey deadlines to ensure all responses could be collected.

As indicated in the Month 6 survey, the deadline for Milestone M13: *Definition of Action Level Indicators Framework* was met well ahead of the official due date of 31-5-2024. On the delivery of Deliverable D3.1: *Report on the Action Level Indicators Framework* (this document), timely completion will depend entirely on the work package Leader's ability to respond to the survey as scheduled. No risks regarding timely delivery are currently foreseen.

Regarding other activities, coordination with Work Package Leaders 5, 6, 7, and 8 (the technical Work Packages) is required to determine the approach for evaluating the MVPs. This process is scheduled to take place between Q2 and Q3 2025. In the meantime, this document also includes a synthesis of the responses to an open-ended question regarding the evaluation of MVPs, found at the end of Section 5.1. No other risks were identified concerning the future surveys planned in projects M30 and M42.

Table 4: summary indicators progress Work Package 3: Evaluation

Indicator	Target	Status
Response rate to periodic Work Package 3 surveys	100% (n=11)	Reached
Milestone M13: Indicator framework	31-5-2024	Reached
Deliverable D3.1: report indicator framework	30-6-2025	On track

### Work Package 4: Sustainability

The questionnaire for Work Package 4: Sustainability included twelve questions, ten of which focused on the indicator framework, which is subdivided into sustainability and business continuity. These can be summarised as follows:

- Sustainability
  - The timely delivery of Milestone M15: *Preparation of a sustainability plan*

- Analysed literature sustainability plan
- Workshops sustainability plan
- Interviews/meetings with experts sustainability plan
- Integrated input from other work packages
- Stakeholder consultations
- Business continuity
  - The timely delivery of Milestone M16: *Preparation of a business continuity plan*
  - Analysed literature business continuity plan
  - Workshops business continuity plan
  - Interviews/meetings with experts business continuity plan
  - Stakeholder consultations

Regarding the question on the delivery of Milestone M15: *Preparation for a sustainability plan*, the document currently comprises of two parts: Services Management Practices (ITIL) and the financial framework. The main activities for Part One are an elaboration on the sixteen ITIL framework Service Management Practices and the organisation of workshops with work package leaders to tailor these practices to the MVPs. After the pilot phase of the HDAB-NL Project, these practices will be included in the maturity model. The main activities for part two are aligning the internally developed financial framework with insights from stakeholder interviews, such as data holders and data users. No risks are foreseen in reaching the planned deadline of 30-11-2025, in line with the remarks from the Month 6 survey.

The target of 20 analysed literary sources was reached due to the broad scope of the Milestone. Most sources consulted were standards and frameworks related to business sustainability and service management processes for IT and statistical organisations (e.g., ISO 20000, COBIT, and ITIL), as well as documents on fees and financing of health data.

The target of 5 workshops was likewise achieved as multiple workshops with other work packages and subject experts (e.g., ITIL experts) were hosted. These provided valuable input. Additional workshops on service management in relation to the MVPs will be organised in Q2 & Q3 2025.

The target of 10 interviews was not reached as no interviews with external experts have been conducted yet, although relevant internal expertise (business sustainability planning and fees) is consulted regularly. Work Package 4 will conduct interviews on financing and fees after input from THEDAS2 workshops on financing and fees have been published. Work Package 4 likewise participates in these sessions.

All relevant input from other work packages was integrated.

With reference to the question on the delivery of Milestone M16: *Preparation of a business continuity plan* (BCP), the Milestone will address key components of a Business Continuity Plan,

accompanied by relevant recommendations on how the HDAB might develop such a plan in future. It also explores various potential calamities (use cases). These include natural disasters, cybersecurity threats, outages, system failures or malfunctions, unintentional damage, insider threats, and pandemics. At present, the chapter outlining the key components of the Business Continuity Plan (BCP) is complete and ready for review. The chapter on potential calamities, however, still requires sections on unintentional damage and pandemics to be written. Internal review of each section is also still pending, but overall, Work Package 4 is on track to meet the planned deadline. This notion is in line with the results from the Month 6 survey.

The target of 20 for analysed literary sources was met with ease. Last year was dedicated to reviewing relevant literature on business continuity and various types of calamities. Given the broad scope of the subject and the wide range of expertise it encompasses, reaching the target proved relatively easy.

The target of organising 5 workshops was not reached in 2024. However, the target has been met when including activities from Q1 and Q2 of 2025, bringing the total to 5. Work Package 4 experienced some difficulties in identifying relevant expertise. In the meantime, a literature review was conducted in 2024.

The target of 10 interviews was not reached. Currently no interviews with external experts have been conducted yet, although relevant internal expertise (business continuity planning and information security) is consulted regularly.

The target of 3 external consultations was likewise not reached. According to the Work Package leader, consultations with external experts on sustainability and business continuity will become increasingly relevant once HDAB-NL begins to produce more tangible outputs and the organisational structure takes shape — specifically, once the technical work packages have developed their MVPs, the Ministry of Health has designated an organisation to serve as the HDAB, and a Management Board is appointed. These developments will have a significant impact on the direction and activities of Work Package 4.

Table 5: summary indicators progress Work Package 4: Sustainability

Indicator	Target	Status
Delivery M15: sustainability plan	30-11-2025	On track
Analysed literary sources SP	20	Reached
Organised workshops SP	5	Reached
Organised interviews SP	10	Partly reached
Integration of other Work Packages SP	100% (where relevant)	Reached
Delivery M16: business continuity plan	30-11-2025	On track
Analysed literary sources BCP	20	Reached
Organised workshops BCP	5	Reached
Organised interviews BCP	10	Partly reached

External consultations	3	Not reached
------------------------	---	-------------

### Work Package 5: National Data Access Application Management System (DAAMs)

The questionnaire for Work Package 5: DAAMs included ten questions, eight of which focused on the indicators framework. These can be summarised as follows:

- The timely delivery of Milestone M17: *Draft requirements, Specifications and Prototype*
- The timely delivery of Deliverable D5.1: *Requirements, Specifications and Prototype*
- The timely delivery of Milestone M18: *DAAMs: Minimum Viable Product (MVP)*
- Analysed DAAMs
- Consultations with related initiatives
- Stakeholder consultations
- Input different stakeholder groups
- Integrated feedback from stakeholders

Regarding the delivery of Milestone M17: *Draft requirements, Specifications and Prototype*, Work Package 5 successfully met the planned deadline of 30-11-2024, although the scope of the Milestone had to be adjusted to focus solely on legal requirements due to delays in external stakeholder engagement caused by political reasons. This was likewise mentioned as a potential risk in the Month 6 survey. Business and stakeholder requirements will therefore be included in phase 2 of the project. The same holds true for the delivery of Deliverable D5.1: *Requirements, Specifications and Prototype*. The deadline of 28-2-2025 was reached, albeit the scope had to be reduced.

Referencing the delivery of the next product, Milestone M18: *DAAMs: Minimum Viable Product (MVP)*, meeting the deadline will be dependent on clear scoping of project phase 2 and 3 by the project coordinator and the Dutch Ministry of Health. It will likewise require coordination on MVP integration across work packages, alignment with the HealthData@EU architecture, and agreement on functionality expectations.

The targets for all other indicators were reached, with no additional comments from the Work Package leader.

Table 6: summary indicators progress Work Package 5: National Data Access Application Management System (DAAMs)

Indicator	Target	Status
Delivery M17: <i>Draft requirements, Specifications and Prototype</i>	30-11-2024	Partly reached
Delivery Deliverable D5.1: <i>Requirements, Specifications and Prototype</i>	28-2-2025	Partly reached
Delivery of Milestone M18: <i>DAAMs: Minimum Viable Product (MVP)</i>	31-5-2026	On track
Analysed DAAMs	7	Reached

Consultations with related initiatives	3	Reached
Stakeholder consultations	1	Reached
Input different stakeholder groups	3	Reached
Integrated feedback from stakeholders	50%	Reached

### Work Package 6: National Dataset Catalogue

The questionnaire for Work Package 6: National Dataset Catalogue included nine questions, seven of which focused on the indicators framework. These can be summarised follows:

- The timely delivery of Milestone M20: *Draft requirements, Specifications and Prototype*
- The timely delivery of Deliverable D6.1: *Requirements and specifications*
- The timely delivery of Milestone M21: *HDC: Minimum Viable Product (MVP)*
- Analysed dataset catalogues
- Stakeholder consultations
- Consultations with related initiatives
- Integrated feedback from stakeholders

Regarding the delivery of Milestone M20: *Draft Requirements, Specifications and Prototype*, the Work Package met the planned deadline of 30-11-2024. The document contained a preliminary draft of the requirements, which prompted valuable discussions within the HDAB-NL consortium. The referenced market analysis in the Month 6 survey, on which this document was intended to be partly based, is still pending

Concerning the delivery of Deliverable D6.1: *Requirements and Specification*, Work Package 6 also met the deadline. However, a disclaimer was included stating that the document is based on the documentation available at the time, and further iterations will be necessary as the EHDS and TEHDAS guidelines are clarified, and insights emerge through discussions within the Community of Practice (CoP).

As a next step towards the delivery of Milestone M21: *HDC: Minimum Viable Product (MVP)*, efforts will focus on scoping the pilot together with the consortium and connecting to the EU catalogue to test the functionality of making a dataset findable at the European level. This will likely involve participating in a SG4 hackathon to facilitate the technical connection and onboarding of a dataset that can successfully pass EU-side validation. This may prove challenging as HealthDCAT is still not fully fleshed out, potentially requiring some pragmatic adjustments to the Dutch implementation in the future. In parallel, stakeholder engagement activities will be necessary to begin preparing national data holders for the steps they will need to take to publish dataset descriptions effectively. The need for additional stakeholder engagement was likewise stressed in the Month 6 survey.

Additional risks include the possibility of data holders encountering technical or organisational challenges, the hackathon not taking place or failing to produce the intended outcomes, limited capacity to respond to technical issues, unexpected changes in functionality or documentation, and unresolved matters such as the lack of suitable persistent identifiers for datasets.

To mitigate these risks, the Work Package will pursue cross-Member State collaboration to address shared technical obstacles, actively participate in the hackathon, and, where necessary, use open datasets provided by consortium partners. Efforts will also be made to remain aligned with existing national systems to leverage current expertise, and to collectively interpret and apply evolving requirements and specifications through engagement in CoP SG2. As an interim solution to the identifier challenge, non-persistent identifiers will be used with the understanding that a more permanent solution will need to be developed at a later stage.

Regarding the remaining four indicators, Work Package 6 has not investigated 10 catalogues, despite having received presentations on several catalogues and reviewing those within the consortium. Previous analyses had already indicated that no catalogues were available that were (Health)DCAT-ready. They likewise did account for an EU catalogue landscape analysis, including indication of maturity and DCAT-readiness. Consequently, further analysis of catalogues was deemed irrelevant, and the focus shifted to defining the actual requirements needed for the HDAB infrastructure.

Multiple stakeholder consultations were organised, including an initial orienting workshop in June 2024, a breakout session during a larger stakeholder kick-off meeting in September 2024, and two dedicated sessions on requirements and specifications at the beginning of 2025, prior to the completion of the abovementioned Deliverable. This session was used to incorporate feedback from stakeholders on requirements or textual adjustments. In addition, a working group space has been established within the digital community provided by our Ministry to facilitate communication on the status and activities of our direct grant project.

Alignment with other projects was similarly achieved in 2024 through participation in CoP SG2 and by engaging in consultations organised by Nictiz on documentation from JA TEHDAS2. The Work Package also took part in release sessions hosted by the HealthData@EU pilot, webinars on the EHDS, and a demonstration session by the Quantum project on data labelling.

Table 7: summary indicators progress Work Package 6: National Dataset Catalogue

Indicator	Target	Status
Delivery Milestone M20: <i>Draft requirements, Specifications and Prototype</i>	30-11-2024	Partly reached
Delivery Deliverable D6.1: <i>Requirements and specifications</i>	28-2-2025	Partly reached
Delivery Milestone M21: <i>HDC: Minimum Viable Product (MVP)</i>	31-5-2026	On track
Analysed dataset catalogues	10	Partly reached

Stakeholder consultations	3	Reached
Consultations with related initiatives	3	Reached
Integrated feedback from stakeholders	50%	Reached

Work Package 7: Secure Processing Environments

The questionnaire for Work Package 7: Secure Processing Environment included ten questions, eight of which focused on the indicator framework. These can be summarised as follows:

- The timely delivery of Milestone M23: *Draft requirements and Specification*
- The timely delivery of Deliverable D7.1: *Requirements and specifications*
- The timely delivery of Milestone M24: *SPE: Minimum Viable Product (MVP)*
- Analysed SPEs
- Consultations with related initiatives
- Stakeholder consultations
- Input different stakeholder groups
- Integrated feedback from stakeholders

Regarding the delivery of Milestone M23: *Draft requirements and Specification*, the Work Package successfully met the planned deadline of 30-11-2024, although the scope of the Milestone had to be adjusted to focus solely on legal requirements due to delays in external stakeholder engagement caused by political reasons — similar to Work Package 5 and the results from the Month 6 survey. Business and stakeholder requirements will therefore be included in phase 2 of the project. The same holds true for the delivery of Deliverable D7.1: *Requirements and Specifications*. The deadline of 28-2-2025 was reached, albeit the scope had to be reduced.

Referencing the delivery of the next product, Milestone M24: *DAAMs: Minimum Viable Product (MVP)*, meeting the deadline will be dependent on clear scoping of project phase 2 and 3 by the project coordinator and the Dutch Ministry of Health. It will likewise require coordination on MVP integration across work packages, alignment with the HealthData@EU architecture, and agreement on functionality expectations.

The targets for all other indicators were reached, with no additional comments from the Work Package leader.

Table 8: summary indicators progress Work Package 7: Secure Processing Environment

Indicator	Target	Status
Delivery Milestone M23: <i>Draft requirements and Specification</i>	30-11-2024	Partly reached
Delivery Deliverable D7.1: <i>Requirements and specifications</i>	28-2-2025	Partly reached
Milestone M24: <i>SPE: Minimum Viable Product (MVP)</i>	31-5-2026	On track

Analysed SPEs	7	Reached
Consultations with related initiatives	2	Reached
Stakeholder consultations	1	Reached
Input different stakeholder groups	3	Reached
Integrated feedback from stakeholders	50%	Reached

### Work Package 8 Infrastructural Solutions

The questionnaire for Work Package 8: Infrastructural Solutions included nine questions, seven of which focused on the indicator framework. These can be summarised as follows:

- The timely delivery of Milestone M26: *Draft requirements, Specifications and Prototype*
- The timely delivery of Milestone M29: *Governance Decisions*
- The timely delivery of Deliverable D8.1: *Requirements and Specifications*
- The timely delivery of Milestone M27: *Cross-border gateway Minimum Viable Product (MVP)*
- Analysed existing requirements and specifications for a transnational data gateway
- Analysed sources for national baseline generic services transnational gateway
- Analysed initiatives for European baseline generic services transnational gateway

Regarding the delivery of Milestone M26: *Draft requirements, Specifications and Prototype*, Milestone M29: *Governance Decisions*, and Deliverable D8.1: *Requirements and Specifications*, all deadlines were rescheduled to 2-5-2025. This was done to account for the final publication of the EHDS Regulation and the interdependence between several (technical) work packages within the project. Similar risks were likewise mentioned in the Month 6 survey as much of the work is synergising the efforts from the other technical Work Packages.

Referring to the delivery of the next product, Milestone M27: *DAAMs: Minimum Viable Product (MVP)*, Work Package 8 foresees three main activities in the upcoming year: designing the architecture of the MVPs, testing these MVPs via real life use cases, and adjusting the MVP's while documenting the building and testing process. No risks are currently foreseen regarding the on-time delivery of this Milestone.

The targets for all other indicators were reached, with no additional comments from the Work Package leader.

Table 9: summary indicators progress Work Package 8: Infrastructural Solutions

Indicator	Target	Status
Delivery Milestone M26: <i>Draft requirements, Specifications and Prototype</i>	30-11-2024	Partly reached
Delivery Milestone M29: <i>Governance decisions</i>	30-11-2024	Partly reached

Delivery Deliverable D8.1: <i>Requirements and Specifications</i>	28-2-2025	Partly reached
Delivery Milestone M27: Cross-border gateway <i>Minimum Viable Product (MVP)</i>	31-5-2026	On track
Analysed requirements and specifications for transnational data gateway	2	Reached
Analysed sources national baseline generic services transnational gateway	2	Reached
Analysed initiatives European baseline generic services transnational gateway	2	Reached

### Work Package 9: Data Quality Enhancement

The questionnaire for Work Package 9: Data Quality Enhancement included six questions, four of which focused on the indicators framework. These can be summarised as follows:

- The timely delivery of Milestone M30: *Draft data quality assessment framework: data quality labelling*
- Analysed literature on data quality
- Described components data quality framework (DQF)
- Organised stakeholder consultations

Regarding the delivery of Milestone M30: *Draft data quality assessment framework: data quality labelling*, the content of the Milestone had to be adjusted significantly to account for the progress made in the QUANTUM project on developing a data quality and utility label for the EHDS. The current focus will be on supporting Dutch Data Holders and future HDAB-NL, as opposed to creating a national data quality labelling framework. Progress with this new scope is on track to reach the planned deadline of 31-7-2025.

Regarding the remaining three indicators, Work Package 9 reported that all targets were successfully achieved. No other comments were made.

Table 10: summary indicators progress Work Package 9: Data Quality Enhancement

Indicator	Target	Status
Delivery M30: data quality labelling	31-7-2025	On track
Analysed literary data quality	25	Reached
Described components DQF	5	Reached
Organised stakeholder consultations	3	Reached

### Work Package 10: Establishment of a Coordinating Health Data Access Body

The questionnaire for Work Package 10: Establishment of a Coordinating Health Data Access Body included eleven questions, of which nine focused on the indicators framework. These can be summarised as follows:

- The timely delivery of Milestone M33: *Assessment of needs from data holders and users to establish a coordinating Health Data Access Body*
- The timely delivery of Deliverable D10.1: *Advisory report on the needs and interests from data holders and data users*
- The timely delivery of Deliverable D10.2: *Report on the preferred scenario based on the needs and interests of stakeholders*
- Participants per stakeholder meeting
- Meetings with other initiatives
- Internal work group meetings
- CoP subgroups
- Integrated input other work packages
- Included governance scenarios

Regarding the delivery of Milestone M33: *Assessment of needs from data holders and users to establish a coordinating Health Data Access Body* and Deliverable D10.1: *Advisory report on the needs and interests from data holders and data users*, both deadlines were met on time – despite some risks mentioned in the month 6 survey. For the next product, Deliverable D10.2: *Report on the preferred scenario based on the needs and interests of stakeholders*, the respondent noted that the document will contain a discussion on the MVPs with stakeholders (e.g., data holders, data users, citizens, facilitators) to assist with the drafting of an impact assessment. Everything is on schedule, though the deadline of 30-11-2025 is tight.

The targets for all indicators were either reached or on track. With reference to the target of three governance scenarios, although the target was achieved, the scenarios were omitted from the public report; careful consultation will take place prior to the publication of next report.

Table 11: summary indicators progress Work package 10: Establishment of a Coordinating Health Data Access Body

Indicator	Target	Status
Delivery Milestone M33: <i>Assessment of needs from data holders and users to establish</i>	31-2-2025	Reached
Delivery Deliverable D10.1: <i>Advisory report on the needs and interests from data holders and data users</i>	31-3-2025	Reached
Delivery Deliverable D10.2: <i>Report on the preferred scenario based on the needs and interests of stakeholders</i>	30-11-2025	On track
Participants per stakeholder meeting	100	Reached
Meetings with other initiatives	15	On track

Internal work group meetings	4	Reached
CoP subgroups	6	Reached
Integrated input other work packages	100%	Reached
Included governance scenarios	3	Reached

## 6. Conclusion

The current Deliverable represents a synthesis of the indicators framework (Milestone 13), the periodic Month 6 survey (May 2024), and the Month 18 survey (April 2025). While the indicators framework was used to develop a relevant measurement methodology for each work package, the first two rounds of the periodic survey assessed both overall project satisfaction (1) and work package-specific progress and areas for improvement (2). This document aims to provide insights into the current progress of the HDAB-NL project and identify potential areas for improvement, which will, in turn, be compared to the findings from the next two survey rounds in May 2026 and May 2027.

An assessment of the results from the two survey rounds shows a steady increase in general satisfaction across all four predefined aspects of the project, with overall coordination and internal teamwork receiving particularly high ratings. Inter alia, the scores ranged from moderately high to relatively high, with average ratings between 3 and 4:

- Teamwork within the HDAB-NL consortium
  - Month 6 survey: avg. 3.64
  - Month 18 survey: avg. 3.91
- Overall progress of the HDAB-NL project
  - Month 6 survey: avg. 3.27
  - Month 18 survey avg. 3.36
- Internal communication between consortium partners
  - Month 6 survey: avg. 3.55
  - Month 18 survey: avg. 3.91
- Overall coordination of the HDAB-NL project
  - Month 6 survey: avg. 3.73
  - Month 18 survey: avg. 3.91

In both survey rounds, the lowest satisfaction score pertains to the project's overall progress. In the Month 6 survey, comments in the open space underscored the necessity for improved stakeholder management, more robust internal communication, and better alignment with the project's timetable. The first point in particular led to some delays in the publication and a reduction in the scope of documents from the technical work packages, as noted in the Month 18 survey. At the same time, significant improvements have been made in this area through the establishment of, for example, the two advisory boards (MAR and EG), as well as strengthened

efforts within Work Package 2: Communication. Moreover, internal communication appears to have improved, as reflected in the higher average score — an observation already noted by one respondent in the Month 6 survey. The same appears to hold true for the project's timetables, with increased efforts directed towards formulating concrete steps for iterating and piloting the MVPs — an observation underscored by multiple respondents in the Month 18 survey.

Nonetheless, respondents also mention several challenges that will remain high on the agenda in the upcoming period, such as dependencies on external initiatives with poorly aligned deadlines (notably JA TEHDAS2, the iterations of HealthData@EU, and the pending market analysis), the need for continuous stakeholder engagement, internal discussions on the scope of the pilot phase, and staff changes in key positions. These points will be closely monitored in the upcoming survey round.

Regarding the work package-specific questions, a total of 84 indicators were reported by respondents. These relate to progress made in 2024 and are based on indicators formulated through an iterative process in Q1 2024. They cover areas such as on-time delivery of Milestones and Deliverables, the status of upcoming publications, and various process indicators used to assess the quality of the methodology applied in each work package to achieve its predefined objectives. The results are positive, although there are areas for improvement. Specifically, 64 indicators were either met or were on track, 16 indicators were partially met, and 4 indicators were not met. The indicators that were not reached or partly reached are as follows:

- **Not reached:**
  - Work Package 1: Management and Coordination - high satisfaction with the progress of the project
  - Work Package 2a: Communication- website traffic HDAB-NL community
  - Work Package 2b: Training and Support- interviews with end-users and work package leaders on the training portal
  - Work Package 4: Sustainability: external consultations
- **Partly reached:**
  - Work Package 1: on-time publication of Milestones and Deliverables
  - Work Package 2a: HDAB-NL community members
  - Work Package 2b: interviews with end-users and work package leaders training portal
  - Work Package 2b: training and Support analysed training material
  - Work Package 4: organised interviews sustainability plan
  - Work Package 4: organised interviews business continuity plan
  - Work package 5: delivery M17: *Draft requirements, Specifications and Prototype*
  - Work package 5: delivery Deliverable D5.1: *Requirements, Specifications and Prototype*
  - Work Package 6: delivery Milestone M20- *Draft requirements, Specifications and Prototype*
  - Work Package 6: delivery Deliverable D6.1- *Requirements and specifications*
  - Work Package 6: analysed dataset catalogues

- Work Package 7: delivery Milestone M23- *Draft requirements and Specification*
- Work Package 7: delivery Deliverable D7.1- *Requirements and specifications*
- Work Package 8: delivery Milestone M26- *Draft requirements, Specifications and Prototype*
- Work Package 8: delivery Milestone M29- *Governance decisions*
- Work Package 8: delivery Deliverable D8.1- *Requirements and Specifications*

It should be noted that, for both the unmet and partially met indicators, Work Package leaders provided valid reasons for the deviations. These include, for example, dependencies on the publication of external documents (such as the delayed EHDS, or publications from JA TEHDAS2), the timing of stakeholder engagement activities, or the general observation that certain indicators are either only relevant at a later stage of the project or are already nearing completion. Moreover, general satisfaction with the overall progress of the project has steadily increased over time, with most indicators coming very close to their benchmarks in the Month 16 survey.

At the same time, the report did highlight areas for improvement. Taking these findings into account, the next step for Work Package 3: Evaluation is to discuss with the project coordination team, work package leaders, and Tactical Committee targeted actions to address the identified challenges. The first of these meetings is scheduled for the next quarterly meeting in July 2025. Progress and the effectiveness of these measures will be monitored and assessed in the next survey round scheduled for May 2026.

## 7. Bibliography

1. **European Commission.** European data strategy. [Online] 2022. [Cited: 17-03-2025] Online access at: [https://ec.europa.eu/info/strategy/priorities-2019-2024/europe-fit-digital-age/european-data-strategy\\_en](https://ec.europa.eu/info/strategy/priorities-2019-2024/europe-fit-digital-age/european-data-strategy_en)
2. **Hansen et al.** (2021). Assessment of the EU Member States' rules on health data in the light of GDPR. [Online] 2021. [Cited: 17-03-2025]. Online access at: [Assessment of the EU Member States' rules on health data in the light of GDPR. | Nivel](#)
3. **JA TEHDAS1.** TEHDAS suggests options to overcome data barriers. [Online] 2022. [Cited: 19-03-2025]. Online access at: <https://tehdas.eu/results/tehdas-suggests-options-to-overcome-data-barriers/>
4. **JA TEHDAS1.** TEHDAS' proposals for clarifying EHDS governance. [Online] 2023. [Cited: 19-03-2025]. Online access at: [TEHDAS' proposals for clarifying EHDS governance- Tehdas](#)

5. **EUR-Lex.** Proposal for a REGULATION OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL on the European Health Data Space- COM/2022/197 final. [Online] 2022. [Cited: 17-03-2025]. Online access at: [EUR-Lex- 52022PC0197- EN- EUR-Lex \(europa.eu\)](#)
6. **EUR-Lex.** Regulation (EU) 2025/327 of the European Parliament and of the Council of 11 February 2025 on the European Health Data Space and amending Directive 2011/24/EU and Regulation (EU) 2024/2847. [Online] 2025. [Cited: 17-03-2025]. Online access at: [Regulation- EU- 2025/327- EN- EUR-Lex](#)
7. **Findata.** Finnish Social and Health Data Permit Authority Findata. [Online] not dated. [Cited: 26-03-2025]. Online access at: [Findata- Social and Health Data Permit Authority](#)
8. **Health Data Agency (HDA).** Belgian Health Data Agency, For Better Healthcare, Research & Policy making. [Online] not dated. [Cited: 26-03-2025]. Online access at: [Homepage | Health Data Agency \(belgium.be\)](#)
9. **Health Data Hub.** Nous garantissons l'accès aisé et unifié, transparent et sécurisé, aux données de santé pour améliorer la qualité des soins et l'accompagnement des patients. [Online] not dated. [Cited: 26-03-2025]. Online access at: [Page d'accueil | Health Data Hub \(health-data-hub.fr\)](#)
10. **Helsedata.** About helsedata.no. [Online] not dated. [Cited: 26-03-2025]. Online access at: [About helsedata.no](#)
11. **Sundhedsdatastyrelsen.** The Danish Health Data Authority. [Online] not dated. [Cited: 26-03-2025]. Online access at: [English- Sundhedsdatastyrelsen](#)
12. **OECD.** Towards an Integrated Health Information System in the Netherlands. [Online] 2022. [Cited: 26-03-2025]. Online access at: [Towards an Integrated Health Information System in the Netherlands | en | OECD](#)
13. **JA TEHDAS1.** TEHDAS country visits: The Netherlands. [Online] 2023. [Cited: 26-03-2025]. Online access at: [TEHDAS country visits- Tehdas](#)
14. **EU4Health Project (EU4H).** Invitation to submit proposals Direct Grants to Member States' authorities (EU4H-2022-DGA-MS-IBA2). [Online] 2023. [Cited: 26-03-2025]. Online access at: [Calls for proposals- European Commission \(europa.eu\)](#)
15. **HDAB-NL.** Milestone 13: Definition of action level indicators framework. [Cited: 17-04-2025]. Not publicly available.
16. **Department for International Development** (2013). Indicators of Inputs, Activities, Outputs, Outcomes and Impacts in Security and Justice Programming. [Online] 2013. [Cited: 17-04-2025]. Online access at: [Indicators of Inputs, Activities, Outputs, Outcomes and Impacts in Security and Justice Programming | Vera Institute](#)

17. **InfAct**. WP 1-3: Coordination, Dissemination, and Evaluation. [Online] not dated. [Cited: 17-04-2025]. Online access at: [WP 1-3 : Coordination, Dissemination, and Evaluation | inf-act.eu](https://inf-act.eu)

18. **JA TEHDAS1**. Project. [Online] not dated. [Cited: 26-03-2025]. Online access at: [Project- Tehdas](#)

19. **HDAB-NL**. Deliverable 1.1: Mid-term overall progress and advisory board report. [Cited: 17-04-2025]. Not publicly available.

## 8. Annex i: list of indicators per work package

**Table 12: Work Package 1 evaluation matrix: Management and Coordination**

Objectives	Target	Target value
O.1.1: High quality project management	High satisfaction with the progress of the project	Score of 4/5 on quantitative survey questions
O.1.2: Timely and robust financial management	Target percentage on-time delivered financial statements from the consortium partners	100%
O.1.3: Sound internal communication between WPs and external communication to relevant stakeholders	Target number of organised quarterly meetings	4 per year
	Target number of organised steering group meetings	5 per year
	Target number of organised advisory board meetings	5 in total: *Kick-off, *30/11/2024 *30/11/2025 *30/11/2026 *30/11/2027
O.1.4: Timely delivery of Milestones and Deliverables	Target percentage of Milestones and Deliverables published in line with the European deadline	100%
	On-time delivery of Deliverable 1.1: <i>Mid-term overall progress and advisory board report</i> (European deadline) 30-11-2024	
	On-time delivery of Deliverable 1.2: <i>Mid-term overall progress and advisory board report 2</i> (European deadline) 30-11-2025	

On-time delivery of Deliverable 1.3: *Mid-term overall progress and advisory board report 3* (European deadline) 30-11-2026

On-time delivery of Deliverable 1.4: *Final overall progress and advisory board report* (European deadline) 30-11-2027

Table 13: Work Package 2 evaluation matrix: Dissemination (T2.1)

Indicator type	Indicator	Target value
<b>Process indicators</b>		
	Target number of participants per dedicated stakeholder meetup	100 participants
	Target website traffic	1200 page views per year
	Target number of HDAB online community members (dedicated Zorgbrede Community page)	300 members
	Target number of co-creation working groups	4 working groups
	Target number of published news articles regarding HDAB-NL in Dutch media	10 articles
<b>Output indicators</b>		
	On-time delivery of Milestone 10: <i>Dissemination campaign: information campaign</i> (European deadline)	31-5-2024
	On-time delivery of Milestone 6: <i>Dissemination campaign: integral communication</i> (European deadline)	30-11-2024
	On-time delivery of Milestone 7: <i>Implementation of information campaign phase 1</i> (European deadline)	31-5-2025
	On-time delivery of Milestone 8: <i>Implementation of information campaign phase 2</i> (European deadline)	31-5-2026
	On-time delivery of Milestone 9: <i>Implementation of information campaign phase 3</i> (European deadline)	31-7-2027
<b>Outcome indicators</b>		
	On-time delivery of Deliverable 2.1: <i>Communication and training plan</i> (European deadline)	31-3-2025
	On-time delivery of Deliverable 2.5: <i>Evaluation communication and training campaign</i> (European deadline)	30-11-2027

High-quality information campaign to inform stakeholders

Indicator(s) and target value(s) will be based on the internal review by the Work Package

Table 14: Work Package 2 evaluation matrix: Training and Support (T2.2 & T2.3)

Indicator type	Task & phase	Target	Target value
<b>Process indicators</b>			
	>T2.2: Training (phase 1 & 2)	Target number of analysed training portals	5 training portals
		Target number of analysed training material	20 materials
		Target number of scheduled interviews with end-users & work package leaders on training material	10 interviews
		Target number of scheduled interviews with end-users & work package leaders on the training portal	10 interviews
	>T2.2: Training (phase 3)	Target number of organised webinars/workshops on newly developed material	Indicator(s) and target value(s) to be developed in survey month 30
		Target number of newly developed e-learners or guidelines	Indicator(s) and target value(s) to be developed in survey month 30
	>T.2.3: Helpdesk (phase 2)	Target number of distinct workflows (persona)	3 workflows
	>T.2.3: Helpdesk (phase 3)	Target number of FAQ	Indicator(s) and target value(s) to be developed in survey month 30
<b>Output indicators</b>			
	>T2.2: Training	On-time delivery of Deliverable 2.1: <i>Training &amp; strategy plan</i>	31-3-2025
		On-time delivery of Milestone 11: <i>Training material</i> (European deadline)	31-3-2026
	>T.2.3: Helpdesk	On-time delivery of Milestone 12: <i>Helpdesk</i> (European deadline)	30-11-2025
		On-time delivery of Deliverable 2.6: <i>Service</i>	30-11-2026

<i>desk plan</i> (European deadline)			
Outcome indicators	>T2.2: Training	On-time delivery of Deliverable 2.2: <i>Training project</i> (European deadline)	31-7-2026
		On-time delivery of Deliverable 2.3: <i>Training portal version 1</i> (European deadline)	28-2-2027
		High satisfaction with functioning first version trainings portal	Indicator(s) and target value(s) to be developed in survey month 30
		Target number of views on the dedicated Zorgbrede Community page Deliverable 2.3: <i>Training portal version 1</i>	100 views
		On-time delivery of Deliverable 2.4: <i>Training portal version 2</i> (European deadline)	30-11-2027
		High satisfaction with functioning of second version trainings portal	Indicator(s) and target value(s) to be developed in survey month 30
		Target number of views on the dedicated Zorgbrede Community page Deliverable 2.4: <i>Training portal version 2</i>	100 views
		On-time delivery of Deliverable 2.5: <i>Training evaluation report</i> (European deadline)	30-11-2027
	>T.2.3: Helpdesk	On-time delivery of Deliverable 2.6: <i>Service desk plan</i> (European deadline)	30-11-2026
		Target number of views on the dedicated Zorgbrede Community page Deliverable 2.6: <i>MS Service Desk Plan</i>	100 views

Table 15: Work Package 4 evaluation matrix: Sustainability

Indicator type	Target	Target value
Process indicators	Target number of analysed literature business continuity plan	20 literary sources
	Target number of organised workshops business continuity plan	5 workshops
	Target number of interviews/meeting with experts for business continuity plan	10 interviews
	Target number of analysed literature sustainability plan	20 literary sources
	Target number of organised workshops sustainability plan	5 workshops
	Target number of interviews with experts for sustainability plan	10 interviews
	Target percentage integrated inputs (Milestones & Deliverables) from other work packages	100% of products read and integrated where relevant
	Target number of stakeholder consultations	3 consultations
	Output indicators	

	On-time delivery of Milestone 15: <i>Preparation of a sustainability plan</i> (European deadline)	30-11-2025
	On-time delivery of Milestone 16: <i>Preparation of a business continuity plan</i> (European deadline)	30-11-2025
	Targeted number of elaborated on calamities in preparation business continuity plan	5 calamities
<b>Outcome indicators</b>		
	On-time delivery of Deliverable 4.1: <i>Sustainability plan</i> (European deadline)	31-7-2027
	Target number of views on the dedicated Zorgbrede Community page for D4.1: <i>Sustainability plan</i>	100 views
	On-time delivery of Deliverable 4.2: <i>Business continuity plan</i> (European deadline)	31-7-2027
	Targeted number of elaborated on calamities in D4.2: <i>Business continuity plan</i>	7 calamities
	Target number of views on the dedicated Zorgbrede Community page for D4.2: <i>Business continuity plan</i>	100 views

**Table 16: Work Package 5 evaluation matrix: National Data Access Application Management System (DAAMs)**

Indicator type	Phase	Target	Target value
<b>Process indicators</b>			
	>Phase 1: Analysis & design	Target number of analysed DAAMs as input for D5.1	7 DAAMs
		Target number of consultations with EHDS-related initiatives (i.e., TEHDAS2, HealthData@EU)	3 consultations
		Target number of stakeholder consultation sessions as input for D5.1	1 consultation
		Target number of stakeholder groups providing input to D5.1	3 stakeholder groups
		Target percentage of processed feedback from stakeholders as input for D5.1	50%
	>Phase 2: Implementation of a pilot	Indicator(s) and target value(s) to be developed from Q2 2025 to Q1 2026	n/a
	>Phase 3: Publication & implementation of the business capability 'DAAMs'	Indicator(s) and target value(s) to be developed after completion of pilot phase 2	n/a
<b>Output indicators</b>			

>Phase 1: Analysis & design	On-time delivery of Milestone 17: <i>Draft requirements, specifications and prototype</i> (European deadline)	20-11-2024
>Phase 2: Implementation of a pilot	On-time delivery of Milestone 18: <i>Minimum Viable Product (MVP)</i> (European deadline)	31-5-2026
>Phase 3: Publication & implementation of the business capability 'DAAMs'	On-time delivery of Milestone 19: <i>Operational Product (OP)</i> (European deadline)	31-5-2027
<b>Outcome indicators</b>		
>Phase 1: Analysis & design	On-time delivery of Deliverable 5.1: <i>Requirements, specifications and prototype</i> (European deadline)	28-2-2025
	Target number of views on the dedicated Zorgbrede Community page Deliverable 5.1: <i>Requirements, specifications and prototype</i>	100 views
>Phase 2: Implementation of a pilot	On-time delivery of Deliverable 5.2: <i>Definitive report and prototype</i> (European deadline)	31-8-2026
	Target number of views on the dedicated Zorgbrede Community page Deliverable 5.2: <i>Definitive report and prototype</i>	100 views
	High satisfaction with the functioning of prototype DAAMs in phase 2	Indicator(s) and target value(s) to be developed from Q2 2025 to Q1 2026
>Phase 3: Publication & implementation of the business capability 'DAAMs'	On-time delivery of Deliverable 5.3: <i>Final report and operational service</i> (European deadline)	31-8-2027
	Target number of views on the dedicated Zorgbrede Community page for Deliverable 5.3: <i>Final report and operational service</i>	100 views
	High satisfaction with the functioning of prototype DAAMs in phase 3	Indicator(s) and target value(s) to be developed after completion of pilot phase 2
	Is the HDAB-NL able to receive, process and reply to national data access applications, and to issue data permits (Grant Agreement indicator O.1.3)	Yes
	Number of data access applications that the HDAB-NL can receive, process and reply per month (Grant Agreement indicator O.1.4)	20
	Average time to process a data access application (Grant Agreement indicator O.1.5)	< 2 months

Table 17: Work Package 6 evaluation matrix: National Dataset Catalogue (NDC)

Indicator type	Phase	Target	Target value
<b>Process indicators</b>			
	>Phase 1: Analysis & design	Target number of analysed dataset catalogues	10 catalogues
		Target number of stakeholder consultations providing input to D6.1	3 consultations
		Target number of consultations with EHDS-related initiatives (i.e., TEHDAS2, HealthData@EU)	3 consultations
		Target percentage of processed feedback from stakeholders as input for D6.1	50%
	>Phase 2: Implementation of a pilot	Indicator(s) and target value(s) to be developed from Q2 2025 to Q1 2026	n/a
	>Phase 3: Publication & implementation of the business capability 'dataset catalogue'	Indicator(s) and target value(s) to be developed after completion of pilot phase 2	n/a
<b>Output indicators</b>			
	>Phase 1: Analysis & design	On-time delivery of Milestone 20: <i>Draft requirements and specifications + prototype</i> (European deadline)	30-11-2024
	>Phase 2: Implementation of a pilot	On-time delivery of Milestone 21: <i>Minimum Viable Products (MVP)</i> (European deadline)	31-5-2026
	>Phase 3: Publication & implementation of the business capability 'dataset catalogue'	On-time delivery of Milestone 22: <i>Operational Product (OP)</i> (European deadline)	31-5-2027
<b>Outcome indicators</b>			
	>Phase 1: Analysis & design	On-time delivery of Deliverable 6.1: <i>Requirements and specifications</i> (European deadline)	28-2-2025
		Target number of views on the dedicated Zorgbrede Community page for Deliverable 6.1: <i>Requirements and specifications</i>	100 views
	>Phase 2: Implementation of a pilot	On-time delivery of Deliverable 6.2: <i>Pilot + report</i> (European deadline)	31-8-2026

	High satisfaction with the functioning of prototype HDC in phase 2	Indicator(s) and target value(s) to be developed from Q2 2025 to Q1 2026
	Target number of views on the dedicated Zorgbrede Community page for Deliverable 6.2: <i>Pilot + report</i>	100 views
>Phase 3: Publication & implementation of the business capability 'dataset catalogue'	On-time delivery of Deliverable 6.3: <i>Operational service</i> (European deadline)	31-8-2027
	High satisfaction with the functioning of prototype HDC in phase 3	Indicator(s) and target value(s) to be developed after completion of pilot phase 2
	Target number of views on the dedicated Zorgbrede Community page for Deliverable 6.3: <i>Operational service</i> (European deadline)	100 views
	Is there a national health dataset catalogue available? (Grant Agreement indicator O.1.6)	Yes, and publicly available
	Number of datasets published in the national dataset catalogue (Grant Agreement indicator O.1.7)	250
	Do the datasets contain a description of the contents? (Grant Agreement indicator O.1.8)	Yes, and in a common format

Table 18: Work Package 7 evaluation matrix: Secure Processing Environment (SPE)

Indicator type	Phase	Target	Target value
Process indicators			
	>Phase 1: Analysis & design	Target number of analysed SPEs as input for D7.1	7 SPEs
		Target number of consultations with EHDS-related initiatives (i.e., TEHDAS2, HealthData@EU)	2 consultations
		Target number of stakeholder consultation sessions as input for D7.1	1 consultation

	Target number of stakeholders providing input to D7.1	3 groups
	Target percentage of processed feedback from stakeholders as input for D7.1	50%
>Phase 2: Implementation of a pilot	Indicator(s) and target value(s) to be developed from Q2 2025 to Q1 2026	n/a
>Phase 3: Publication & implementation of the business capability 'SPE'	Indicator(s) and target value(s) to be developed after completion of pilot phase 2	n/a
<b>Output indicators</b>		
>Phase 1: Analysis & design	On-time delivery of Milestone 23: <i>Draft requirements and specifications + prototype</i> (European deadline)	30-11-2024
>Phase 2: Implementation of a pilot	On-time delivery of Milestone 24: <i>Minimum Viable Product (MVP)</i> (European deadline)	31-5-2026
>Phase 3: Publication & implementation of the business capability 'SPE'	On-time delivery of Milestone 25: <i>Operational Product (OP)</i> (European deadline)	31-5-2027
<b>Outcome indicators</b>		
>Phase 1: Analysis & design	On-time delivery of Deliverable 7.1: <i>Specifications EHDS-SPE</i> (European deadline)	28-2-2025
	Target number of views on the dedicated Zorgbrede Community page for Deliverable 7.1: <i>Specifications EHDS-SPE</i>	100 views
>Phase 2: Implementation of a pilot	On-time delivery of Deliverable 7.2: <i>Definitive report and prototype</i> (European deadline)	28-2-2025
	Target number of views on the dedicated Zorgbrede Community page for Deliverable 7.2: <i>Definitive report and prototype</i>	100 views
	High satisfaction with the functioning of prototype SPE in phase 2	Indicator(s) and target value(s) to be developed from Q2 2025 to Q1 2026
>Phase 3: Publication & implementation of the business capability 'SPE'	On-time delivery of Deliverable 7.3: <i>SPE pilot</i> (European deadline)	31-8-2026
	Target number of views on the dedicated Zorgbrede Community page for Deliverable 7.3: <i>SPE pilot</i>	100 views
	High satisfaction with the functioning of prototype SPE in phase 3	Indicator(s) and target value(s) to be developed after completion of pilot phase 2
	On-time delivery of Deliverable 7.4: <i>Operational services</i>	31-8-2027

Target number of views on the dedicated Zorgbrede Community page for Deliverable 7.4: <i>Operational services</i>	100 views
Is the HDAB-NL able to provide a secure processing environment to data users? (Grant Agreement indicator O.1.9)	Yes
Average time to set up a secure processing environment (Grant Agreement indicator O.1.10)	< 1 month
HDAB-NL provides tools and services to assess data privacy as part of the secure processing environment	Yes

Table 19: Work Package 8 evaluation matrix: Infrastructural Solutions

Indicator type	Phase	Target	Target value
<b>Process indicators</b>			
	>Phase 1: Analysis & design	Target number of analysed existing requirements and specifications for a transnational data gateway	2 existing requirements
		Target number of analysed sources for national baseline generic services transnational gateway	2 sources
		Target number of analysed initiatives for European baseline generic services transnational gateway	2 initiatives
	>Phase 2: Implementation of a pilot	Indicator(s) and target value(s) to be developed from Q2 2025 to Q1 2026	n/a
	>Phase 3: publication & implementation of the business capability 'digital gateway'	Indicator(s) and target value(s) to be developed after completion of pilot phase 2	n/a
<b>Output indicators</b>			
	>Phase 1: Analysis & design	On-time delivery of Milestone 26: <i>Draft requirements and specifications + prototype</i> (European deadline)	30-11-2024
		On-time delivery of Milestone 29: <i>Governance decision</i> (European deadline)	30-11-2024
	>Phase 2: Implementation of a pilot	On-time delivery of Milestone 27: <i>Minimum Viable Products (MVP)</i> (European deadline)	31-5-2026
	>Phase 3: Publication & implementation of the business capability 'digital gateway'	On-time delivery of Milestone 28: <i>Operational Product (OP)</i> (European deadline)	31-5-2027

Outcome indicators

<p>&gt;Phase 1: Analysis &amp; design</p>	<p>On-time delivery of Deliverable 8.1: <i>National connector for cross-border gateway + generic services: requirements and specifications</i> (European deadline)</p>	<p>28-2-2025</p>
	<p>Target number of views on the dedicated Zorgbrede Community page for Deliverable 8.1: <i>Connector for cross-border gateway + generic services: requirements and specification</i></p>	<p>100 views</p>
<p>&gt;Phase 2: Implementation of a pilot</p>	<p>On-time delivery of Deliverable 8.2: <i>Cross-border gateway + generic services: pilot</i> (European deadline)</p>	<p>31-8-2026</p>
	<p>Target number of views on the dedicated Zorgbrede Community page for Deliverable 8.2: <i>Cross-border gateway + generic services: pilot</i></p>	<p>100 views</p>
<p>&gt;Phase 3: Publication &amp; implementation of the business capability 'digital gateway'</p>	<p>On-time delivery of Deliverable 8.3: <i>Cross-border gateway + generic services: operational service</i> (European deadline)</p>	<p>31-8-2027</p>
	<p>Target number of views on the dedicated Zorgbrede Community page for Deliverable 8.3: <i>Cross-border gateway + generic services: operational service</i></p>	<p>100 views</p>
	<p>Is there a national infrastructure connected to the HealthData@EU infrastructure (NCP2)? (Grant Agreement indicator O.2.11)</p>	<p>Yes</p>
	<p>Is the HDAB-NL connected to the national infrastructure (NCP2)? (Grant Agreement indicator O.2.12)</p>	<p>Yes</p>
	<p>Is the HDAB-NL connected to the HealthData@EU infrastructure via the national infrastructure (NCP2)? (Grant Agreement indicator O.2.13)</p>	<p>Yes</p>
	<p>Is the HDAB able to receive, process and reply to cross-border data access applications, and to issue data permits (Grant Agreement indicator O.2.14)</p>	<p>Yes, and to multi-country requests</p>
	<p>Number of cross-border health data access applications that the HDAB can receive, process and reply per month (Grant Agreement indicator O.2.15)</p>	<p>≥1</p>

Are the datasets semantically and technically interoperable? ((Grant Agreement indicator

Yes (n = ≥1), also cross-border and following a common format

Table 20: Work Package 9 evaluation matrix: Data Quality Enhancement

Indicator type	Target	Target value
<b>Process indicators</b>		
Phase 1 process indicators	Target number of analysed literature on data quality	25 literary sources
	Target elaboration on different components for the data quality	5 components
	Target number of stakeholder consultations	3 consultations
Phase 2 process indicators	Target number of organised webinars	5 webinars
	Target number of organised hands-on workshops	5 workshops
	Target average attendance per webinar	50 attendees
	Target average attendance per hands-on workshop	25 attendees
	Target satisfaction rates webinars	Average of 4/5 on quantitative questions
	Target satisfaction rates hands-on workshops	Average of 4/5 on quantitative questions
<b>Output indicators</b>		
	On-time delivery of Milestone 30: <i>Draft data quality assessment framework: data quality labelling</i> (European deadline)	31-7-2025
	On-time delivery of Milestone 31: <i>Draft data quality assessment framework guidelines: maturity model</i> (European deadline)	31-7-2026
	On-time delivery of Milestone 32: <i>Data quality webinar and workshops</i> (European deadline)	31-7-2027
<b>Outcome indicators</b>		
	On-time delivery of Deliverable 9.1: <i>Data quality assessment framework: data quality labelling</i> (European deadline)	31-10-2027
	Target number of views on the dedicated Zorgbrede Community page for Deliverable 9.1: <i>Data quality labelling</i>	100 views
	On-time delivery of Deliverable 9.2: <i>Data quality assessment framework guidelines: maturity model</i> (European deadline)	31-10-2027

Target number of views on the dedicated Zorgbrede Community page for Deliverable 9.2: <i>Quality assessment framework guidelines: maturity mode</i>	100 views
List of tools available for enhancing data quality (Grant Agreement indicator O.3.16)	Data Quality Enhancement plan including user instructions
Are the datasets semantically and technically interoperable? (Grant Agreement indicator O.3.17)	Yes (n = ≥1), also cross-border and following a common format

**Table 21: Work Package 10: establishment of a Coordinating Health data Access Body**

Indicator type	Task	Target	Target value
<b>Process indicators</b>			
	>T10.1: Management of national activities	Target number of participants per stakeholder meeting	100 participants
		Target number of organised meetings with other national initiatives (e.g., IZA or NVS-en)	15 meetings
		Target number of working group meetings	4 internal working group meetings
	>T10.2: Management of international activities	Target number of CoP subgroups in which HDAB-NL participates	6 CoP groups or 100%
	>T10.3 Coordination & reporting	Target percentage integrated inputs (Milestones & Deliverables) from other work packages	100% of products read and integrated where relevant
		Target number of included governance scenarios	3 scenarios
<b>Output indicators</b>			
	>T10.1: Management of national activities	On-time delivery of Milestone 33: <i>Assessment of needs from data holders and users to establish a coordinating Health Data Access Body</i> (European deadline)	31/2/2025
	>T10.2: Management of international activities	On-time delivery of Milestone 34: <i>Participation in the temporary HealthData@EU cross-border governance body and JA TEHDAS2</i> (European deadline)	31-10-2027
	>T10.3 Coordination & reporting	On-time delivery of Deliverable 10.1: <i>Advisory report on the needs and interests from data holders and data users</i> (European deadline)	31-3-2025

Target number of views on the dedicated Zorgbrede Community page for Deliverable 10.1: *Advisory report on the needs and interests from data holders and data users* 100 views

Outcome indicators

>T10.2: Management of international activities On-time delivery of Milestone 35: 31-10-2027  
*Establishment of a national governance and management structure* (European deadline)

>T10.3 Coordination & reporting On-time delivery of Deliverable 10.2: 30-11-2025  
*Report on the preferred scenario based on the needs and interests of stakeholders* (European deadline)

On-time delivery of Deliverable 10.3: 30-11-2026  
*Report on the preferred scenario based on the pilots and temporary cross-border governance body* (European deadline)

On-time delivery of Deliverable 10.4: 31-10-2027  
*Final report on the decision on governance of the coordinating HDAB* (European deadline)

Target number of views on the dedicated Zorgbrede Community page for Deliverable 10.4: *Final report on the decision on governance of the coordinating HDAB* 100 views

Coordinating Health Data Access BodyYes, and with the common (HDAB-NL) appointed and established business capabilities (Grant Agreement indicator 0.1.1) implemented

Percentage of connected HDABs to the coordinating HDAB-NL (Grant Agreement indicator 0.1.2) >50%

## 9. Annex ii: questionnaire baseline survey (month 6)

### 9.1. General questions HDAB-NL

1. How satisfied are you with the teamwork within the HDAB-NL consortium? Please rate the question from 1 (not satisfied at all) to 5 (very satisfied). \*

1	2	3	4	5
---	---	---	---	---

2. How satisfied are you with the overall progress of the HDAB-NL project? Please rate the question from 1 (not satisfied at all) to 5 (very satisfied). \*

1	2	3	4	5
---	---	---	---	---

3. How satisfied are you with the internal communication between the consortium partners within the HDAB-NL project? Please rate the question from 1 (not satisfied at all) to 5 (very satisfied). \*

1	2	3	4	5
---	---	---	---	---

4. How satisfied are you with the overall coordination of the HDAB-NL project? Please rate the question from 1 (not satisfied at all) to 5 (very satisfied). \*

1	2	3	4	5
---	---	---	---	---

5. Please indicate if you have any remarks regarding the progress of the HDAB-NL project.

----------------------

### 9.2. Work package specific questions

6. Please list your affiliated work package (only one work package per response).\*
- Work Package 1 (Management and Coordination)
  - Work Package 2a (Dissemination)
  - Work Package 2b (Training and Support)
  - Work Package 3 (Evaluation)
  - Work Package 4 (Sustainability)
  - Work Package 5 (DAAMs)
  - Work Package 6 (National Dataset Catalogue)
  - Work Package 7 (Secure Processing Environments)
  - Work Package 8 (Infrastructural Solutions)
  - Work Package 9 (Data Quality Enhancement)

- Work Package 10 (Establishment of a Coordinating HDAB)

### Work Package 1: Management and Coordination

**7. O.1.2: Timely and robust financial management:** please indicate the number of on-time provided financial statements by the consortium partners. Is this number in line with the target of **100%** (all partners have provided their financial statements on time for the respective months of the project). If not, please indicate the reason for deviation.\*

**8. O.1.3 Sound internal communication:** please indicate the number of organised quarterly meetings. Is this number on track to reach the target value of **16 meetings by Q4 2027 (average of 4 per year)**? If not, please indicate the reason for deviation.\*

**9. O.1.3 Sound internal communication:** please indicate the number of organised steering group meetings. Is this number on track to reach the target value of **20 meetings by Q4 2027 (average of 5 per year)**? If not, please indicate the reason for deviation.\*

**10. O.1.3 Sound internal communication:** please indicate the number of organised advisory board meetings. Is this number on track to reach the target value of **one meeting per year (4 meetings by Q4 2027)**? If not, please indicate the reason for deviation.\*

**11. O.1.4 Timely delivery of Milestones and Deliverables:** take a close look at Milestones MS2 to MS5 on organising advisory board meetings. Please provide an outlook of the main activities to be performed before the next Work Package 3 survey (**05-2025**). Are there any potential risks to reach the planned deadlines in

time?\*

- 12.** O.1.4 Timely delivery of Milestones and Deliverables: take a close look at Deliverables D1.1 to D1.4 on progress and advisory board reports. Please provide an outlook of the main activities to be performed before the next Work Package 3 survey (05-2025). Are there any potential risks to reach the planned deadlines in time?\*

### Work Package 2a: Dissemination

- 13.** Take a close look at **M10**: *Dissemination campaign: information campaign*. Is the Work Package on track to reach the European deadline of **31/05/2024**? If not, please indicate the reason for deviation.\*

- 14.** Take a close look at **M6**: *Dissemination campaign: integral communication*. Please provide an outlook of the main activities to be performed before the next Work Package 3 survey (05- 2025). Are there any potential risks to reach the planned European deadline of **30-11-2024** in time?\*

- 15.** Take a close look at **D2.1**: *Communication and training plan*. Please provide an outlook of the main activities to be performed before the next Work Package 3 survey (05-2025). Are there any potential risks to reach the planned European deadline of **31-03-2025** in time?\*

- 16.** Take a close look at **M7: *Implementation of information campaign phase 1.*** Please provide an outlook of the main activities to be performed before the next Work Package 3 survey (**05- 2025**). Are there any potential risks to reach the planned European deadline of **31-05-2025** in time?\*

- 17.** Please indicate if you have any other comments.

### Work Package 2b: Training and Support

- 18.** Take a close look at **D2.1: *Training & strategy plan.*** Please provide an outlook of the main activities to be performed before the next Work Package 3 survey (**05-2025**). Are there any potential risks to reach the planned European deadline of **31-03-2025** in time?\*

- 19.** Please indicate if you have any other comments.

### Work Package 3: Evaluation

- 20.** Take a close look at **M13: *Definition of action level indicators framework.*** Is the work package on track to reach the European deadline of **31/05/2024**? If not, please indicate the reason for deviation.\*

- 21.** Take a look at the deadlines for the planned surveys to work package leaders (month 6, month 18, month 30, and month 42). Please provide an outlook of the

main activities to be performed before the next Work Package 3 survey (05-2025). Are there any potential risks to reach the planned European deadlines in time?\*

22. Please indicate if you have any other comments.

#### Work Package 4: Sustainability

23. Take a close look at M15: *Preparation of a sustainability plan*. Please provide an outlook of the main activities to be performed before the next Work Package 3 survey (05-2025). Are there any potential risks to reach the planned European deadline of 30-11-2025 in time?\*

24. Take a close look at M16: *Preparation of a business continuity plan*. Please provide an outlook of the main activities to be performed before the next Work Package 3 survey (05-2025). Are there any potential risks to reach the planned European deadline of 30-11-2025 in time?\*

25. Please indicate if you have any other comments.

#### Work Package 5: National data access application management system (DAAMs)

26. Take a close look at M17: *Draft requirements, Specifications and Prototype*.

Please provide an outlook of the main activities to be performed before the next Work Package 3 survey (05- 2025). Are there any potential risks to reach the planned European deadline of 20-11-2024 in time?\*

**27.** Take a close look at **D5.1: Requirements, Specifications and Prototype**. Please provide an outlook of the main activities to be performed before the next Work Package 3 survey (05- 2025). Are there any potential risks to reach the planned European deadline of 28-02- 2025 in time?\*

**28.** Please indicate if you have any other comments.

### Work Package 6: National Dataset Catalogue

**29.** Take a close look at **M20: Draft requirements and specifications + prototype**. Please provide an outlook of the main activities to be performed before the next work Package 3 survey (05- 2025). Are there any potential risks to reach the planned European deadline of 30-11-2024 in time?\*

**30.** Take a close look at **D6.1: Requirements and specifications**. Please provide an outlook of the main activities to be performed before the next Work Package 3 survey (05-2025). Are there any potential risks to reach the planned European deadline of 28-02-2025 in time?\*

31. Please indicate if you have any other comments.

### Work Package 7: Secure Processing Environments

32. Take a close look at **M23: Draft Requirements and Specifications + Prototype**. Please provide an outlook of the main activities to be performed before the next Work Package 3 survey (**05-2025**). Are there any potential risks to reach the planned European deadline of **30-11-2024** in time?\*

33. Take a close look at **D7.1: Specifications EHDS-SPE**. Please provide an outlook of the main activities to be performed before the next Work Package 3 survey (**05-2025**). Are there any potential risks to reach the planned European deadline of **28-02-2025** in time?\*

34. Please indicate if you have any other comments.

### Work Package 8: Infrastructural Solutions

35. Take a close look at a close look at **M26: Draft Requirements and Specifications + Prototype**. Please provide an outlook of the main activities to be performed before the next Work Package 3 survey (**05-2025**). Are there any potential risks to reach the planned European deadline of **30-11-2024** in time?\*

**36.** Take a close look at **M29: Governance decision**. Please provide an outlook of the main activities to be performed before the next Work Package 3 survey (**05-2025**). Are there any potential risks to reach the planned European deadline of **30-11-2024** in time?\*

**37.** Take a close look at **D8.1: National Connector for Cross-border gateway + Generic services: Requirements and Specifications**. Please provide an outlook of the main activities to be performed before the next Work Package 3 survey (**05-2025**). Are there any potential risks to reach the planned European deadline of **28-02-2025** time?\*

**38.** Please indicate if you have any other comments.

### Work Package 9: Data Quality Enhancement

**39.** Take a close look at **M30: Draft data quality assessment framework: data quality labelling**. Please provide an outlook of the main activities to be performed before the next Work Package 3 survey (**05-2025**). Are there any potential risks to reach the planned European deadline of **31-07-2025** in time?\*

**40.** Please indicate if you have any other comments.

## Work Package 10: Establishment of a Coordinating Health Data Access Body

- 41.** Take a close look at **M33: Assessment of needs from data holders and users to establish a coordinating Health Data Access Body**. Please provide an outlook of the main activities to be performed before the next Work Package 3 survey (**05-2025**). Are there any potential risks to reach the planned European deadline of **31-02-2025** in time?\*

- 42.** Take a close look at **D10.1: Advisory report on the needs and interests from data holders and data users**. Please provide an outlook of the main activities to be performed before the next Work Package 3 survey (**05-2025**). Are there any potential risks to reach the planned European deadline of **31-03-2025** in time?\*

- 43.** Please indicate if you have any other comments.

## 10. Annex iii: questionnaire first periodic survey (month 18)

### 10.1. General questions HDAB-NL

1. How satisfied are you with the teamwork within the HDAB-NL consortium? Please rate the question from 1 (not satisfied at all) to 5 (very satisfied). \*

1	2	3	4	5
---	---	---	---	---

2. How satisfied are you with the overall progress of the HDAB-NL project? Please rate the question from 1 (not satisfied at all) to 5 (very satisfied). \*

1	2	3	4	5
---	---	---	---	---

3. How satisfied are you with the internal communication between the consortium partners within the HDAB-NL project? Please rate the question from 1 (not satisfied at all) to 5 (very satisfied). \*

1	2	3	4	5
---	---	---	---	---

4. How satisfied are you with the overall coordination of the HDAB-NL project? Please rate the question from 1 (not satisfied at all) to 5 (very satisfied). \*

1	2	3	4	5
---	---	---	---	---

5. Please indicate if you have any remarks regarding the progress of the HDAB-NL project.

### 10.2. Work package specific questions

6. Please list your affiliated work package (only one work package per response) \*

- Work Package 1 (Management and Coordination)
- Work Package 2a (Dissemination)
- Work Package 2b (Training and Support)
- Work Package 3 (Evaluation)
- Work Package 4 (Sustainability)
- Work Package 5 (DAAMs)
- Work Package 6 (National Dataset Catalogue)
- Work Package 7 (Secure Processing Environments)
- Work Package 8 (Infrastructural Solutions)

- Work Package 9 (Data Quality Enhancement)
- Work Package 10 (Establishment of a Coordinating HDAB)

### Work Package 1: Management and Coordination

7. O.1.2: Timely and robust financial management: please indicate the number of on-time provided financial statements by the consortium partners. Is this number in line with the target of **100%** (all partners have provided their financial statements on time for the respective months of the project). If not, please specify the reason for the deviation. \*

8. O.1.3 Sound internal communication: please indicate the number of organised quarterly meetings. Is this number on track to reach the target value of **16 meetings by Q4 2027 (average of 4 per year)**? If not, please specify the reason for the deviation. \*

9. O.1.3 Sound internal communication: please indicate the number of organised steering group meetings. Is this number on track to reach the target value of **20 meetings by Q4 2027 (average of 5 per year)**? If not, please specify the reason for the deviation. \*

10. O.1.3 Sound internal communication: please indicate the number of organised advisory board meetings for the *Maatschappelijke adviesraad* (MAR). Is this number on track to reach the target value of **at least 1 meeting per year (4 meetings by Q4 2027 excluding the kick-off)**? If not, please specify the reason for the deviation. \*

11. O.1.3 Sound internal communication: please indicate the number of organised advisory board meetings for the *Expertgroep* (EG). Is this number on track to reach the target value of **at least 1 meeting per year (4 meetings by Q4 2027 excluding the kick-off)**? If not, please specify the reason for the deviation. \*

12. O.1.2: Timely and robust financial management: please indicate the number of on-time provided financial statements by the consortium partners. Is this number in line with the target of **100%** (all partners have provided their financial statements on time for the respective months of the project). If not, please specify the reason for the deviation. \*

13. O.1.4 Timely delivery of Milestones and Deliverables: please review Milestone **MS2: First assembly advisory board**. Was the European deadline of **30-11-2024** met on time? If not, please specify the reason for the delay. \*

14. O.1.4 Timely delivery of Milestones and Deliverables: Deliverable **D1.1: Mid-term overall progress and advisory board report**. Was the European deadline of **30-11-2024** met on time? If not, please specify the reason for the delay. \*

15. O.1.4 Timely delivery of Milestones and Deliverables: take a close look at Milestones **MS3 to MS5: assembly advisory board**. Please provide an outlook of the main activities to be performed before the next Work Package 3 survey (**05-2026**). Are there any potential risks to reach the planned deadlines in time? The next deadline is on **30-11-2025**. \*

16. O.1.4 Timely delivery of Milestones and Deliverables: take a close look at Deliverables **D1.2 to D1.4**: *Mid-term overall progress and advisory board report*. Please provide an outlook of the main activities to be performed before the next Work Package 3 survey (**05-2026**). Are there any potential risks to reach the planned deadlines in time? The next deadline is on **30-11-2025**. \*

17. As part of the delivery of the Minimum Viable Product (MVP), the technical work packages need to develop indicators for quality assessment. Could you suggest specific indicators, such as those related to the process, quality, user satisfaction, or reliability?

18. Please indicate if you have any other comments

### Work Package 2a: Dissemination

19. O.1.4 Timely delivery of Milestones and Deliverables: please review Milestone **M10**: *Dissemination Campaign*. Was the European deadline of **31/5/2024** met on time? If not, please specify the reason for the delay. \*

20. O.1.4 Timely delivery of Milestones and Deliverables: please review Milestone **M6**: *Dissemination campaign: integral communication strategy*. Was the internal Work Package deadline of **30/11/2024** met on time? If not, please specify the reason for the delay. \*

21. O.1.4 Timely delivery of Milestones and Deliverables: please review Deliverable **D2.1: Communication and training plan**. Was the European deadline of **31/3/2025** met on time? If not, please specify the reason for the delay. \*

22. O.1.4 Timely delivery of Milestones and Deliverables: take a close look at Milestone **M7: Execution of campaign phase 1**. Please provide an outlook of the main activities to be performed before the next Work Package 3 survey (**05-2026**). Are there any potential risks to reach the planned European deadline of **31-5-2025** in time? \*

23. Results process indicators 2024: target number of participants per dedicated stakeholder meetup (**target: 100 participants**). Was this target met for each stakeholder meetup? If not, please specify the reason for the deviation. \*

24. Results process indicators 2024: target website traffic HDAB-NL community (**target: 1200 page views per year**). Was this target met? If not, please specify the reason for the deviation. \*

25. Results process indicators 2024: target number of HDAB-NL community members (**target: 300 members**). Was this target met? If not, please specify the reason for the deviation. \*

26. Results process indicators 2024: target number of co-creation working groups (**target: 4 working groups**). Was this target met? If not, please specify the reason for the deviation. \*

27. Results process indicators 2024: target number of published news articles regarding HDAB- NL in Dutch media (**target: 10 articles**). Was this target met? If not, please specify the reason for the deviation. \*

28. As part of the delivery of the Minimum Viable Product (MVP), the technical work packages need to develop indicators for quality assessment. Could you suggest specific indicators, such as those related to the process, quality, user satisfaction, or reliability?

29. Please indicate if you have any other comments.

### Work Package 2b: Training and support

30. O.1.4 Timely delivery of Milestones and Deliverables: please review Deliverable **D2.1: Training & strategy plan**. Was the European deadline of **31/3/2025** met on time? If not, please specify the reason for the delay. \*

31. O.1.4 Timely delivery of Milestones and Deliverables: take a close look at Deliverable **D2.2: Training programma's** and Milestone **M11: Training and educational material**. Please provide an outlook of the main activities to be performed before the next Work Package 3 survey (**05-2026**). Are there any potential risks to reach the planned European deadlines of **31-7-2026** and **31-3-2026** in time? \*

32. O.1.4 Timely delivery of Milestones and Deliverables: take a close look at Milestone **M12: Helpdesk**. Please provide an outlook of the main activities to be performed before the next Work Package 3 survey (**05-2026**). Are there any potential risks to reach the planned European deadline of **30-11-2025** in time? \*

33. Results process indicators 2024: target number of analysed training portals (**target: 5 training portals**). Was this target met? If not, please specify the reason for the deviation. \*

34. Results process indicators 2024: target number of analysed training material (**target: 20 materials**). Was this target met? If not, please specify the reason for the deviation. \*

35. Results process indicators 2024: target number of scheduled interviews with end-users & work package leaders on the training material (**target: 10 interviews**). Was this target met? If not, please specify the reason for the deviation. \*

36. Results process indicators 2024: target number of scheduled interviews with end-users & work package leaders on the training portal (**target: 10 interviews**). Was this target met? If not, please specify the reason for the deviation. \*

37. As part of the delivery of the Minimum Viable Product (MVP), the technical work packages need to develop indicators for quality assessment. Could you suggest specific indicators, such as those related to the process, quality, user satisfaction, or reliability?

38. Please indicate if you have any other comments.

### Work Package 3: Evaluation

39. O.1.4 Timely delivery of Milestones and Deliverables: please review Milestone **M13**: *Definition of action level indicators framework*. Was the European deadline of **31/5/2024** met on time? If not, please specify the reason for the delay. \*

40. O.1.4 Timely delivery of Milestones and Deliverables: take a close look at Deliverable **D3.1**: *Report on the action level indicators framework*. Please provide an outlook of the main activities to be performed before the next Work Package 3 survey (**05-2026**). Are there any potential risks to reach the planned European deadline of **30-6-2025** in time? \*

41. O.1.4 Timely delivery of Milestones and Deliverables: take a look at the deadlines for the planned surveys to work package leaders (month 6, month 18, month 30, and month 42). Please provide an outlook of the main activities to be performed before the next Work package 3 survey (05- 2026). Are there any potential risks to reach the planned European deadlines in time? \*

42. As part of the delivery of the Minimum Viable Product (MVP), the technical work packages need to develop indicators for quality assessment. Could you suggest specific indicators, such as those related to the process, quality, user satisfaction, or reliability?

43. Please indicate if you have any other comments.

#### Work Package 4: Sustainability

44. O.1.4 Timely delivery of Milestones and Deliverables: take a close look at Milestone **M15**: *Preparation of a sustainability plan*. Please provide an outlook of the main activities to be performed before the next Work Package 3 survey (05-2026). Are there any potential risks to reach the planned European deadline of 30-11-2025 in time? \*

45. O.1.4 Timely delivery of Milestones and Deliverables: take a close look at Milestone **M16**: *Preparation of a business continuity plan*. Please provide an outlook of the main activities to be performed before the next Work Package 3 survey (05-2026). Are there any potential risks to reach the planned European deadline of 30-11-2025 in time? \*

46. Results process indicators 2024: target number of analysed literature business continuity plan (**target: 20 literary sources**). Was this target met? If not, please specify the reason for the deviation. \*

47. Results process indicators 2024: target number of organised workshops business continuity plan (**target: 5 workshops**). Was this target met? If not, please specify the reason for the deviation. \*

48. Results process indicators 2024: target number of interviews/meeting with experts for business continuity plan (**target: 10 interviews**). Was this target met? If not, please specify the reason for the deviation. \*

49. Results process indicators 2024: target number of analysed literature sustainability plan (**target: 20 literary sources**). Was this target met? If not, please specify the reason for the deviation. \*

50. Results process indicators 2024: target number of organised workshops sustainability plan (**target: 5 workshops**). Was this target met? If not, please specify the reason for the deviation. \*

51. Results process indicators 2024: target number of interviews with experts for sustainability plan (**target: 10 interviews**). Was this target met? If not, please

specify the reason for the deviation. \*

52. Results process indicators 2024: target percentage integrated inputs (Milestones & Deliverables) from other work packages (**target: 100% of products read and integrated where relevant**). Was this target met? If not, please specify the reason for the deviation. \*

53. Results process indicators 2024: target number of stakeholder consultations (**target: 3 consultations**). Was this target met? If not, please specify the reason for the deviation. \*

54. As part of the delivery of the Minimum Viable Product (MVP), the technical work packages need to develop indicators for quality assessment. Could you suggest specific indicators, such as those related to the process, quality, user satisfaction, or reliability?

55. Please indicate if you have any other comments.

## Work Package 5: DAAMs

56. O.1.4 Timely delivery of Milestones and Deliverables: please review Milestone **M17: Draft requirements, Specifications and Prototype**. Was the European deadline of **30-11-2024** met on time? If not, please specify the reason for the delay. \*

57. O.1.4 Timely delivery of Milestones and Deliverables: please review Deliverable **D5.1: Requirements, Specifications and Prototype**. Was the European deadline of **28-2-2025** met on time? If not, please specify the reason for the delay. \*

58. O.1.4 Timely delivery of Milestones and Deliverables: take a close look at Milestone **M18: DAAMs: Minimum Viable Product (MVP)**. Please provide an outlook of the main activities to be performed before the next Work Package 3 survey (**05-2026**). Are there any potential risks to reach the European deadline of **31-5-2026**? \*

59. Results process indicators 2024: target number of analysed DAAMs as input for M17 and D5.1 (**target: 7 DAAMs**). Was this target met? If not, please specify the reason for the deviation. \*

60. Results process indicators 2024: target number of consultations with EHDS-related initiatives as input for M17 and D5.1 (i.e., TEHDAS2, HealthData@EU) (**target: 3 consultations**). Was this target met? If not, please specify the reason for the deviation. \*

61. Results process indicators 2024: target number of stakeholder consultation sessions as input for M17 and D5.1 (**target: 1 consultation**). Was this target met? If

not, please specify the reason for the deviation. \*

62. Results process indicators 2024: target number of stakeholder groups providing input to M17 and D5.1 (**target: 3 stakeholder groups**). Was this target met? If not, please specify the reason for the deviation. \*

63. Results process indicators 2024: target percentage of processed feedback from stakeholders as input for M17 and D5.1 (**target: 50%**). Was this target met? If not, please specify the reason for the deviation. \*

64. As part of the delivery of the Minimum Viable Product (MVP), the technical work packages need to develop indicators for quality assessment. Could you suggest specific indicators, such as those related to the process, quality, user satisfaction, or reliability?

65. Please indicate if you have any other comments.

## Work Package 6: National Dataset Catalogue

66. O.1.4 Timely delivery of Milestones and Deliverables: please review Milestone **M20**: *Draft requirements, Specifications and Prototype*. Was the European deadline of **30-11-2024** met on time? If not, please specify the reason for the delay. \*

67. O.1.4 Timely delivery of Milestones and Deliverables: please review Deliverable **D6.1: Requirements and specifications**. Was the European deadline of **28-2-2025** met on time? If not, please specify the reason for the delay. \*

68. O.1.4 Timely delivery of Milestones and Deliverables: take a close look at Milestone **M21: HDC: Minimum Viable Product (MVP)**. Please provide an outlook of the main activities to be performed before the next Work Package 3 survey (**05-2026**). Are there any potential risks to reach the European deadline of **31-5-2026**? \*

69. Results process indicators 2024: target number of analysed dataset catalogues as input to M20 and D6.1 (**target: 10 catalogues**). Was this target met? If not, please specify the reason for the deviation. \*

70. Results process indicators 2024: target number of stakeholder consultations providing input to M20 and D6.1 (**target: 3 consultations**). Was this target met? If not, please specify the reason for the deviation. \*

71. Results process indicators 2024: target number of consultations with EHDS-related initiatives as input to M20 and D6.1 (i.e., TEHDAS2, HealthData@EU) (**target: 3 consultations**). Was this target met? If not, please specify the reason for the deviation. \*

72. Results process indicators 2024: target percentage of processed feedback from stakeholders as input for M20 and D6.1 (**target: 50%**). Was this target met? If not, please specify the reason for the deviation. \*

73. As part of the delivery of the Minimum Viable Product (MVP), the technical work packages need to develop indicators for quality assessment. Could you suggest specific indicators, such as those related to the process, quality, user satisfaction, or reliability?

74. Please indicate if you have any other comments.

### Work Package 7: Secure Processing Environments

75. O.1.4 Timely delivery of Milestones and Deliverables: please review Milestone **M23**: *Draft requirements and Specifications*. Was the European deadline of **30-11-2024** met on time? If not, please specify the reason for the delay. \*

76. O.1.4 Timely delivery of Milestones and Deliverables: please review Deliverable **D7.1**: *Requirements and specifications*. Was the European deadline of **28-2-2025** met on time? If not, please specify the reason for the delay. \*

77. O.1.4 Timely delivery of Milestones and Deliverables: take a close look at Milestone **M24**: *SPE: Minimum Viable Product (MVP)*. Please provide an outlook of the main activities to be performed before the next Work Package 3 survey (**05-2026**). Are there any potential risks to reach the European deadline of **31-5-2026**? \*

78. Results process indicators 2024: target number of analysed SPEs as input for M23 and D7.1 (**target: 7 SPEs**). Was this target met? If not, please specify the reason for the deviation. \*

79. Results process indicators 2024: target number of consultations with EHDS-related initiatives as input for M23 and D7.1 (i.e., TEHDAS2, HealthData@EU) (**target: 2 consultations**). Was this target met? If not, please specify the reason for the deviation. \*

80. Results process indicators 2024: target number of stakeholder consultation sessions as input for M23 and D7.1 (**target: 1 consultation**). Was this target met? If not, please specify the reason for the deviation. \*

81. Results process indicators 2024: target number of stakeholder groups providing input to M23 and D7.1 (**target: 3 groups**). Was this target met? If not, please specify the reason for the deviation. \*

82. Results process indicators 2024: target percentage of processed feedback from stakeholders as input for M23 and D7.1 (**target: 50%**). Was this target met? If not, please specify the reason for the deviation. \*

83. As part of the delivery of the Minimum Viable Product (MVP), the technical work packages need to develop indicators for quality assessment. Could you suggest specific indicators, such as those related to the process, quality, user satisfaction, or reliability?

84. Please indicate if you have any other comments.

### Work Package 8: Infrastructural Solutions

85. O.1.4 Timely delivery of Milestones and Deliverables: please review Milestone **M26**: *Draft requirements, Specifications and Prototype*. Was the European deadline of **30-11-2024** met on time? If not, please specify the reason for the delay. \*

86. O.1.4 Timely delivery of Milestones and Deliverables: please review Milestone **M29**: *Governance decisions*. Was the European deadline of **30-11-2024** met on time? If not, please specify the reason for the delay. \*

87. O.1.4 Timely delivery of Milestones and Deliverables: please review Deliverable **D8.1: Requirements and Specifications**. Was the European deadline of **28-2-2025** met on time? If not, please specify the reason for the delay. \*

88. O.1.4 Timely delivery of Milestones and Deliverables: take a close look at Milestone **M27: Cross-border gateway *Minimum Viable Product (MVP)***. Please provide an outlook of the main activities to be performed before the next Work Package 3 survey (**05- 2026**). Are there any potential risks to reach the European deadline of **31-5-2026**? \*

89. Results process indicators 2024: target number of analysed existing requirements and specifications for a transnational data gateway (**target: 2 existing requirements**). Was this target met? If not, please specify the reason for the deviation. \*

90. Results process indicators 2024: target number of analysed sources for national baseline generic services transnational gateway (**target: 2 sources**). Was this target met? If not, please specify the reason for the deviation. \*

91. Results process indicators 2024: target number of analysed initiatives for European baseline generic services transnational gateway (**target: 2 initiatives**). Was this target met? If not, please specify the reason for the deviation. \*

92. As part of the delivery of the Minimum Viable Product (MVP), the technical work packages need to develop indicators for quality assessment. Could you suggest specific indicators, such as those related to the process, quality, user satisfaction, or reliability?

93. Please indicate if you have any other comments.

### Work Package 9: Data quality Enhancement

94. O.1.4 Timely delivery of Milestones and Deliverables: take a close look at Milestone **M30**: *Draft data quality assessment framework: data quality labelling*. Please provide an outlook of the main activities to be performed before the next Work Package 3 survey (**05-2026**). Are there any potential risks to reach the planned European deadline of **31-7-2025** in time? \*

95. Results process indicators 2024: target number of analysed literature on data quality (**target: 25 literary sources**). Was this target met? If not, please specify the reason for the deviation. \*

96. Results process indicators 2024: target elaboration different components for a data quality framework (**target: 5 components**). Was this target met? If not, please specify the reason for the deviation.

\*

97. Results process indicators 2024: target number of stakeholder consultations (**target: 3 consultations**). Was this target met? If not, please specify the

reason for the deviation.

\*

98. As part of the delivery of the Minimum Viable Product (MVP), the technical work packages need to develop indicators for quality assessment. Could you suggest specific indicators, such as those related to the process, quality, user satisfaction, or reliability?

99. Please indicate if you have any other comments.

#### Work Package 10: Establishment of a Coordinating Health Data Access Body

100. O.1.4 Timely delivery of Milestones and Deliverables: please review Milestone **M33**: *Assessment of needs from data holders and users to establish a coordinating Health Data Access Body*. Was the European deadline of **31-2-2025** met in time? If not, please specify the reason for the delay. \*

101. O.1.4 Timely delivery of Milestones and Deliverables: please review Deliverable **D10.1**: *Advisory report on the needs and interests from data holders and data users*. Was the European deadline of **31-3-2025** met in time? If not, please specify the reason for the delay. \*

**102.O.1.4 Timely delivery of Milestones and Deliverables: take a close look at Deliverable**

**D10.2: Report on the preferred scenario based on the needs and interests of stakeholders.** Please provide an outlook of the main activities to be performed before the next Work Package 3 survey (05-2026). Are there any potential risks to reach the planned European deadline of 30-11-2025 in time? \*

**103. Results process indicators 2024:** target number of participants per stakeholder meeting (**target: 100 participants**). Was this target met? If not, please specify the reason for the deviation. \*

**104. Results process indicators 2024:** target number of organised meetings with other national initiatives (e.g., IZA or NVS-en (**target: 15 meetings**)). Is the Work Package on track to reach this target? If not, please specify the reason for the deviation. \*

**105. Results process indicators 2024:** target number of organised internal working group meetings (**target: 4 meetings**). Was this target met? If not, please specify the reason for the deviation. \*

**106. Results process indicators 2024:** target number of CoP subgroups in which HDAB-NL participates (**target 6 CoP groups or 100%**). Was this target met? If not, please specify the reason for the deviation. \*

**107. Results process indicators 2024:** target percentage integrated inputs (Milestones & Deliverables) from other work packages (**target: 100% of products read and integrated where relevant**). Was this target met? If not,

please specify the reason for the deviation. \*

108. Results process indicators 2024: target number of included governance scenarios (**target: 3 scenarios**). Was this target met? If not, please specify the reason for the deviation. \*

109. As part of the delivery of the Minimum Viable Product (MVP), the technical work packages need to develop indicators for quality assessment. Could you suggest specific indicators, such as those related to the process, quality, user satisfaction, or reliability?

110. Please indicate if you have any other comments.

## Annex iv: categorisation action-level indicators Grant Agreement

Indicator	Work Package	Baseline	Target
1. Coordinating Health Data Access Body (HDAB-NL) appointed and established	WP10	No	Yes, and with the common business capabilities implemented
2. Percentage of connected HDABs to the coordinating HDAB-NL	WP10	0	>50%
3. Is the HDAB-NL able to receive, process and reply to national data access applications, and to issue data permits	WP5	No	Yes
4. Number of data access applications that HDAB-NL can receive, process and reply per month	WP5	N/a	20
5. Average time to process a data access application	WP5	N/a	< 2 months

6. Is there a national health dataset catalogue available?	WP6	No	Yes, and publicly available
7. Number of datasets published in the national dataset catalogue	WP6	N/a	250
8. Do the datasets contain a description of the contents?	WP6	No	Yes, and in a common format
9. Is the HDAB-NL able to provide a secure processing environment to data users?	WP7	No	Yes
10. Average time to set up a secure processing environment	WP7	N/a	< 1 month
11. HDAB-NL provides tools and services to assess data privacy as part of the secure processing environment	WP7	N/a	Yes
12. Is there a national infrastructure connected to the HealthData@EU infrastructure (NCP2)?	WP8	No	Yes
13. Is the HDAB-NL connected to the national infrastructure (NCP2)?	WP8	No	Yes
14. Is the HDAB-NL connected to the HealthData@EU infrastructure via the national infrastructure (NCP2)?	WP8	No	Yes
15. Is the HDAB able to receive, process and reply to cross-border data access applications, and to issue data permits	WP8	No	Yes, and to multi-country request
16. Number of cross-border health data access applications that the HDAB can receive, process and reply per month	WP8	N/a	≥1
17. List of tools available for enhancing data quality	WP9	No	Data Quality Enhancement plan including user instructions
18. Are the datasets semantically and technically interoperable?	WP9	No	Yes (n = ≥1), also cross-border and following a common format