Opportunities for the cybersecurity enhancement of the healthcare sector

Sanità digitale e impatti di cybersecurity - La strategia nazionale di cybersecurity: impatto e prospettive
Rome, 13.07.2022

DIPARTIMENTO
PER LA TRASFORMAZIONE
DIGITALE

Funded by the European Union
NextGenerationEU

Cyber risk factors for the Healthcare sector

Evidences from a passive analysis of the italian healthcare sector

257
Examined Subjects

17.865
Identified Domains

23.138
IP addresses Analysed

6.825
Localised Services

Potential cyber risk factors

- Use of weak passwords
- Lack of MFA
- Improper administrative credential management

- Limited software update governance
- Weak remote access policies

- Unnecessary services exposed
- DDoS exploitable services
- Deprecated Cipher Suites and protocols

- Limited cybersecurity awareness

Digitization
Exposure and vulnerability

Balance

Efficiency of cyber defence systems
Cyber awareness

Sector Opportunities

PROTECTION

DEVELOPMENT

82 actions by 2026

RESPONSE

National Cybersecurity Strategy

PNRR

Europe Programs

National Cybersecurity Strategy

The ACN, as the National Cybersecurity Authority, drafts the National Cybersecurity Strategy

Strategic document

Implementation plan

NATIONAL CYBERSECURITY
STRATEGY
2022 – 2026

IMPLEMENTATION PLAN
NATIONAL CYBERSECURITY STRATEGY
2022 – 2026

The strategic objectives are divided in **82 measures to be implemented by 2026**

National Cybersecurity Strategy at a glance

The strategic objectives have been **grouped into thematic areas** and organised to ensure **the concrete implementation of the strategy**, both from an organisational and policy perspective and from a strictly operational point of view.


GOALS

PROTECTION			RESPONSE			DEVELOPMENT			ENABLERS
Technological screening			Crises management			National Coordination Centre			
Legal framework			National cyber services			National and European technology development			
Situational awareness			Cyber exercises			National Cybersecurity Campus			
Cyber resilience of PAs			Attribution			Cyber as a competitive advantage			
National infrastructures			Tackling cybercrime			Secure digitization of the Country			
Cryptography			Deterrence capabilities						
Countering online disinformation									

Public - Private Partnership

Institutions   Private operators   Civil society

5

National Cybersecurity Strategy

ACN acts as regulator, certifier and overseer of the cybersecurity sector

- Defines the minimum levels of security measures for several priority areas including health, carrying out inspections and imposing sanctions

- Ensures the collaboration of the Sector Authorities with the competent Authority NIS and several bodies including the Ministry of Health ...

NATIONAL CYBERSECURITY
STRATEGY
2022 – 2026
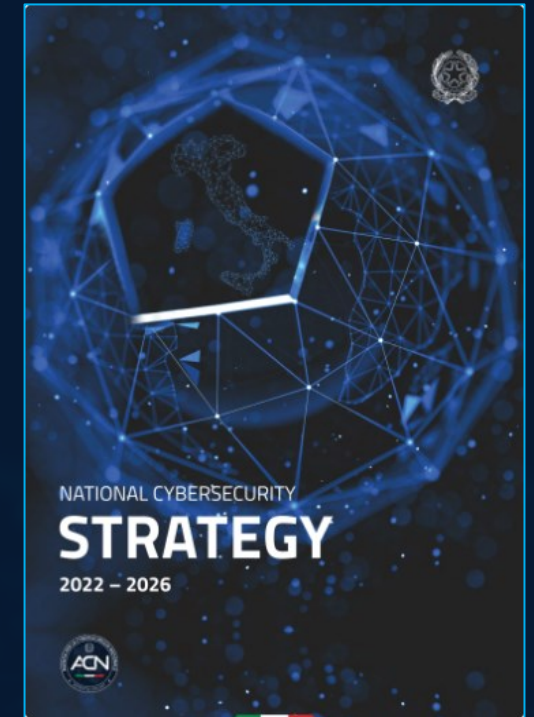
Development actions

#16
Facilitate migration of PA services and data to PSN or Public Cloud
Targets: Central Administrations, Local Health Companies (ASL) and the main Local Administrations

#82
Develop metrics, and KPIs for cybersecurity maturity levels
Target: OSE/FSD entities (essential services for society and the economy in the health, energy...)

European Initiatives

There are also various initiatives in the Europe scope, in order to raise the level of cyber security in health sector. Below two examples of "calls for proposals" referring to two different European Commission funding programs.

1 HORIZON EUROPE PROGRAM

2021-2027 | 95,5 Bln

10 Mln € Funds

Call For Proposals "Enhancing cybersecurity of connected medical devices"

2 DIGITAL EUROPE PROGRAM

2021-2027 | 7,6 Bln

20 Mln € Funds

Call For Proposals "Support To Cybersecurity In The Health Sector"

ECCC
EUROPEAN CYBERSECURITY COMPETENCE CENTRE

NCC
CYBERSECURITY NATIONAL COORDINATION CENTRE
ITALY

NextGen EU: Direct and indirect actions for the healthcare sector

M1C1 - DIGITALISATION, INNOVATION AND PA

Enhancing cyber resilience capabilities across the country

Public Administration cyber capacity building

623 Mln € Funds

- **Investment 1.1** → *Digital infrastructures*
- **Investment 1.2** → *Enabling and facilitating migration to the cloud*
- **Investment 1.5** → *Cybersecurity*

Strengthening local prevention and health services

Modernising and digitising the healthcare system

18,49 Bln € Funds

10 Actions

M6C1 - LOCAL NETWORKS, INTERMEDIATE FACILITIES AND TELEMEDICINE

M6C2 – INNOVATION, RESEARCH AND DIGITALISATION OF THE SSN

- **Technological and digital upgrading** — 7,36 Bln €
- **Training, scientific research and technology transfer** — 1,26 Bln €

8,63 Bln € Funds

GOALS:

1. **Electronic Healthcare Record enhancement**
2. **Reinforcing the new health information system**

Next Step: Stay Tuned 🎧

Implementation of the cybersecurity strategy that will have the health sector as one of the main area of focus

Defining operational arrangements regarding the Cybersecurity National Coordination Centre