

1. PROJECT SUMMARY

Context and overall objectives

The objective of this project will be to ensure stable routine operations and necessary further development of the already operational NCPeH. Currently, the services deployed at the NCPeH are Patient Summary (in routine operations since August 2022) and ePrescriptions (in routine operations since January 2019).

Under the proposed action, the NCPeH will:

- Ensure stable operations of the deployed MyHealth@EU services, more especially the Patient Summary service by bringing it to a new platform, which will enable a more reliable service and create better opportunities for any updates in the future. Estonia is currently in progress of major update to national Health Information System, which means that old national e-health services are being moved to a new platform as microservices. Under this objective, the Patient Summary service will also be brought to the new platform as a microservice which, in addition to being a more reliable service, will also allow to make continuous upgrades easier.
- Improve the national allergy related data exchange standards to ensure allergy data for Patient Summary, which is currently incomplete. New national FHIR based standards will be created according to dataset, which will be agreed on between different national stakeholders. This will enable all Estonian health care providers to implement the new standards and start providing allergy related information to the National Health Information System (ENHIS). As Patient Summary is automatically composed of the data in ENHIS, it will also enable the necessary information in the Patient Summary service. The allergies and intolerances data section is considered part of the basic sections meaning that it must be present in a Patient Summary document. The missing data in this section for an Estonian Patient Summary is currently evaluated as finding and is in need for improvement.
- Implement upgrades to the new versions of MyHealth@EU artefacts adopted yearly by the eHMSEG and participate in yearly formal and upgrade test events.
- Translation of the Orphanet rare disease nomenclature (ORPHAcode) as a new value set, which has been added to the MyHealth@EU Master Valueset Catalogue. This would allow to display the information coming from other NCPeH in Estonian to Estonian health care professionals. The translation will be done in collaboration with Estonian rare diseases expert centre. The value set is currently planned to be translated in possible amount as, according to rare disease experts, not all codes can be translated/are reasonable to be translated.

Out of scope for this proposed action, but perhaps an effect of it is that the translation of ORPHAcode nomenclature would create an opportunity to move forward with the implementation of using the codes in national health data exchange in the future, which would allow for this information to be added to Patient Summary as well.

Work performed and main achievements

During the project's duration Estonia has ensured the stable operations of cross-border ePrescription and Patient Summary services. Developments for bringing the Patient Summary service to the new microservice platform have finished and the procurement contract has ended. However there are still

some development tasks that need to be done before this solution can be deployed live. Developments have been tested in our test environment and work will continue.

During autumn 2024 Estonia upgraded all cross-border systems to a new version (Wave 7) in live environment with other Member States and has continued to provide all four services to public and healthcare professionals.

Estonia also took part in the MyHealth@EU Wave 8 Spring Test Session with all live services successfully and will finish all follow-up activities in order to successfully upgrade the services to Wave 8 in production during autumn 2025.

The work has started to improve national allergy standards. Analysis has been done and the validation with allergy and healthcare experts is currently ongoing to finalize the analysis and start developments.

Estonia has been in contact with Estonian rare diseases experts in order to start the ORPHA codes translating process. The administrative part with the International Orpha Coordinating Team has been agreed upon and TEHIK will organize a procurement soon.

Results and impacts

Patient Summary service has been brought to a micro service platform in test environment, as there are still more developments needed then there haven't been an impact in production environment yet. However it's expected to make future updates easier and make the service more reliable overall as Estonia keeps working towards creating a new generation health information system in order to guarantee sustainable support of the health care sector.

Estonia has upgraded its ePrescription and Patient Summary services according to the MyHealth@EU standards. New services have been opened with other joining Member States, such as Latvia and Lithuania, and thanks to this, the usage of these services continues to grow among citizens.