



## One Health collaboration in Sweden

- to predict, prevent and control zoonosis and antibiotic resistance

Dr Lena Hellqvist Björnerot, CVO, Swedish Board of Agriculture Dr Alma Brolund, Public Health Agency of Sweden





# One Health collaboration in Sweden

- to predict, prevent and control zoonosis



Collaborative capacities needed within the OH system

Joint crisis management

Joint event management (routine)

Integrated disease/pathogen surveillance

Joint risk assessments

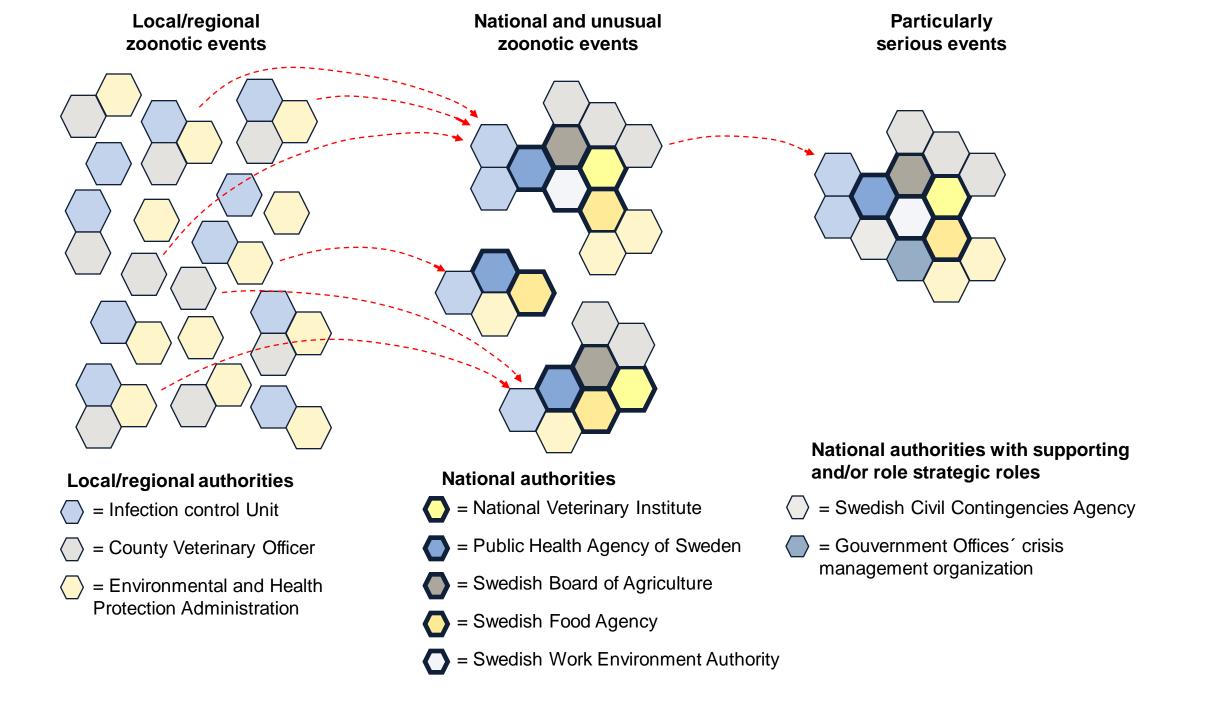
**Shared horizon scanning mechanisms** 

Common goals, strategies and priorities

Operational

**Tactical** 

Strategic



Collaboration groups on zoonosis between authorities in Sweden

Groups working at the 3 levels: Strategic, Outbreaks, Regular issues

### **Zoonosis** Council

"peace-time" forum with a strategic focus

Zoonossamverkansgrupp

crisis management function

000



National veterinary institute (SVA)

Public health agency of Sweden

Swedish food agency

Swedish board of agriculture

Work environment authority

Association of County medical officers

Association of County veterinary officers

Association of local authorities and regions

Swedish armed forces

National veterinary institute (SVA)

Public health agency of Sweden

Swedish food agency

Swedish board of agriculture

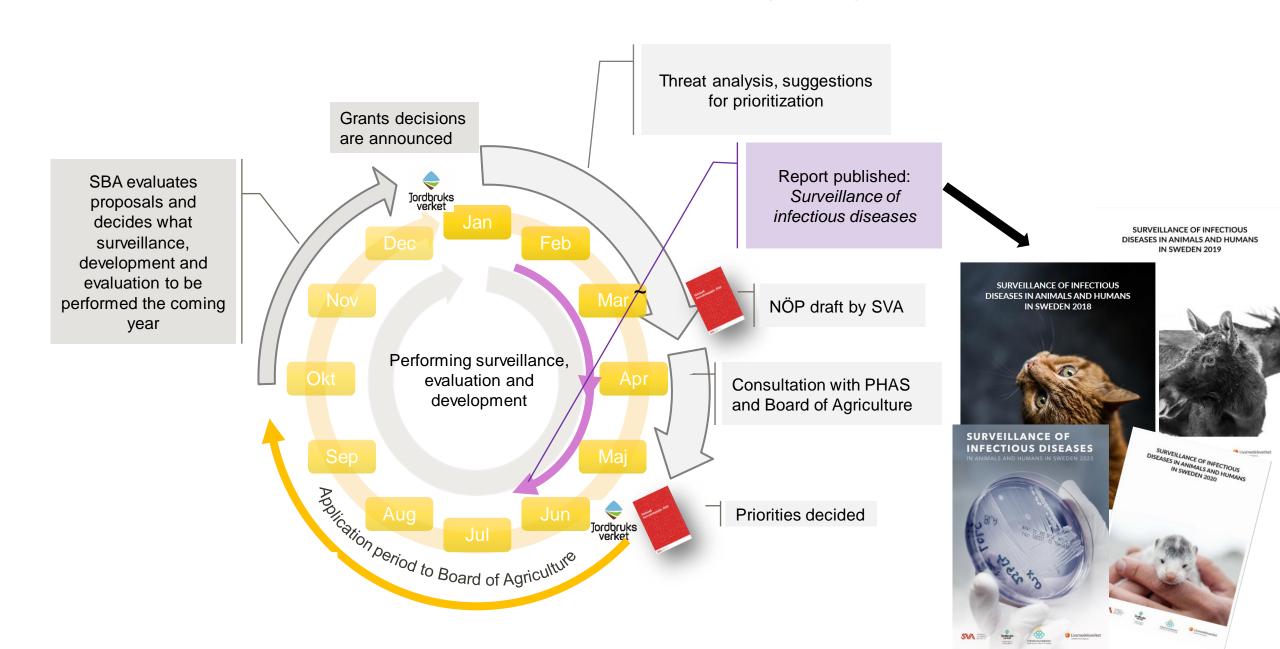
Work environment authority

Other authorities as deemed necessary

SUBU – for continuous exchange of information (primarily) regarding zoonotic outbreaks/incidents

National veterinary institute (SVA)
Public health agency of Sweden
Swedish food agency
Swedish board of agriculture

# National surveillance plan (NÖP) & The yearly surveillance report



## **Activities within collaboration groups on zoonosis**

## Strategic discussions and identification of needs

- Forming expert groups/working groups
- Collaborative projects
  - Campylobacter survey
  - Information for pregnant women
- -Common risk assessments
  - The most recent on highly pathogenic avian influenza

## Multisectoral training workshops on fictive outbreaks

-Joint handbook for outbreak investigations

## Challenges in OH collaboration on zoonosis

- Different actors have different missions/interests/legislation/tools
  - zoonotic diseases often not epizootic diseases, other legislation e.g. Campylobacter, Yersinia vs Salmonella
- Interests of the public and private sector may not match
  - Potential financial losses e.g. detection of Listeria in own checks, information sharing from voluntary control program for Campylobacter
- Trade and exchange at European level increase but surveillance & control may differ
  - Difficulties in tracing the source and recurrent outbreaks e.g. Salmonella in poultry and eggs





## Challenges in OH collaboration

- Legal constraints for sharing data
  - Sharing procedures often slow & very little metadata can be shared
- Information may have dead ends
  - Outcomes of investigations are not always reported back to all involved **Both a national and international issue what happened after?**
- No specific funding allocated, constraints in resources

Political engagement and coordination is needed for a long term strategy



of Agriculture

# Success factors for Swedish One Health Collaboration on Zoonosis



Collaboration, sharing information, dialogue

One Health prevention, surveillance & control

Commitment based on common needs, goal & priorities, willingness



Animal & human

Legislation

Knowledge, understanding of benefits, incentives

welfare, working enivronment





# One Health collaboration in Sweden

- to predict, prevent and control antibiotic resistance

### Overarching goal:

Preserve the possibility of effective treatment of bacterial infections in humans & animals



### **Prevention is Better than Cure**

Reduce the need

**Avoid spread** 

Remove unnecessary use

**Optimize use when treatment is needed** 

**Monitor resistance & use** 





**Healthy humans** and animals do not need antibiotics





# The Inter-sectoral Coordinating Mechanism (ICM) to combat antibiotic resistance

- Coordinated by
  - Public Health Agency of Sweden
  - Swedish Board of Agriculture







Preserve the possibility of effective treatment of bacterial infections in humans & animals



PUBLIC HEALTH AGENCY OF SWEDEN

## **Inter-sectoral Coordinating Mechanism (ICM)**



Swedish Board of Agriculture

25 governmental agencies and organizations

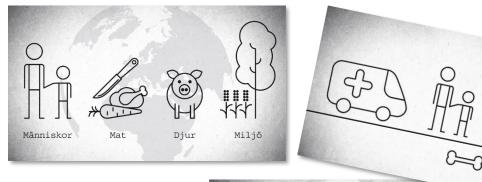
(9 in core group)

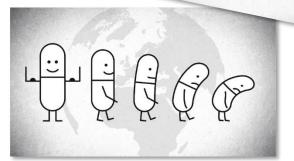
Collaboration
across
human health,
animal health,
environmental
health, and food
safety sectors

Coordinates
national efforts,
monitor
progress,
adjusts
strategies

### **Activities within ICM**

- Cross-sectoral action plan
  - Developed jointly by all actors in the ICM
  - -The action plan has a clear One Health focus
  - -Current version applies for the period 2021-2024 Recently prolonged to 2025
- Coordination of joint One Health country visit by ECDC/SANTE-F for evaluation of the Swedish work
- Coordination on international issues
  - -TrACSS (tracking AMR Country Self-assessment Survey)
- Antibiotic forum
- Joint communication <a href="https://saveantibiotics.se/">https://saveantibiotics.se/</a>



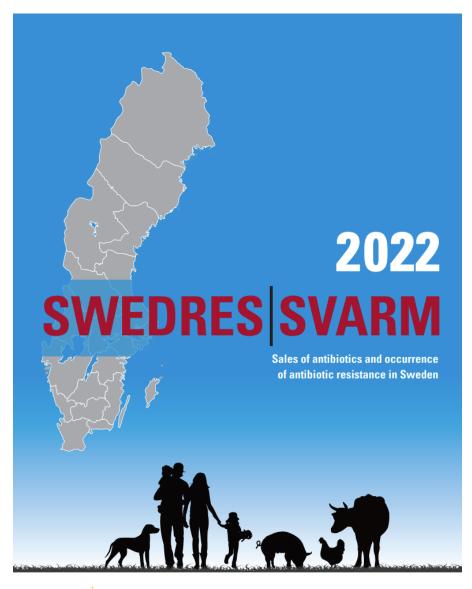




### Communication of surveillance data

## Common yearly report

- Holds statistics on antibiotic sales and antibiotic resistance in bacteria from both humans and animals
- The report is a co-production between the Public Health Agency of Sweden (PHAS) and the National Veterinary Institute (SVA)
- This report is mainly aimed at professionals







### **Swedish success factors**



- Continuous work, with political and legislative support
- Consensus and cooperation locally, regionally and nationally, within and between sectors – the ICM is truly inter-sectoral
- Disease prevention healthy people & animals do not need antibiotics
- Transparent & reliable data for action and monitoring, incl.
   benchmarking of data on antibiotic consumption and feedback
- Active involvement in international efforts

## **Challenges**

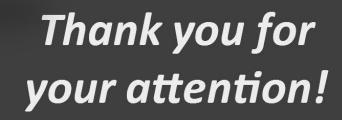
- Changes in animal production
- Collaboration is time-consuming
- Administrative load
- Maintaining structure and commitment
- Constraints in resources
- A changing world...



It is challenging but possible to make a significant impact against AMR and zoonosis









## Thank you

Stay up to date by visiting our website

www.fohm.se/phas

www.jordbruksverket.se





# **Antibiotic consumption in Sweden**

Animal use vs human use

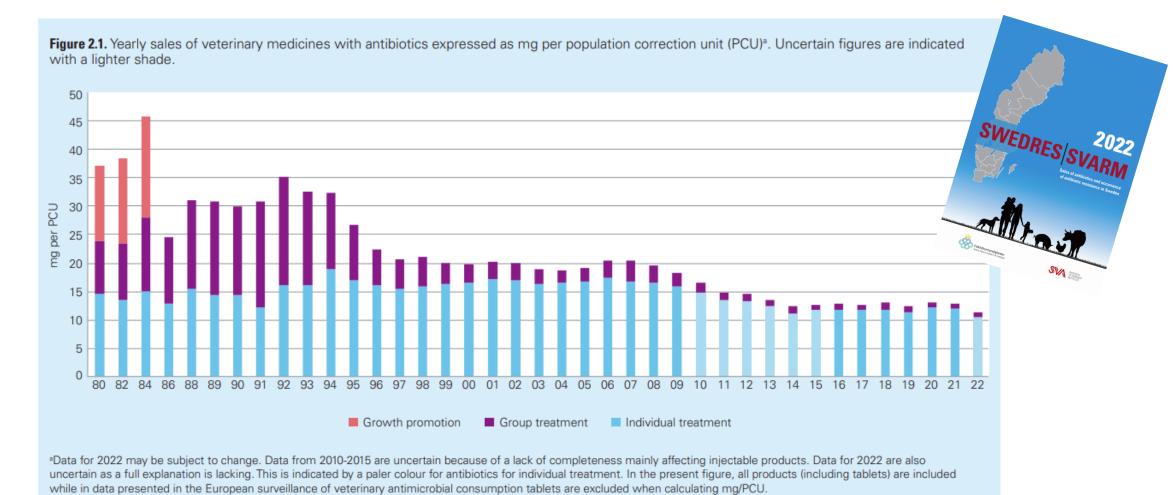






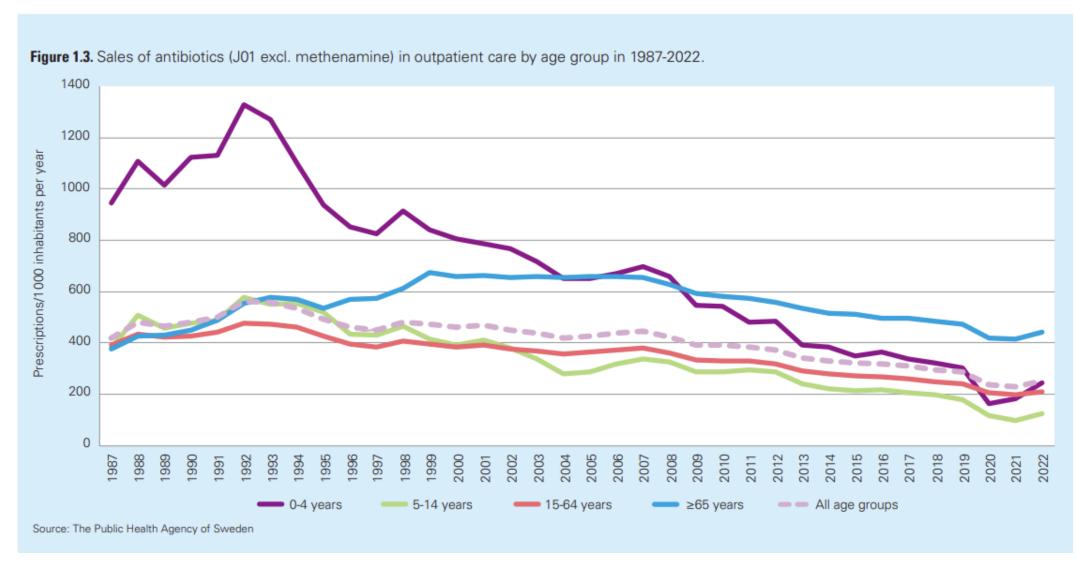


# Sales of prescriptions for animal use 1980 - 2022





## Sales of prescriptions for human use 1987-2022





## National target outpatient care

