

NHIC and its role in process of health service informatization



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Baseline documents

- ◆ Strategy of governance informatization – SIVS (Resolution of Government SR No. 131 dated 27. 2. 2008)
- ◆ National concept of governance informatization – NKIVS (Resolution of Government SR No. 331 dated 21. 5. 2008)
- ◆ National strategy for information security SR (27. 8. 2008)

- ◆ Report on status of informatization in the branch of health services (26.3.2008). Review of current products and outcomes
- ◆ Strategic goals of eHealth – key tool of governance informatization in the branch of health services in Slovakia (Resolution of Government SR No. 497 dated 16. 7. 2008)

Strategic goals of eHealth

G1

- To create legislative, standardizing and architectonic eHealth frame

G2

- To create secured infrastructure for materializing eHealth vision and mission

G3

- Informatization of processes and services in health system based on public resources

G4

- Support of new processes and forms of health care and health services

WHY

- ◆ Higher quality of health services
- ◆ Increased patient safety
- ◆ Increased effectivity
- ◆ Reduced costs
- ◆ Reduced bribery
- ◆ New forms of healthcare
- ◆ New options of telemedicine



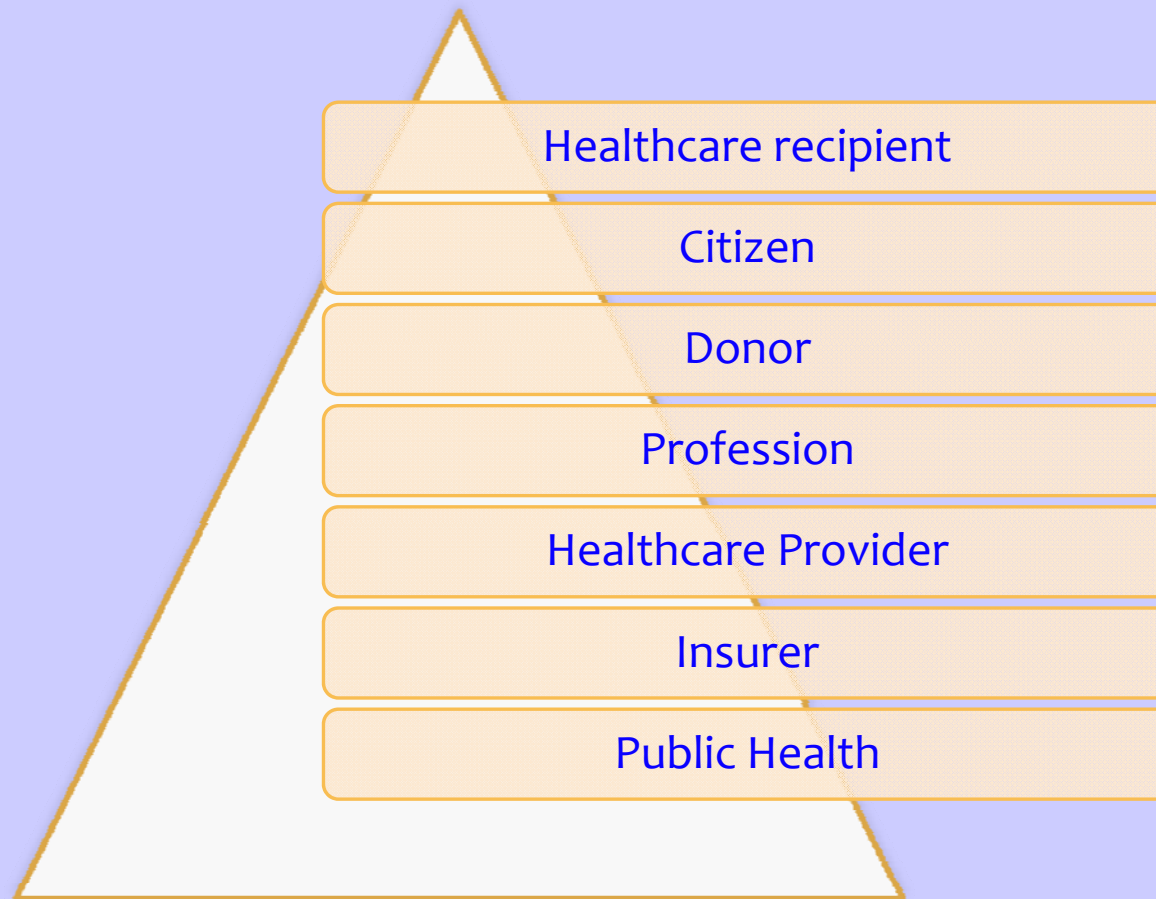
Main eHealth components

- ◆ **NZP – National Health Portal** A unified place in network for access to health information for public and profession, including healthcare participants. NZP will fulfill relevant standards for access and a functionality
- ◆ **NZIS – National Health Information System** Integration of systems from NHIC, Surveillance Authority, Public Health, Transfusion Service, and Health Insurances offering the function of processing and exchange of health records in electronic format (basic registries, EHR, EDS, ePrescription)
- ◆ **HIN – Health Information network**
- ◆ **NZDC – National Health Data Center**



National Health Portal

Key Players



NHIS

Service Provision

Secured
authorized
electronic
connection

Electronic identifier

Reporting
outputs for
public health
insurance

Electronic
health
records

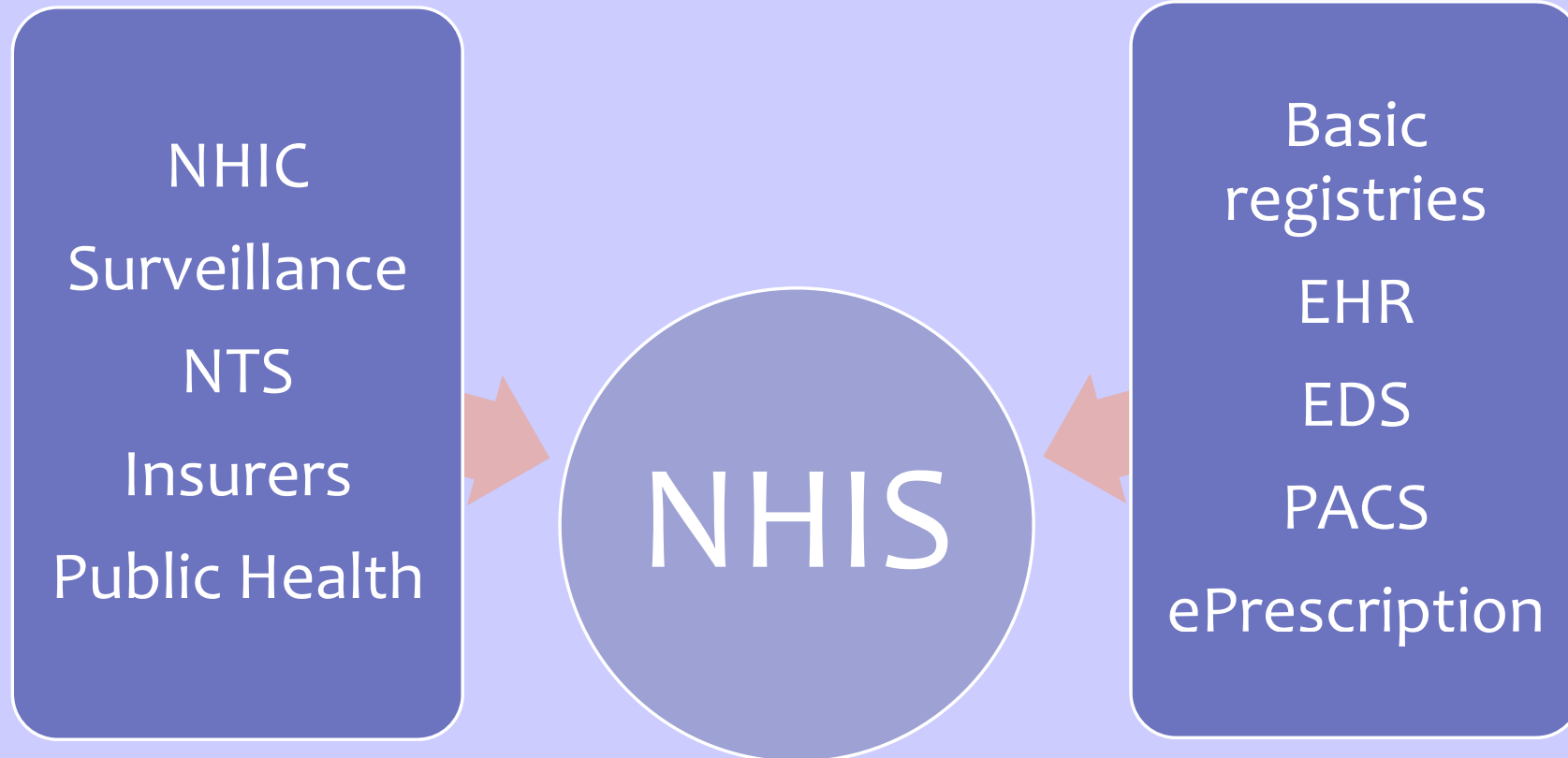
Electronic health
record

Electronic
prescription
& medication

Electronic
recipe

Data
gathering for
health
statistics

National Health Information System



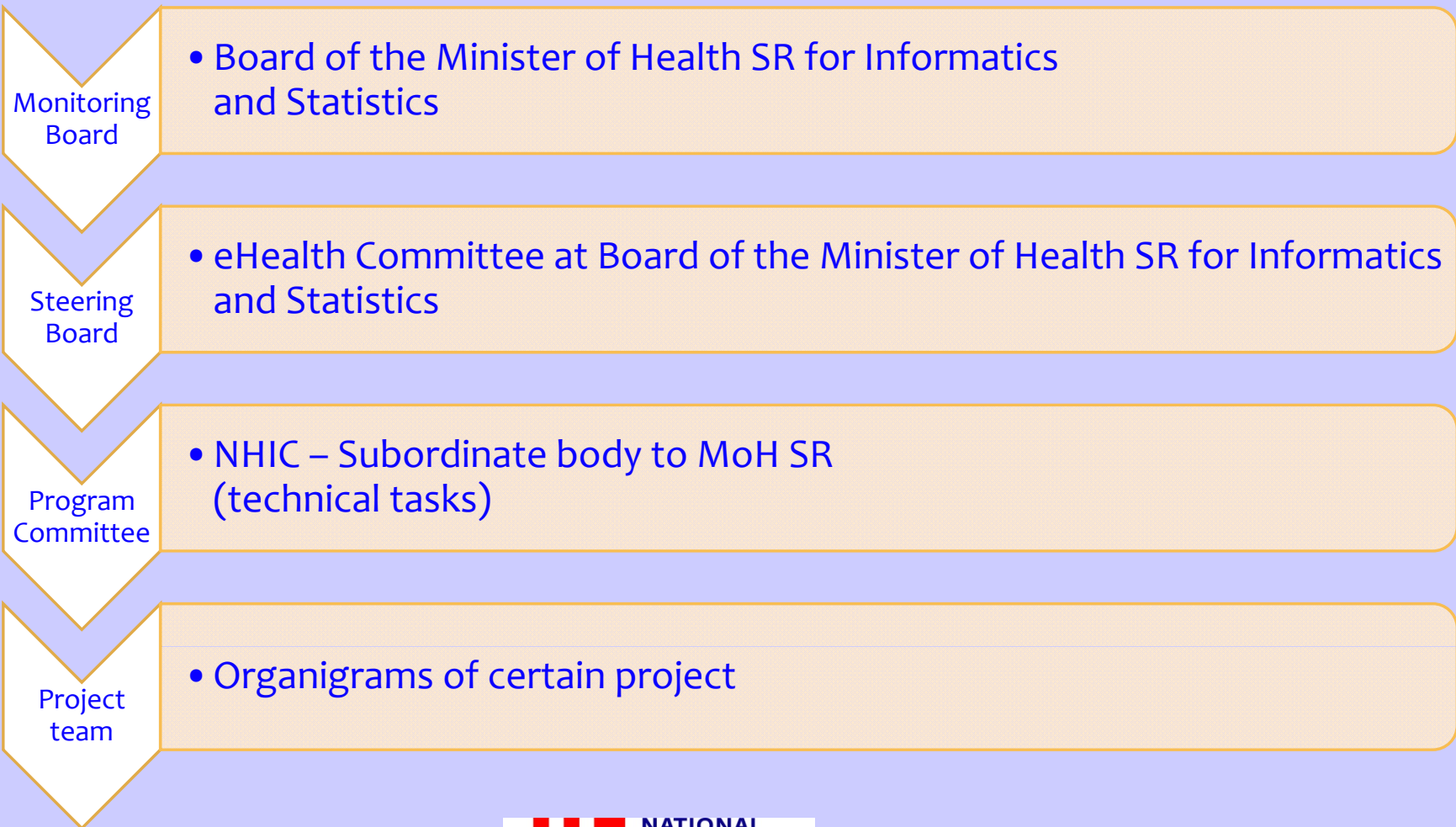
Priorities

| Year 2009 | Year 2010 |
|---|--|
| Advanced phase | Advanced phase |
| <ul style="list-style-type: none"> Network layer of HIN Registries National Transfusion Service | <ul style="list-style-type: none"> Data storage in frame of HIN PKI infrastructure in frame of HIN Ambulatory IS Pharmacy IS Labs IS IS for Integrated Rescue System |
| Development phase | Development phase |
| <ul style="list-style-type: none"> National legislation National Health Portal ePrescription Multiple use of token Acceptance/ Media | <ul style="list-style-type: none"> Support to HIN Radiodiagnostic IS / PACS Hospital IS Integrating middleware Integration with eGovernment |

HOW

- ◆ Global consensus
- ◆ Service for all
- ◆ Transparency
- ◆ Coordination, interaction, and mutuality
- ◆ Interoperability and compatibility
- ◆ Safety
- ◆ Investment protection
- ◆ Program management
- ◆ Implementation
- ◆ Assessment of materialized steps

Managing Structures of the Program



Committee and team roles

Monitoring (controler) committee

- ex post assesment of the program
- ex ante assesment of certain programs

Steering (aproving) board

- strategic components
- program memorandum, budget and concept

Program (executive) board

- Coordination of projects, preparation of outputs
- interim assesment of program

Project teams

- workout of allocated projects

Continuity of main steps

| ID | Activity | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 |
|----|---------------------------------|------|------|------|------|------|------|
| 1 | Strategic goals of eHealth | █ | | | | | |
| 2 | Preliminary steps before trials | █ | | | | | |
| 3 | NHIC inclusion to Programu | █ | █ | █ | █ | █ | █ → |
| 2 | Feasibility studies | | █ | | | | |
| 4 | First calls, tenders | | █ | | | | |
| 5 | Priority projects / actions | | █ | █ | █ | | |
| 6 | First legal changes | | | █ | | | |
| 8 | First asset to citizen | | | █ | | | |
| 7 | Projects and actions 2nd wave | | | █ | █ | █ | █ |
| 8 | Next asset to citizen | | | | | █ | █ |
| 9 | Projects and actions 3rd wave | | | | █ | █ | █ → |

Transformation of NHIC

National eHealth Operator

National
Coordinator

Program
Coordinator

Quality
Manager

PR Manager

Program
Manager -
deputy

Program
Controller

Acceptance
Manager

Program Office
Secretary

Program
Manager

Program
Administrator

Risk Manager

Project Leader



NHIC preparation for fulfilling its role within eHealth Program Office

- ◆ Vision, Mission, Values, Strategic Goals
- ◆ Change of organization's structure
- ◆ Engaging new roles
- ◆ Staff training
- ◆ MIS
- ◆ ...

Mission of NHIC

- ◆ Enforce informatization of health system
- ◆ Support and manage proceeding implemented eHealth solutions
- ◆ Secure flexible information base for eligible subjects
- ◆ Offer specialized informational and learning services in area of medical sciences, health care, and health informatics



Vision of NHIC

- ◆ To become a natural dominium of health informatization
- ◆ To enforce and support promotion of quality, safety and efficacy of all health services by means of NZIS and NZP
- ◆ To implement information systems on top European level
 - ◆ information on health status and health care
 - ◆ Reducing administrative load in health system
 - ◆ Eliminating duplicite outputs
 - ◆ Quality monitoring
 - ◆ Support of patient's decision taking
 - ◆ Promote availability of health services
 - ◆ Support for new forms of health services
 - ◆ Medical and healthcare eLearning

Goals of NHIC

To become National e-Health Operator in frame of NZIS, NZP, and other solutions

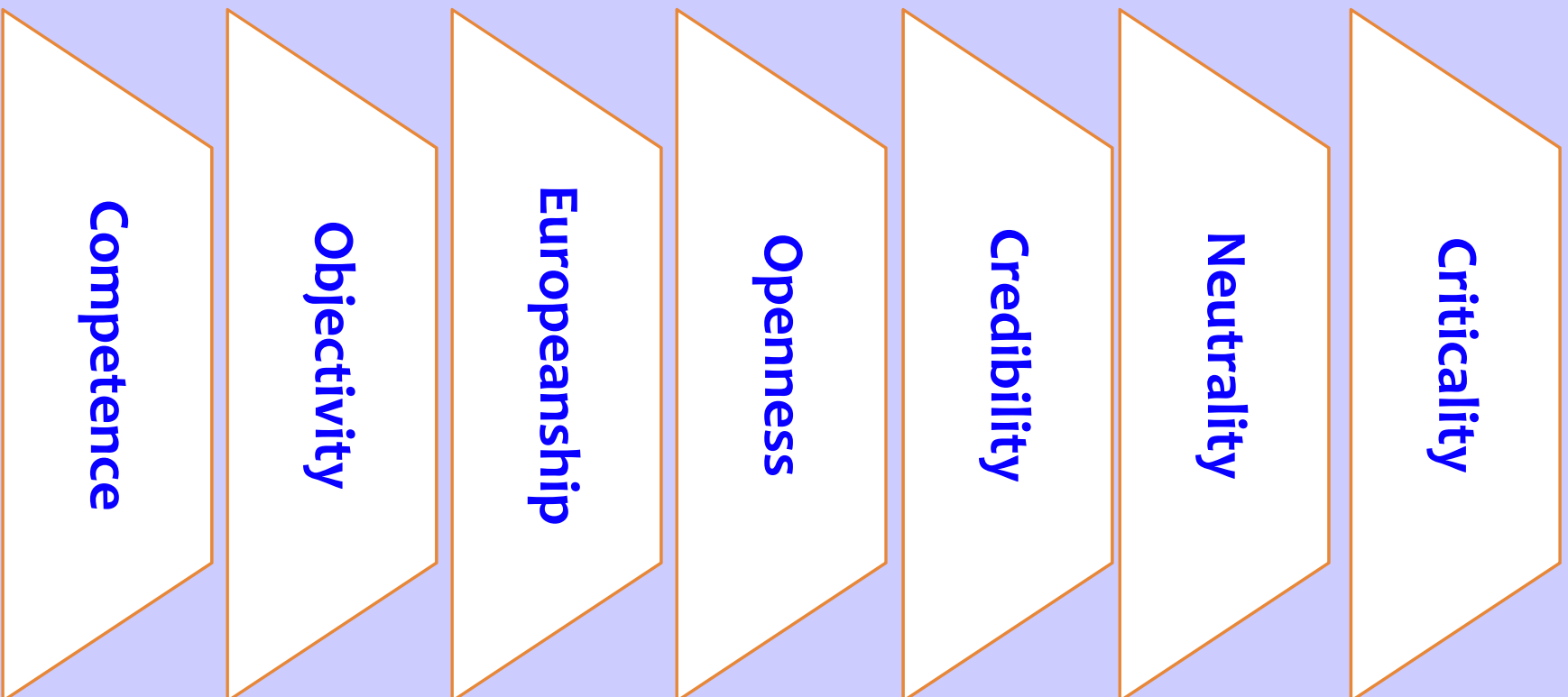
To create standardizing and architectonic frame for informatization of health system

To finalize creation and use effectively the system for collection, processing, and dissemination of data related to healthcare

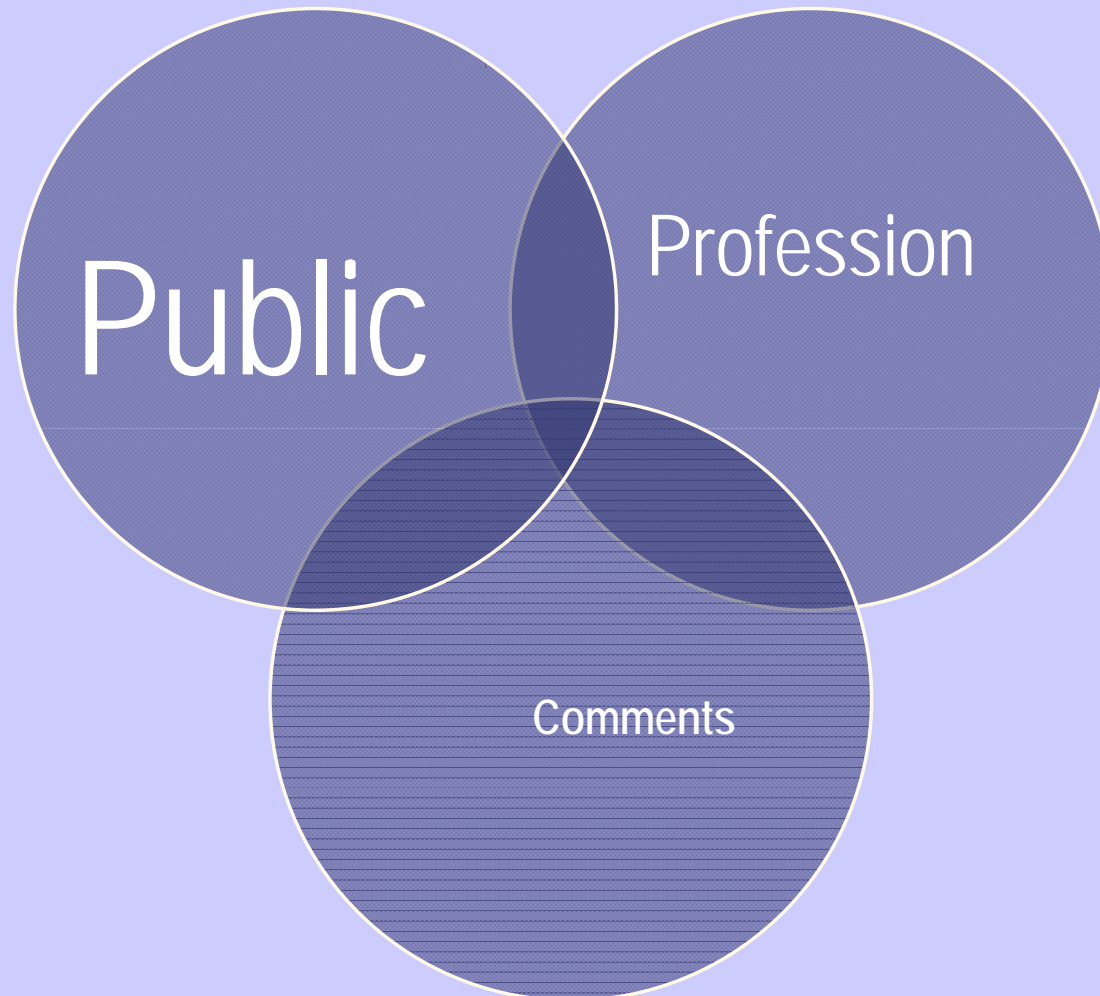
To create information and communication frame

To support learning in area of medical sciences, healthcare, and medical informatics

NHIC values



eHealth forum



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Thank you for your attention

