

LIMAPS v1.2.0

Legal Interoperability Maturity Assessment of a Public Service

Release notes



LIMAPS Legal Interoperability

OIMAPS Organisational Interoperability

SIMAPS Semantic Interoperability

TIMAPS Technical Interoperability

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Table of Abbreviations

Table 1: Acronyms

Acronym	Description
ABB	Architectural Building Block
CAMSS	Common Assessment Method for Standards and Specifications
CarTool	Cartography Tool
DIGIT	Directorate-General for Informatics
EC	European Commission
EIF	European Interoperability Framework
EIRA© (EIRA)	European Interoperability Reference Architecture
IMTs	Interoperability Maturity Tools
ELAP	EIRA Library of Architecture Principles (ELAP)
ELIS	EIRA Library of Interoperability Specifications
EU	European Union
HL SAT	High Level Solution Architecture Template
IQAT	Interoperability Quick Assessment Toolkit
ISA	Interoperability Services for Public Administrations
IMAPS	Interoperability Maturity Assessment of a Public Service
LIMAPS	Legal Interoperability Maturity Assessment of a Public Service
MS	Member State
PA	Public Administration

1 INTRODUCTION

1.1 Purpose of this document

This document contains the description of the release version 1.2.0 of the Legal Interoperability Maturity Assessment of a Public Service (LIMAPS).

1.2 Release date

Version 1.2.0 of the LIMAPS Survey has been released on the 30th of November 2022, on [Joinup](#).

1.3 Description

The LIMAPS Survey is a highly user-friendly online questionnaire. Designed as a self-assessment tool, the LIMAPS survey is designed for public service owners to evaluate key legal behavioral interoperability aspects of their digital public service. On completion of the survey, the public service owners receive tailored, confidential feedback and recommendations on how to further improve their digital public service.

Details on the individual components of this release are provided in the below Chapter 2 “[Release components](#)”.

2 LIMAPS v1.2.0 RELEASE COMPONENTS

The LIMAPS v1.2.0 release consists of the following release components.

2.1 [LIMAPS v1.2.0 EU Survey portal](#)

The LIMAPS survey is available at the EU Survey portal.

Table 1: Updates at the EU Survey Portal

Modification	Details
Version 1.2.0	
LIMAPS URL at the EU Survey portal	<p>Date: November 2022</p> <p>The version 1.1.0 https://ec.europa.eu/eusurvey/runner/LIMAPS_v_1_1_0 has been replaced by the version 1.2.0 https://ec.europa.eu/eusurvey/runner/LIMAPS_v_1_2_0.</p>
Updated the LIMAPS logo	<p>Date: November 2022</p> <p>The LIMAPS logo has been updated in order to be aligned with the Interoperable Europe identity.</p>
Updated the Welcome page	<p>Date: November 2022</p> <p>The Welcome page has been updated based on the Study on user experience documentation¹ and it includes the following:</p> <ul style="list-style-type: none"> • The purpose of the LIMAPS survey, • The expected output of the LIMAPS survey, • A note that the LIMAPS survey can be completed incrementally, • The version of the survey has been removed.
Updated the structure of the Introduction page	<p>Date: November 2022</p> <p>The Introduction page of the LIMAPS questionnaire has been updated based on the Study on user experience documentation¹ and provides rich information about the solution’s positioning, context, approach to complete, preparation information, version, contact approach, and relevant solutions. The introduction page is not required user input and allows users to skip it as needed.</p>
Updated the User journey in the Introduction section	<p>Date: November 2022</p> <p>The project team updated the user journey to be aligned with the Interoperable Europe identity. The project team updated the illustration of “user journey” to be aligned with the Interoperable Europe identity. This</p>

¹ D08.01.01 Strategy for ISA’s interoperability assessment solutions’ regarding the project DIGITM-012203-6000176696 – CAMSS (Common Assessment Method for Standards and Specifications)

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	visual is shown before the assessment, as part of the introduction to the survey at the EU Survey portal. It describes the structure and logic behind the LIMAPS survey, starting from the IMAPS questionnaire, explaining the LIMAPS model and structure
Updated the conceptual model of LIMAPS	<p>Date: November 2022</p> <p>Updates have been applied to the LIMAPS conceptual model. These updates are based on the design part, in order to be aligned with the Interoperable Europe identity.</p> <p>The updated conceptual model is illustrated in the Introduction section of the online LIMAPS survey.</p>
Included reference for the IMTs solutions	<p>Date: November 2022</p> <p>A reference for all the Interoperability Maturity Tools (IMTs) has been added in the Introduction section of LIMAPS questionnaire.</p>
Included a reference on the EIRA version	<p>Date: November 2022</p> <p>The reference “The LIMAPS survey is based on the European Interoperability Reference Architecture, in particular to the version EIRA v5.0.0. The EIRA was created in the context of Action 2016.32 of the ISA² Programme and is being maintained under the Interoperable Europe public initiative. The EIRA provides a common terminology that can be used by people working for public administrations in various architecture and system development tasks.” has been added in the Introduction section of LIMAPS questionnaire.</p>
Removed the reference to the GitHub page	<p>Date: November 2022</p> <p>The reference “<i>You can share your feedback on LIMAPS survey through the dedicated GitHub platform</i>” has been removed by the Introduction page of LIMAPS questionnaire due to the low end user feedback.</p>
Added the Legal notices section	<p>Date: November 2022</p> <p>The LIMAPS survey’s Introduction section should be followed by the Legal notices section based on the Study on user experience documentation¹. The Legal notices section includes clearly communicating legal information, licensing information and disclaimers, generally anything linked to user approval and consent. This page also collects the user’s consent on the sharing and processing of data, any relevant publishing of information, as well as the user’s willingness to be contacted.</p>
Included disclaimer for the responsibility of European Commission	<p>Date: November 2022</p> <p>The EC’s logo and the disclaimer “By no means will the Interoperability assessment imply any endorsement of the EC to the assessed specification. Likewise, the use of LIMAPS© implies that the user accepts that the EC is not liable on the assessment nor on any direct or indirect</p>

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	consequence/decision of such assessment.” has been added in the Legal notices section of LIMAPS questionnaire.
Updated the Service Identification section	<p>Date: November 2022</p> <p>The Service Identification section of the LIMAPS questionnaire has been separated from the Introduction section.</p>
Updated the alongside information	<p>Date: November 2022</p> <p>The alongside information has been updated on the LIMAPS questionnaire and includes the following links and documents:</p> <ul style="list-style-type: none"> • <u>Useful links:</u> ISA Product License v1.4, Share your feedback, • <u>Background Documents:</u> IMAPS User Guide, LIMAPS User Guide.
Removed the question A1F	<p>Date: November 2022</p> <p>The item “A1F. Please provide the address of the organisation providing the service” has been removed from the Service Identification section of the LIMAPS questionnaire.</p>
Updated the question A2A	<p>Date: November 2022</p> <p>The item “A2A. A digital public service is a digital service rendered in the public interest. What is the name of the service that you provide to the end users (citizens, businesses or other public administrations)? Please also provide the public service catalogue name and URI, if it is applicable for the digital public service.” has been updated and separated into the two following items:</p> <ul style="list-style-type: none"> • “A2A. A digital public service is a digital service rendered in the public interest. What is the name of the service that you provide to the end users (citizens, businesses or other public administrations)?”, • “A2B. Please provide the public service catalogue name and URI, if it is applicable for the digital public service.”.
Updated the question A2B	<p>Date: November 2022</p> <p>The item “A2B. Use the following criteria to define a digital public service: i) Process and underlying activities, ii) Appearance, iii) Owner (see A3). Please describe the process and underlying activities of the digital public service. The digital public service always has three phases (1. initiation, 2. processing and 3. delivery of an outcome). Focus on the public decision that is the outcome of the service. If there is no public decision and/or outcome, focus on the benefits the service provides to the target audience.”</p> <p>has been updated and simplified as “A2C. Please give a brief description of the service.”. Additional information for the A2C item has been added as help message.</p>

<p>Added the question A3B</p>	<p>Date: November 2022</p> <p>The item “A3B. Are the solutions provided by a Directorate-General of the European Commission?” has been added in the Service Identification section for the LIMAPS questionnaire and in case of the “Yes” option, the A3C item “A3C. Please indicate the Directorate-General of the European Commission” will be activated.</p>
<p>Updated the options of D1 question to be aligned regarding the Data Act Regulation</p>	<p>Date: November 2022</p> <p>The following initial options of D1 item:</p> <ul style="list-style-type: none"> • " <i>The service is not compliant with any of the existing legal obligations that affect the delivery of data, information and knowledge</i> • <i>The service is compliant with the existing legal obligations that affect the delivery of data, information and knowledge, at a local level</i> • <i>The service is compliant with the existing legal obligations that affect the delivery of data, information and knowledge, at a regional level</i> • <i>The service is compliant with the existing legal obligations that affect the delivery of data, information and knowledge, at a national level</i> • <i>The service is compliant with the existing legal obligations that affect the delivery of data, information and knowledge, at EU level (e.g. to the Open Data Directive, to the eIDAS Regulation on electronic identification for electronic identification and/or trust services, etc.)</i> • <i>Not applicable or not necessary (because e.g. there are no legal obligations that affect the delivery of data, information and knowledge)</i> • <i>No answer.”</i> <p>have been updated as follows:</p> <ul style="list-style-type: none"> • <i>“The service is not compliant with any of the existing legal obligations that affect the delivery of data, information and knowledge</i> • <i>The service is compliant with the existing legal obligations that affect the delivery of data, provider agnostic data processing, information and knowledge, at a local level</i> • <i>The service is compliant with the existing legal obligations that affect the delivery of data, provider agnostic data processing, information and knowledge, at a regional level</i> • <i>The service is compliant with the existing legal obligations that affect the delivery of data, provider agnostic data processing, information and knowledge, at a national level</i> • <i>The service is compliant with the existing legal obligations that affect the delivery of data, provider agnostic data processing, information and knowledge, at EU level (e.g. to the Open Data Directive, to the</i>

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	<p><i>eIDAS Regulation on electronic identification for electronic identification and/or trust services, etc.)</i></p> <ul style="list-style-type: none"> • <i>Not applicable or not necessary (because e.g. there are no legal obligations that affect the delivery of data, information and knowledge)</i> • <i>No answer”.</i>
Updated the question D8	<p>Date: November 2022</p> <p>The item “D8. To what extent does the service deliver data, information and knowledge consumed from other services? (e.g. address, geolocation data, personal data)” has been updated as “D8. To what extent does the service deliver data, information and knowledge consumed from other services based on a shared legal framework? (e.g. address, geolocation data, personal data)”.</p>
Updated the question D10	<p>Date: November 2022</p> <p>The item “D10. To what extent does the service provide tracing and logging mechanisms to allow a secure delivery of data, information and knowledge towards its end users?” has been updated as “D10. To what extent does the service provide tracing and logging mechanisms for the actions performed by the actors in control of the data to allow a secure delivery of data, information and knowledge towards its end users?”.</p>
Updated the question C1	<p>Date: November 2022</p> <p>The item “C1. To what extent is the service compliant with the legal obligations that define the specifications of the data, information and knowledge consumed by other services?” has been updated as “C1. To what extent is the service compliant with the legal obligations that define the specifications of the data, information and knowledge consumed from other services?”.</p>
Replaced the mouse-over More Info by help message	<p>Date: November 2022</p> <p>The mouse-over More Info has been replaced by the help message across the items of the LIMAPS questionnaire.</p>
Updated the EIRA ABBs	<p>Date: November 2022</p> <p>The following updates on the EIRA ABBs have been implemented on the LIMAPS questionnaire based on the alignment with new version of EIRA v5.0.0:</p> <ul style="list-style-type: none"> • The EIRA ABB on the item “D2. To what extent does the service refer to the legal basis on the specifications of the data, information and knowledge delivered to its end users?” has been updated from “<i>Legislation on Data, Information and Knowledge Exchange</i>” to “<i>Legal Act</i>” and “<i>Granularity of Legal Requirements</i>”. • The EIRA ABB on the item “C1. To what extent is the service compliant with the legal obligations that define the specifications of

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	the data, information and knowledge consumed by other services?" has been updated from "Legal Interoperability Specification" to "Legal Act" and "Granularity of Legal Requirements".
Updated the Rating section	Date: November 2022 The reference "Contact: For any general or technical questions, please send an email to DIGIT-IMAPS@ec.europa.eu ." has been added for contacting purposes at the end of the Rating section of the LIMAPS questionnaire.
Alignment regarding the uniqueness and overlapping across the IMTs	Date: November 2022 The surveys of the IMTs have been compared against each other in terms of uniqueness and overlapping in the items.
EIRA v5.0.0 alignment	Date: November 2022 EIRA v5.0.0 alignment performed across the items of the LIMAPS questionnaire.
EIF principles alignment	Date: November 2022 EIF alignment on the principles and recommendations performed across the LIMAPS questionnaire.
CAMSS vocabulary alignment	Date: November 2022 CAMSS vocabulary alignment performed across the LIMAPS questionnaire.
Scoring model	Date: May 2022 The existing scoring model of LIMAPS version 1.1.0 is maintained, meaning that the sections Data, information and knowledge delivered/consumed, Service Delivery/Consumption Enablers and Service Delivery/Consumption Manifestations have weights 40%, 40% and 20% respectively across the whole questionnaire. However, the scoring per item has been adapted based on the 5 interoperability maturity levels of IMAPS (ad-hoc, opportunistic, essential, sustainable, and seamless), reflecting also the level of granularity mentioned above.
Previous contract change requests	Date: November 2022 All Change Requests (CRs) based on JIRA tickets collected during the previous contract, have been included in the LIMAPS version 1.2.0.
Version 1.1.0	
LIMAPS URL at the EU Survey portal	Date: 20/12/2021

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	<p>The version 1.0.0 https://ec.europa.eu/eusurvey/runner/LIMAPS v 1 0 0 has been replaced by the version 1.1.0 https://ec.europa.eu/eusurvey/runner/LIMAPS v 1 1 0</p>
<p>Included a reference on the GitHub for feedback purposes</p>	<p>Date: 03/05/2022</p> <p>The reference “You can share your feedback on LIMAPS survey through the dedicated GitHub platform.” has been added for feedback purposes in the ‘Introduction’ section of the LIMAPS questionnaire.</p>
<p>Replaced the phrase "digital public service" with "service" to reduce repetition</p>	<p>Date: 03/05/2022</p> <p>The phrase "digital public service" has been replaced with "service" on the LIMAPS questionnaire.</p> <p>The disclaimer “<i>The unit of assessment is the "Digital Public Service" and is referred to as "Service" in the survey that follows.</i>” has been added in the end of the Introduction page to indicate the replacement of this phrase.</p>
<p>Added a question for the applicant’s traceability</p>	<p>Date: 29/04/2022</p> <p>New Item “A1E. Please provide your role in the organisation providing the service” has been added on the ‘Introduction’ section of the LIMAPS questionnaire as optional.</p>
<p>Added a question for statistics reasons</p>	<p>Date: 29/04/2022</p> <p>New Item “A1F. Please provide the address of the organisation providing the service” has been added on the ‘Introduction’ section of the LIMAPS questionnaire as optional.</p>
<p>Added a disclaimer on A2A question the public service catalogue name and the URI</p>	<p>Date: 29/04/2022</p> <p>The disclaimer “<i>Please also provide the public service catalogue name and URI, if it is applicable for the digital public service.</i>” has been added on the item “A2A. A digital public service is a digital service rendered in the public interest. What is the name of the digital public service that you provide to the end users (citizens, businesses or other public administrations)?” in the ‘Service Identification’ section on the LIMAPS questionnaire.</p>
<p>Added a question for future contacting purposes</p>	<p>Date: 21/12/2021</p> <p>New Item “A2D. Please specify the email address of the provided digital public service” has been added in the ‘Introduction’ section of the LIMAPS questionnaire as mandatory.</p>
<p>Rephrased A3 question and Updated the options to illustrate better the tiers of administration</p>	<p>Date: 03/05/2022</p> <p>The item “A3. Owner: Which public administration is primarily responsible for providing the digital public service?” has been rephrased as “A3A. Service provider: Which tier of public administration is primarily responsible for providing the service?” as optional.</p> <p>The following initial options of A3 item:</p>

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	<ul style="list-style-type: none"> • <i>“Ministry e.g. Ministry of Public Administration, Ministry of Justice,</i> • <i>Public Administration e.g. Tax Administration, Directorate-General of the European Commission e.g. DG COMM, DG JUST, DGIT,</i> • <i>Government institution/agency/office e.g. National Agency for Information Society, National Centre for Public Administration and Local Government (EKDDA),</i> • <i>EU institution/agency/office e.g. EU Publications Office,</i> • <i>Other Legal Entity”</i> <p>have been updated as follows:</p> <ul style="list-style-type: none"> • <i>“International Public Administration,</i> • <i>Central Public Administration,</i> • <i>Regional Public Administration,</i> • <i>Local Public Administration,</i> • <i>Other Legal Entity”</i> <p>In case of the <i>“Other Legal Entity”</i> option, a free text is available.</p>
<p>Added a question for the Directorate-General of the European Commission</p>	<p>Date: 03/05/2022</p> <p>The item <i>“A3B. Please indicate the Directorate-General of the European Commission”</i> has been added in the ‘Introduction’ section on the LIMAPS questionnaire with a drop-down menu by including a list with EU DGs.</p>
<p>Updated the options on D1 question</p>	<p>Date: 04/05/2022</p> <p>The options on the item <i>“D1. To what extent is the digital public service compliant with the legal obligations that define the specifications of the data, information and knowledge delivered to its end users?”</i> have been updated.</p> <p>The following initial options:</p> <ul style="list-style-type: none"> • <i>“No answer,</i> • <i>Not applicable or not necessary (because e.g. there are no legal obligations that affect the delivery of data, information and knowledge),</i> • <i>The service is not compliant with any of the existing legal obligations that affect the delivery of data, information and knowledge,</i> • <i>The service is compliant with the existing legal obligations that affect the delivery of data, information and knowledge, at a local level,</i> • <i>The service is compliant with the existing legal obligations that affect the delivery of data, information and knowledge, at a regional level,</i> • <i>The service is compliant with the existing legal obligations that affect the delivery of data, information and knowledge, at a national level,</i> • <i>The service is compliant with the existing legal obligations that affect the delivery of data, information and knowledge, at EU level (e.g. to the Open Data Directive, to the eIDAS Regulation on electronic identification for electronic identification and/or trust services, etc.)”</i> <p>have been updated as follows:</p>

	<ul style="list-style-type: none"> • <i>“Such compliance is not applicable or not necessary (because there are no legal obligations that affect the delivery of data, information and knowledge)</i> • <i>The service is not compliant with any of the existing legal obligations that affect the delivery of data, information and knowledge,</i> • <i>The service is compliant with the existing legal obligations that affect the delivery of data, information and knowledge, at a local level,</i> • <i>The service is compliant with the existing legal obligations that affect the delivery of data, information and knowledge, at a regional level,</i> • <i>The service is compliant with the existing legal obligations that affect the delivery of data, information and knowledge, at a national level,</i> • <i>The service is compliant with the existing legal obligations that affect the delivery of data, information and knowledge, at EU level (e.g. to the Open Data Directive, to the eIDAS Regulation on electronic identification for electronic identification and/or trust services, etc.)”.</i>
<p>Updated the options on D2 question</p>	<p>Date: 04/05/2022</p> <p>The options on the item <i>“D2. To what extent does the service refer to the legal basis on the specifications of the data, information and knowledge delivered to its end users?”</i> have been updated.</p> <p>The following initial options:</p> <ul style="list-style-type: none"> • <i>“A legal basis is not applicable (because the digital public service does not deliver data, information and knowledge) or is not necessary (because there are no legal barriers to impact the delivery of data, information and knowledge and thus, no need to be legally resolved),</i> • <i>The digital public service does not refer to the legal basis on the data, information and knowledge it delivers, although there are legal barriers that impact their delivery that have to be legally resolved (e.g. in the case of personal/critical data, information and knowledge that have to be delivered),</i> • <i>The digital public service provides custom rules to define the specifications for the delivery of data, information and knowledge, but there are legal barriers that impact the delivery of data, information and knowledge that require a stronger legal basis (e.g. in the case of personal/critical data, information and knowledge that have to be delivered),</i> • <i>The digital public service provides formal rules to define the specifications for the delivery of data, information and knowledge (e.g. a legislation obliging the controller to carry out an assessment of the impact of the envisaged consumption and processing operations on the protection of personal data e.g. GDPR)”</i>

	<p>have been updated as follows:</p> <ul style="list-style-type: none"> • <i>“The service does not refer to the legal basis on the data, information and knowledge it delivers, although there are legal barriers that impact their delivery that have to be legally resolved (e.g. in the case of personal/critical data, information and knowledge that have to be delivered),</i> • <i>The service provides custom rules to define the specifications for the delivery of data, information and knowledge, but there are legal barriers that impact the delivery of data, information and knowledge that require a stronger legal basis (e.g. in the case of personal/critical data, information and knowledge that have to be delivered),</i> • <i>The service provides formal rules to define the specifications for the delivery of a limited amount of data, information and knowledge (e.g. a legislation obliging the controller to carry out an assessment of the impact of the envisaged delivery and processing operations on the protection of personal data e.g. GDPR),</i> • <i>The service provides formal rules to define the specifications for the delivery of most data, information and knowledge (e.g. a legislation obliging the controller to carry out an assessment of the impact of the envisaged delivery and processing operations on the protection of personal data e.g. GDPR),</i> • <i>The service provides formal rules to define the specifications for the delivery of any data, information and knowledge (e.g. a legislation obliging the controller to carry out an assessment of the impact of the envisaged delivery and processing operations on the protection of personal data e.g. GDPR),</i> • <i>Not applicable or not necessary (because e.g. there are no legal barriers to impact the delivery of data, information and knowledge and thus, no need to be legally resolved),</i> • <i>No answer” .</i>
<p>Updated D3 question and its options</p>	<p>Date: 04/05/2022</p> <p>The item “D3. To what extent is the digital public service legally mandated to deliver data, information, knowledge in a machine-readable format?” has been rephrased as <i>“D3. To what extent is the service compliant with legislation that mandates the delivery of data, information and knowledge in a machine-readable format?”</i>.</p> <p>The following initial options of D3 item:</p> <ul style="list-style-type: none"> • <i>“Not applicable (because the digital public service does not deliver data, information and knowledge) or not necessary (because there is no legal basis to mandate automated data delivery),</i> • <i>There is such legal basis but no provisions are in place yet,</i> • <i>Partially, the legal basis allows for semi-automated data delivery using IT applications interfacing with information systems,</i>

	<ul style="list-style-type: none"> • <i>Fully, the legal basis allows for fully automated data delivery e.g. AI-based tools (machine learning)”</i> <p>have been updated as follows:</p> <ul style="list-style-type: none"> • <i>“The service is not compliant with legislation that mandates the delivery of data, information and knowledge in a machine-readable format,</i> • <i>The service is not compliant with legislation that mandates the delivery of data, information and knowledge in a machine-readable format, but there are actions in place towards enabling this functionality for a limited volume of data, information and knowledge to be delivered,</i> • <i>The service is compliant with legislation that mandates the delivery of data, information and knowledge in a machine-readable format (e.g. via IT applications interfacing with information systems) for a limited volume of data, information and knowledge delivered,</i> • <i>The service is compliant with legislation that mandates the delivery of data, information and knowledge in a machine-readable format (e.g. via IT applications interfacing with information systems) for most volume of data, information and knowledge delivered,</i> • <i>The service is compliant with legislation that mandates the delivery of data, information and knowledge in a machine-readable format (e.g. via IT applications interfacing with information systems) for any data, information and knowledge,</i> • <i>Not applicable or not necessary (because e.g. there is no M2M delivery or no such legislation in place),</i> • <i>No answer”.</i>
<p>Updated D4 question and its options</p>	<p>Date: 04/05/2022</p> <p>The item “D4. To what extent does the digital public service have a license to describe the specifications of the data, information and knowledge delivered to its end users?” has been rephrased as “D4. To what extent does the service enable the reuse of the data, information and knowledge delivered under a license that describes the terms and conditions for their reuse?”.</p> <p>The following initial options of D4 item:</p> <ul style="list-style-type: none"> • <i>“The use of a licenses is not applicable (because the digital public service does not deliver data, information and knowledge) or not necessary (because there are no legal obligations to require licensing the data, information and knowledge delivered,</i> • <i>The digital public service does not impose any license upon the delivery and reuse of the data, information, knowledge it delivers, although there are legal specifications that affect their reuse,</i> • <i>The digital public service imposes a proprietary license upon the delivery of data, information and knowledge to describe the terms and conditions of their reuse,</i>

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	<ul style="list-style-type: none">• <i>The digital public service imposes an open data license upon the delivery of data, information and knowledge to describe the terms and conditions of their reuse</i> have been updated as follows: <ul style="list-style-type: none">• <i>“The service does not enable any reuse of the data, information and knowledge delivered,</i>• <i>The service enables the reuse of the data, information and knowledge delivered under only proprietary licenses that describe the terms and conditions for their reuse,</i>• <i>The service enables the reuse of a limited amount of data, information and knowledge delivered under open source licenses that describe the terms and conditions for their reuse. Activities are in place to improve this volume,</i>• <i>The service enables the reuse of most data, information and knowledge delivered under open source licenses that describe the terms and conditions for their reuse. Activities are in place to improve this volume,</i>• <i>The service enables the reuse of any data, information and knowledge delivered under open source licenses that describe the terms and conditions for their reuse,</i>• <i>Not applicable or not necessary (because there are no legal obligations to require licensing the data, information and knowledge delivered,</i>• <i>No answer”.</i>
Updated D5 question and its options	Date: 04/05/2022 <p>The item “D5. To what extent does the digital public service inform the end users on the legal aspects that define the specifications of the delivered data, information, knowledge?” has been rephrased as “D5. To what extent does the service provide to the end users information about the legal aspects that define the specifications of the delivered data, information and knowledge?”.</p> <p>The following initial options of D5 item:</p> <ul style="list-style-type: none">• <i>“Not applicable (because the digital public service does not deliver data, information and knowledge) or not necessary (because there is no legal basis around the data, information and knowledge delivered by the digital public service),</i>• <i>Not at all, the legal aspects of the service are not available to the end users,</i>• <i>Partially, the legal aspects of the service are available to the end users on demand,</i>• <i>Fully, the legal aspects of the service are publicly available”</i> have been updated as follows: <ul style="list-style-type: none">• <i>“Not at all, the legal aspects of the service are not available to the end users,</i>

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	<ul style="list-style-type: none">• <i>The service provides to the end users information about the legal aspects that define the specifications of the delivered data, information and knowledge in an ad-hoc manner (e.g. on demand),</i>• <i>The service provides to the end users limited information about the legal aspects that define the specifications of the delivered data, information and knowledge,</i>• <i>The service provides to the end users detailed information about the legal aspects that define the specifications of the delivered data, information and knowledge,</i>• <i>The service provides to the end users detailed information about the legal aspects that define the specifications of the delivered data, information and knowledge and periodically updates this information,</i>• <i>Not applicable or not necessary (because there is no legal basis around the data, information and knowledge delivered by the service),</i>• <i>No answer”.</i>
Updated the options on D6 question	<p>Date: 04/05/2022</p> <p>The options on the item “D6. To what extent does the digital public service request end-user’s consent prior to the delivery of data, information and knowledge?” have been updated.</p> <p>The following initial options:</p> <ul style="list-style-type: none">• <i>“Not applicable because either the digital public service does not deliver data, information, knowledge or because none of the data, information and knowledge required prior to delivery is subject to any data protection provisions,</i>• <i>The digital public service does not request any consent although the data, information and knowledge delivered required prior to delivery are subject to data protection provisions,</i>• <i>The digital public service implicitly requests an "implied consent" in the sense that the end users provide their details (email, name, etc.) required prior to delivery, but do not sign anything to explicitly say (e.g. by ticking a box) that they agree on sharing their personal data. This is implicit in their participation,</i>• <i>The digital public service requests an "informed consent" in the sense that the end users understand what they are signing up to, prior to delivery, following a clear and understandable language,</i>• <i>The digital public service requests an "explicit consent" in the sense that the end users give clear and documentable consent, prior to delivery, to the terms of the agreement (e.g. by ticking one or more boxes or signing a form that clearly describes the data, information and knowledge to be processed and shared)”</i> <p>have been updated as follows:</p>

	<ul style="list-style-type: none"> • <i>“The service does not request any end-user consent although the data, information and knowledge delivered required prior to delivery are subject to data protection provisions,</i> • <i>The service implicitly requests an "implied consent" in the sense that the end users provide their details (email, name, etc.) required prior to delivery, but do not sign anything to explicitly say (e.g. by ticking a box) that they agree on sharing their personal data. This is implicit in their participation,</i> • <i>The service requests an "informed consent" in the sense that the end users understand what they are signing up to, prior to delivery, following a clear and understandable language,</i> • <i>The service requests an "explicit consent" in the sense that the end users give clear and documentable consent, prior to delivery, to the terms of the agreement (e.g. by ticking one or more boxes or signing a form that clearly describes the data, information and knowledge to be processed and shared),</i> • <i>The service requests an "explicit consent" in the sense that the end users give clear and documentable consent, prior to delivery, to the terms of the agreement (e.g. by ticking one or more boxes or signing a form that clearly describes the data, information and knowledge to be processed and shared) and they are also provided with consent management options,</i> • <i>Not applicable or not necessary (because e.g. none of the data, information and knowledge required prior to delivery is subject to any data protection provisions),</i> • <i>No answer”.</i>
<p>Updated D7 question and its options</p>	<p>Date: 04/05/2022</p> <p>The item “D7. To what extent does the digital public service enable end-users to manage (i.e. revoke) consent to deliver data, information and knowledge?” has been rephrased as “D7. To what extent does the service obtain end-user consent for the reuse of their delivered data, information and knowledge?”.</p> <p>The following initial options of D7 item:</p> <ul style="list-style-type: none"> • <i>“Not applicable because either the digital public service does not deliver data, information, knowledge or because none of the data, information and knowledge delivered is subject to any data protection provisions,</i> • <i>The digital public service obtains a one-time consent from the end user in order to deliver data, information and knowledge,</i> • <i>The digital public service obtains an "explicit consent" from the end-user to deliver data, information and knowledge. This means that it can reuse specific data and for specific purposes based on specific terms that the end-user has chosen (e.g. by ticking one or more boxes),</i> • <i>The digital public service obtains "full consent" in the sense that it can fully reuse end-user data, information and knowledge,</i>

	<ul style="list-style-type: none"> • <i>The digital public service obtains "full consent" in the sense that it can fully reuse end-user data, information and knowledge, as well as share with other parties"</i> <p>have been updated as follows:</p> <ul style="list-style-type: none"> • <i>"The service does not obtain end-user consent for the reuse of their delivered data, information and knowledge,</i> • <i>The service obtains a one-time consent from the end user for the reuse of their delivered data, information and knowledge,</i> • <i>The service obtains an "explicit consent" from the end-user to deliver data, information and knowledge. This means that it can reuse specific data and for specific purposes based on specific terms that the end-user has chosen (e.g. by ticking one or more boxes),</i> • <i>The service obtains "full consent" from the end-user in the sense that it can fully reuse end-user data, information and knowledge delivered, for any purpose,</i> • <i>The service obtains "full consent" from the end-user in the sense that it can fully reuse end-user data, information and knowledge delivered, for any purpose, as well as share with other parties,</i> • <i>Not applicable or not necessary (because e.g none of the data, information and knowledge delivered is subject to any data protection provisions),</i> • <i>No answer".</i>
<p>Updated the options on D8 question</p>	<p>Date: 04/05/2022</p> <p>The options on the item <i>"D8. To what extent does the service deliver data, information, knowledge from other consumed services? (e.g. address, geolocation data, personal data)"</i> have been updated.</p> <p>The following initial options:</p> <ul style="list-style-type: none"> • <i>"Not applicable because the digital public service does not consume data, information, knowledge from any electronic registries nor other sources or, because none of the consumed data is applicable to be already reusable in delivery,</i> • <i>None of the consumed data, information and knowledge are already reusable for the public service delivery. Currently, new data have to be consumed from citizens or businesses for the delivery of the digital public service although, there is the applicability to consume data, information, knowledge already reusable for the public service delivery (e.g. from electronic base registries, etc.),</i> • <i>Partially, some of the consumed data, information and knowledge are already reusable for the public service delivery (where applicable),</i> • <i>Fully, all the consumed data, information and knowledge are already reusable for the public service delivery (where applicable)"</i> <p>have been updated as follows:</p> <ul style="list-style-type: none"> • <i>"The service does not deliver any of the data, information and knowledge consumed from other services,</i>

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	<ul style="list-style-type: none">• <i>The service delivers data, information and knowledge consumed from other services, only in an ad-hoc manner (e.g. on demand),</i>• <i>The service delivers data, information and knowledge consumed from other services at a limited extent (i.e. very few of the delivered data, information and knowledge comes directly from other services),</i>• <i>The service delivers data, information and knowledge consumed from other services at a large extent (i.e. most of the delivered data, information and knowledge comes directly from other services),</i>• <i>The service delivers data, information and knowledge consumed only from other services (i.e. any of the delivered data, information and knowledge comes directly from other services and the user entry is minimised to zero),</i>• <i>Not applicable or not necessary (because e.g. the service does not consume data, information and knowledge from any electronic registries nor other sources or, because none of the consumed data is applicable to be already reusable in delivery),</i>• <i>No answer”.</i>
Updated the options on D9 question	<p>Date: 04/05/2022</p> <p>The options on the item “D9. To what extent does the service provide user friendly explanations on the legal provisions concerning the data, information and knowledge delivered?” have been updated.</p> <p>The following initial options:</p> <ul style="list-style-type: none">• “Not applicable, there is no need to have such rules in place,• Rules and concepts of the digital public service are not described at all,• They are partially described in a high-level manner but they are somehow clear and understood by the end-users,• The legislative provisions of the service are as clear and simple as possible and they are easy to understand for end-users” <p>have been updated as follows:</p> <ul style="list-style-type: none">• <i>“The service does not provide any explanations on the legal provisions (rules and concepts) regarding the data, information and knowledge delivered,</i>• <i>The service provides ad-hoc explanations on the legal provisions (rules and concepts) regarding the data, information and knowledge delivered (e.g. on demand),</i>• <i>The service provides somehow clear and comprehensible explanations on the legal provisions (rules and concepts) regarding the data, information and knowledge delivered,</i>• <i>The service provides fully clear and comprehensible explanations on the legal provisions (rules and concepts) regarding the data, information and knowledge delivered,</i>• <i>The service provides fully clear and comprehensible explanations (rules and concepts) on the legal provisions regarding the data,</i>

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	<p><i>information and knowledge delivered and constantly refines this information,</i></p> <ul style="list-style-type: none"> • <i>Not applicable, there is no need to have such rules in place,</i> • <i>No answer”.</i>
<p>Updated the options on D10 question</p>	<p>Date: 04/05/2022</p> <p>The options on the item “D10. To what extent does the service provide tracing and logging mechanisms to allow a secure delivery of data, information and knowledge towards its end users?” have been updated.</p> <p>The following initial options:</p> <ul style="list-style-type: none"> • “Not applicable, the digital public service does not need to have any tracing and logging mechanisms, • No such mechanism is in place although the digital public service should have user tracing and logging applications to monitor the delivery of data, information and knowledge across a single user's journey through the digital public service, • There are user tracing and logging applications in place, to monitor the delivery of data, information and knowledge across a single user's journey through the digital public service, • There are user tracing and logging applications in place, to monitor the delivery of data, information and knowledge across a single user's journey through the digital public service, involving different actors and their roles, whose responsibilities are clearly established from the outset and explained to the end users” <p>have been updated as follows:</p> <ul style="list-style-type: none"> • <i>“No such mechanism is in place although the service should have user tracing and logging applications to monitor the delivery of data, information and knowledge across a single user's journey through the service,</i> • <i>There are user tracing and logging applications in place, to monitor the delivery of data, information and knowledge across a single user's journey through the service, involving different actors and their roles, whose responsibilities are clearly established from the outset and explained to the end users,</i> • <i>Not applicable, the service does not need to have any tracing and logging mechanisms,</i> • <i>No answer”.</i>
<p>Added a question for activation and disable the ‘Service Consumption’ section</p>	<p>Date: 29/04/2022</p> <p>New Item “Does the service consume data from other services?” has been added at the beginning of the ‘Service Consumption’ of the LIMAPS questionnaire without including scoring. This item activates and disables the ‘Service Consumption’ section.</p> <p>New item “I confirm that the service does not consume data from other services.” has been added below the item ““Does the service consume data</p>

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	<p>from other services?” with the option “Yes, I confirm”. The option will take the highest score (3000/3000) in order not to penalise the digital public service under assessment.</p>
Updated the options on C1 question	<p>Date: 04/05/2022</p> <p>The options on the item “C1. To what extent is the service compliant with the legal obligations that define the specifications of the data, information and knowledge consumed by other services?” have been updated.</p> <p>The following initial options:</p> <ul style="list-style-type: none">• “Such compliance is not applicable (because the digital public service does not consume data, information and knowledge) or not necessary (because there are no legal obligations that affect the consumption of data, information and knowledge),• The digital public service is not compliant with any of the existing legal obligations that define the specifications of the data, information and knowledge consumed by the digital public service,• The digital public service is partially compliant with some of the existing legal obligations that define the specifications of the data, information and knowledge consumed by the digital public service,• The digital public service is fully compliant with most of the existing legal obligations that define the specifications of the data, information and knowledge consumed by the digital public service (at a national level),• The digital public service is fully compliant with all the existing legal obligations that define the specifications of the data, information and knowledge consumed by the digital public service (both at national and international level, e.g. to the Open Data Directive, to the eIDAS Regulation on electronic identification for electronic identification and/or trust services, etc.)” <p>have been updated as follows:</p> <ul style="list-style-type: none">• “The service is not compliant with any of the existing legal obligations that affect the consumption of data, information and knowledge,• The service is compliant with the existing legal obligations that affect the consumption of data, information and knowledge, at a local level,• The service is compliant with the existing legal obligations that affect the consumption of data, information and knowledge, at a regional level,• The service is compliant with the existing legal obligations that affect the consumption of data, information and knowledge, at a national level,• The service is compliant with the existing legal obligations that affect the consumption of data, information and knowledge, at EU level (e.g. to the Open Data Directive, to the eIDAS Regulation on electronic identification for electronic identification and/or trust services, etc.),

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	<ul style="list-style-type: none">• <i>Not applicable or not necessary (because e.g. there are no legal obligations that affect the consumption of data, information and knowledge),</i>• <i>No answer”.</i>
Updated C2 question and its options	<p>Date: 04/05/2022</p> <p>The item “C2. To what extent is the digital public service mandated by a legal basis that defines the specifications for the data, information and knowledge consumption from other services?” has been rephrased as “C2. To what extent does the service refer to the legal basis on the specifications of the data, information and knowledge consumed by other services?”.</p> <p>The following initial options of C2 item:</p> <ul style="list-style-type: none">• <i>“Not applicable, the digital public service does not need to consume any data,</i>• <i>There are considerations for national regulations to be in place,</i>• <i>National regulations are in place,</i>• <i>Formal regulations and directives are in place e.g. Open Data Directive, eIDAS Regulation on electronic identification for electronic identification and/or trust services”</i> <p>have been updated as follows:</p> <ul style="list-style-type: none">• <i>“The service does not refer to the legal basis on the data, information and knowledge it consumes, although there are legal barriers that impact the consumption that have to be legally resolved (e.g. in the case of personal/critical data, information and knowledge that have to be consumed),</i>• <i>The service provides custom rules to define the specifications for the consumption of data, information and knowledge, but there are legal barriers that impact the consumption of data, information and knowledge that require a stronger legal basis (e.g. in the case of personal/critical data, information and knowledge that have to be delivered),</i>• <i>The service provides formal rules to define the specifications for the consumption of a limited amount of data, information and knowledge (e.g. a legislation obliging the controller to carry out an assessment of the impact of the envisaged consumption and processing operations on the protection of personal data e.g. GDPR),</i>• <i>The service provides formal rules to define the specifications for the consumption of most data, information and knowledge (e.g. a legislation obliging the controller to carry out an assessment of the impact of the envisaged consumption and processing operations on the protection of personal data e.g. GDPR),</i>• <i>The service provides formal rules to define the specifications for the consumption of any data, information and knowledge (e.g. a legislation obliging the controller to carry out an assessment of the impact of the envisaged consumption and processing operations on the protection of personal data e.g. GDPR),</i>

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	<ul style="list-style-type: none">• <i>Not applicable or not necessary (because e.g. there are no legal barriers to impact the consumption of data, information and knowledge and thus, no need to be legally resolved),</i>• <i>No answer”.</i>
Updated C3 question and its options	<p>Date: 04/05/2022</p> <p>The item “C3. To what extent is the digital public service legally mandated to consume data, information, technology in a machine-readable format?” has been rephrased as “C3. To what extent is the service compliant with legislation that mandates the consumption of data, information and knowledge in a machine-readable format?”.</p> <p>The following initial options of C3 item:</p> <ul style="list-style-type: none">• <i>“Not applicable, there is no automated data consumption,</i>• <i>There is such legal basis but no provisions are in place yet,</i>• <i>Partially, there is a legal basis that mandates a semi-automated data consumption using IT applications interfacing with information systems,</i>• <i>Fully, there is a legal basis that mandates fully automated data consumption e.g. AI-based tools (machine learning)”</i> <p>have been updated as follows:</p> <ul style="list-style-type: none">• <i>“The service is not compliant with legislation that mandates the consumption of data, information and knowledge in a machine-readable format,</i>• <i>The service is not compliant with legislation that mandates the consumption of data, information and knowledge in a machine-readable format, but there are actions in place towards enabling this functionality for a limited volume of data, information and knowledge to be delivered,</i>• <i>The service is compliant with legislation that mandates the consumption of data, information and knowledge in a machine-readable format (e.g. via IT applications interfacing with information systems) for a limited volume of data, information and knowledge delivered,</i>• <i>The service is compliant with legislation that mandates the consumption of data, information and knowledge in a machine-readable format (e.g. via IT applications interfacing with information systems) for most volume of data, information and knowledge delivered,</i>• <i>The service is compliant with legislation that mandates the consumption of data, information and knowledge in a machine-readable format (e.g. via IT applications interfacing with information systems) for any data, information and knowledge,</i>• <i>Not applicable or not necessary (because e.g. there is no M2M consumption or no such legislation in place),</i>• <i>No answer”.</i>

<p>Updated C4 question and its options</p>	<p>Date: 04/05/2022</p> <p>The item <i>“C4. To what extent does the digital public service consume data, information, knowledge that are subject to a license that describes their specifications?”</i> has been rephrased as <i>“C4. To what extent does the service reuse the data, information and knowledge consumed under a license that describes the terms and conditions for their reuse? (symmetrical to D4)”</i>.</p> <p>The following initial options of C4 item:</p> <ul style="list-style-type: none"> • <i>“Not applicable, the digital public service does not consume data,</i> • <i>They are not subject to any license, although they could be,</i> • <i>They are subject to a proprietary license,</i> • <i>They are subject to an Open Data License”</i> <p>have been updated as follows:</p> <ul style="list-style-type: none"> • <i>“The service does not enable any reuse of the data, information and knowledge consumed,</i> • <i>The service enables the reuse of the data, information and knowledge consumed under only proprietary licenses that describe the terms and conditions for their reuse,</i> • <i>The service enables the reuse of a limited amount of data, information and knowledge consumed under open source licenses that describe the terms and conditions for their reuse. Activities are in place to improve this volume,</i> • <i>The service enables the reuse of most data, information and knowledge consumed under open source licenses that describe the terms and conditions for their reuse. Activities are in place to improve this volume,</i> • <i>The service enables the reuse of any data, information and knowledge consumed under open source licenses that describe the terms and conditions for their reuse,</i> • <i>Not applicable or not necessary (because there are no legal obligations to require licensing the data, information and knowledge consumed),</i> • <i>No answer”.</i>
<p>Updated the options on C5 question</p>	<p>Date: 04/05/2022</p> <p>The options on the item <i>“C5. To what extent does the service consume already reusable data, information and knowledge from other services?”</i> have been updated.</p> <p>The following initial options:</p> <ul style="list-style-type: none"> • <i>“Not applicable, there are no data, information, knowledge from other sources that could be already reusable,</i> • <i>The digital public service does not consume any already reusable data from other services, although this could be applicable,</i> • <i>Currently, new data are only being consumed from citizens or businesses in an ad hoc manner under ad-hoc agreements,</i>

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	<ul style="list-style-type: none"> • <i>The digital public service consumes already reusable data of public sector information with the right to the protection of personal data,</i> • <i>The digital public service discovers and consumes already reusable open data from open data portals or catalogues where there is a public access of data and information”</i> <p>have been updated as follows:</p> <ul style="list-style-type: none"> • <i>“The service consumes does not consume already reusable data of public sector information (e.g. they might be subject to the right of the protection of personal data),</i> • <i>The service discovers and consumes already reusable open data from open data portals or catalogues where there is a public access of data and information,</i> • <i>Not applicable or not necessary (e.g. new data are only being consumed from citizens),</i> • <i>No answer”</i> .
<p>Updated the options on C6 question</p>	<p>Date: 04/05/2022</p> <p>The options on the item “C6. To what extent does the digital public service have preservation policies in place to specify the time period for keeping the data, information and knowledge consumed in an electronic format?” have been updated.</p> <p>The following initial options:</p> <ul style="list-style-type: none"> • <i>“Not applicable, the digital public service does consume data,</i> • <i>The digital public service does not apply such policies, although it consumes and maintains data from other services,</i> • <i>The digital public service uses custom standards around data preservation,</i> • <i>The digital public service uses formal standards around data preservation e.g. ISO 19165-1:2018 — Preservation of digital data and metadata”</i> <p>have been updated as follows:</p> <ul style="list-style-type: none"> • <i>“The service does not apply such policies, although it consumes and maintains data from other services,</i> • <i>The service uses formal standards around data preservation e.g. ISO 19165-1:2018 — Preservation of digital data and metadata,</i> • <i>Not applicable, the service does consume data,</i> • <i>No answer”</i> .
<p>Updated the options on C6 question</p>	<p>Date: 04/05/2022</p> <p>The options on the item “C7. To what extent are tracing and logging mechanisms in place to monitor and ensure the secure consumption of data, information and knowledge from other services?” have been updated.</p> <p>The following initial options:</p> <ul style="list-style-type: none"> • <i>“Not applicable, the digital public service does not consume data,</i>

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	<ul style="list-style-type: none"> • No such mechanism is in place although the digital public service consumes data from other services, • Partially, there are contact tracing applications in place, but the consumption of personal data does not have a legal basis, • Fully, there are contact tracing applications in place and the legal basis for consuming personal data is compliant with GDPR i.e. Art. 6(1)(e).” <p>have been updated as follows:</p> <ul style="list-style-type: none"> • <i>“No such mechanism is in place although the service should have user tracing and logging applications to monitor the consumption of data, information and knowledge across a single user's journey through the service,</i> • <i>There are user tracing and logging applications in place, to monitor the consumption of data, information and knowledge across a single user's journey through the service, involving different actors and their roles, and the legal basis for consuming personal data is compliant with GDPR i.e. Art. 6(1)(e).,</i> • <i>Not applicable, the service does not need to have any tracing and logging mechanisms,</i> • <i>No answer” .</i>
<p>Added a free text question for any comment</p>	<p>Date: 29/04/2022</p> <p>New Item <i>“Please provide your comments and/or summarize your options, if necessary.”</i> has been added at the end of each section on the LIMAPS questionnaire.</p>
<p>Added a section for rating purposes</p>	<p>Date: 21/12/2021</p> <p>A new ‘Rating’ section has been added on the final page allowing rating in the survey by including the item <i>“How would you rate this questionnaire?”</i>.</p>
<p>Included a disclaimer on results report for the responsibility from the side of the Commission on any post-processing of output produced by the solution</p>	<p>Date: 03/05/2022</p> <p>The following disclaimer for the responsibility reference regarding the implementation of the recommendations from the digital public service owner has been included in the ‘Results Message’.</p> <p>“Disclaimer</p> <p>The information and views in this results report do not necessarily reflect the official opinion of the Commission. The Commission does not guarantee the accuracy of the information included in this document. Neither the Commission nor any person acting on the Commission’s behalf may be held responsible for any post-processing of the results produced in the present report.”</p>
<p>Updated LIMAPS Questionnaire</p>	<p>The following changes have been made to the LIMAPS questionnaire:</p> <p>Date: 20/12/2021</p>

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- The 'Service Identification' (A) annotating the scope of the digital public service has been merged in the Introduction section of LIMAPS questionnaire.
- The interoperability maturity levels have been included without implement the scoring in the Introduction section of LIMAPS questionnaire.
- The item "A1D. Please indicate the country of the organisation providing the service" related to the geographical area has been updated from single choice type as a drop-down menu by keeping the list of countries and the "Other" option. In case of the "Other" option, a free text is available.
- The display of legal and license information, as well as user content inputs have been grouped.

Date: 10/01/2022

- A reference to the IQAT license has been included alongside legal notices on the LIMAPS questionnaire.
- The 'ISA2 Programme' has been replaced with 'Interoperable Europe' in the Introduction section of LIMAPS questionnaire.

Date: 12/04/2022

The keywords on the options of LIMAPS questionnaire have been highlighted in bold to facilitate the user reading experience.

Date: 13/04/2022

All ABBs are hyperlinked (PURIs) with the most common terms used throughout the questionnaires to the EIRA Glossary.

Date: 19/04/2022

The spelling of the word "*inistitution*" has been corrected as "*institution*" in the options of the item "A3A. Service provider: Which tier of public administration is primarily responsible for providing the service?" on the LIMAPS questionnaire.

Date: 29/04/2022

- The word 'owner' has been replaced with the phrase 'service provider' on the item "A3A. Service provider: Which tier of public administration is primarily responsible for providing the service?" and overall, on LIMAPS questionnaire.
- A reference to the IMAPS User Guide has been included alongside legal notices on the LIMAPS questionnaire.

Date: 03/05/2022

- The phrase "fully compliant with most of" replaced with "fully compliant with all" on the options of LIMAPS questionnaire.
- The following items on the "Service Identification" section have been updated as optional based on the feedback from the expert reviews:
 - The item "A1A. Please provide your name",

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	<ul style="list-style-type: none"> ○ The item “A1B. Please provide your email address”, ○ The item “A1C. Please provide your phone number”, ○ The item “A1D. Please indicate the country of the organisation providing the service”, ○ The item “A1F. Please provide the address of the organisation providing the service”, ○ The item “A2A. A digital public service is a digital service rendered in the public interest. What is the name of the digital public service that you provide to the end users (citizens, businesses or other public administrations)? Please also provide the public service catalogue name and URI, if it is applicable for the digital public service”, ○ The item “A2B. Use the following criteria to define a service: i) Process and underlying activities, ii) Appearance, iii) Provider (see A3). Please describe the process and underlying activities of the service. The service always has three phases (1. initiation, 2. processing and 3. delivery of an outcome). Focus on the public decision that is the outcome of the service. If there is no public decision and/or outcome, focus on the benefits the service provides to the target audience”, ○ The item “A2C. Appearance: How does the service deliver the outcome towards the end user group?”, ○ The item “A3A. Service provider: Which tier of public administration is primarily responsible for providing the service?”, ○ The item “A3B. Please indicate the Directorate-General of the European Commission”, ○ The item “A4. Please indicate in which sector is the service provided”, ○ The item “A5. What is the end user group to whom the service is delivered?”, ○ The item “A6. At what administrative level is the service provided (multiple answers are possible)?”. ● The item “Would you like to be contacted for evaluation purposes?” has been updated as bold in the ‘Introduction’ section of the LIMAPS questionnaire. ● The "More info" functionality has been added including the examples on the A2A, A2B, A2C, A3 and A5 items for the LIMAPS questionnaire. <p>Date: May 2022</p> <ul style="list-style-type: none"> ● Updated the binary questions in LIMAPS. ● Updated the levels of questionnaires and implemented 5 responses.
<p>Accessibility by visually impaired or blind people</p>	<p>Date: 17/03/2022</p> <p>The “Accessibility Mode” has been activated on LIMAPS assessment to increase survey readability and help visually impaired readers.</p>
<p>Applicability</p>	<p>Date: 29/04/2022</p>

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	Based on the feedback from the expert reviews, the option ‘Not applicable’ should be included in the options of all LIMAPS items. As such, the project team added the ‘Not applicable’ option to all LIMAPS items as an option. The “N/A” options will take the highest score (100/100) in order not to penalize the digital public service under assessment.
No answer	Date: 29/04/2022 Based on the feedback from the expert reviews, the option ‘No answer’ should be included in the options of all LIMAPS items. As such, the project team added the ‘No answer’ option to all LIMAPS items as the last option. The ‘No answer’ will take the lowest score (0/100).
Repetition	Date: 29/04/2022 According to the feedback received during pilot workshops, the term “Service” replaced the term “digital public service” in all LIMAPS items with a view to reduce repetition. A relevant disclaimer added in the Identification Section of the questionnaire.
Items’ level of granularity	Date: May 2022 Items’ options have been reworked to cover a 5-level extent of replies that reflect each one of the 5 interoperability maturity levels of LIMAPS (ad-hoc, opportunistic, essential, sustainable, and seamless).
Scoring model	Date: May 2022 The existing scoring model of LIMAPS version 1.0.0 is maintained, meaning that the sections Data, information and knowledge delivered/consumed, Service Delivery/Consumption Enablers and Service Delivery/Consumption Manifestations have weights 40%, 40% and 20% respectively across the whole questionnaire. However, the scoring per item has been adapted based on the 5 interoperability maturity levels of IMAPS (ad-hoc, opportunistic, essential, sustainable, and seamless), reflecting also the level of granularity mentioned above.
IMAPS to LIMAPS user journey	Date: 22/12/2021 The project team created a simple illustration of a “user journey” to give more context and explanation to the end-user on how the LIMAPS survey can be used and to its connection to the IMAPS survey. This visual is shown before the assessment, as part of the introduction to the survey at the EU Survey portal. It describes the structure and logic behind the LIMAPS survey, starting from the IMAPS questionnaire, explaining the LIMAPS model and structure.
Previous contract change requests	Date: December 2021

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	All Change Requests (CRs) based on JIRA tickets collected during the previous contract, have been included in the LIMAPS version 1.1.0.
Version 1.0.0	
Updated conceptual model of LIMAPS	<p>Updates have been applied to the LIMAPS conceptual model. These updates include:</p> <ul style="list-style-type: none"> Added the ‘Service Identification’ section (A) annotating the scope of the digital public service <p>The updated conceptual model is illustrated in the ‘Introduction’ section of the online LIMAPS survey.</p>
LIMAPS URL at the EU Survey portal	The version 1.0.0 https://ec.europa.eu/eusurvey/runner/limaps-beta has been replaced by the https://ec.europa.eu/eusurvey/runner/LIMAPS_v_1_0_0
Added a question for future contacting purposes	New Item “ <i>Would you like to be contacted for evaluation purposes?</i> ” has been added in the ‘Introduction’ section of the LIMAPS questionnaire.
IMAPS to LIMAPS user journey	The project team created a simple illustration of a “user journey” to give more context and explanation to the end-user on how the LIMAPS survey can be used and to its connection to the IMAPS survey. This visual is shown before the assessment, as part of the introduction to the survey at the EU Survey portal. It describes the structure and logic behind the LIMAPS survey, starting from the IMAPS questionnaire, explaining the LIMAPS model and structure.
Updated LIMAPS items	<p>Some items from version <i>LIMAPS 1.0.0 beta</i> were highly complex and according to the expert reviews, their terminology and language needed simplification. The project team has updated the language and the terminology of all LIMAPS items by including the terminology specificities (purpose, structure, EIRA ABBs, etc.) in the “More info” section of the online survey section to facilitate end-user understanding. This approach ensures consistency with the internal structure of IMAPS and its specialisations, as well as alignment with other actions, facilitating the end user (i.e. who replies the questionnaire) understanding. In this context, examples have been added in the “More info” section of the online survey section facilitating the end user understanding. In addition, the following items have been added to LIMAPS version 1.0.0:</p> <ul style="list-style-type: none"> Item D3: To what extent is the digital public service legally mandated to deliver data, information, knowledge in a machine-readable format? Item D5: To what extent does the digital public service inform to the end users on the legal aspects that define the specifications of the delivered data, information, knowledge?

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	<ul style="list-style-type: none"> • Item D6: To what extent does the digital public service request end-user’s consent prior to the delivery of data, information and knowledge? • Item D7: To what extent does the digital public service enable end-users to manage (i.e. revoke) consent to deliver data, information and knowledge? • Item D8: To what extent does the digital public service deliver data, information, knowledge from other consumed services? (e.g. address, geolocation data, personal data) • Item D9: To what extent does the digital public service provide user friendly explanations on the legal provisions concerning the data, information and knowledge delivered? • Item D10: To what extent does the digital public service provide tracing and logging mechanisms to allow a secure delivery of data, information and knowledge towards its end users? • Item C3: To what extent is the digital public service legally mandated to consume data, information and knowledge in a machine-readable format?
Applicability	Based on the feedback from the expert reviews, the option ‘Not applicable’ should be included in the options of all LIMAPS items. As such, the project team added the ‘Not applicable’ option to all LIMAPS items as the first option. The “N/A” options will take the highest score (100/100) in order not to penalize the digital public service under assessment.
Scoring model	The existing scoring model of LIMAPS version 1.0.0 beta is maintained meaning that the sections Data, information and knowledge delivered/consumed, Service Delivery/Consumption Enablers and Service Delivery/Consumption Manifestations have 40%, 40% and 20% respective weights in the whole questionnaire. However, the score per item has changed due to the addition of the “N/A” option to all LIMAPS items.
Previous contract change requests	All Change Requests (CRs) based on JIRA tickets collected during the previous contract, have been included in the LIMAPS version 1.0.0.
Version 1.0.0 beta	

2.2 [LIMAPS v1.2.0 User Guide](#)

A PDF document describing the user guide of LIMAPS including the LIMAPS model, the LIMAPS survey and the recommendations of each LIMAPS question.

Table 2: Updates at LIMAPS User Guide

Modification	Details
Version 1.2.0	
Updated LIMAPS user guide	<p>Date: November 2022</p> <p>The User Guide is a consolidated document that includes the previous release components “User guide”, “Questionnaire” and “Recommendations”.</p>
IMAPS to LIMAPS user journey	<p>Date: November 2022</p> <p>The project team updated the user journey to be aligned with the Interoperable Europe identity. The project team updated the illustration of “user journey” to be aligned with the Interoperable Europe identity. This visual is shown before the assessment, as part of the introduction to the survey at the EU Survey portal. It describes the structure and logic behind the LIMAPS survey, starting from the IMAPS questionnaire, explaining the LIMAPS model and structure</p>
LIMAPS URL at the EU Survey portal	<p>Date: November 2022</p> <p>The version 1.1.0 https://ec.europa.eu/eusurvey/runner/LIMAPS_v_1_1_0 has been replaced by the version 1.2.0 https://ec.europa.eu/eusurvey/runner/LIMAPS_v_1_2_0.</p>
Updated the LIMAPS logo	<p>Date: November 2022</p> <p>The LIMAPS logo has been updated in order to be aligned with the Interoperable Europe identity.</p>
Updated LIMAPS items on Questionnaire	<p>Date: November 2022</p> <p>The following item has been added to LIMAPS version 1.2.0:</p> <ul style="list-style-type: none"> Item A3B: Are the solutions provided by a Directorate-General of the European Commission.
Scoring model	<p>Date: May 2022</p> <p>The existing scoring model of LIMAPS version 1.1.0 is maintained, meaning that the sections Data, information and knowledge delivered/consumed, Service Delivery/Consumption Enablers and Service Delivery/Consumption Manifestations have weights 40%, 40% and 20% respectively across the whole questionnaire. However, the scoring per item has been adapted based on the 5 interoperability</p>

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	maturity levels of IMAPS (ad-hoc, opportunistic, essential, sustainable, and seamless), reflecting also the level of granularity mentioned above.
Previous contract change requests	Date: November 2022 All Change Requests (CRs) based on JIRA tickets collected during the previous contract, have been included in the LIMAPS version 1.2.0.
Version 1.1.0	
Updated LIMAPS user guide	Date: 5/5/2022 The User Guide is a consolidated document that includes the previous release components “User guide”, “Questionnaire” and “Recommendations”.
IMAPS to LIMAPS user journey	Date: 22/12/2021 The project team created a simple illustration of a “user journey” to give more context and explanation to the end-user on how the LIMAPS survey can be used and to its connection to the IMAPS survey. This visual is shown before the assessment, as part of the introduction to the survey at the EU Survey portal. It describes the structure and logic behind the LIMAPS survey, starting from the IMAPS questionnaire, explaining the LIMAPS model and structure.
LIMAPS URL at the EU Survey portal	Date: 20/12/2021 The version 1.0.0 https://ec.europa.eu/eusurvey/runner/LIMAPS_v_1_0_0 has been replaced by the version 1.1.0 https://ec.europa.eu/eusurvey/runner/LIMAPS_v_1_1_0
Updated LIMAPS items on Questionnaire	The following items have been added to LIMAPS version 1.1.0: <ul style="list-style-type: none"> • Item A1E: Please provide your role in the organisation providing the service • Item A1F: Please provide the address of the organisation providing the service • Item A2D: Please specify the email address of the provided digital public service • Item A3B: Please indicate the Directorate-General of the European Commission • Item: Does the service consume data from other services? • Item: I confirm that the service does not consume data from other services has been added below the item “Does the service consume data from other services?”.
Applicability	Date: 29/04/2022 Based on the feedback from the expert reviews, the option ‘Not applicable’ should be included in the options of all LIMAPS items. As

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	such, the project team added the 'Not applicable' option to all LIMAPS items as an option. The "N/A" options will take the highest score (100/100) in order not to penalize the digital public service under assessment.
No answer	<p>Date: 29/04/2022</p> <p>Based on the feedback from the expert reviews, the option 'No answer' should be included in the options of all LIMAPS items. As such, the project team added the 'No answer' option to all LIMAPS items as the last option. The 'No answer' will take the lowest score (0/100).</p>
Scoring model	<p>Date: May 2022</p> <p>The existing scoring model of LIMAPS version 1.0.0 is maintained, meaning that the sections Data, information and knowledge delivered/consumed, Service Delivery/Consumption Enablers and Service Delivery/Consumption Manifestations have weights 40%, 40% and 20% respectively across the whole questionnaire. However, the scoring per item has been adapted based on the 5 interoperability maturity levels of IMAPS (ad-hoc, opportunistic, essential, sustainable, and seamless), reflecting also the level of granularity mentioned above.</p>
Previous contract change requests	<p>Date: May 2022</p> <p>All Change Requests (CRs) based on JIRA tickets collected during the previous contract, have been included in the LIMAPS version 1.1.0.</p>
Version 1.0.0	
Updated LIMAPS user guide	The User Guide is a consolidated document that includes the previous release components "User guide", "Questionnaire" and "Recommendations".
Updated conceptual model of LIMAPS	<p>Updates have been applied to the LIMAPS conceptual model. These updates include:</p> <ul style="list-style-type: none"> Added the 'Service Identification' section (A) annotating the scope of the digital public service <p>The updated conceptual model is illustrated in the 'Introduction' section of the online LIMAPS survey.</p>
IMAPS to LIMAPS user journey	The project team created a simple illustration of a "user journey" to give more context and explanation to the end-user on how the LIMAPS survey can be used and to its connection to the IMAPS survey. This visual is shown before the assessment, as part of the introduction to the survey at the EU Survey portal. It describes the structure and logic behind the LIMAPS survey, starting from the IMAPS questionnaire, explaining the LIMAPS model and structure.

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<p>LIMAPS URL at the EU Survey portal</p>	<p>The version 1.0.0 https://ec.europa.eu/eusurvey/runner/limaps-beta has been replaced by the https://ec.europa.eu/eusurvey/runner/LIMAPS v 1 0 0</p>
<p>Updated LIMAPS items</p>	<p>Some items from version LIMAPS 1.0.0 beta were highly complex and according to the expert reviews, their terminology and language needed to be simplified. The project team has updated the language and the terminology of all LIMAPS items by including the terminology specificities (structure, EIRA ABBs, etc.) in the "More info" section of the online survey to facilitate end-user understanding. This way we maintain the internal structure and the alignment with other actions, facilitating the end user (i.e. who replies the questionnaire) understanding. In this context, examples have been added in the "More info" section of the online survey facilitating the end user understanding. In addition, the following items have been added to LIMAPS version 1.0.0:</p> <ul style="list-style-type: none"> • Item D3: To what extent is the digital public service legally mandated to deliver data, information, knowledge in a machine-readable format? • Item D5: To what extent does the digital public service inform to the end users on the legal aspects that define the specifications of the delivered data, information, knowledge? • Item D6: To what extent does the digital public service request end-user’s consent prior to the delivery of data, information and knowledge? • Item D7: To what extent does the digital public service enable end-users to manage (i.e. revoke) consent to deliver data, information and knowledge? • Item D8: To what extent does the digital public service deliver data, information, knowledge from other consumed services? (e.g. address, geolocation data, personal data) • Item D9: To what extent does the digital public service provide user friendly explanations on the legal provisions concerning the data, information and knowledge delivered? • Item D10: To what extent does the digital public service provide tracing and logging mechanisms to allow a secure delivery of data, information and knowledge towards its end users? • Item C3: To what extent is the digital public service legally mandated to consume data, information and knowledge in a machine-readable format?
<p>Applicability</p>	<p>Based on the feedback from the expert reviews, the option ‘Not applicable’ should be included in the options of all LIMAPS items. As such, the project team added the ‘Not applicable’ option to all LIMAPS items as the first option. The “N/A” options will take the highest score (100/100) in order not to penalize the digital public service under assessment.</p>

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Scoring model	The existing scoring model of LIMAPS version 1.0.0 beta is maintained meaning that the sections Data, information and knowledge delivered/consumed, Service Delivery/Consumption Enablers and Service Delivery/Consumption Manifestations have 40%, 40% and 20% respective weights across the whole questionnaire. However, the score per item has changed due to the items added and removed, but also due to the addition of the "N/A" option to all LIMAPS items.
Previous contract change requests	All Change Requests (CRs) based on JIRA tickets collected during the previous contract, have been included in the LIMAPS version 1.0.0.
Version 1.0.0 beta	

2.3 LIMAPS v1.2.0 Publication on Joinup

The public web page (<https://joinup.ec.europa.eu/collection/interoperability-assessment-tools-iats-digital-public-services/solution/limaps/about>) describing LIMAPS version 1.2.0.

Table 3: Changes in Joinup

Modification	Details
Version 1.2.0	
LIMAPS URL at the EU Survey portal	<p>Date: November 2022</p> <p>The version 1.1.0 https://ec.europa.eu/eusurvey/runner/LIMAPS_v_1_1_0 has been replaced by the version 1.2.0 https://ec.europa.eu/eusurvey/runner/LIMAPS_v_1_2_0.</p>
LIMAPS Release components	<p>Date: November 2022</p> <p>The version 1.2.0 includes the following release components:</p> <ul style="list-style-type: none"> • LIMAPS v1.2.0 EU Survey portal • LIMAPS v1.2.0 User Guide; • LIMAPS v1.2.0 Publication on Joinup; • LIMAPS v1.2.0 Value proposition; • LIMAPS v1.2.0 Release package; • ISA product license.
Version 1.1.0	
LIMAPS URL at the EU Survey portal	<p>Date: 20/12/2021</p> <p>The version 1.0.0 https://ec.europa.eu/eusurvey/runner/LIMAPS_v_1_0_0 has been replaced by the version 1.1.0 https://ec.europa.eu/eusurvey/runner/LIMAPS_v_1_1_0</p>
LIMAPS Release components	<p>Date: 6/5/2022</p> <p>The version 1.1.0 includes the following release components:</p> <ul style="list-style-type: none"> • LIMAPS v1.1.0 EU Survey portal • LIMAPS v1.1.0 User Guide; • LIMAPS v1.1.0 Publication on Joinup; • LIMAPS v1.1.0 Value proposition; • LIMAPS v1.1.0 Release package; • ISA product license.
Version 1.0.0	

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Updated conceptual model of LIMAPS	<p>Updates have been applied to the LIMAPS conceptual model. These updates include:</p> <ul style="list-style-type: none">• Added the 'Service Identification' section (A) annotating the scope of the digital public service <p>The updated conceptual model is illustrated in the 'Introduction' section of the online LIMAPS survey.</p>
LIMAPS URL at the EU Survey portal	<p>The version 1.0.0 https://ec.europa.eu/eusurvey/runner/limaps-beta has been replaced by the https://ec.europa.eu/eusurvey/runner/LIMAPS_v_1_0_0</p>
LIMAPS Release components	<p>The version 1.0.0 includes the following release components:</p> <ul style="list-style-type: none">• LIMAPS v1.0.0 EU Survey portal• LIMAPS v1.0.0 User Guide;• LIMAPS v1.0.0 Publication on Joinup;• LIMAPS v1.0.0 Value proposition;• LIMAPS v1.0.0 Release package;• ISA product license.
Version 1.0.0 beta	

2.4 LIMAPS v1.2.0 Value Proposition

A PDF document, which provides the value proposition of LIMAPS v1.2.0.

Table 4: Changes in LIMAPS value proposition

Modification	Details
Version 1.2.0	
LIMAPS URL at the EU Survey portal	<p>Date: November 2022</p> <p>The version 1.1.0 https://ec.europa.eu/eusurvey/runner/LIMAPS_v_1_1_0 has been replaced by the version 1.2.0 https://ec.europa.eu/eusurvey/runner/LIMAPS_v_1_2_0.</p>
Updated the LIMAPS Value proposition in term of look and feel	<p>Date: November 2022</p> <p>The LIMAPS Value proposition has been updated in order to be aligned with the Interoperable Europe identity.</p>
Updated the conceptual model of LIMAPS	<p>Date: November 2022</p> <p>Updates have been applied to the LIMAPS conceptual model. These updates are based on the design part, in order to be aligned with the Interoperable Europe identity.</p> <p>The updated conceptual model is illustrated in the Introduction section of the online LIMAPS survey.</p>
Version 1.1.0	
LIMAPS URL at the EU Survey portal	<p>Date: 20/12/2021</p> <p>The version 1.0.0 https://ec.europa.eu/eusurvey/runner/LIMAPS_v_1_0_0 has been replaced by the version 1.1.0 https://ec.europa.eu/eusurvey/runner/LIMAPS_v_1_1_0</p>
Version 1.0.0	
Updated conceptual model of LIMAPS	<p>Updates have been applied to the LIMAPS conceptual model. These updates include:</p> <ul style="list-style-type: none"> • Added the ‘Service Identification’ section (A) annotating the scope of the digital public service <p>The updated conceptual model is illustrated in the ‘Introduction’ section of the online LIMAPS survey.</p>

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LIMAPS URL at the EU Survey portal	The version 1.0.0 https://ec.europa.eu/eusurvey/runner/limaps-beta has been replaced by the https://ec.europa.eu/eusurvey/runner/LIMAPS v 1 0 0
Updated layout	<p>The layout of the LIMAPS value proposition has been updated following the same look and feel of IMAPS “one pager”. In addition, the following sections have been added for an optimal user experience:</p> <ul style="list-style-type: none"> • <i>What is LIMAPS</i>: describes the logic of the LIMAPS survey • <i>What is in for you</i>: describes the benefits for the users by using LIMAPS • <i>For whom is LIMAPS relevant</i>: describes the target users (profiles) of the users that should take the LIMAPS assessment • <i>LIMAPS conceptual model & structure</i>: describes the LIMAPS conceptual model and its structure • <i>Digital Public Service Components</i>: describes the three different service areas i.e. Service Identification, Service Delivery and Service Consumption that the LIMAPS assessment captures
Version 1.0.0 beta	

2.5 [ISA Product License v1.4](#)

The license under which the LIMAPS v1.2.0 is released.

Table 5: Changes in LIMAPS release

Modification	Details
	Version 1.2.0
	Version 1.1.0
	Version 1.0.0
	Version 1.0.0 beta

2.6 [LIMAPS v1.2.0 Release](#)

An archive containing each of the above mentioned files.

Table 6: Changes in LIMAPS release

Modification	Details
Version 1.2.0	
Release package of all release components – LIMAPS v1.2.0	Date: November 2022 The version 1.2.0 includes the following release components: <ul style="list-style-type: none"> • LIMAPS v1.2.0 User Guide; • LIMAPS v1.2.0 Value proposition; • LIMAPS v1.2.0 Release notes; • ISA product license.
Version 1.1.0	
Release package of all release components – LIMAPS v1.1.0	Date: 6/5/2022 The version 1.1.0 includes the following release components: <ul style="list-style-type: none"> • LIMAPS v1.1.0 User Guide; • LIMAPS v1.1.0 Value proposition; • LIMAPS v1.1.0 Release notes; • ISA product license.
Version 1.0.0	
Release package of all release components – LIMAPS v1.0.0	The version 1.0.0 includes the following release components: <ul style="list-style-type: none"> • LIMAPS v1.0.0 User Guide; • LIMAPS v1.0.0 Value proposition; • LIMAPS v1.0.0 Release notes; • ISA product license.
Version 1.0.0 beta	