




РЕПУБЛИКА БЪЛГАРИЯ
Министерство на
образованието и науката



National Scientific Program „Electronic Healthcare in Bulgaria “ (e-Health)

Start of the Program: 16 November 2018

End of the Program: 15 November 2021



Aim of the Program

- Improvement of the quality and timeliness of medical care with optimization of the expenses for IT - based activities and reduction of the load of technical and administrative tasks performed by medical staff

Specific Aims of the Program

- The Program follows the directives of the European Action Plan for the introduction of e-health no later than 2020 and has been worked out within the framework of the National Strategy on Research Development of (NSRD) 2030 for the purposes of achieving the following specific aims:
 - Encouragement of problem-oriented research in priority areas of the Innovation Strategy on Intelligent Specialization (ISIS);
 - Considerable intensification of the relationships between science on the one hand, and education, business, institutions of the state and society as a whole, on the other;
 - Avoidance of fragmentation in Bulgarian science through encouraging the integration and interaction between different research institutes and universities for the purposes of building up critical mass and avoiding the overlapping and duplication of resources.

Activities



Creation of methodology and technologies for achieving semantic interoperability of mixed data exchanged during the clinical diagnostic process

Development of prototype for computer-assisted preparation of medical documents (a dictation machine for Bulgarian language)

Development and prototype implementation of an information system for management and analysis of Big data. Evaluation of the effectiveness of treatment for socially significant and rare diseases (cardiovascular diseases, diabetes mellitus, oncological and hematological diseases, etc.)

Work packages

WP 1. Determination of major requirements for the systems processing and exchanging clinical data. Creation of a models of these systems

WP 2. Data retrieval from diverse health and medical information systems

**WP 3. Creation of a model and a prototype of a regional picture archiving and communication system (PACS)
(Picture archiving and communication system)**

WP 4. Achievement of an effective operational semantic interoperability. Development, analysis and validation of archetypes

WP 5. Creation of a prototype for computer-assisted preparation of medical documents (a dictation machine for Bulgarian language)

WP 6. Determining specific and common indices for evaluation of treatment outcomes and quality of life. Follow-up of clinical benefits from applied treatment schemes

WP 7. Development of a methodology for budget predictability based on the evaluation of the effectiveness of expenses with a particular interest in innovative medicines

WP8. Working out a proposition to integrate the indices and methods, determined in WP 6 and WP 7, into complex systems for measuring, recording and comparing therapeutic effectiveness.

Consortium

Medical University – Sofia

Leading Partner 1 and
Coordinating Organisation

**Bulgarian Academy of
Sciences**

**Institute of Information and
Communication Technologies**

Leading Partner 2

**Sofia University
„Saint Kliment Ohridski“**

Leading Partner 3

Medical University – Plovdiv

Leading Partner 4

Technical University – Sofia

Partner 5

Medical University – Pleven

Partner 6

**Thracian University – Stara
Zagora**

Partner 7

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