

# WE WORK TOGETHER TO FIGHT ANTIBIOTIC RESISTANCE KEEPING EUROPEANS HEALTHY

European  
Medicines Agency  
(EMA)

European Centre for  
Disease Prevention  
and Control (ECDC)

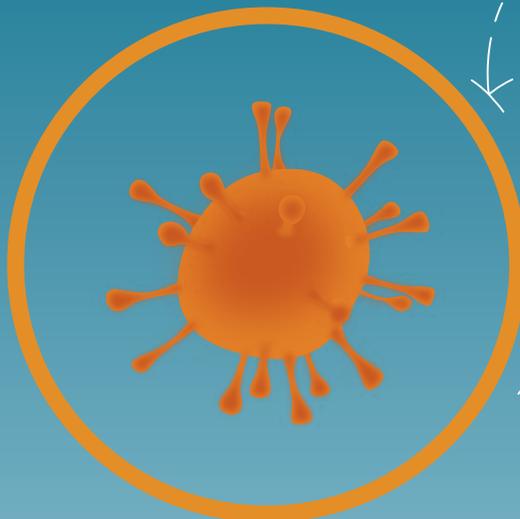
European Food  
Safety Authority  
(EFSA)

European  
Environment Agency  
(EEA)

Together we keep Europeans  
healthy by **ensuring**  
antibiotics remain effective.

## ANTIBIOTIC RESISTANCE

More and more bacteria  
are becoming **resistant**  
to antibiotics.



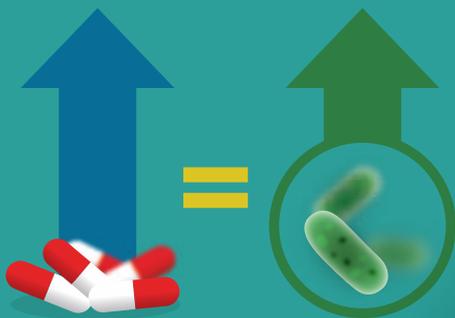
Existing antibiotics may  
become **ineffective**, and  
there are **few new**  
**antibiotics** entering the  
market, posing a **serious**  
**risk to public health.**



# WE TURN DATA INTO EVIDENCE FOR RATIONAL POLICYMAKING

Our information feeds into the European Commission's **action plan** to **tackle antibiotic resistance** in Europe and across the world.

**Our work** has helped to **confirm**:



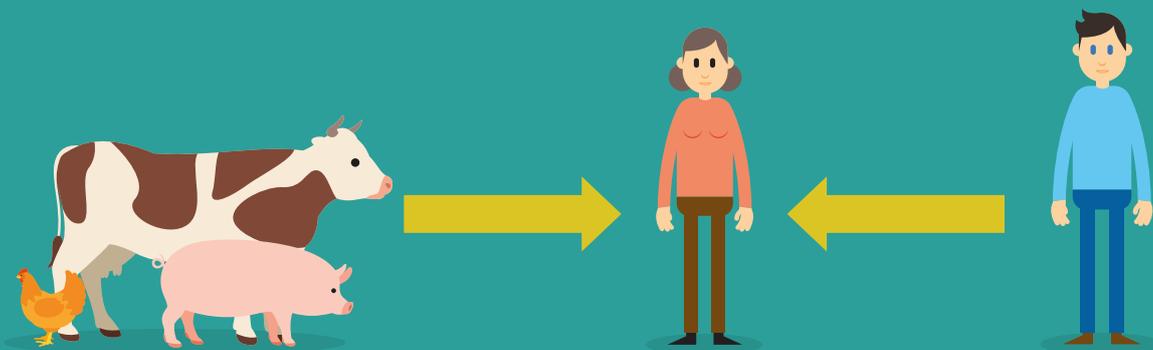
An **increase in antibiotics use** = increase in **resistant bacteria**.



There are **important differences** between EU countries in the amount of antibiotics people and animals consume.

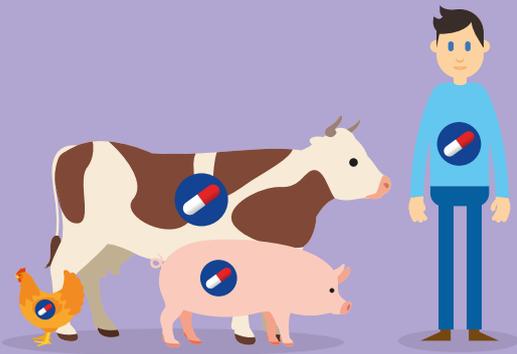


Antibiotic resistance can spread from **animals to people**, e.g. via food, and from **person to person**.



In countries where food-producing animals carry **Salmonella** or **Campylobacter bacteria** that are resistant to antibiotics, these antibiotic-resistant bacteria can be **passed to people through food**.

# WHO MONITORS WHAT?

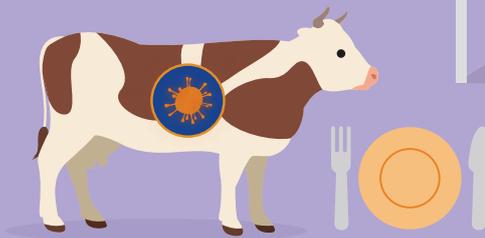
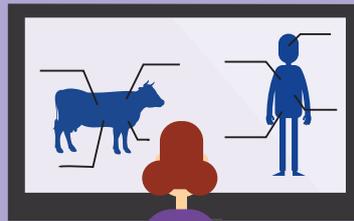


EUROPEAN MEDICINES AGENCY

animal consumption of antibiotics, side effects in humans and animals and development of new antibiotics



human consumption of antibiotics and antibiotic resistance in bacteria found in humans



antibiotic resistance in bacteria found in food-producing animals and food for humans



environmental residues of pharmaceuticals, which include antibiotics

## Where?

32 European countries

## How?

The agencies pool the data, monitor and analyse the information.

This work provides a Europe-wide overview.



# WE SUPPORT RESEARCH AND INNOVATION

We encourage the development of:



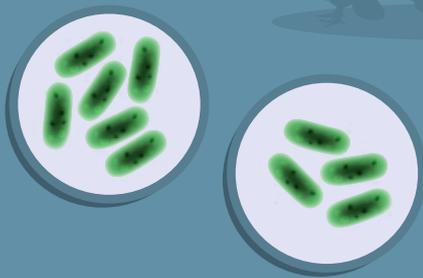
**new antibiotics** and  
**alternative** treatment  
approaches



**new vaccines** to  
prevent infections



**better understanding**  
of how resistance is  
transmitted in the  
**environment**



new ways to  
**diagnose** infections



**training** for farmers



advanced animal  
**husbandry** practices

# HOW DO YOU FIT IN?

## ONE HEALTH



**healthcare professionals and patients** – responsible for the prudent use of antibiotics in people

**animal health professionals, farmers and pet owners** – responsible for the prudent use of antibiotics in animals

**EUROPEAN  
ANTIBIOTIC  
AWARENESS DAY**



A EUROPEAN  
HEALTH INITIATIVE

**18 NOVEMBER EVERY YEAR**

Brings EU and international partners together to raise awareness and create change for prudent use of antibiotics.

<http://antibiotic.ecdc.europa.eu>

**ECDC**

[www.ecdc.europa.eu/en/antimicrobial-resistance](http://www.ecdc.europa.eu/en/antimicrobial-resistance)

**EFSA**

[www.efsa.europa.eu/en/topics/topic/antimicrobial-resistance](http://www.efsa.europa.eu/en/topics/topic/antimicrobial-resistance)

**EEA**

[www.eea.europa.eu/themes/human/intro](http://www.eea.europa.eu/themes/human/intro)

**EMA**

[www.ema.europa.eu/antimicrobial-resistance](http://www.ema.europa.eu/antimicrobial-resistance)



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