



SPMS_{EPE}
Serviços Partilhados do
Ministério da Saúde

2022 Thought Leader EHTEL Symposium

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Putting data to work for the public's health in Portugal

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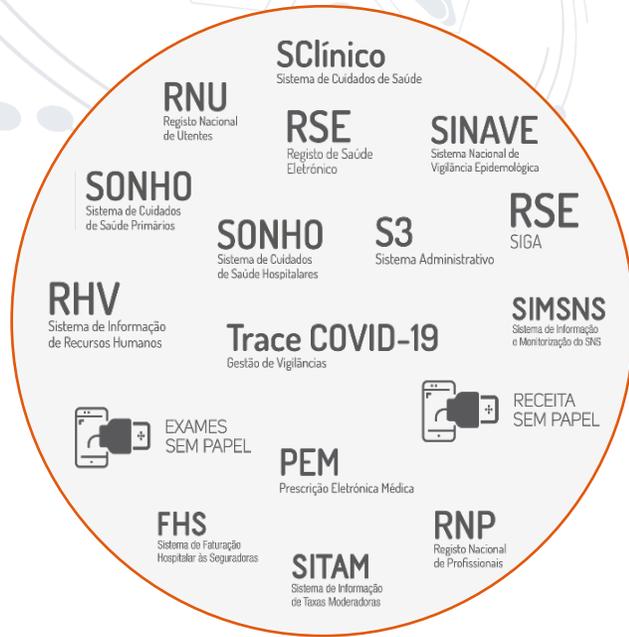
International Affairs Unit Coordinator

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Portuguese eHealth Information EcoSystem

Global eHealth at the core of Portugal's national digital health strategy



Information systems
National Health System,
Health Professionals & Citizens

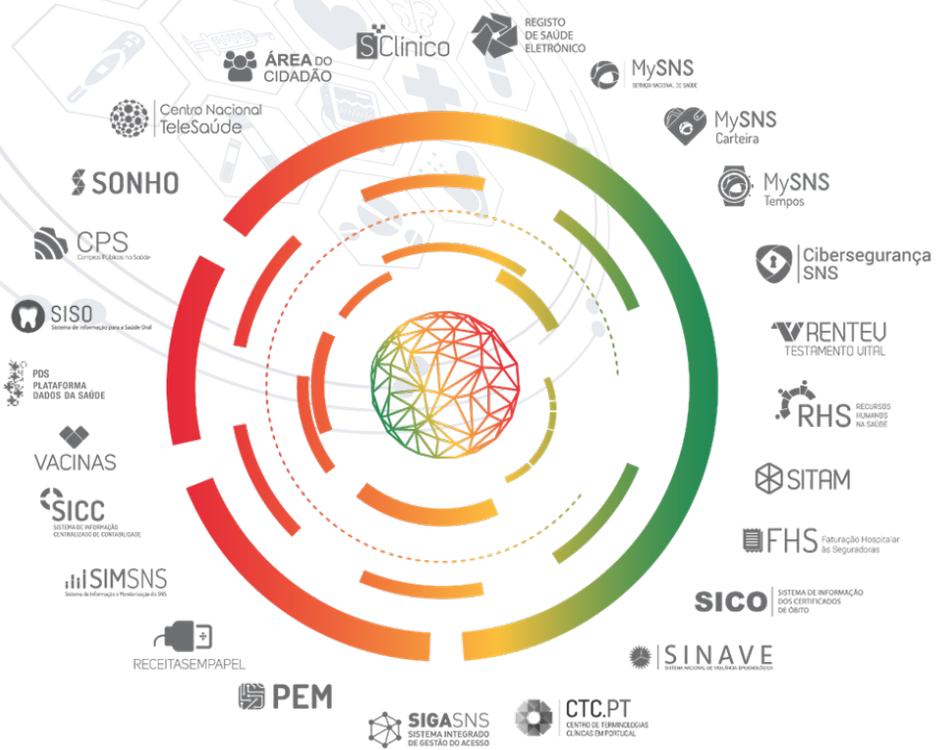


eHealth International
cooperation
Advancing Innovation,
Learning & sharing experiences

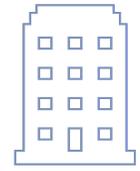


National eHealth Authority
Cross-border eHealth policy &
technical cooperation

e – NATIONAL HEALTH (INFORMATION) SYSTEM



10 MILLION
CITIZENS



54 PUBLIC
HOSPITALS



1.294
PRIMARY CARE UNITS



90%
RUNNING SPMS ICT SOLUTIONS
(ADT AND EHR)

Putting data to work for the Public's Health



Trace COVID-19
Gestão de Vigilâncias



SClínico
Sistema de Cuidados de Saúde Hospitalares



SClínico
Sistema de Cuidados de Saúde Primários



PEM
Prescrição Eletrónica Médica

*Diseases have no borders!
Portugal needs to build digital continuity of care*

+2.069.000
Self-monitoring users

+7.007.000
DPIP/DPI



S3
Sistema de Cuidados de Saúde Hospitalares



EXAMES SEM PAPEL

+290.316.000
Paperless Exams



RHV
Sistema de Informação de Recursos Humanos

+170.000
Users (Ministry of Health and National Health Service employees)

+33.451
Users



RSE
Live

Patient - Professional
Professional - Patient



Towards a Global eHealth Community

SPMS towards a Global eHealth Community



Personalized Medicine

Privacy & Security of my Health Data
Prevention



Myhealth@EU
Primary Use of Data

Towards a Global eHealth Community



Individual Planned Care

Portability of Healthdata
Access and availability of EHR



Secondary use of Healthdata

Public Health;
Research Genomics;

Data Quality
Artificial Intelligence

Citizens



Healthcare Professionals



Healthcare Organisations



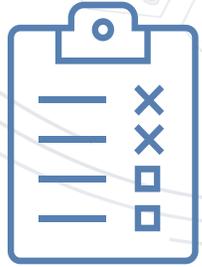
Policy Makers



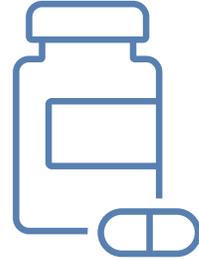
My health @ EU
 eHealth Digital Service Infrastructure
 A service provided by the European Union

Cross-Border Health Data Sharing

Available Services



Patient Summary

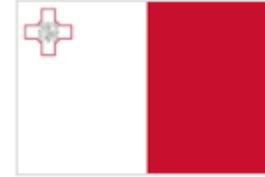


ePrescription/
eDispensation



Portugal already makes its data available cross-border with 10 countries!!

Myhealth@EU



Malta



Croatia



Estonia



Finland



Luxembourg



Spain



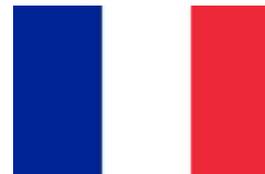
Czech Republic



Poland

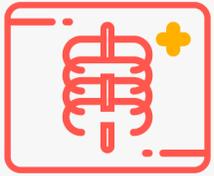


The Netherlands



France

What are the next available services in EEHRxF?



Medical Images and Reports



Discharge Reports



X-eHealth

Exchanging Electronic Health Records
in a common framework



Laboratory Results



Rare Diseases (Patient Summary)

X-eHealth (Exchanging Electronic Health Records in a common Framework)



A SPMS is the coordinator of X-eHealth project. X-eHealth stands herein for a project of strategic relevance for tomorrow's European eHealth Union. Assembling a shared commitment of 47 health actors.



Laboratory Results



Medical Images



Rare Diseases



Discharge Letters

The key goals are to:

- Improve the **healthcare quality and safety** for citizens by allowing them to access and manage their electronic health record from any place in the EU;
- Contribute to **standardisation and harmonisation** of eHealth services in the EU by setting European agreements on diverse levels of interoperability;
- Contribute to **defragmentation of European services**;
- Facilitate **interaction between patients and healthcare providers**, to support disease prevention and citizen empowerment.

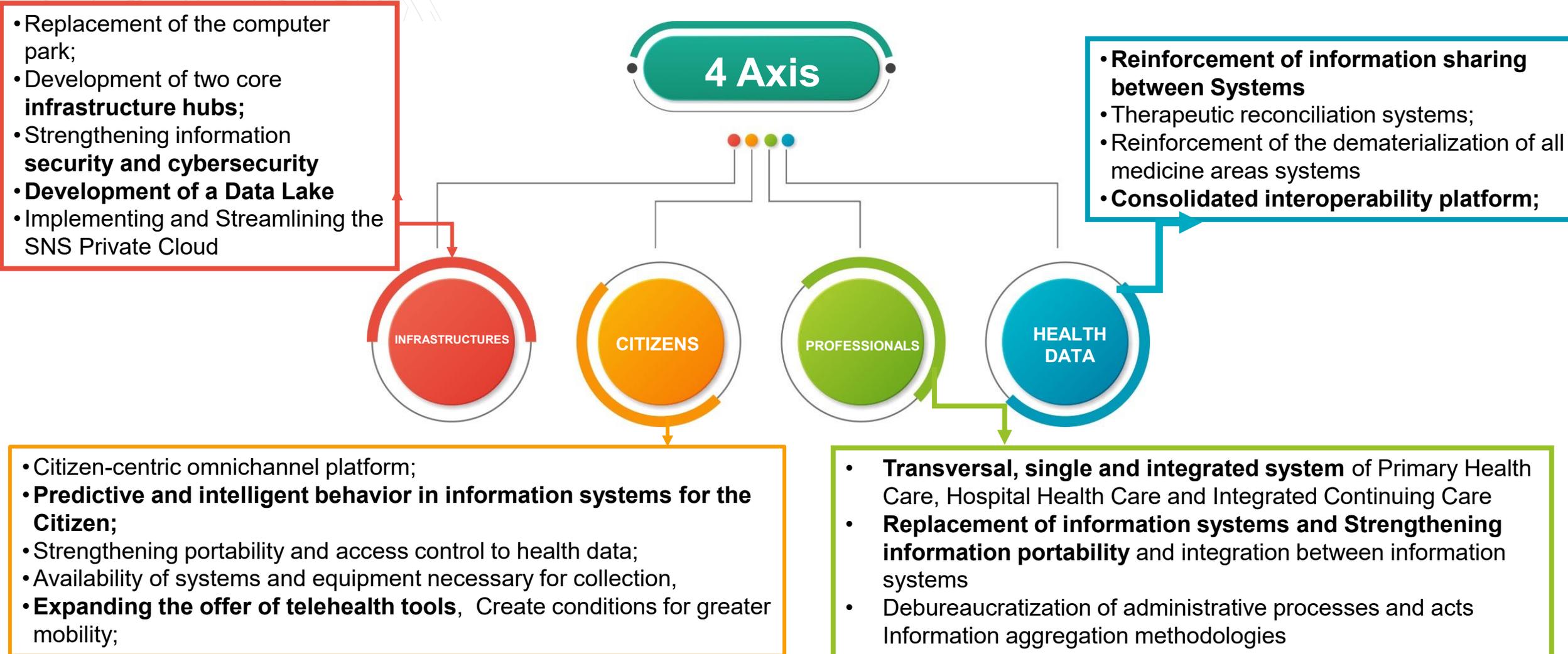


Building the *next generation* (e-)National Health Service in Portugal

National digital Strategy and the Resilience and Recovery Plan (RRP)

How we face innovation

National **Strategy** for the Health Information Ecosystem



Building the *next generation* National Health Service

Development of a Data Lake (massive repository of native data)

Universal and transversal to the NHS, as a way to ensure the future of data intelligence needs and intelligent decision support systems for any scope of information and knowledge.

Artificial Intelligence in Health

Creation of a laboratory for the development, **testing and implementation of solutions** to support professional activities, based on algorithms and artificial intelligence mechanisms.

BI in Health

Creation of new *business intelligence* tools and development of existing ones to support the exercise of the activity and the evolution of digital tools at the service of health professionals.

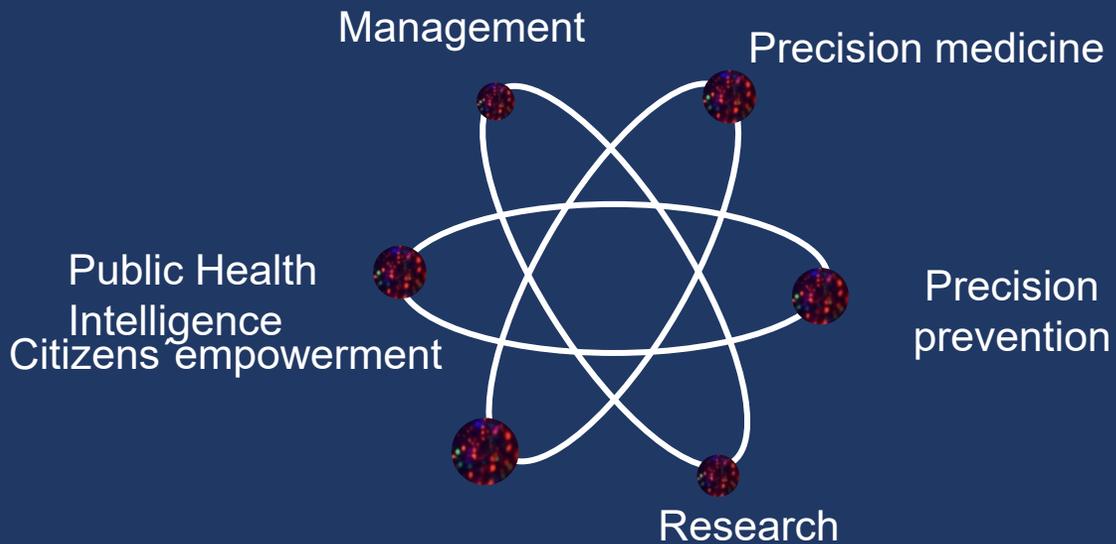
Identification of the data structure of the Electronic Health Record (EHR) / Single Clinical Process (PCU)

Identification and specification of data structures, based on international standards, that make up the user's EHR/PCU, based on the developed normative framework.

Health Intelligence Lab : Create actionable data using Artificial Intelligence



Use NHS health data ecosystem as a *real world* laboratory for R&D to improve health
Advance secondary use of data in priority domains, anticipate and manage risks associated with AI



GOALS:

- ✓ Safe and responsible AI for health
- ✓ Translate stored NHS data into useful AI-backed tools
- ✓ Test and scale Innovative IT solutions
- ✓ Establish NHS testing environment
- ✓ Partnerships with academic institutions, public and private sector organizations
- ✓ Promote NHS efficiency, safety and quality



Thank You