

Welcome to the 7th eHealth Security Conference

Vibeke van der Sprong Deputy Director General Danish Health Data Authority





# Welcome to the 7th eHealth Security Conference

- Welcome to Denmark
- Welcome to Rigshospitalet

### Why are we here today?

> 2019: Barcelona

2020: Online Series

> 2022: Copenhagen

- Share the newest within policies, threat landscape, ransomware and supply chain security
- Networking and knowledge sharing
- > Thank you, ENISA





# Rigshospitalet (Riget)

- The largest and most specialised hospital in Denmark
- Internationally outstanding treatment offerings
- 1.135 beds across multiple sites
- 12.000 employees,
  - of which 2.500 doctors and 4.100 nurses

#### Leading on research and training

- > 150 professors
- Every year 3.375+ students transition through training and placements with us
- > 354.600 unique patients
- 1.147.000 outpatient visits and 371.600 virtual contacts





# Organisation of the Danish Healthcare system - from a cyber perspective

#### Universal coverage

Free & equal access

Mainly financed by general taxes

A high degree of decentralization

#### National level



### The Danish Ministry of Health

- Legislation, policies, planning and overall economic framework
- Strategy owner for cyber and information security in the healthcare sector
  - Reporting to the government
- Implementation of policies and 'technical minimum requirements' in own organization
- Orchestrating cyber related collaboration between the different parts of the sector, such as emergency planning, technical collaboration and tools etc.

### Regional level



### 5 regions

- Hospitals and agreements with private practitioners and specialist
- · Data processing of citizens' health data
- Awareness training of both office staff and health professionals
- Responsible for the main part of essential services in the healthcare sector
- Maintaining and securing these services also regarding cyber- and information security 24/7/365

#### Local level



#### 98 Municipalities

- Primary sector and elderly care
- Data processing of citizens' health data
- Responsible for a big and growing part of essential services in the healthcare sector
- Maintaining and securing these services also regarding cyberand information security 24/7/365



### The Danish Health Data Authority

- Established in 2015 part of the Ministry of Health
- National digital health solutions
  - Develop and run the National infrastructure and the National health care solutions
  - Define national architectures and standards that are compulsory for the health care sector with an emphasis on information security and interoperability
    - Regional and local it solutions is a regional/local matter such as the EHR, lab-systems, imaging systems, GP-systems and systems in the municipalities.
- National health data
  - Provides health data and analysis on activity, economy and quality and research
  - Monitor political benchmarks and decisions in the health sector
- Cyber and Information Security on the health care area
  - Facilitate and strengthen cyber and information security at the highest possible level for the whole health care sector which is categorized as a critical societal sector
- Drives implementation and collaboration on digitalization and data in the health sector with focus on national crosssectoral strategies and agreements
  - Runs the national boards and stirring groups





## Danish Cyber Security Strategies

The cross-sectoral national strategy 2018-2021 → 2022-2024

The Danish National Strateg for Cyber and Information Security

An ambitious effort targeting government and vital societal functions.

#### The new national strategy will

- Cover more sectors
- Cover more critical systems
- Strengthen technical minimum requirements.

#### The health sector strategy focus

- Operational capacities
- Collaboration across the sector
- Stricter cyber security requirements.

#### The new health sector strategy 2023-2025

- Continue the good work
- More focus on the smaller actors
- Identify and utilise potential in the best possible way.

The health sector strategy 2019-2022 → 2023-2025

New strategy in Q1 2023



# Digitalization and cybersecurity

Digitalization

Denmark as digital first movers

• This effort has resulted in a series of top placements in international surveys on digital government for Denmark

Risk

The more digital we become, the more we increase the risk of being compromised and the consequences of that

Collaboration

- We cannot achieve a high security level in the sector without close collaboration
- For more than 20 years, the Danish national government, municipalities, and regions have worked closely together to build a strong and secure digital infrastructure that serves as the foundation for public services for residents and businesses in Denmark

Barriers

- Many actors and operators, many decision makers
- Complex it-environment
- Funding
- Audit and trust

Solution

• Strategy for cyber and information security in the health care sector'



## Realization of the health sector strategy

- > A strong shared national strategy ensuring governance and collaboration across de-centralized actors
  - In order for the entire sector to move together towards the same goal
- Balanced approach to strategic and operational work
  - It is vital to have both focus and direction from top management as well as close collaboration on operational level
- > Tangible shared products and tools create synergies
  - Hands on operational collaborations across the sector on a technical level
  - Competences can be built and trained across the sector
  - Resources can be shared during emergencies and incidents (e.g. Log4J)
- Operational work
  - Triage, analysing and sharing cyber warnings
  - Operative capacity with a SAC in DHDA connecting to SOCs in the sector
  - Developing and testing cyber emergency plans for the entire health sector





### National collaborations

- The Danish Agency for Digitalization
  - In charge of implementing the Danish Government's policies for developing the digital public sector as well as for major parts of the Danish public digital service infrastructure.
- CFSC Centre for Cyber Security
  - Centre for Cybersecurity helps Danish government agencies and private businesses prevent, counter, and protect against cyber attacks
- The other 5 decentral units for cyber and information security
  - Really good collaboration with all, especially with Energy CERT & Telecom
  - In time a more transverse collaboration across all vital societal functions.
- NOST National Operative Staff
  - The National Operative Staff convene in case of large crisis and incidents in Denmark.
  - The staff is responsible for securing the cross sectorial collaboration between the authorities.

















The Danish Health Data Authority Ørestads Boulevard 5 DK-2300 Copenhagen S

T: +45 7221 6800

E: kontakt@sundshedsdata.dk

W: sundhedsdata.dk