



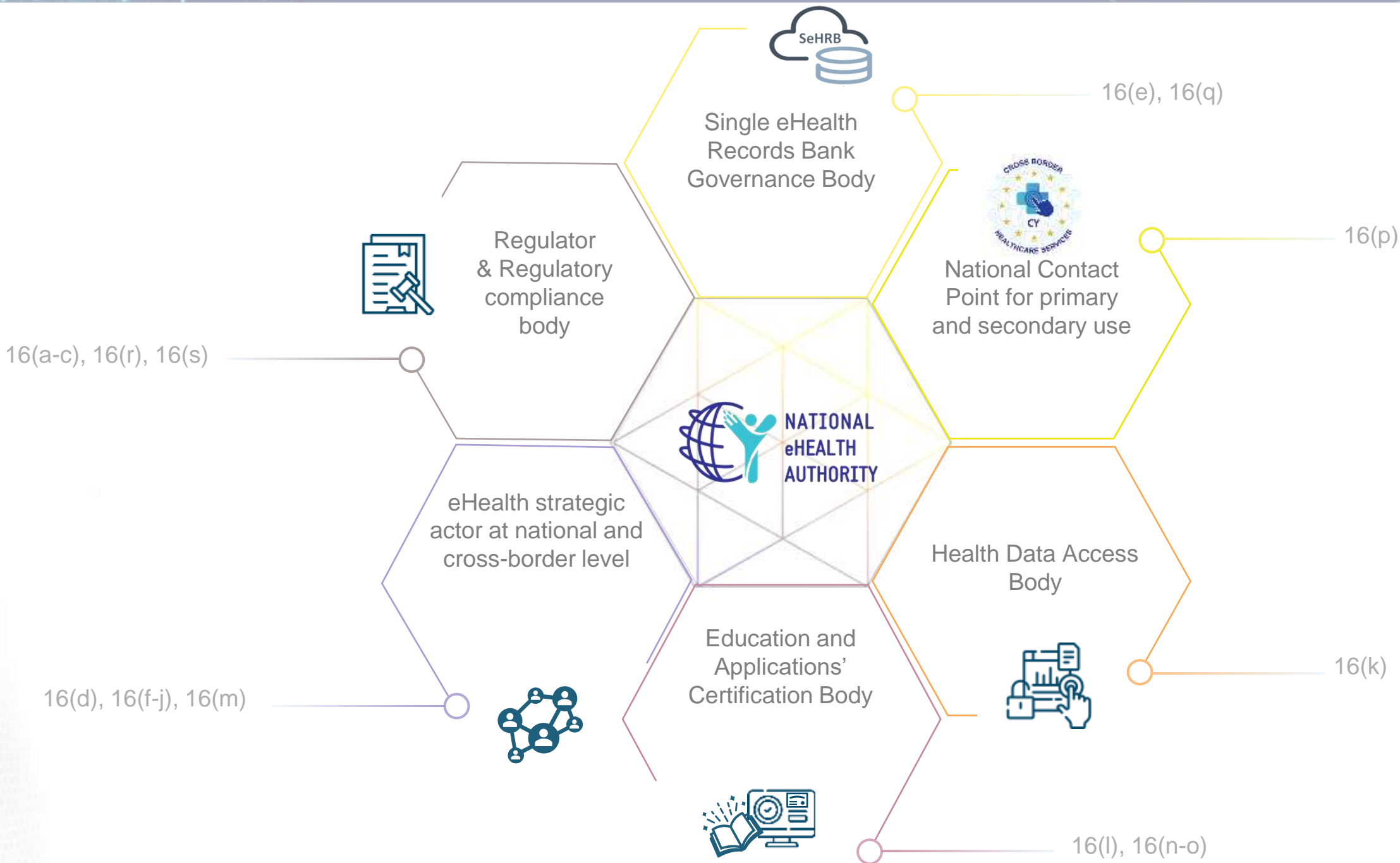
Roadmap for the implementation of the Unified Electronic Health Record of the Citizen



Prof. Constantinos S. Pattichis

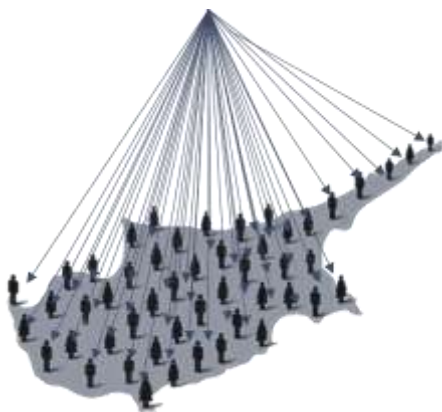
President – National eHealth Authority, Cyprus





National eHealth Law

Single eHealth
Records Bank
(SeHRB)
Governance Body



The National
eHealth Authority
(NeHA) establishes
and operates the
SeHRB where the
Citizen's EHR is
created and stored

[N. 59 (I) / 2019, Article 28]

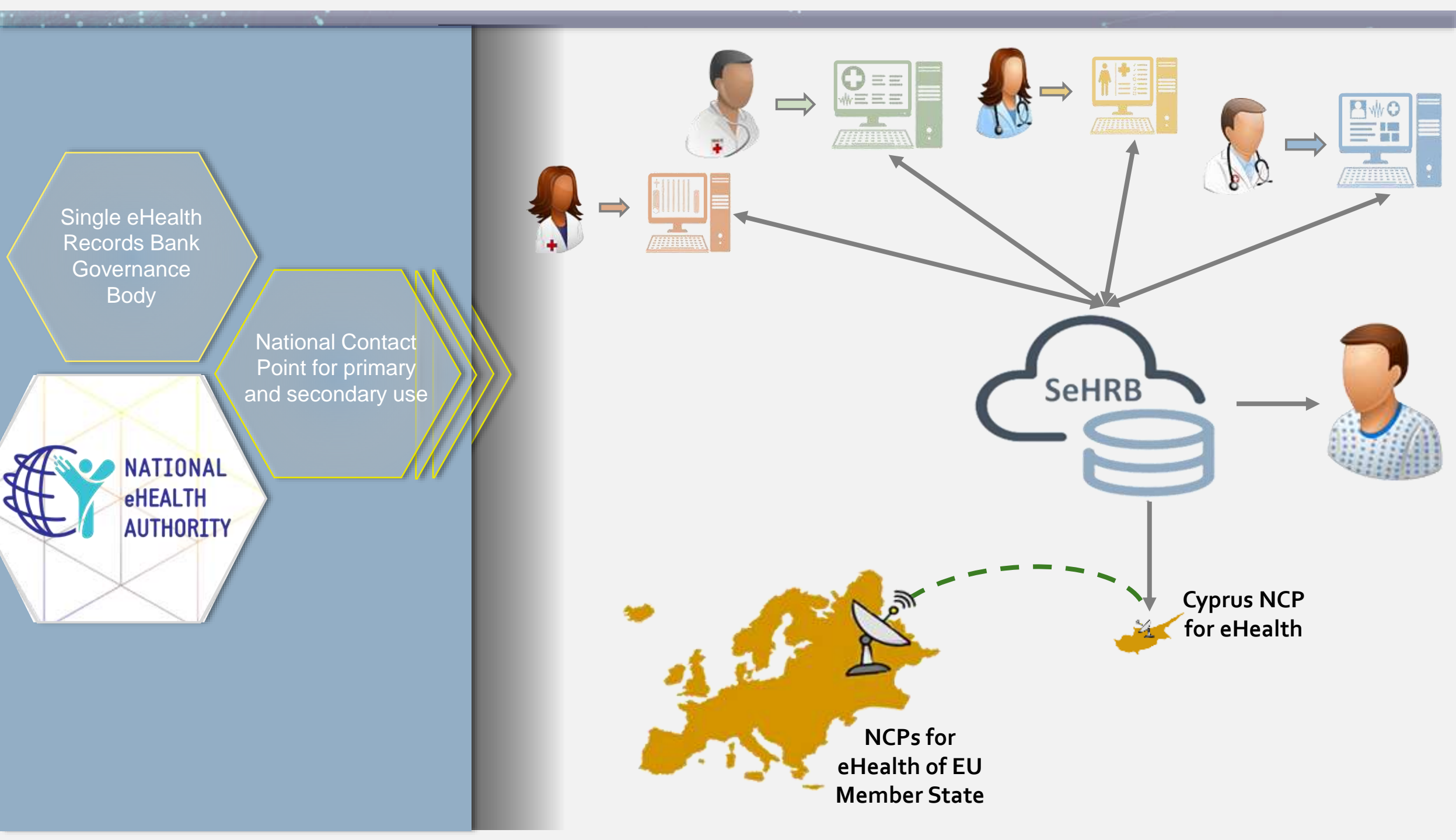
All citizens of the
Republic of Cyprus
are EHR holders
unless they opt-out*


[N. 59 (I) / 2019, Article 20]

Each provider is
required to enter
health data in the
core set of health
data

[N. 59 (I) / 2019, Article 19]

* Not an easy task





**A total of 40 in-person
meetings were conducted
at the National eHealth
Authority's premises**

for the
Cyprus Citizen's Comprehensive
Electronic Health Record - EHR



Meetings (1/3)

1. Cyprus Medical Accosiation
2. CyFPA – Cyprus Federation of Patients' Associations
3. SHSO (State Health Services Organisation) - Cyprus Accosiation of Private Hospitals
4. HIO – Health Insurance Organisation
5. Gynecological Society of Cyprus
6. Society of Pathology and General Medicine
7. Cyprus Surgical Society
8. Pediatric Society of Cyprus
9. Psychiatric Society of Cyprus
10. The Cyprus Radiological Society
11. Cyprus Society of Dermatology and Venerology
12. Society of Medical Biopathologists - Microbiologists of Cyprus
13. Society of General Medicine of Cyprus
14. Cyprus Society of Cardiology





Meetings (2/3)

15. Cyprus Hematology Association
 16. Cyprus Society of Pathology
 17. Neurosurgical Society of Cyprus
 18. Gynecological and Obstetric Society of Cyprus
 19. Pediatric Society of Cyprus
 20. Cyprus Respiratory Society
 21. Cyprus Surgical Society
 22. Psychiatric Society of Cyprus
 23. Geriatric Society of Cyprus
 24. Cypriot Society of Thoracic, Cardiac, and Vascular Surgeons
 25. Pancyprian Dental Association
 26. Pancyprian Association of Physiotherapists
 27. Cyprus Association of Occupational Therapists
- 

Meetings (3/3)

28. Pharmaceutical Services of Ministry of Health
29. Cyprus Pharmaceutical Association
30. Pancyprian Association of Psychologists
31. Insurance Association of Cyprus
32. Speech-Language Pathologists of Cyprus
33. School Medical Service of Ministry of Health
34. Bank of Cyprus Oncology Center
35. Cyprus Oncology Society
36. Department of Dental Services of Ministry of Health
37. Cyprus Nurses and Midwives Association
38. Nursing Services Administration



All the citizens in Cyprus



Within and outside of
General Healthcare
System



Resident or non-
resident of the Republic
of Cyprus



Human

The House of Representatives enacts as follows:

1. This Law shall be cited as the Electronic Health Law of 2019.

Short
Title

PART I

INTRODUCTORY AND INTERPRETATIVE PROVISIONS

Interpretation.

2. In this Law, unless the context requires otherwise:-

"Acceptable integration profiles" means the sets of acceptable specifications for the procurement of health information systems;

"Authority" means the National e-Health Authority established under Article 4 of this Law;

"Core set of health data" means the set of a citizen's health data registered by healthcare providers in the e-Health Record and stored electronically in the Bank in accordance with the provisions of Article 19 of this Law;

"Health data" means the entirety of stored biomedical data of any form, diagnoses, assessments, biosignals, laboratory results, imaging, other diagnostic and therapeutic interventions, medical prescriptions and information of any kind, in relation to each citizen's condition and health development from birth to death and includes records drawn up by the provider in writing, electronically or otherwise;

"Republic" means the Republic of Cyprus;

"System operator" means the natural or legal person who undertakes to maintain and provide security for the citizen's health managed by the provider;

"Extensive set of health data" means the minimum mandatory registered health data set for a citizen, registered and stored electronically by healthcare providers in accordance with the provisions of Article 27 at any point of health services provision, in any way, by using monitoring technologies and/or short and long-term health care;

"Single e-Health Records Bank" or "SeHRB" means a bank established under Article 28 of this Law;

"Printed Records" means health data kept in paper form;

125 (I) of 2018.

"Processing" has the meaning assigned to it in Article 2 of the Law providing for the Protection of Natural Persons with regard to the Processing of Personal Data and for the Free Movement of such Data;

"e-Health Record" means an electronic file containing the data specified in Article 19 of this Law;

E.U.Official
Journal L.119,
4.5.2016,
p.1

"Regulation (EU) 2016/679" means Regulation (EU) 2016/679 of the European Parliament and of the Council of 27 April 2016 on the protection of natural persons with regard to the processing of personal data and on the free movement of such data, and repealing Directive 95/46/EC (General Data Protection Regulation) ;

"Legal representative" means a person authorized by a citizen to enter data in his/her electronic health record in paper or electronic form;

89 (I) of 2001
134 (I) of 2002
101 (I) of 2004
62 (I) of 2005
74 (I) of 2017.

"Health Insurance Organization" or "HIO" means the Organization established under the provisions of the General Health Care Law;

73 (I) of 2017
32 (I) of 2018.

"State Health Services Organisation" or "SHSO" means the Organization established under the provisions of the Establishment of State Health Services Law;

EHR Content

The contents of the core set of health data shall be determined by a decree of the Minister **on the recommendation of the National eHealth Authority** and in accordance with the provisions of Article 36 of the Implementation of Patients' Rights in the context of Cross-border Health Care Law

[N. 59 (I) / 2019, Article 19(5)]

Single eHealth
Records Bank
Governance Body

Regulator
& Regulatory
compliance
body





- ☐ The basic set of citizen health data
- ☐ Extensive set of citizen health data
- ☐ Functionality
- ☐ Interoperability

National eHealth Authority

- Specifications team of NeHA for the Cyprus Citizen's Comprehensive Electronic Health Record in collaboration with Cyprus Medical Association and Cyprus Federation of Patients' Associations

**All medical societies in Cyprus
and healthcare providers**

Medical Societies





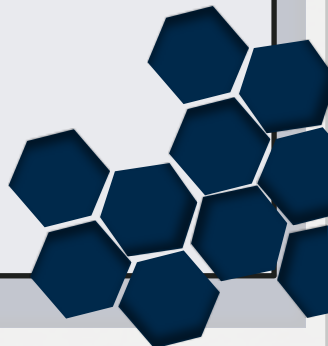
- ☐ The basic set of citizen health data
- ☐ Extensive set of citizen health data
- ☐ Functionality
- ☐ Interoperability

National eHealth Authority

Cyprus Medical Association



Cyprus Medical Association





- ☐ The basic set of citizen health data
- ☐ Extensive set of citizen health data
- ☐ Functionality
- ☐ Interoperability

National eHealth Authority

Cyprus Medical Association ✓

Medical Societies

Issuance of the Ministerial Decree for EHR

- Uniformity in implementation
- Universality in usage
- Ensuring quality of the operational framework

EHR - enabler

Ministry of Health

Role of the Ministry of Health

- Strategy
- Health policy and National goals
- Quality control services
- Monitoring and Health indicators
- Guidelines



EHR - enabler

Healthcare Providers



Doctors, nurses, physiotherapists,
pharmacists, etc.

All healthcare professionals are
invited to access the file.

The access key is provided by the
patient (citizen) to all providers (not
only doctors), both within and outside
the HIO.



EHR - enabler

Insurance Organisations



HIO – Connection to Digital Health

- HIO – implementation of General Healthcare System
- Sustainability and cost containment
- Quality control of services
- Optimization of cost/quality
- Reimbursement
- Planning
- Private insurances – supplementary



EHR - enabler

Organised Patient Associations - CyFPA

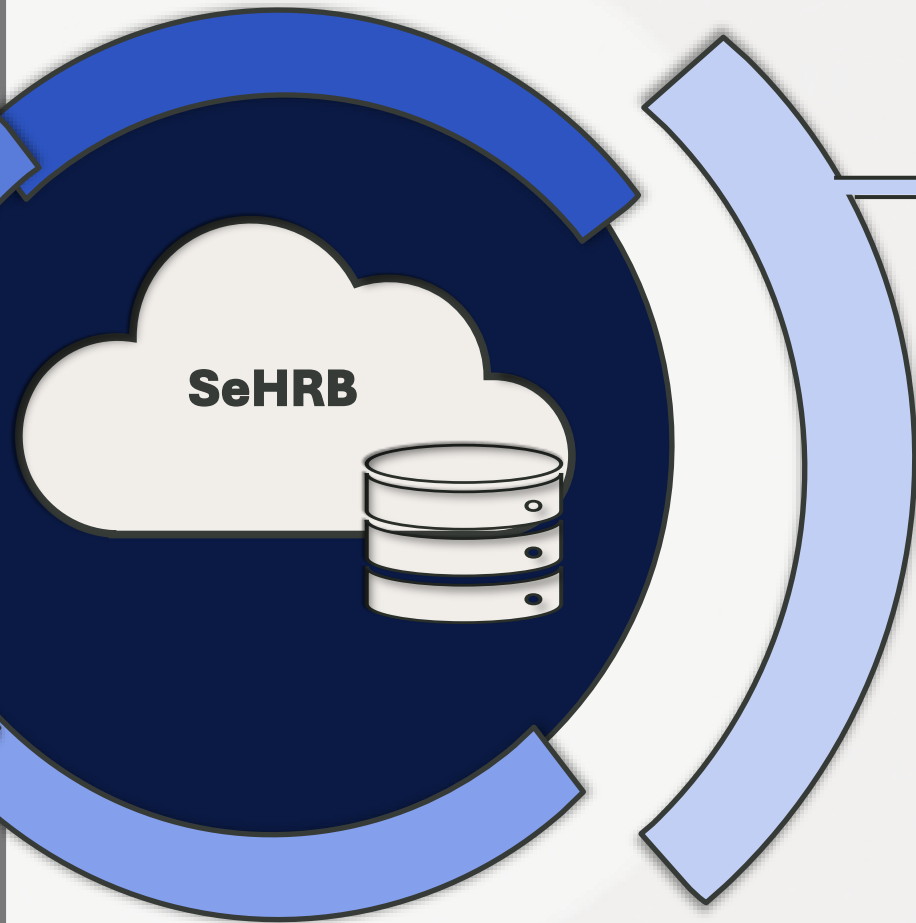
- Participation in decisions regarding the planning of needs and services, as well as the manner in which healthcare services are provided to citizens.
- Participation in accountability structures
- Participation in shaping research priorities



EHR - enabler National eHealth Authority

Role of NeHA – To apply the
Electronic Health legislation

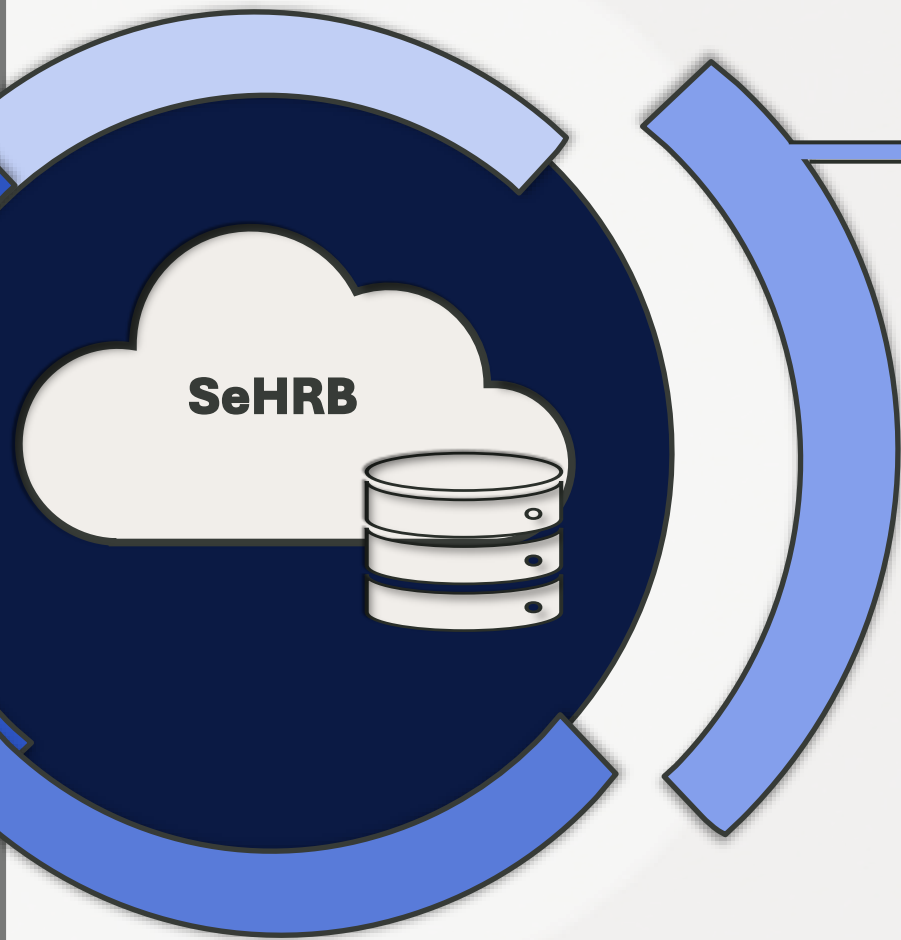




National System EHR

Description

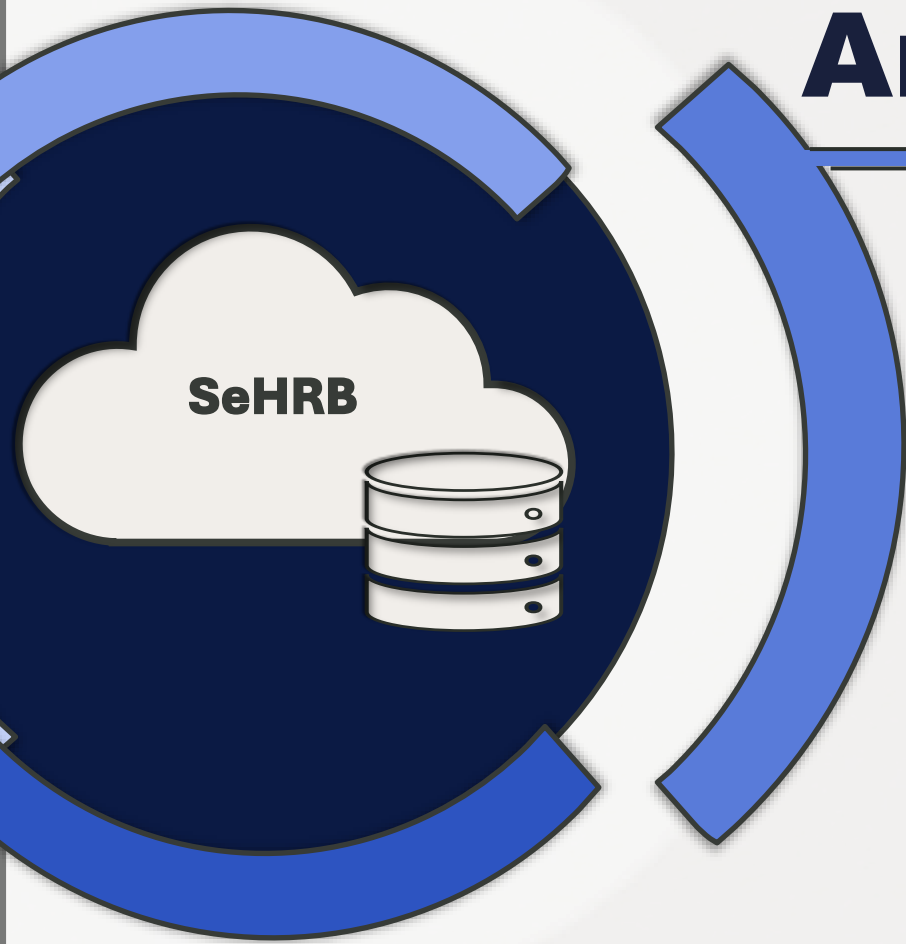
- Role recognition
- Clinical routines
- Work environment
- Diagnostic tools



Mobile App

Application on mobile devices

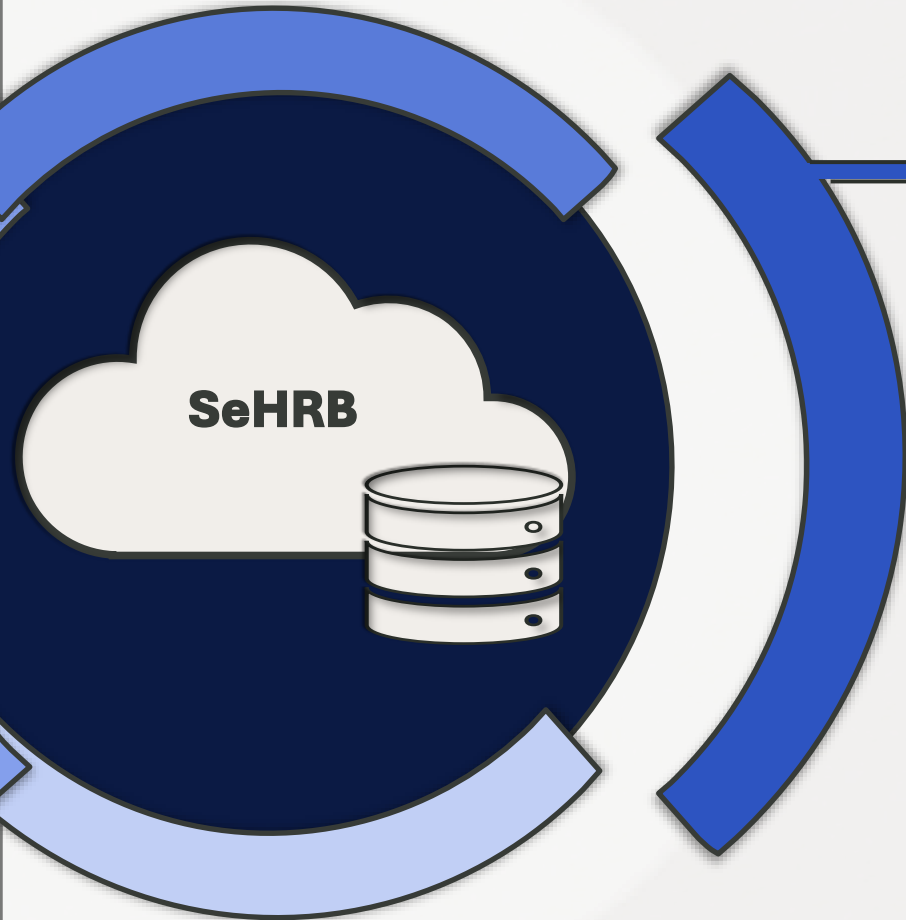
- Access to EHR
- Access to the national health ecosystem
- Access to the European health ecosystem



Artificial Intelligence - AI

- Application of Guidelines through smart algorithms.
- Application of AI through EHR to improve the quality of services provided.

European Cross Border Services



- Patient Summary
- ePrescription
- eDispensation

NCPeH promotion



My Health @ EU

CROSS BORDER

Find out more today about the Electronic Cross-Border Healthcare Services you are entitled to as a European Citizen!

CY

HEALTHCARE SERVICES

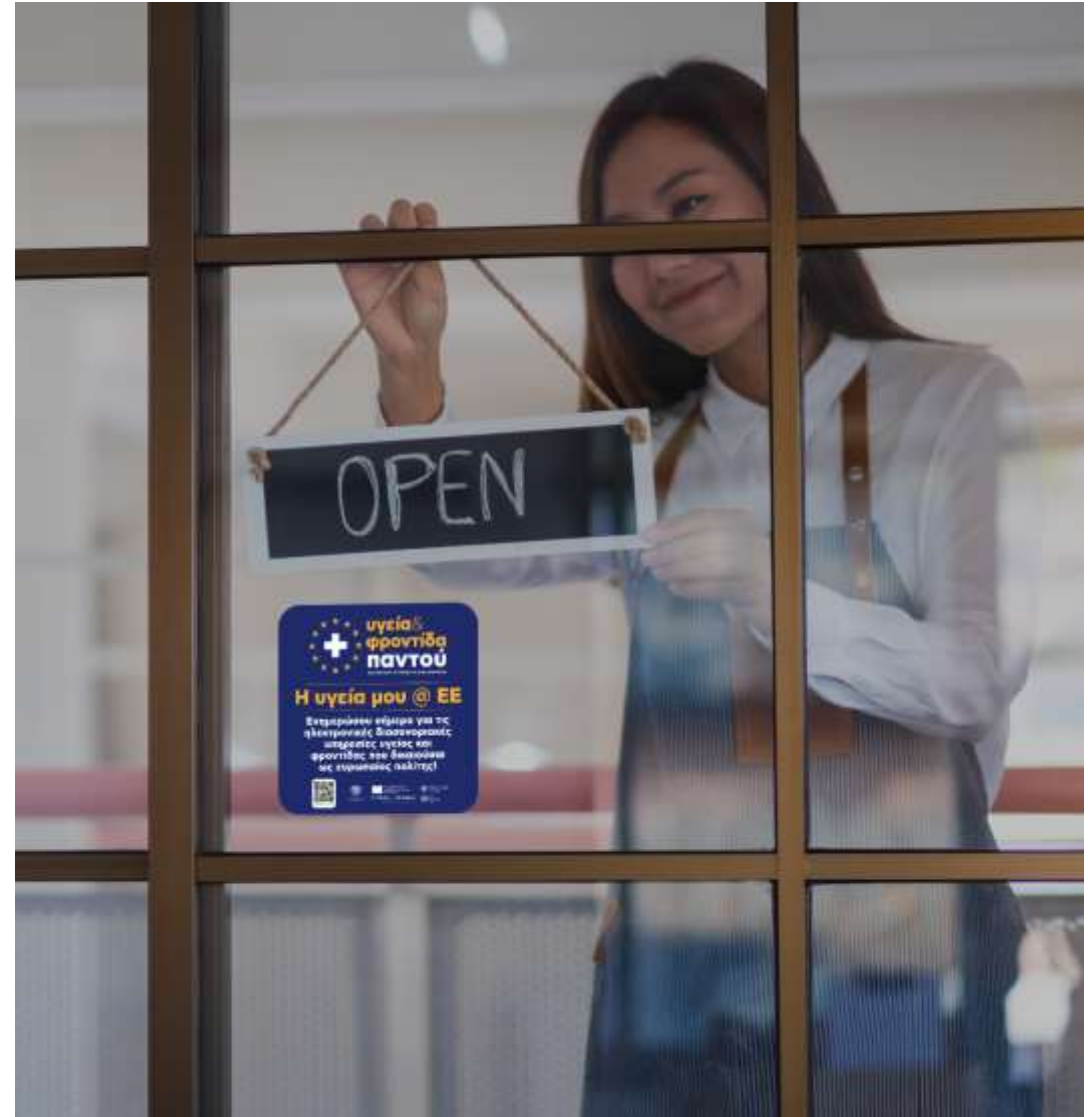
EUROPEAN HEALTH UNION

www.nsha.org.cy/MyHealth@EU

The poster features a teal background. At the top, the title 'My Health @ EU' is in white. Below it is a circular logo with a blue cross and a hand cursor pointing at it, surrounded by yellow stars. The text 'CROSS BORDER' is at the top of the circle, 'CY' is in the center, and 'HEALTHCARE SERVICES' is at the bottom. To the right of the logo, there is a block of white text. Below the text, there is an illustration of three healthcare professionals: a female nurse, a male doctor, and a female patient. At the bottom right, there is a QR code and the website URL.

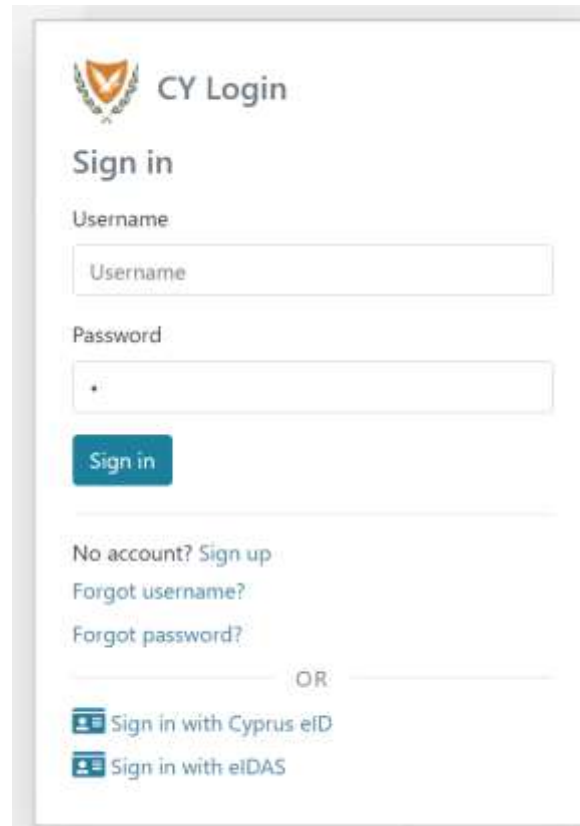


NCPeH promotion



User Access and Authentication

The “eHealth Citizens” of Cyprus which cover national citizens and visitors will be given the opportunity to access their medical records via the national CY login portal with Cyprus eID, eIDAS or the Potential Wallet.



The image shows a screenshot of the 'CY Login' portal. At the top, there is a logo with a shield and the text 'CY Login'. Below this, the heading 'Sign in' is displayed. The form includes two input fields: 'Username' and 'Password'. The 'Username' field contains the placeholder text 'Username', and the 'Password' field contains a single asterisk. A blue 'Sign in' button is positioned below the password field. Below the button, there are links for 'No account? Sign up', 'Forgot username?', and 'Forgot password?'. At the bottom, there is an 'OR' separator followed by two options: 'Sign in with Cyprus eID' and 'Sign in with eIDAS', each accompanied by a small icon.

Potential
For European Digital Identity

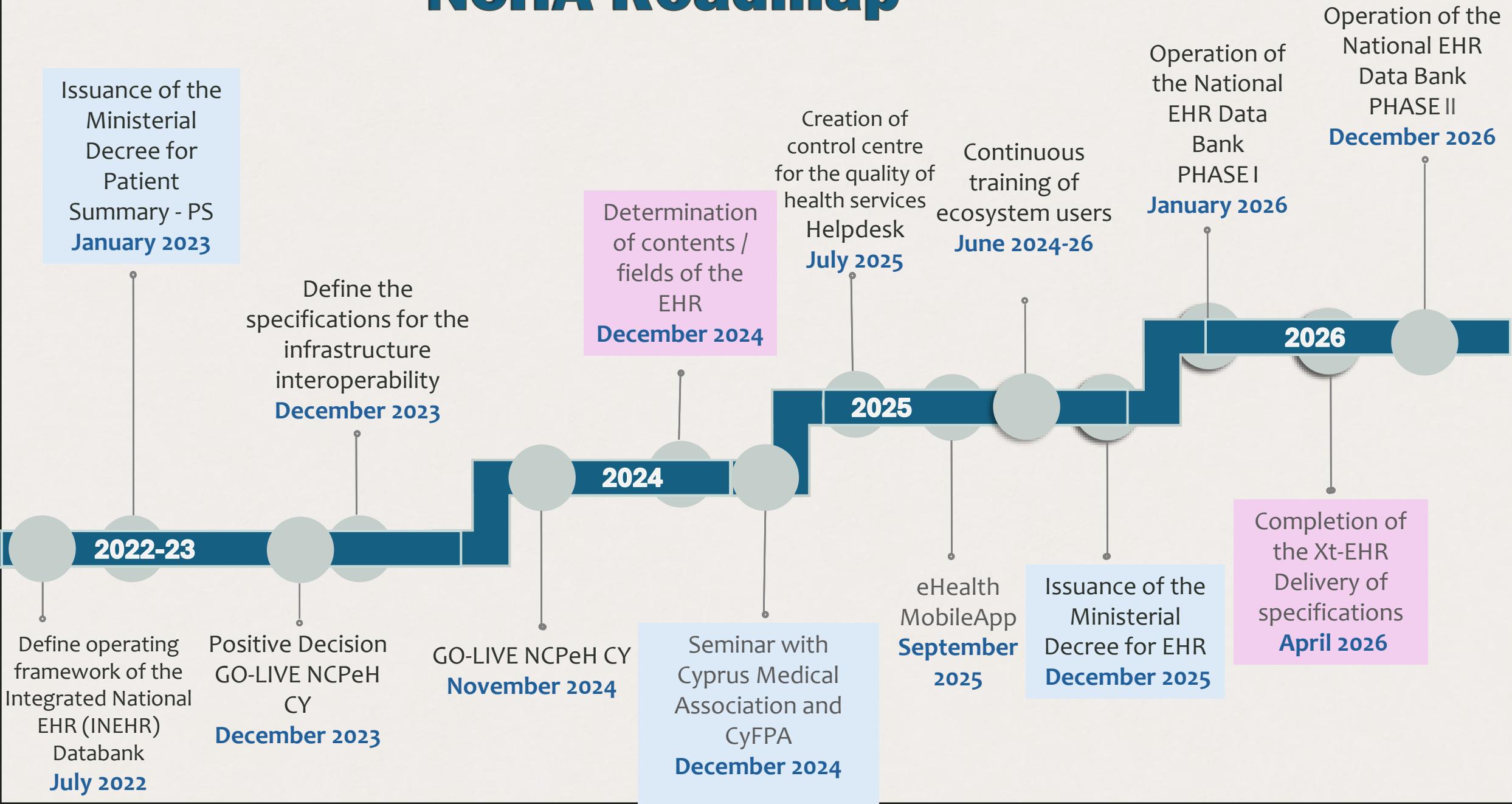


Co-funded by
the European Union

**Building the Future
of Digital Identity
in Europe**



NeHA Roadmap





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<https://www.neha.gov.cy/en/>



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