

- Legal frameworks
- Cultural changes
- Optimized dataintegration
- Interministerial coordination
- Interagency communication

## National objectives on antimicrobial resistance

We must reduce the use of antimicrobials and prioritise the use of antimicrobials that carry a lower risk of resistance development	We must work towards a more stable and improved supply of antimicrobials.	We must combat any increase and work towards a reduction in the level of infections requiring treatment	We must strengthen Denmark's international involvement and contribution to global efforts to combat antimicrobial resistance
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### Indicators

Number of dispensed antibiotic prescriptions in primary care	Number of market withdrawals of antimicrobials	Bacteraemias per 100,000 inhabitants	Denmark supports and collaborates with the authorities of other countries and international organisations in the fight against AMR
Use of Penicillin V and Mecillinam as a share of total antibiotic use in primary care, measured in prescriptions per 1,000 inhabitants	Number of new market registrations of antimicrobials	Incidence of bloodstream infections with carbapenem-resistant <i>Klebsiella pneumoniae</i> (per 100,000 inhabitants)	
Use of critically important antibiotics measured in DDDs per 100 hospital admissions		Incidence of bloodstream infections with methicillin-resistant <i>Staphylococcus aureus</i> (MRSA) (per 100,000 inhabitants)	
Share of total antibiotic consumption represented by the Access group		Incidence of bloodstream infections with third-generation cephalosporin-resistant <i>Escherichia coli</i> (per 100,000 inhabitants)	
Total antibiotic consumption in both primary care and the hospital sector, including care facilities (DDD per 1,000 inhabitants per day)			



## 2025-2028 National Action Plan targets

### Indicators

● Stable or positive trend
 ● Limited negative trend
 ● Marked negative trend

## Monitoring of the actionplan

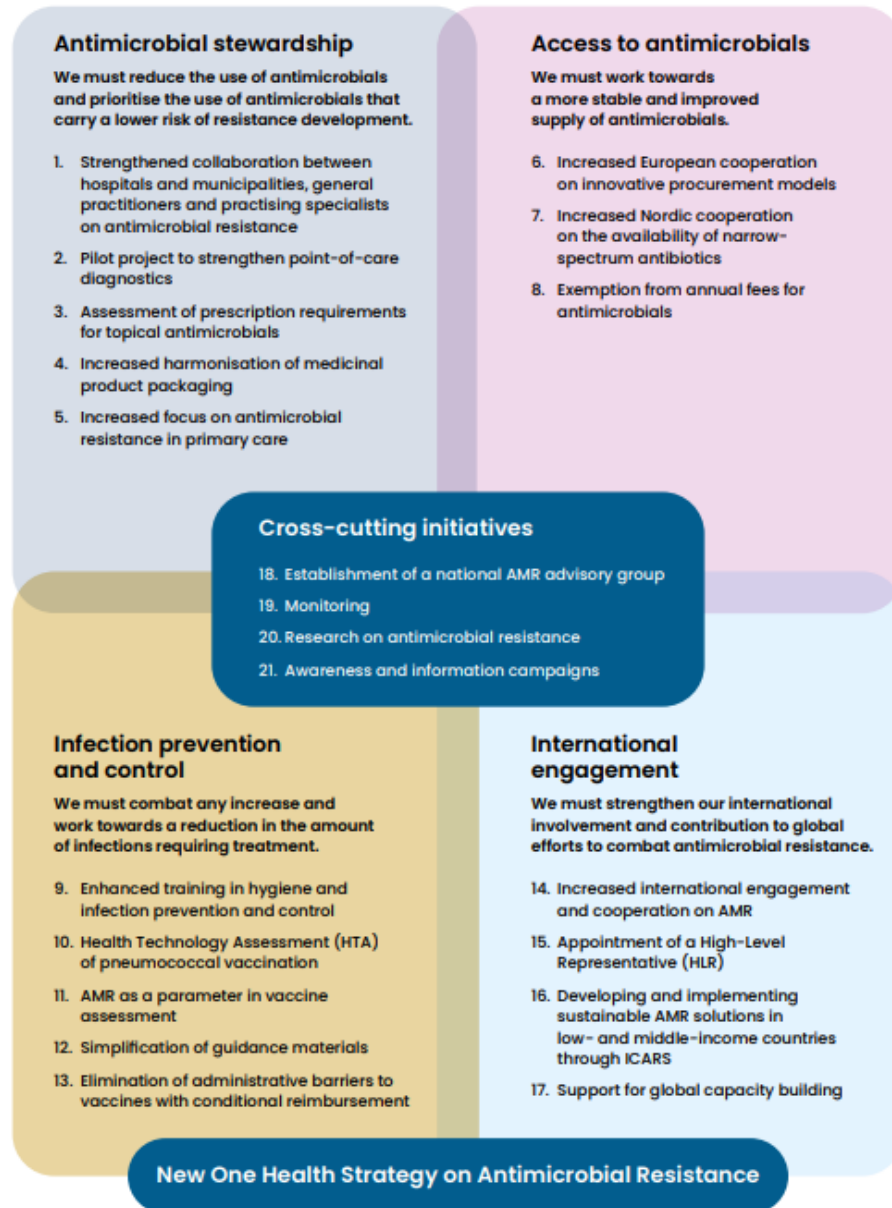
- To be anchored in the DANMAP report

## Establishment of **National AMR-advisory group**

- Cross-sectoral advisory group
- Involvement of a wide range of stakeholders
- Focus on implementation
- Patient perspectives to be included



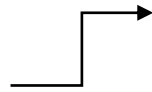
# National Action Plan 2025-2028



- Politically negotiated
  - Agreement between government and opposition parties
- Funded
  - The 2025 Finance Act allocates DKK 130 million to strengthen efforts against antimicrobial resistance in humans over a four-year period from 2025 to 2028.
- Prioritization of 21 specific initiatives within 4 focus areas:
  - Antimicrobial stewardship
  - Access to antimicrobials
  - Infection Prevention and Control
  - International engagement

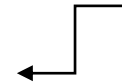
# One Health Strategy to be revised

Sector specific action plans



One Health strategy

Sector specific action plans



National action plan on antimicrobial resistance in humans

National handlingsplan mod antimikrobiel resistens hos dyr og fødevarer 2024-2027

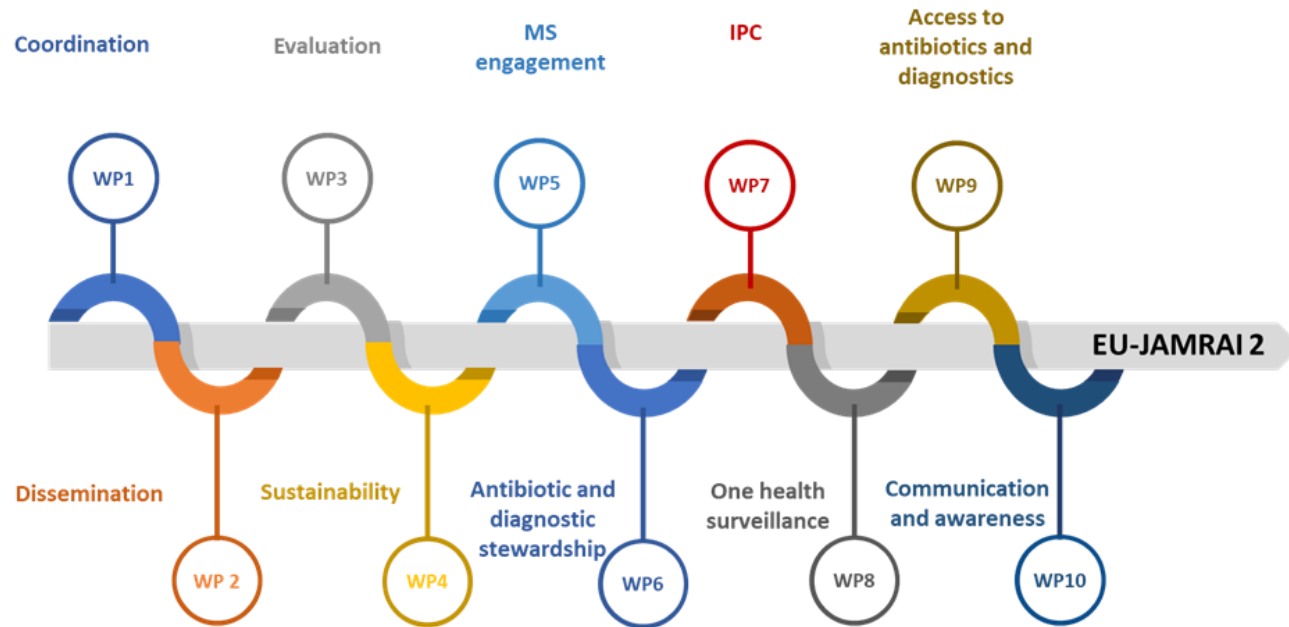
Response to the EU action plan on AMR from 2017 and EU Council recommendations from 2023

- **€50 million initiative** funded by the European Commission, **128 partners, 30 countries** EU-JAMRAI
- **Action 2024-2027**

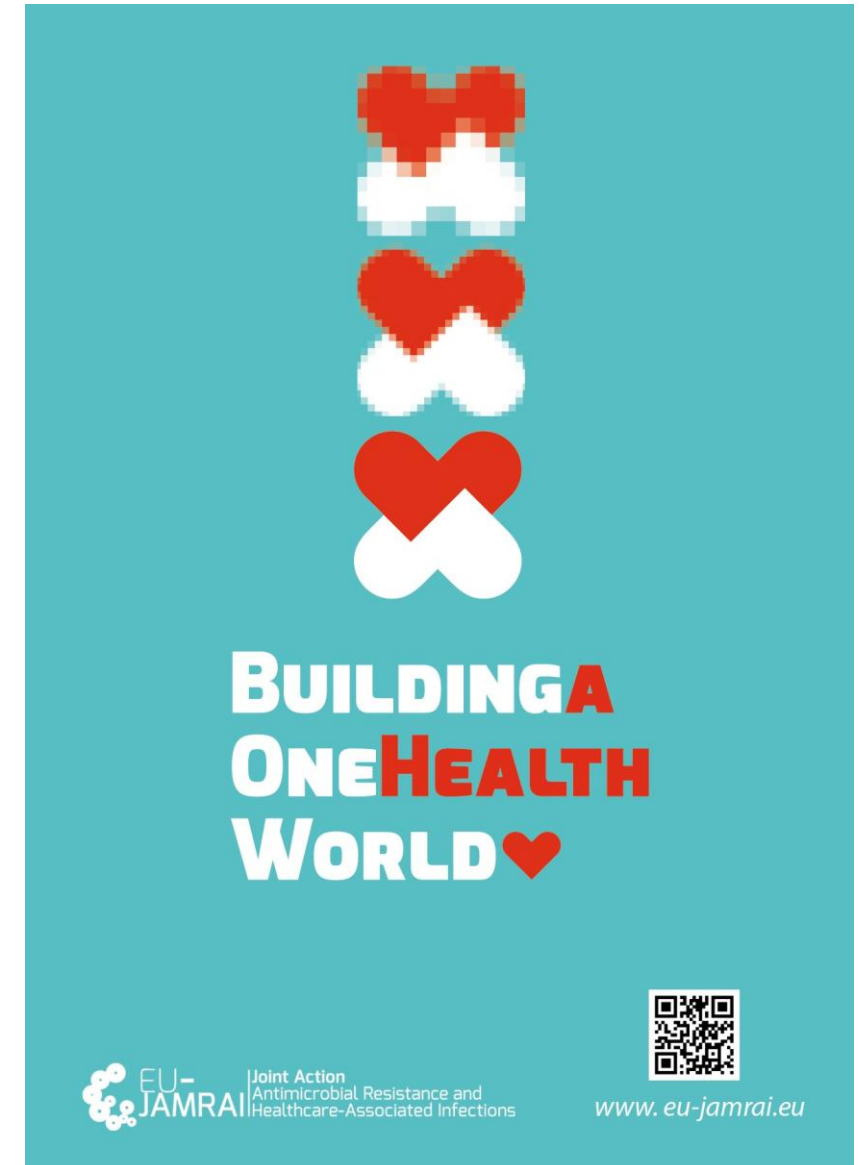
## Objectives

- Provide **direct and sizable support to help member states** in the development and the update of their NAP on AMR
- Strengthen core competencies and **support uptake of** Infection Prevention and Control (**IPC**), and Antimicrobial Stewardship (**AMS**) strategies
- **Strengthen responsiveness and coordination** of health systems to protect people from AMR in the Union, including ensuring access to antibiotics
- Promote the **One Health** approach
- **Increase awareness** and understanding of AMR across Europe

# EU-JAMRAI 2



*The 10 Work Packages from EU-JAMRAI 2*





# Danish partners in EU-JAMRAI2

## **Statens Serum Institut – Competent Authority**

WP 7 lead, WP7.1 - Infection prevention and control

WP5 - National actionplans, country engagement, One Health Policy Group

WP8.1 og WP8.2 - surveillance - human and veterinary sector

WP9: Acces to antimicrobials

## **Danish Health Authority**

WP5: National actionplans, country engagement, One Health Policy Group

WP6.1: Antimicrobial stewardship (AMS)

## **University of Copenhagen**

WP6.2 og WP6.3 Antimicrobial stewardship (AMS) - veterinary and environmental sector

WP8.2 Surveillance - veterinary sector

## **Danish Technical University (DTU)**

WP8.1 Surveillance – Human sector

WP7.2 Infectious disease hygiene - *veterinary sector*

## **Danish Veterinary and Food Administration**

Third party giving in-kind contribution

# EU-JAMRAI2 Deliverables

Work Package	Deliverable
WP5	Danish EU-JAMRAI liaison participates in the OH-AMR policy group aiming at strengthening the development and uptake of national actionplans in MS
WP5	Establishment and participation in a support-programme to assist member states on the development and implementation of national priorities
WP6.1	Development of a national framework to support AMS in the primary healthcare sector
WP7.1	Establishment of an online platform that collects and provides learning materials for knowledge sharing on infection prevention and control.
WP7.1	Update and revision of "kortlægning af kommunale hygiejneindsatser i Danmark"
WP7.4	Denmark is a partner in an implementation and intervention project on IPC, focusing on behaviour change. The Central Unit for Infection Control at SSI collaborates with Bispebjerg and Frederiksberg Hospitals on this project.
WP8.1	Development of learning materials to strengthen genotypic surveillance and outbreak management of antibiotic-resistant bacteria
WP8.2	Development of the EARS-VET manual - a protocol outlining methods and standards for monitoring antimicrobial resistance in pathogenic organisms in animals
WP8.2	Reporting of data to EARS-VET from antimicrobial susceptibility tests for pathogenic organisms in animals
WP9	Barrier analysis of supply difficulties for selected focus products (antibiotics) and proposals for interventions



# National Priorities in EU-JAMRAI 2



## National framework to support Antimicrobial Stewardship (AMS)

- A coherent national organization for AMS will enable improved management and prioritization of initiatives and highlighting AMS on the political agenda
- Developing AMS in primary care

## Strong focus on Infection Prevention and Control (IPC)

- IPC capacity building throughout the healthcare system
- Strengthening IPC in primary care
- Identifying solutions that are implementable and with documented effect

# Health Care Reform



- 17 new health councils
  - Tasked with strengthening the primary healthcare system, including political responsibility for the operation of hospitals, local planning of general practice and emergency nursing, as well as ensuring equal access to healthcare services
  - coordination across regions and municipalities, developing local healthcare plans
- New Public Health Act
  - Strengthening the foundation for preventive healthcare efforts across Denmark
  - New unit in the Danish Health Authority: **National sundhedsplan og folkesundhedslov**
- Sundhedsvæsenets Kvalitetsinstitut
  - Development of clinical guidelines
  - Assessment of treatment methods and health technology (i.e. POCT in general practice)
  - Operation of regional quality databases