

2nd X-eHealth INNOVATION DAY

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SPMS
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X-eHealth
Exchanging Electronic Health Records
in a common framework

2nd X-eHealth

INNOVATION DAY

WP 3 Evaluation

WPL: Kathrin Trunner, Eva Leuprecht, Anja Stradner, Claudia Habl

Work Package 3: Evaluation

Objectives

- Assess the project's activities to reach its dedicated goals.
- Ensuring the project's sustainability by measuring the results of all WP.

Main evaluation questions

- How successful was the project implementation?*
- What are the effects of the project?*

Methods and Workflow

- Implementation of tools for the evaluation
 - Establishment of Logframe matrix with determination of Key Performance Indicators (KPIs)
 - Release glossaries
- Monitoring of matrix
 - Updating values
 - Adjusting and adding KPIs
- Maintenance of glossaries
- Impact assessment: Output, Outcome (and Impact)
 - Target groups: Healthcare providers, decision makers, potential users / citizens

WP 5 Definition of EHRaf functional specifications	5.1	Identify business functional requirements in the four project target areas.	Business functional requirements derived from identified use cases will be specified and published.	Number of unresolved comments by all participating partners to the internal and final deliverable.	< 10%	0% of unresolved comments for internal deliverable (20.05.2021)	<input checked="" type="checkbox"/> On track <input type="checkbox"/> Deviation expected <input type="checkbox"/> Deviation	
	5.2	Identify information structures with elements. Specify the context and meaning of the exchanged content using a common clinical data structure.	Comprehensive information model of the exchanged content with description of all data elements will be part of the internal and final deliverable in all four project areas.	Number of unresolved comments by all participating partners to the internal and final deliverable.	< 10%	0% of unresolved comments for internal deliverable (20.05.2021)	<input checked="" type="checkbox"/> On track <input type="checkbox"/> Deviation expected <input type="checkbox"/> Deviation	
	5.3			Successful adoption of the model into an implementable specification.	Functional specification of at least 4 communication scenarios was successfully developed based on information model and functional specification.	Work in progress	<input checked="" type="checkbox"/> On track <input type="checkbox"/> Deviation expected <input type="checkbox"/> Deviation	Instead of "Implementable specification" it is now "Functional specification" → change to be communicated.
	5.4	Define functional specifications for new services.	Identified use cases	Number of use cases (including priority) taken into account	At least one use case per domain/task 100%	New use cases have been identified and prioritised for all domains	<input checked="" type="checkbox"/> On track <input type="checkbox"/> Deviation expected <input type="checkbox"/> Deviation	Added 01/2022
	5.5	Define a common methodology for WPs, 6 and 7 based on a Use Cases driven methodology	Alignment between Work Packages	Least amount of gaps, Change requests discussed	100%	Biweekly meetings with WP6 and weekly with WP7 are taking place to align as much as possible. Scenario's are being described in common agreement with WP5/6/7. We have a little delay due to complexity in scenario's	<input checked="" type="checkbox"/> On track <input type="checkbox"/> Deviation expected <input type="checkbox"/> Deviation	Added 01/2022
WP 1 Project coordination	1.1							
	1.2							
	1.3							
WP 2 Dissemination, communication & Stakeholders	2.1	Reach out and engagement the 4 key target stakeholders:	Level of engagement in X-eHealth events by target group (e.g. the X-eHealth Innovation Day)	Number of attendees	Percentage of attendees - 65% of people invited	X-eHealth from September 2022 onwards: 85% attendees (72 participants from 84 registered)	<input checked="" type="checkbox"/> On track <input type="checkbox"/> Deviation expected <input type="checkbox"/> Deviation	
		• Care Providers: Health Professionals and Citizens; • Member States: Decision-Makers and National Health				Average 68,7% from 4 events. We didn't have any general events in September, 2022.		

Source: Confluence (2022), Screenshots of the X-eHealth KPI Logframe matrix

The Results Staircase



Source: Bergmüller, C. (2014): Kursbuch Wirkung. Das Praxishandbuch für alle, die Gutes noch besser tun wollen.



Impact Assessment Results

Main interview questions:

- Does X-eHealth advance the integration process of eHealth services in Europe?
- Will X-eHealth increase the use of the new European Electronic Health Record Exchange Format (EEHRx F) specifications?

OUTPUT	
Acceptance	Conditions
<ul style="list-style-type: none"> • The specifications are accepted by all target groups. They see them as good quality. • The FHIR specifications are highly appreciated, even though partially challenging implementation. 	<ul style="list-style-type: none"> • Organisational aspects (e.g. responsibility) • Resources (financial, human) • Legal framework • National infrastructure (NCP-eHs, terminology server, etc.) • Acceptance: Demonstrate added-value, ensure user friendliness, efficiency • Expansion of services (for citizens) • Data Security • Competence development by means of e-training (medical professionals), trainings in digital health literacy
Awareness	
<ul style="list-style-type: none"> • High awareness of new use cases and specifications. • A common understanding about the necessary efforts to adopt the EEHRx F specifications at different levels. 	

OUTCOME	
Digital Health Literacy	Attitudes & Behaviour
Among all target groups: <ul style="list-style-type: none"> • Limited contribution from X-eHealth to strengthen digital health literacy • Main empowerment measure 'Professional Training Sessions' • Focus lied rather on technical aspects 	Among stakeholders and healthcare providers: <ul style="list-style-type: none"> • Motivation to work towards the interoperability of data exchange • Challenge: Healthcare providers unlikely to apply/use the specifications unless they are legally obliged to do
Knowledge on eHealth	
<ul style="list-style-type: none"> • Increased knowledge on technical and legal levels (less on the benefits and eHealth in general) • Increased awareness of need to improve applications to increase access to secondary use of data 	

STRUCTURAL AND PROCESS RELEVANT OUTCOMES	
Opportunities	Networking & Communication
<ul style="list-style-type: none"> • Beneficial for countries and organizations to participate in European initiatives - especially for smaller countries 	<ul style="list-style-type: none"> • Enhanced networking and cooperation of actors, stakeholders, policymakers and institutions • Interoperability directly leads to earlier access to safe and effective healthcare for patients
Future research	
<ul style="list-style-type: none"> • Demand for secondary use of data in the healthcare sector is high • Expectation for new standards to be offered to analyse medical data across the EU 	



Summary

KPI Evaluation & Monitoring

- The project team delivered the planned output on time and within budget (including a project extension phase).
- Necessary pillars and building blocks for the new use cases in the Common European Health Data Space were produced and prepared for the next steps (i.e., handing them over to the eHDSI community).

Impact Assessment:

- The stakeholders are convinced that X-eHealth will advance the integration process of eHealth services in Europe.
- The impact of X-eHealth is considered positive on most levels analysed.
- There is high importance on the specifications being adopted by the European MS so that issues can be communicated and resolved together.

➡ **There is a high demand for establishing processes to facilitate the secondary use of health data.**

➡ **The European Health Data Space regulation proposal is understood as the future governance framework for sustainable maintenance, evolution and distribution of standardization and interoperability in healthcare.**

➡ **There is a desire for future projects stemming from X-eHealth.**



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