

E-health in Poland. Current status of preparation and implementation of the P1, P2 and P4 platforms and the new EU financial perspective

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Law of April 28, 2011 on the health care information system

The information system includes databases operating under:

- Medical Information System (**SIM**),
- field ICT systems:
 - The National Health Fund's Medical Services Registry System,
 - Health Statistics System,
 - Health Resources Inventory System,
 - The Threat Monitoring System,
 - Health Care Availability Monitoring System,
 - System for Monitoring the Costs of Treatment and the Financial and Economic Situation of Medical Entities,
 - Integrated System for Monitoring the Circulation of Medicinal Products,
 - System for Monitoring the Training of Medical Professionals;
- medical records.

The purpose of the Project, is to build an electronic platform of public services in the field of health care, enabling public administration bodies and citizens to collect, analyze and share digital resources on medical events, to the extent consistent with the Law of April 28, 2011 on the information system in health care.

Specific Objectives:

- Improving the quality of patient service
- Ensure reliability and completeness of data on medical events
- Enabling the exchange of Electronic Medical Records
- Support for health care planning
- Support for crisis management
- Ensure interoperability of health information systems

Release Framework schedule

- 2015-02-11 - Agreement signed with new Integrator
- 2015-12-15 - deadline for completion of the P1 Project
- Release framework:

Issue VII.1 - turn of July/August 2015	Issue VII.2 - August/September 2015	Issue VIII.1 - turn of September/October 2015	Issue VIII.2 - end of November 2015
<ul style="list-style-type: none"> • Publishing platform • Service areas <ul style="list-style-type: none"> - Publication of information - Supply of registers 	<ul style="list-style-type: none"> • Products for the mass market <ul style="list-style-type: none"> - Medical events • Business service areas <ul style="list-style-type: none"> - P1 Administration - Audit of access to personal data - Entitlement of service recipient's data - Management of user accounts and systems - Supply of registers - other 	<ul style="list-style-type: none"> • Products for the mass market <ul style="list-style-type: none"> - Prescriptions • Business service areas <ul style="list-style-type: none"> - CZILO queues - Data of relatives - P1 monitoring - Calendar - Own entries 	<ul style="list-style-type: none"> • Products for the mass market <ul style="list-style-type: none"> - Referrals - Orders • Business service areas <ul style="list-style-type: none"> - Archiving of medical documents, taking over documentation of liquidated entities - Critical data - POZ declarations - Settlement support - Data warehousing and fraud detection - Redundancies - Central Register of Objections - Caregivers and guests

EMD - planned changes to the SIOZ law

July 31, 2016.

- e-Prescription

February 28, 2017.

- e-Referral, e-Order

July 31, 2017.

- Other EMD (proposed individual only)

The main benefits to citizens from the P1 Project:

- the possibility of using e-referral and e-order
- possibility to send POZ declaration in electronic form
- Easy access to information about the course of treatment
- the possibility of sharing data on the course of treatment in other facilities with the selected doctor
- possibility to search for medical personnel
- The possibility of locating entities providing certain health services
- the possibility of contact with selected medical personnel
- reminder of scheduled appointments
- possibility to use e-prescription
- the ability to obtain electronic sick leave
- information on drug prescriptions possibility of current checking of dosage
- The ability for the patient's doctor to enter critical data
- possibility of posting your own entries

Implementation Guide for HL7 CDA (including definitions of document structures, data requirements, and vocabularies).

Transport model of data on Medical Events and Electronic Medical Records Index collected in the P1 System.

A set of good practices on how to process EMD (security issues).

Platform for providing online services and resources to entrepreneurs
cyfrowe digital medical records (P2) (P2)

Main objective of the project

- The implementation of the project has contributed to the popularization of electronic communication in the area of the health sector between entrepreneurs and public entities, and provides the ability to electronically register and update registration data.
- Gives entrepreneurs perspective:
 - Electronic submission of applications to the registry,
 - electronic document storage,

- Popularizes the use of electronic signatures,
- Supports the downloading of registration data by the administration public

Registries integrated so far on the P2 Platform

- Register of Entities Performing Medical Activities
- Register of Pharmacies
- Register of Pharmaceutical Wholesalers
- Register of Medicinal Products
- Register of Coding Systems
- Register of Laboratory Diagnosticians
- Register of Medically Assisted Procreation
- Residency Information System

Benefits of implementing the P2 Platform

- Provided universal IT tool, used to maintain records and provide electronic services taking into account the National Interoperability Framework,
- Reducing costs on the part of gestors,
- Guaranteeing a high level of security and technical support without incurring additional infrastructure

maintenance costs for gestors.

Domain ICT systems of the health care information system (P4)

Domain ICT systems of the information system in the health care

The aim of the project is to improve business processes related to management and access to information in the health care system, which in particular will contribute to more effective planning of health care by the administration, taking into account the current status of human resources, equipment, availability of medicines.

The main goal will be achieved through the implementation of specific objectives, which are listed below.

- Streamlining business processes for accessing the statistics in question in the Public Statistics Survey Program (PBSSP),
- Improve business processes related to access to information on preventing the consequences of adverse events affecting human health and life,
- Streamlining business processes for accessing product trading information medicines,
- Improve business processes related to access to information on the status of medical staff resources, including age, specialization, internship, retraining courses,
- Improve business processes related to access to information on the state of health care resources, which will allow assessing the needs for the purchase of medical equipment necessary to provide adequate health care for patients throughout the country, planning financial resources for the implementation of such purchases according to current needs, will allow access to information collected in the system for the purpose of contracting medical services.

Achievement of specific objectives will be possible through the construction and implementation of ICT systems to support specific business areas, respectively:

- Health Statistics System,
- Threat Monitoring System,
- Integrated Product Trading Monitoring System.
Medicinal,
- Medical Staff Training Monitoring System,
- Health Care Resource Inventory System.

New EU Financial Perspective 2014-2020.

In connection with the announced competition for project funding in the Under Measure 2.1 High accessibility and quality of public e-services under the Digital Poland Operational Program, the Center for Healthcare Information Systems plans to submit the following projects to the competition first:

- Ministry of Health Telemedicine Platform,
- Informatization of health care facilities - (IPOZ) Adaptation of medical entities supervised by ministries to exchange data with the Medical Information System (IPOZ).

The order is dictated by the boundary conditions set for this Operational Program.

Project assumptions

"Ministry of Health Telemedicine Platform".

Amendments to the SIOZ law on telemedicine

Draft amendment to the Law of April 28, 2011 on the information system in security Health, in the field of telemedicine, contains provisions allowing, among other things:

- Provision of health services through ICT or communications systems,
- Provision of pharmaceutical services by a pharmacist through a ICT systems or communications systems,
- practice of nursing and midwifery through systems ICT or communications systems.

The regulations under procedure will leave no doubt about the legal possibility of providing telemedicine services. The changes will be introduced comprehensively in the laws on: Chambers of Pharmacy, on medical activity, on the professions of nurse and midwife, as well as in the Law on Proceedings before Administrative Courts.

The planned effective date of the law is Q3/Q4 2015.

Purpose of the project

The goal of the project is:

Improving the quality of medical services provided to the public,

Through the use of modern information technologies.

This goal will be achieved through:

Creation of technical and IT infrastructure,

which will allow the introduction of specialized e-services in the field of telemedicine.

Specific objectives

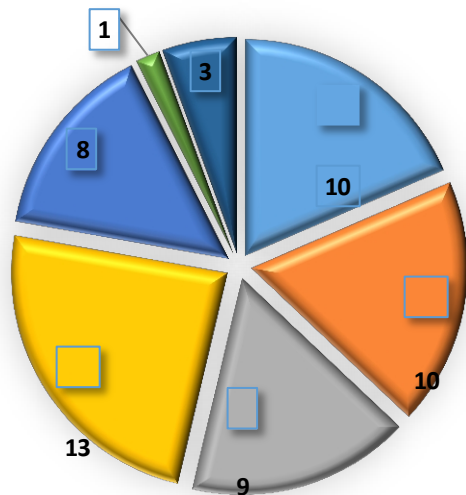
- Increasing the availability of modern diagnostic equipment and telemonitoring services as part of publicly funded services
- Supporting stroke diagnosis in the early stages of treatment
- Support the process of diagnosis and treatment of cardiovascular diseases

Technical objectives:

- Implementation of solutions for remote consultation of research results neuroimaging for stroke
- Implementation of a system that allows remote consultation
- Provide a solution to remotely monitor patients with implanted: pacemaker, cardioverter-defibrillator, BiV-ICD

Reasons for implementing the project

Areas identified by National Consultants ripe for remote medical services.



- telerehabilitation
- telediagnosics
- teleconsultation with patient
- participation teleconsultation between
- specialists telemonitoring
- tele-education
- technical issues

Reasons for implementing the project

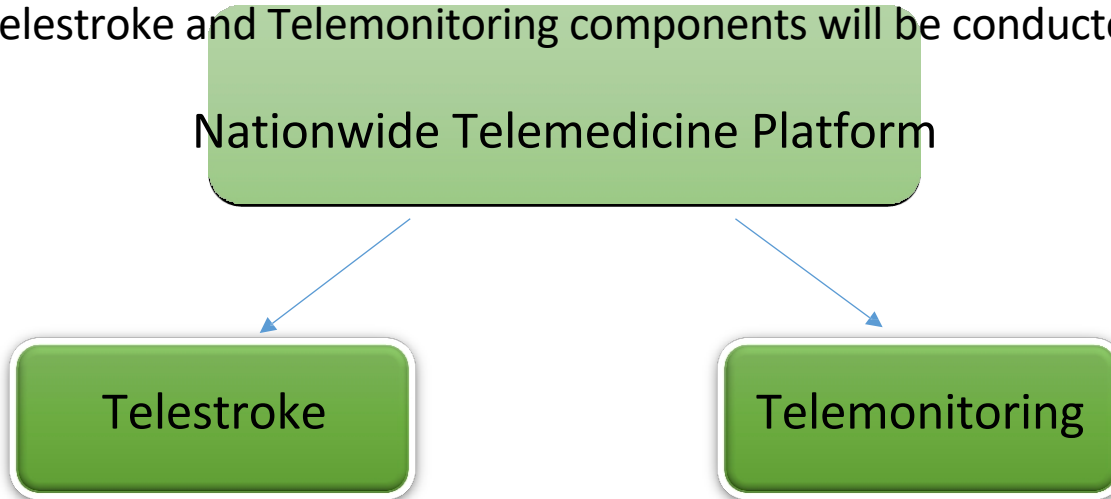
At the same time, the Program for Integrated State Informatization recommends in item. 6.1.1 enabling:

- Teleconsultation between medical professionals in the exchange of medical records and enabling joint review of records in the course of a consultation ...;
- Remote medical case consultation and teleconsultation and telemonitoring services ...;

Project organization

As part of the implementation of the "Telemedicine Platform of the Ministry of Health" project, a Nationwide Telemedicine Platform will be produced, which will include.

Pilots of Telestroke and Telemonitoring components will be conducted.



e-services created under the project

UB.OPT.1 Remote description service for neuroimaging studies - A2A

UB.OPT.2 Teleconsultation service with the Regional Teleconsultation Center - A2A

UB.OPT.3 Remote monitoring service - A2C

UB.OPT.4 Teleconsultation service with patient management facility - A2C

Telestroke

The Telestroke component involves implementing a solution to accelerate and improve the Treatment for stroke, especially ischemic stroke.

The project is aimed at medical entities whose structure includes a branch of the stroke. The one-year pilot will be conducted in 3 provinces.

Regional Tele-Consultation Centers, providing 24/7/365 consultation opportunities:

Province	Regional Teleconsultation Center
mazowieckie	Central Clinical Hospital of the Ministry of the Interior in Warsaw
Pomeranian	University Clinical Center in Gdańsk
Malopolskie	Independent Public Health Care Facility University Hospital

Telemonitoring

The Telemonitoring component involves monitoring chronic heart failure patients with implanted: pacemaker, cardioverter-defibrillator, BiV-ICD.

The project also aims to generate capacity to serve the monitoring process cyclically measured parameters by a specialist.

Participating Treatment Entities:

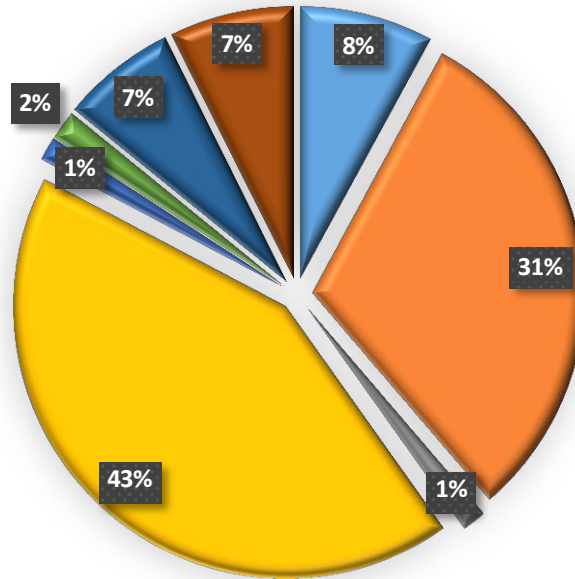
Province	Reference center
mazowieckie	Independent Public Central Clinical Hospital
Lower Silesia	4 Military Clinical Hospital
Silesian	Silesian Center for Heart Diseases

Project objectives expressed by measurable indicators

Result indicator	Unit of measure	Base value	The value of the indicator
Percentage of neuroimaging examinations consulted remotely by Regional Teleconsultation Centers using the National Telemedicine Platform	%	0	70
Number of patients covered by remote monitoring using the National Telemedicine Platform	person	0	2500
Number of entities that will be given the opportunity to integrate with the National Telemedicine Platform for the Telestroke and/or Telemonitoring component	pcs.	0	257

Project budget

The budget of the project is PLN 176,117,744.00.



- Task 1: Consulting and technical support services and external services
- Task 2: Design, construction and implementation of the Nationwide Telemedicine Platform
- Task 3: Provision of data transmission and connection of centers
- Task 4: Retrofitting of hospitals
- Task 5: Piloting
- Task 6: Promotion support and implementation services
- Task 7: Purchase of office space for the establishment of a Telemedicine Competence Center
- Task 8: Project Management

Planned timeline for project implementation

Task	Duration
Project management	October 2015 - September 2018
Provision of consulting and technical support services	October 2015 - September 2018
Design, construction and implementation of the Nationwide Platform Telemedicine	October 2016 - July 2017
Provide data transmission and connection of centers for entities participating in the pilot	April 2016 - September 2018
Supplementation of medical entities, in terms of: supply and Software implementation, provision of room adaptation services for server room	April 2016 - July 2017
Conducting the pilot	August 2017 - July 2018
Project Promotion	November 2015 - July 2017
Purchase of office space	October 2015 - June 2016

Procurement schedule

Task	Planned date launch
Announcement of proceedings for consulting and technical support services	November 2015
Announcement of proceedings for the design, construction and Implementation of the National Telemedicine Platform	April 2016
Announcement of proceedings for the provision of data transmission and connection of centers	June 2016
Announcement of proceedings for hospital retrofitting	July 2016
Announcement of proceedings for support services and implementation of promotion	February 2016

Thank you for your attention

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