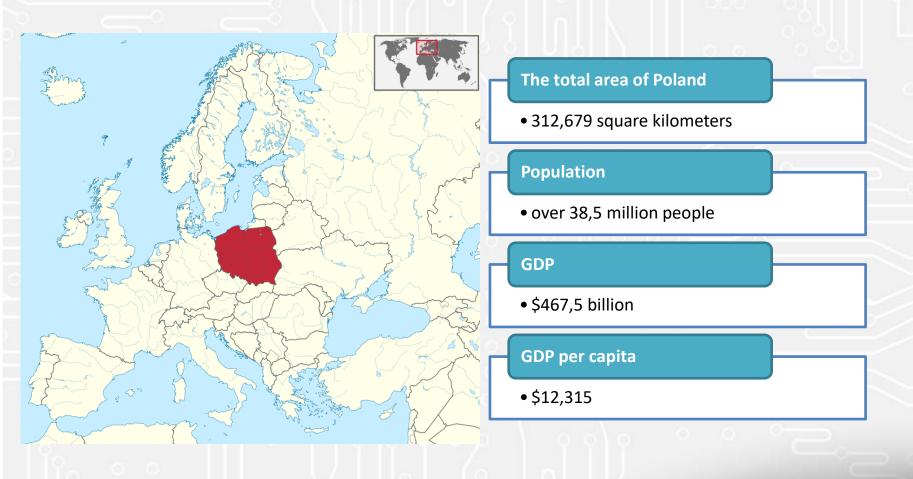


Poland in Europe







978 - Hospitals in Poland (stationary and 24 hour hospital services)

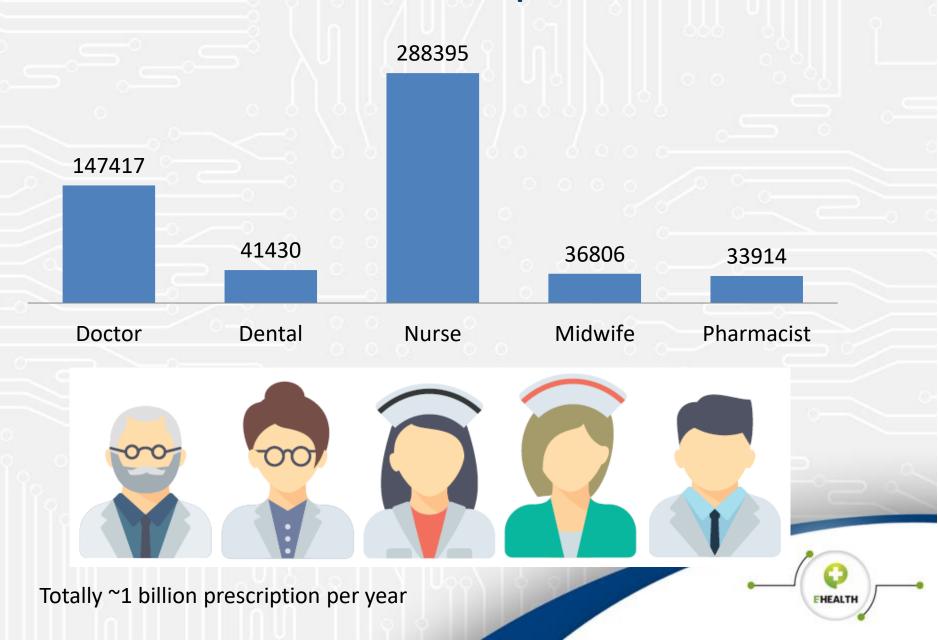


20 412 - Outpatient clinics (outpatient health services)

Own study, data: GUS, 2016.



Medical staff licensed to practice



NATIONAL CENTRE FOR HEALTHCARE INFORMATION SYSTEMS (CSIOZ)

The state unit appointed by the Minister of Health responsible for the development and implementation of e-Health in Poland.



CSIOZ

Monitoring of ICT systems at the central and regional level.

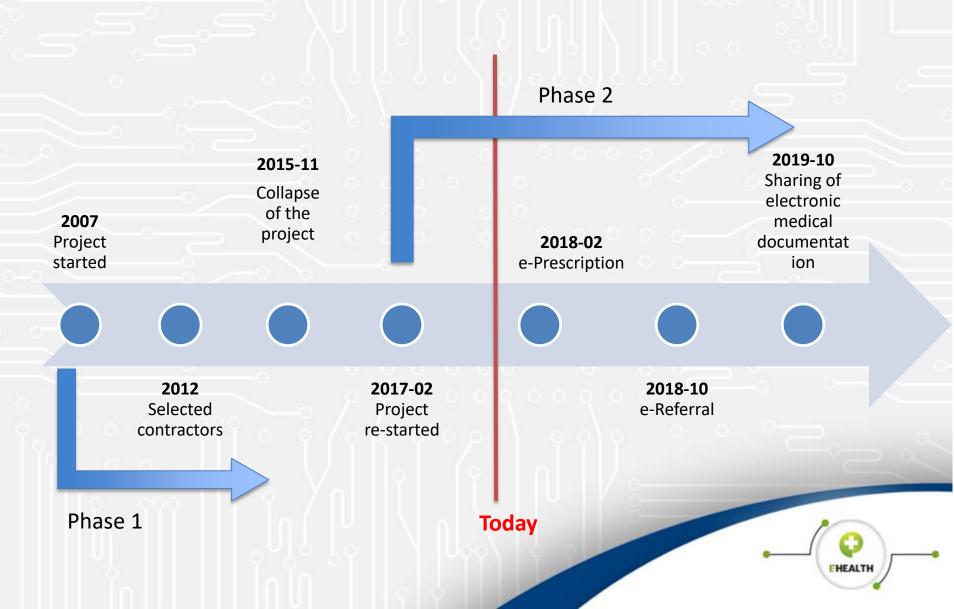


The development of interoperability and analyses in the Polish health care system.





P1 Project timeline

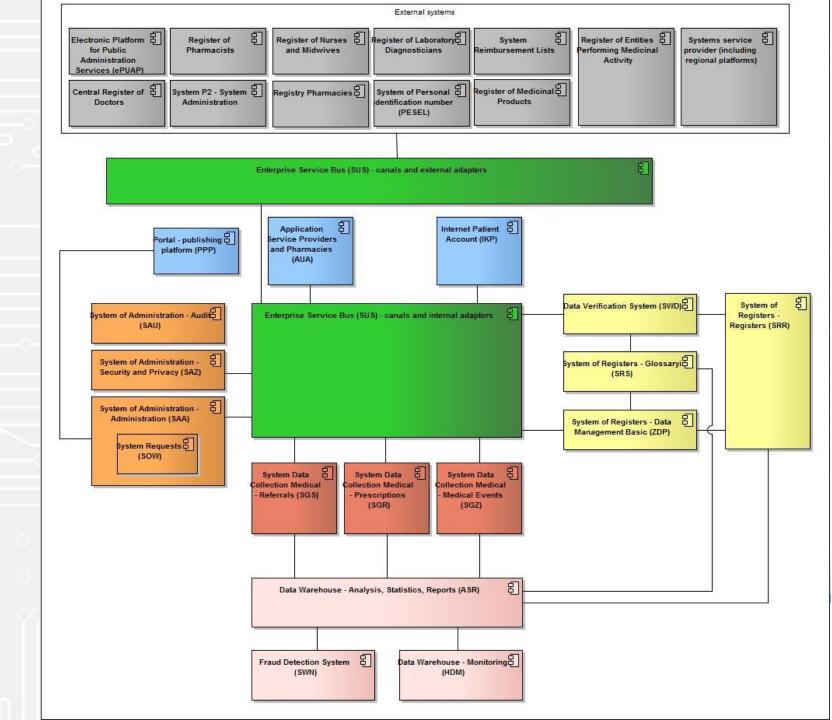


Why P1 Project failed?

1. Too many contractors to integrate (a misinterpretation of the Jaspers recommendation) - no main contractor



system The informatio

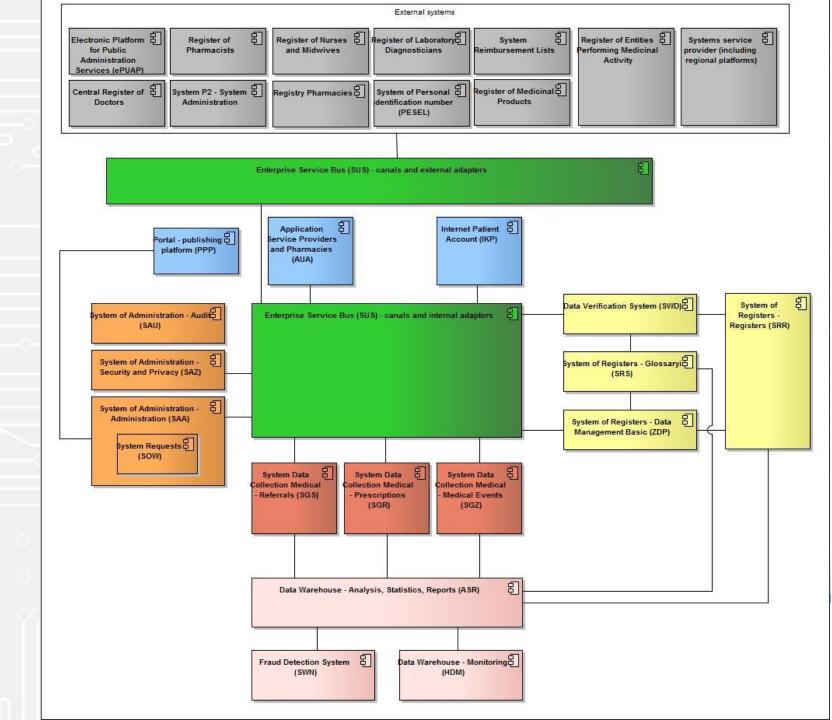


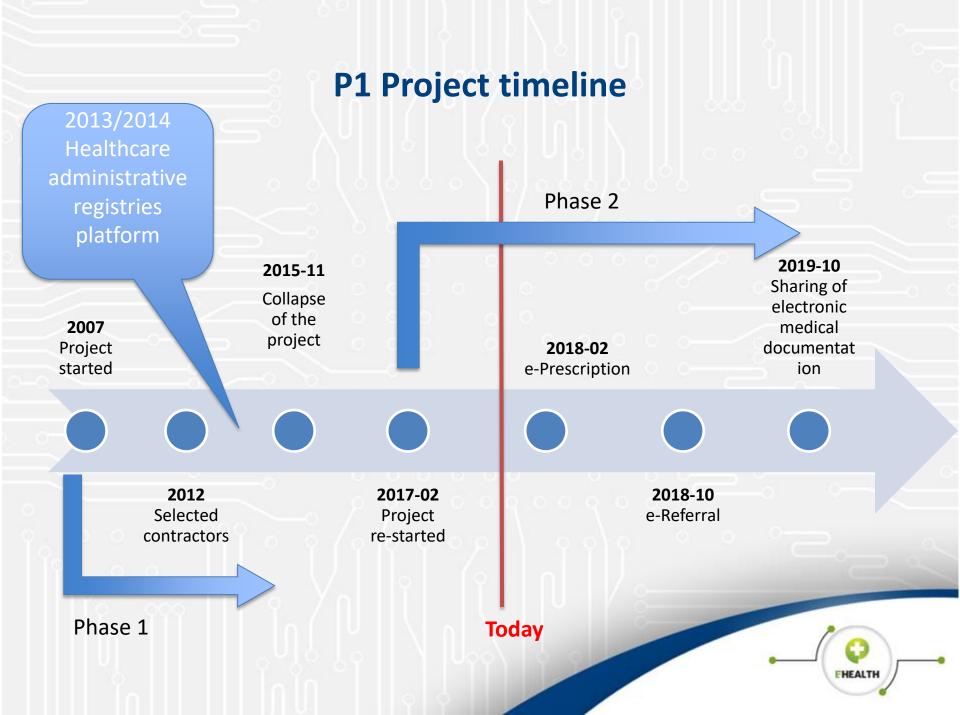
Why P1 Project failed?

- 1. Too many contractors to integrate (a misinterpretation of the Jaspers recommendation) no main contractor
- 2. Over-interpretation of methodology over-emphasis on management procedures for the production itself
- 3. There were no standards that provided interoperability and guaranteed a standardized implementation of the transaction
- 4. Too large project too many services, too much functionality



system The informatio





Healthcare administrative registries platform (P2)

Registers integrated with Medical Registers Platform

- Register of Health Care Providers;
- Register of medical Staff;
- Register of medicinal products;
- Register of coding systems (terminology and classification);
- Register of pharmacies;
- Register of pharmaceutical wholesalers;
- List of Pharmaceutical Raw Materials;
- Register of laboratory diagnosticians;
- Register of Nurses and Midwives;
- Central Register of Pharmacists.

www.rejestrymedyczne.csioz.gov.pl



Semantic interoperability



Already implemented in Poland

planning to implement



ICD-9 PL





ICD-10

ICNP – the pilot implementation

ICF – the pilot

implementation



1

SNOMED CT – it will be used in the Guaranteed Medical Package



Terminology server/Register of coding systems



Electronic Platform for Collection, Analysis and Sharing of Digital Medical Records – P1 Project

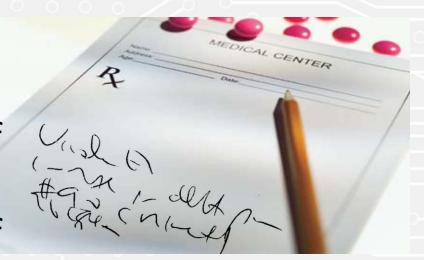
Key functionalities of P1 Project

- √ e-prescription
- √ e-referral
- ✓ Support for the sharing of electronic medical documentation
- ✓ The Internet Patient Account (IKP)
- ✓ Healthcare education portal



E- prescription Why as a first Increment?

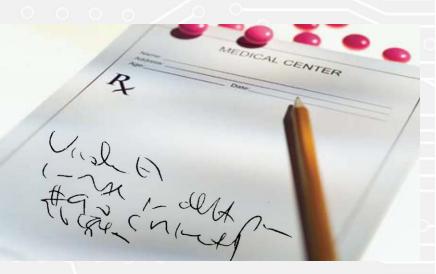
- Difficult to read content
- To reduce errors
- Time optimization of the entire process
- Streamlining the process of buying drugs
- Streamlining the process of patient care
- Elimination of the false prescription problems





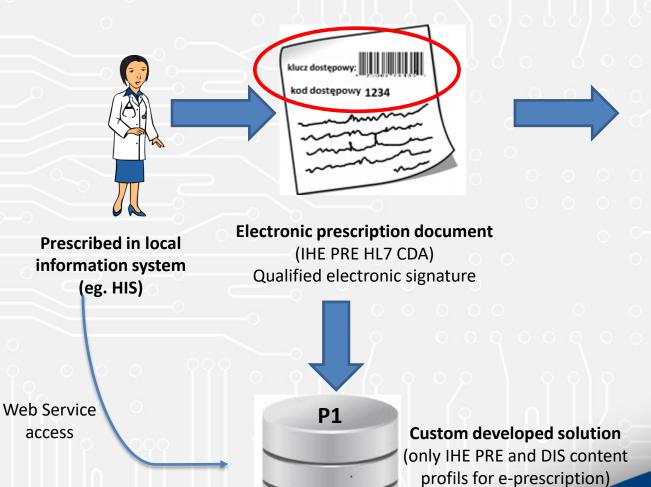
Functional areas for "E- prescription" Increment

- E- Prescription
- e-Dispensation
- Statistics And Analysis, Business Intelligence
- Verification Of Data
- Dictionaries And Classifications
- Notifications
- The Central Register Of Health Care Service
- The Central Register Of Health Care Beneficial
- The Central Register Of Medical Staff
- The Register Of Payers
- Creating And Maintenance Of User Accounts
- System Administration
- Access To The Data
- Logs Collecting , Audit





Prescribing and sharing access data



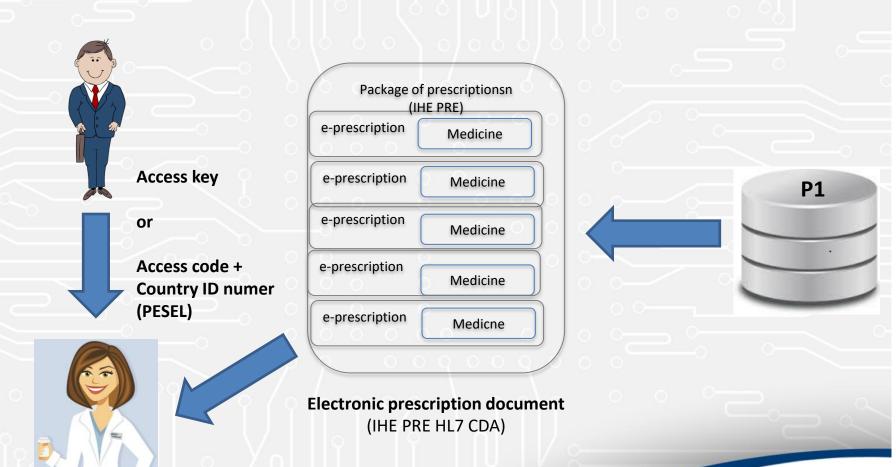


The patient receives an:

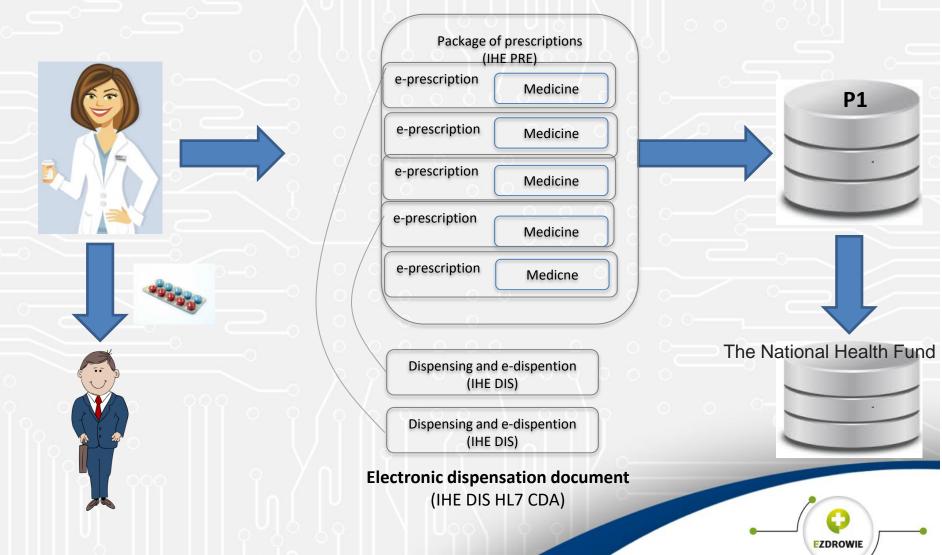
- SMS,
- email
- or printed paper with a code and a key



Retrieval electronic prescription

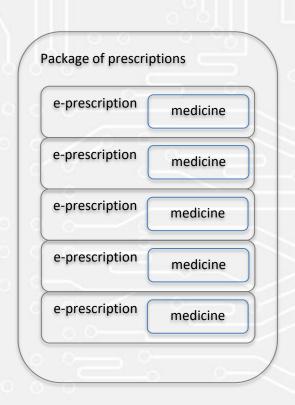


Dispensing electronical prescription



Electronic prescription principles

- One medication on a prescription simplifies the implementation of the e-prescription business proces.
- Possibility of partial completion of the e-prescription.
- Block the e-prescription in particular (as defined by law) cases
- Qualified electronic signature
- Cancellation of issued electronic prescription
- Giving access to an e-prescription by patient only for chosen medical satff



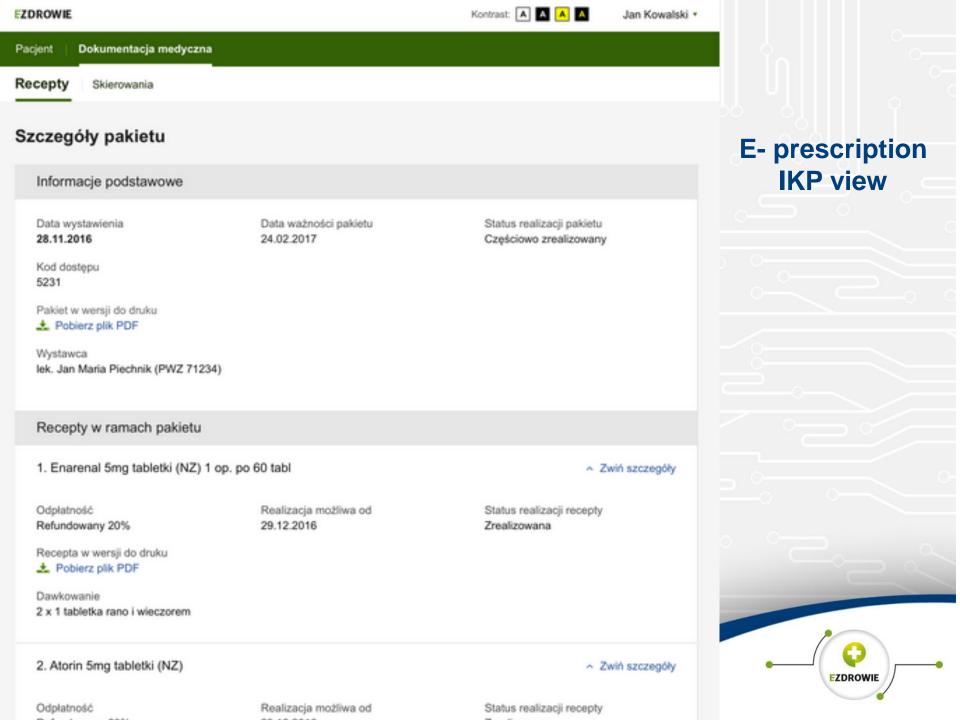


Electronic prescription vs. Patient

- Full access to medical patient information: issued electronic prescriptions and related data via dedicated application (IKP)
- Constant availability to the access data: access code and access key, necessary for giving permission to personal data access (IKP)
- The flexibility of purchasing medicines at different times and in different pharmacies.
- Access to information about dose and the medicine, active substance (eg. contraindications)







Technical documentation for implementing medical standards already issued by CSIOZ

- 1. Polish National Implementation of HL7 CDA (plcda-)
 - Instructions for use Polish National Implementation of HL7
 CDA*

The document includes:

- ✓ The instructions include medical documents in the range of 1.2 IG divided into two sets. The collection of first documents set (whose storage location is the system P1):
 - Prescription (IHE PRE)
 - Referral
 - a document cancelling the above
 - Dispenstation (IHE DIS)



^{*} source: https://www.csioz.gov.pl/HL7ENG/pl-cda-html-en-US/

Technical documentation for implementing medical standards already issued by CSIOZ

- 2. Polish National Implementation of HL7 CDA (plcda-)
- 23 documents tempplates;
- More than 200 templates, that make possible to create most of the documents used in the healthcare system;
- Hierarchy, base template, which allow to create more document templates.



Technical documentation for implementing medical standards already issued by CSIOZ

3. Transport layer description – **The National Polish IHE Technical Frameworks for IHE XDS** v.0.4* - work in progres on next version (in cooperation with IHE Europe)

This document determines the communication standard for **medical event**** and the **index of medical documents**. It does not include electronic prescription documents. For e-Prescription decision pending in Increment 1.

The basis for national transport layer description:

- IHE IT Infrastructure (ITI) Technical Framework Revision 10.0 / 10.1 Vol. 1, 2a, 2b, 3
- IHE_ITI_Suppl_XDS_Metadata_Update.pdf Revised 2013-10-25
- IHE Patient Care Coordination (PCC) Technical Framework Revision 9.0 Vol.2 for proper mapping the structure of HL7 CDA to the profile IHE metadata.

^{**}medical event – it's a medical service provided by healthcare service provider like medical consultation/visit, hospital stay which usually cause that the medical document is generating



^{*} source: https://www.csioz.gov.pl/interoperacyjnosc/interfejsy/

IHE Profiles in Poland.

- Review of current IHE profiles,
- We are working on selecting the right set of IHE profiles for P1.
- Currently the profiles are analyzed:
- XDW, WBeR-WD, XDS, DSUB, PDQ, PIX, MHD, PDQm, CT, ATNA, XUA, BPPC or APPC, XDS, XDS-I, XD-lab, XCA, XCA-I, DSG
- Cooperation with IHE Europe



