

GDHP 2019

Digital Health **INFRASTRUCTURE** for Futuristic Health
Systems and Sustainable Development

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Portugal**





“The **use** of **digital** tools
empowers **people** to look after
their health.
It **stimulates** prevention and
enables feedback and
interaction between users and
healthcare providers.”

What is this ?





InfraStructure → InfoStructure → KnowStruture



Recommendations on Sustainable Development

1

Global

- Strategic Vision and Guidelines
- Laying the Foundations for eSkills to Growth
- Alignment between Digital Health Authority
- Bottom-Up Approach

2

GDHP Cooperation

- GDHP United Approach
- Patient Empowerment Development Goals
- Recommendation for Practical Behaviour

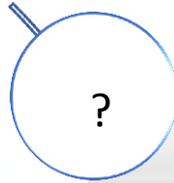
3

National Level

Portugal Domestic Context – exemple

- National TeleHealth Strategy
- ENESIS 2020-2022 – National Strategy for the Healthcare information ecosystem
- From Big Data to Smart Health – Putting data to work for the public health

Global Cooperation

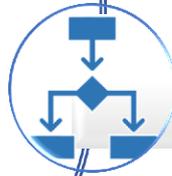


Global driven initiative for pressing “National Govs” to take Action on Digital Health

Letter to Member States’ MoHealth and MoEducation



1. Funds for Research & Innovation
2. New Methods to Boost Sustainable Development



1. Stepwise approach & Procedural Supervisor
2. Set Targets & Monitoring Progress



Digital Health Literacy and “eSkills” for Citizens

Digital “Driving” Licence and Digital Health Literacy KPI’s

GDHP Cooperation



GDHP United Approach

- Guidelines & Sharing Best Practices

1.- Create New Ideas for Policy Implementation



1. “Patient Empowerment” Development Goals (PEDGs)



Produce Recommendations for practical “Behaviour”

- HealthCare Providers (Patient information/empowerment)

PEDGs Measurement Idea:

1. % of Seniors (+70y) that use internet for self-care purposes
2. % of citizens using wearables for self care

Portugal Domestic Context - example

1. Create the figure of **“Patient Empowerment Lead”** at national, regional and local level;
2. **Protocol SPMS-MoH** with Multi-Stakeholders, Multi-Sectorial & Engagement Strategy
3. **National Telemedicine Center**
 1. Increase ability/capacity for professionals and citizens;
 2. Increase opportunities
4. **Digital Contents** (eBooks, Videos or treatments guidelines / Vlog)
5. From Big Data to **Smart Health**

Portugal – Digital & Citizens Empowerment



The Future of Healthcare is all about

THE EMPOWERED PATIENT

What if there is someone responsible
to be

EMPOWERED PATIENT LEAD



Portugal Computer Literacy & Digital Inclusion



Taking Action

Computer Literacy &
Digital Inclusion



Vision

- Digital Literacy
- Practical Training
- Empowering
Citizens

Deployment

- Municipalities
- Health Facilities
- Social Entities
- Education

Portugal Computer Literacy & Digital Inclusion

Sphere of Activity:

- Educate **Municipality employees** that play an active social role;
- Realize **eSkills training sessions** in **strategic points** of the Municipality of Loulé which can provide effective guidance to residents;
 - **Citizen Area (AC)**
 - **Electronic Health Record (CSR)**
 - **MySNS Portfolio App**

Multi-Stakeholder Protocol

- ABC
- SPMS
- Loulé Municipality

Key Idea:

By recognizing the central role of **computer literacy and digital inclusion** today, the underlying idea of this pilot project is to **furnish citizens** with the required **eSkills** to be **preventive** about their **health**, avoiding nonessential travels to NHS facilities, thus **enhancing the medical response** to urgent cases.



ADENDA AO PROTOCÓLO DE COLABORAÇÃO

CELEBRADO

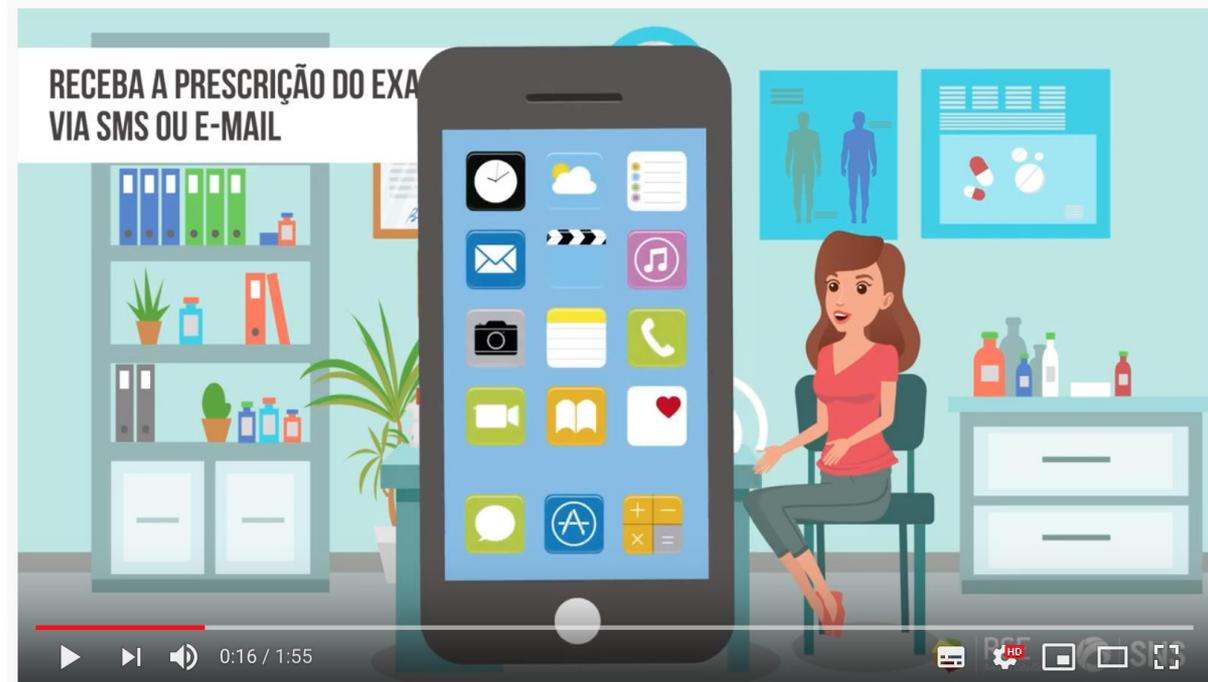
ENTRE:

SERVIÇOS PARTILHADOS DO MINISTÉRIO DA SAÚDE, E.P.E., adiante abreviadamente designada por SPMS, E.P.E., pessoa coletiva n.º 509 540 716, com sede na Avenida da República, n.º 61, em Lisboa, representada pelo presidente do Conselho de Administração, Prof. Doutor Henrique Manuel Gil Martins, com poderes para o ato;

E

ASSOCIAÇÃO DE DESENVOLVIMENTO DO CENTRO ACADÉMICO DE INVESTIGAÇÃO E FORMAÇÃO BIOMÉDICA DO ALGARVE, adiante designada como AD-ABC, pessoa coletiva n.º 514997133, com sede no Campus de Gambelas da Universidade do Algarve, em Faro, aqui representado pelo Presidente da Direção, Doutor Nuno Marques, com poderes para o ato.

Portugal – Digital Content/Vlog



Portugal – Digital & Citizens Empowerment

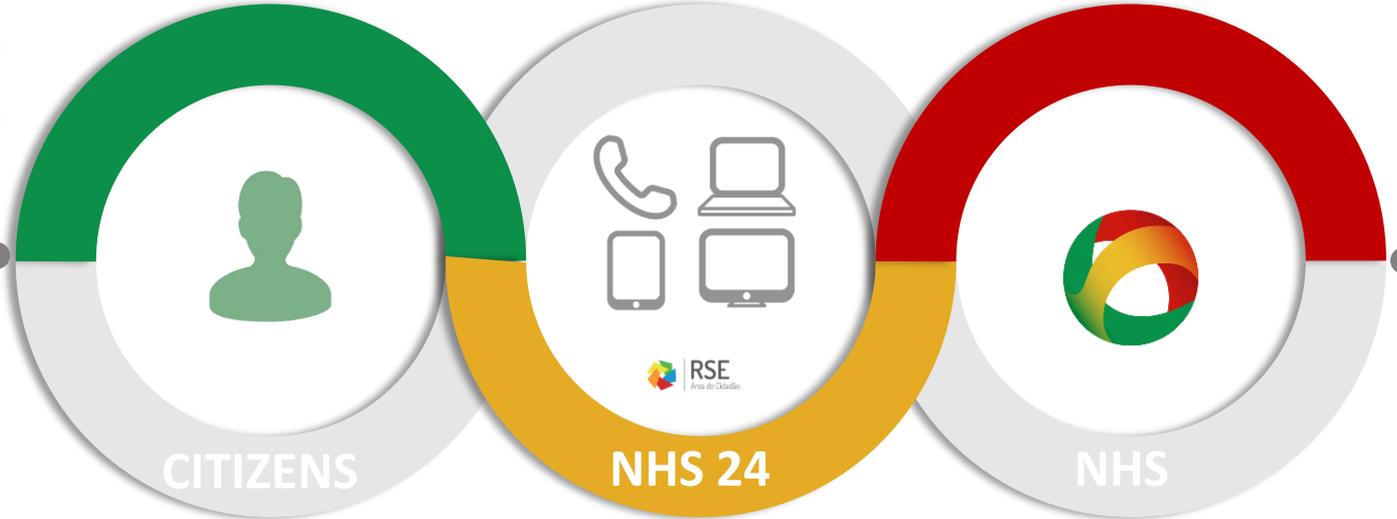


CNTS

Centro Nacional de TeleSaúde

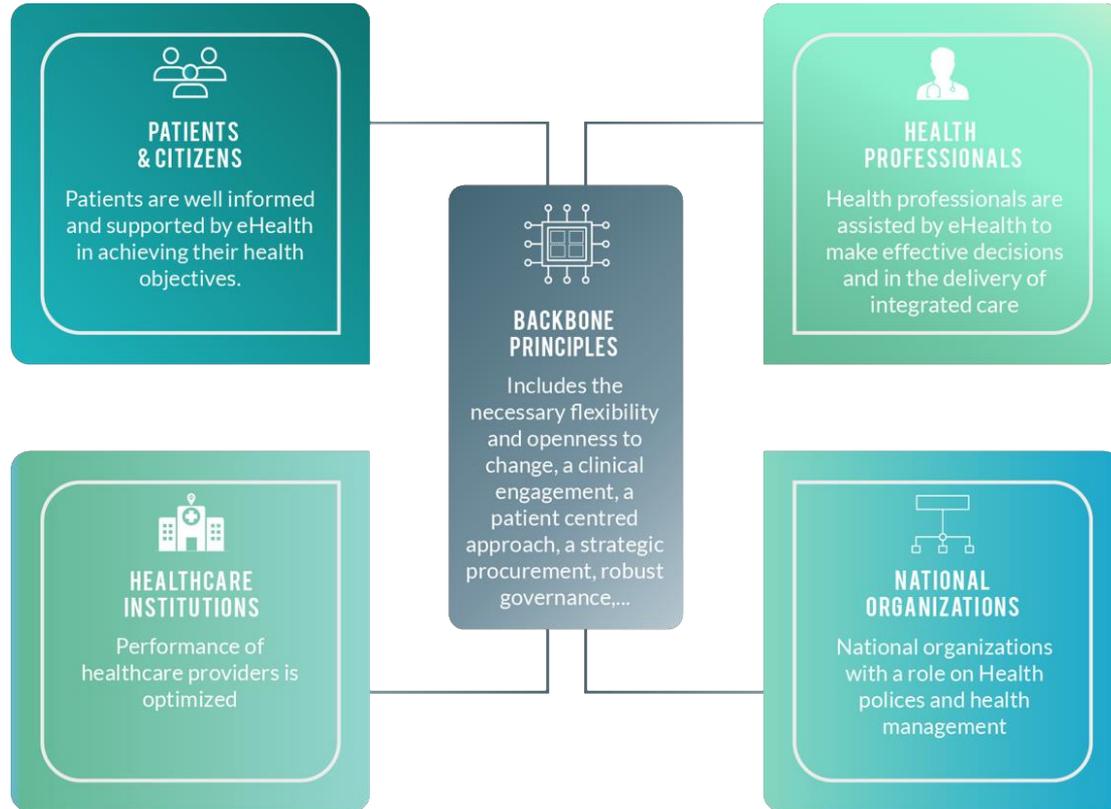
National Center for TeleHealth

“Health without barriers of space and time”



Enhance Citizens & Health Professionals eSkills to Maximize existing Opportunities

Stakeholders Collaboration – Target Groups



From Big Data to Smart Health

Empower Citizens to become active participants in managing their healthcare and wellbeing by endowing them with digital expertise.

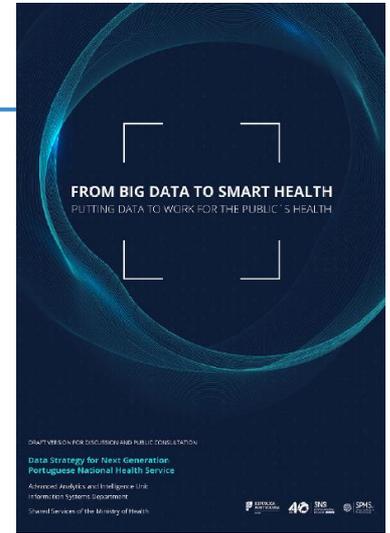
Why should digital health be citizen-centred?

1. Encourage participation in all health decisions
2. Reinforce accountability on personal health information
3. Transparency in data sharing decisions
4. Personalized healthcare interactions

Why should governments empower citizens' digital skills?

Citizens should:

1. Manage their personal health condition and wellbeing
2. Shift from reactive to preventive healthcare
3. Interact directly with NHS
4. Optimize medical response



SPMS – Health Data Strategic Insights

Global Digital
Health Partnership
Summit

Hong Kong •

Data Strategy for Next
Generation Portuguese
National Health Services

**[UNDER PUBLIC
CONSULTATION]**

Links with digital
education/Literacy and
empowerment



Citizens and Patients

Well-informed users with support of technology to improve wellbeing and prevent illness



Health Professionals

Supported by data and technology to make effective decisions and promote integrated care



Health Entities

Optimized resources and services management of health care providers



National Entities

Promotion by public health sector entities of health policies based on data support



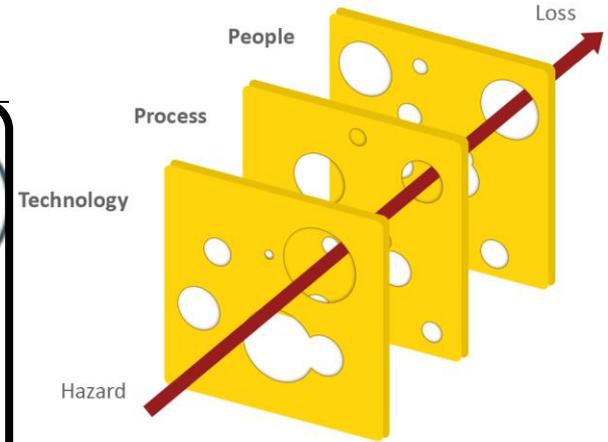
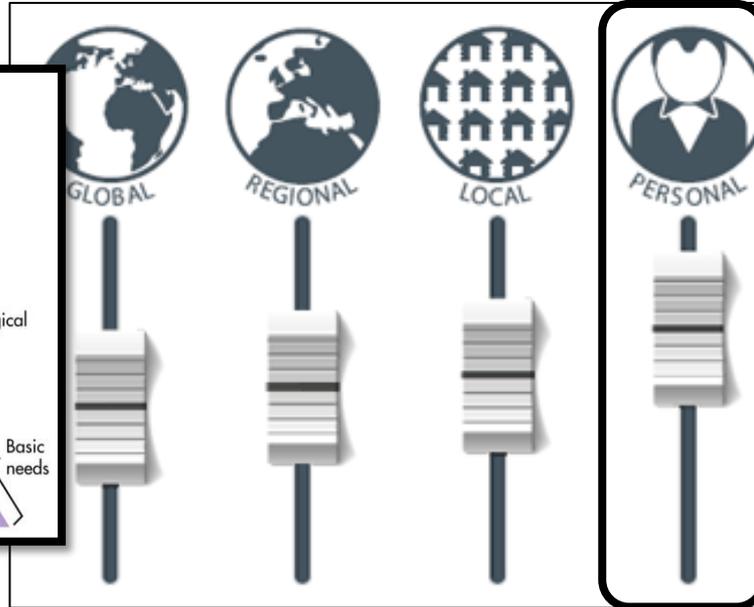
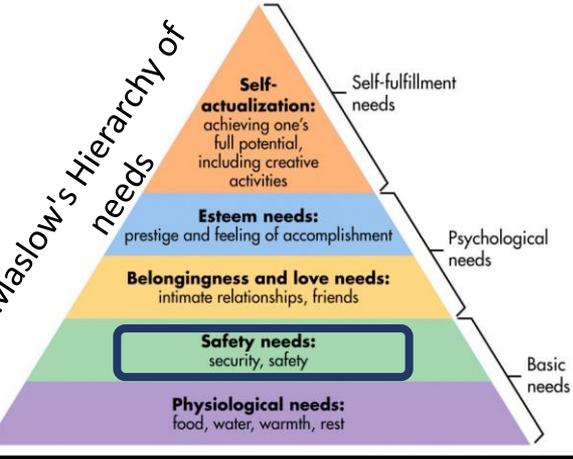
Root Principles

Openness to change, involvement and collaboration of health professionals, patient-centered approach

Cybersecurity Approach

Is necessary to work protection and security measures globally, regionally, locally/organization and individually/personal

Maslow's Hierarchy of needs



We want Pro-Cybersecurity persons

He or she should be anybody that, through its day-to-day activities is completely aware of the processes and needs for a secure cyberspace and informatics usage. It is someone that adopts all the necessary security measures stipulated in the organization's policies and someone who works and contributes to them.



CURSO E-LEARNING
CIDADÃO CIBERSEGURO
É fundamental estarmos conscientes dos riscos de cibersegurança.
Complete o curso e encontre resposta a todas as suas dúvidas.

LINGUAGEM SIMPLES E ÚTIL,
NÃO PRECISO DE SER UM
TÉCNICO ESPECIALIZADO
PARA COMPLETÁ-LO.

O CURSO NÃO DEMORA
MAIS DO QUE 2 HORAS.
NÃO TENHO ESCULPAS AGORA!

3 MIL COLABORADORES JÁ
TERMINARAM O CURSO.
ENTÃO, E TU?

Para mais detalhes:

- Informe-se junto da Área de Formação, do Departamento de Informática ou do Responsável de Segurança da sua Instituição;
- Envie as suas dúvidas para curso.cidadao.ciberseguro@spms.min-saude.pt;
- Consulte mais informações em:

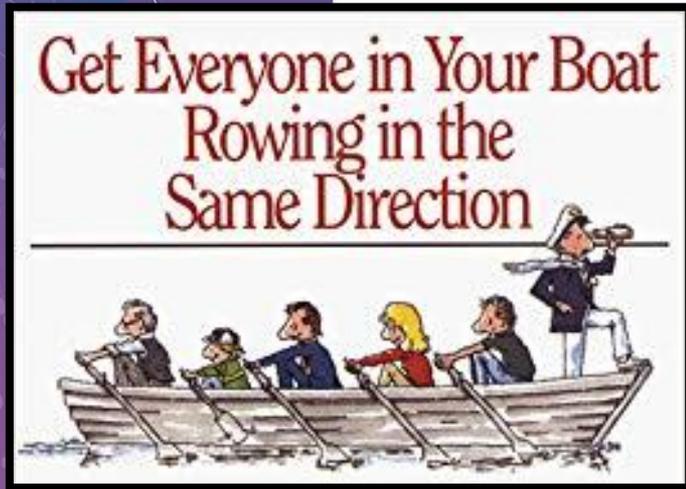
WWW.SPMS.MIN-SAUDE.PT

Data limite para a conclusão do curso: 09 de setembro de 2019

SPMS MIN-SAUDE | INSA | SPMS | CIBERSEGURANÇA |

The challenges are the same

- GDHP
- European Cybersecurity Health Group
- GACS – National Health Cybersecurity Group (Portugal)



Human Resources
(scarcity, budget,
recruitment,
retaining,...)

Legacy ICT
ecosystem
(applicational and
infraestrutures)

Staff Awareness
and Organizational
Culture

Governance across
distributed health
sector

Governance

- ✓ Actions and highest level decisions that impact the Nation's Digital Security
- ✓ Steering Cyberspace Security in a whole-of-society perspective



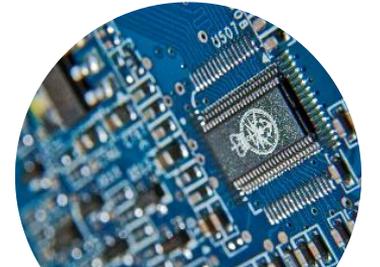
Solid Cooperation baseline

Prevention

- ✓ Constantly observe relevant cyberspace
- ✓ Train your society and community
- ✓ Educate current and future generations

Protection

- ✓ Protect the information "crown jewels"
- ✓ Demonstrate that you are resilient
- ✓ Be aware of your Ecosystem (partnerships)



Focus on the Future
R&D&I

Response

- ✓ Call upon your Partnerships
- ✓ Demonstrate & act with your capabilities



Cybersecurity Goals

- ↑ confidence of the patient in the treatment and storage of their health information;
- establishing mechanisms for detecting potential illicit and malicious activities that affect the business continuity of health organizations;
- ↑ of the secure and responsible use of digital services and treatment of users' health information;
- care-relevant information is available and accessible to healthcare professionals when needed (availability), and that data are correct for appropriate treatment to clients (integrity).

3 GOOD HEALTH
AND WELL-BEING



“eHealth for the best healthcare to **everyone** from anywhere in **Europe**”* and in the rest of the World

*- (eHealth Network MWP 2018-2021) moto

