



健康  
畜禽

Healthy  
Livestock

The **Schippers** Group

**Welcome**  
**to the**  
**Healthy Livestock &**  
**The Schippers Group**  
**meeting on reducing**  
**the use of antimicrobials**



Hans Spooler

Wageningen University and Research

(on behalf of Healthy Livestock Core Team & partners)



WAGENINGEN  
UNIVERSITY & RESEARCH



Ministry of Science  
& Technology

Funded  
by:



Horizon2020

# Main objective of HealthyLivestock

- **to reduce the use of antimicrobials** applied by the pig and broiler industry in China and Europe, and the subsequent residues in the food chain and the environment.....
- .... **by improving on-farm animal health & welfare** without compromising productivity.

[healthylivestock.net](http://healthylivestock.net)  
[healthylivestock.net.cn](http://healthylivestock.net.cn)

HealthyLivestock  
Tackling Antimicrobial Resistance through improved livestock Health & Welfare

RF 3-68-2017

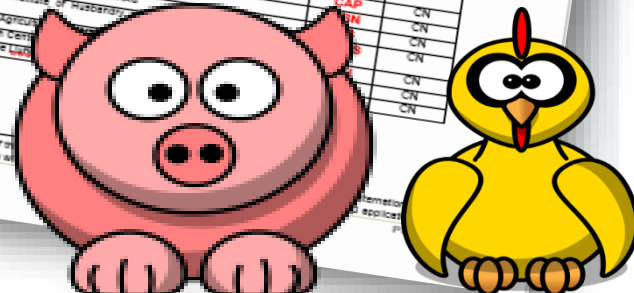
List of EUROPEAN participants

Partn. No	Participant legal name	Short name	Country
1 (Lead)	Wageningen Research	WUR	NL
2	Wageningen University	WU	NL
3	Centre for Agricultural Publishing and Education - C.A.P.E. Ltd.	CAPE	IT
4	Federazione Nazionale Zootecnici - F.N.Z.	FNZ	IT
5	Federazione Nazionale Zootecnici - F.N.Z.	FNZ	IT
6	Federazione Nazionale Zootecnici - F.N.Z.	FNZ	IT
7	Federazione Nazionale Zootecnici - F.N.Z.	FNZ	IT
8	Federazione Nazionale Zootecnici - F.N.Z.	FNZ	IT
9	Federazione Nazionale Zootecnici - F.N.Z.	FNZ	IT
10	Federazione Nazionale Zootecnici - F.N.Z.	FNZ	IT
11	Federazione Nazionale Zootecnici - F.N.Z.	FNZ	IT
12	Federazione Nazionale Zootecnici - F.N.Z.	FNZ	IT
22	Federazione Nazionale Zootecnici - F.N.Z.	FNZ	IT

List of CHINESE participants

Partn. No	Participant legal name	Short name	Country
13	Institute of Quality Standards & Testing Technology For Agro-Products of CAAS	IQSTAP	CN
14	China Association for the Promotion of International Agricultural Cooperation	CAPIC	CN
15	China Association for the Promotion of International Agricultural Cooperation	CAPIC	CN
16	China Association for the Promotion of International Agricultural Cooperation	CAPIC	CN
17	China Association for the Promotion of International Agricultural Cooperation	CAPIC	CN
18	China Association for the Promotion of International Agricultural Cooperation	CAPIC	CN
19	China Association for the Promotion of International Agricultural Cooperation	CAPIC	CN
20	China Association for the Promotion of International Agricultural Cooperation	CAPIC	CN
21	China Association for the Promotion of International Agricultural Cooperation	CAPIC	CN

\* Please note that for the purposes of this project, the budget for Zoete China is Confidential





[healthylivestock.net](http://healthylivestock.net)  
[healthylivestock.net.cn](http://healthylivestock.net.cn)



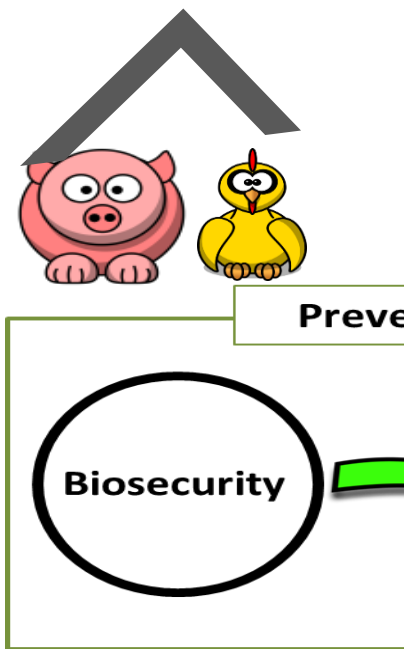


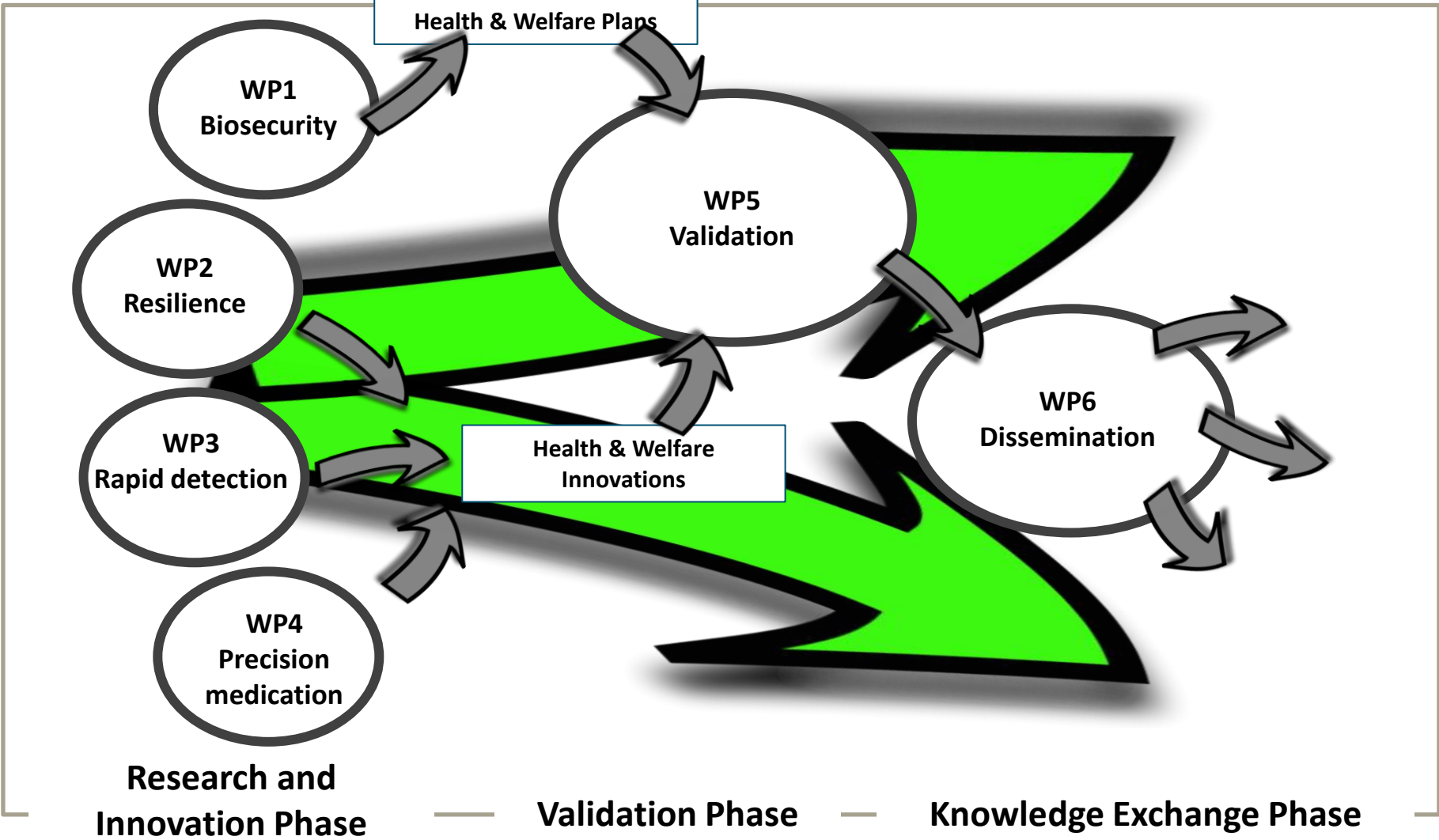
healthylivestock.net  
healthylivestock.net.cn

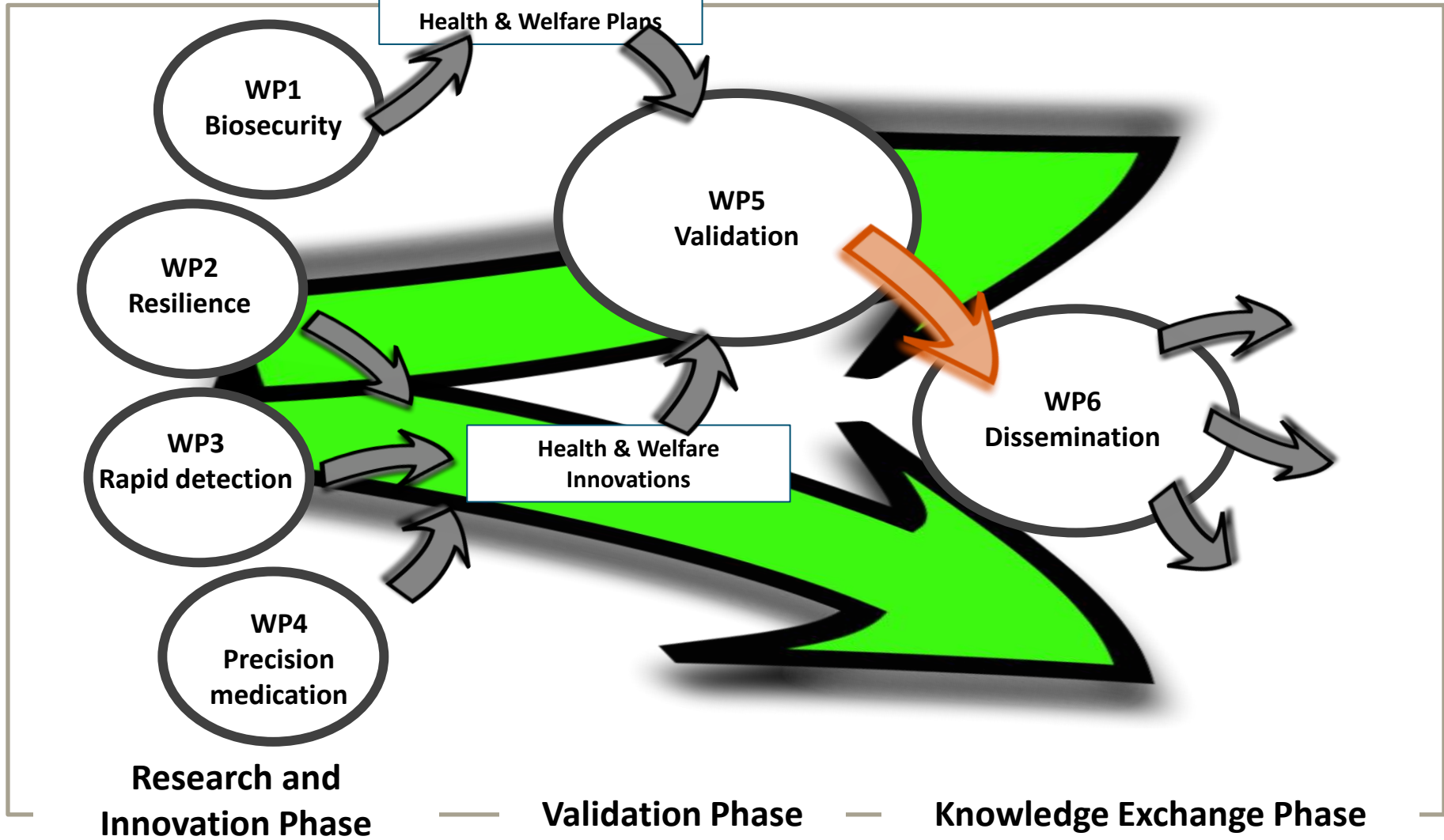


健康畜禽  
Healthy Livestock

# HealthyLivestock strategies







Health & Welfare Plans

WP1  
Biosecurity

WP2  
Resilience

WP3  
Rapid detection

WP4  
Precision medication

WP5  
Validation

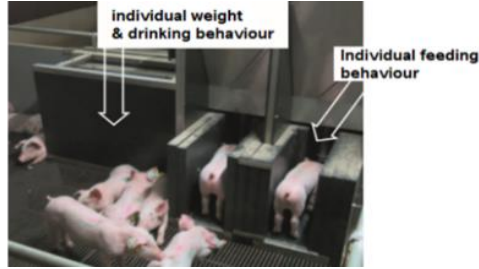
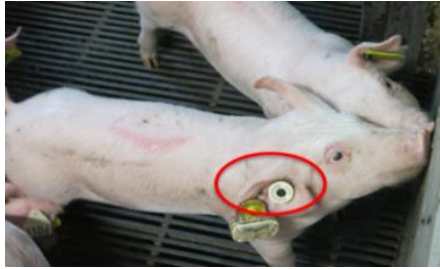
Health & Welfare Innovations

WP6  
Dissemination

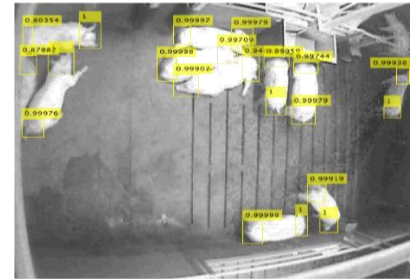
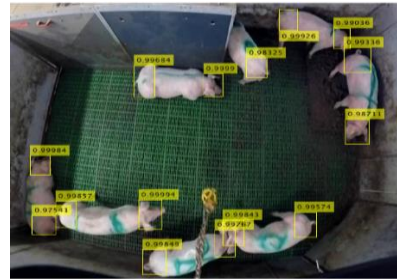
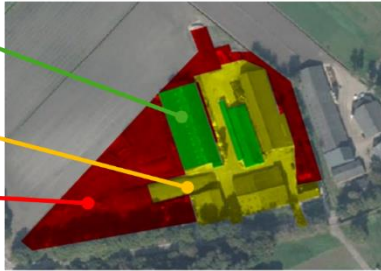
Research and Innovation Phase

Validation Phase

Knowledge Exchange Phase



- **Green zone** broiler house: clean, strictly isolated, restricted access
- **Orange zone** functional farm areas: biosecurity measurements to reduce contamination with 'foreign' manure
- **Red zone** external areas: (un-paved roads, ditches, pastures, .. ): high risks, but limited opportunity to act





# The Schippers Group

Let's beat AMR with HyCare

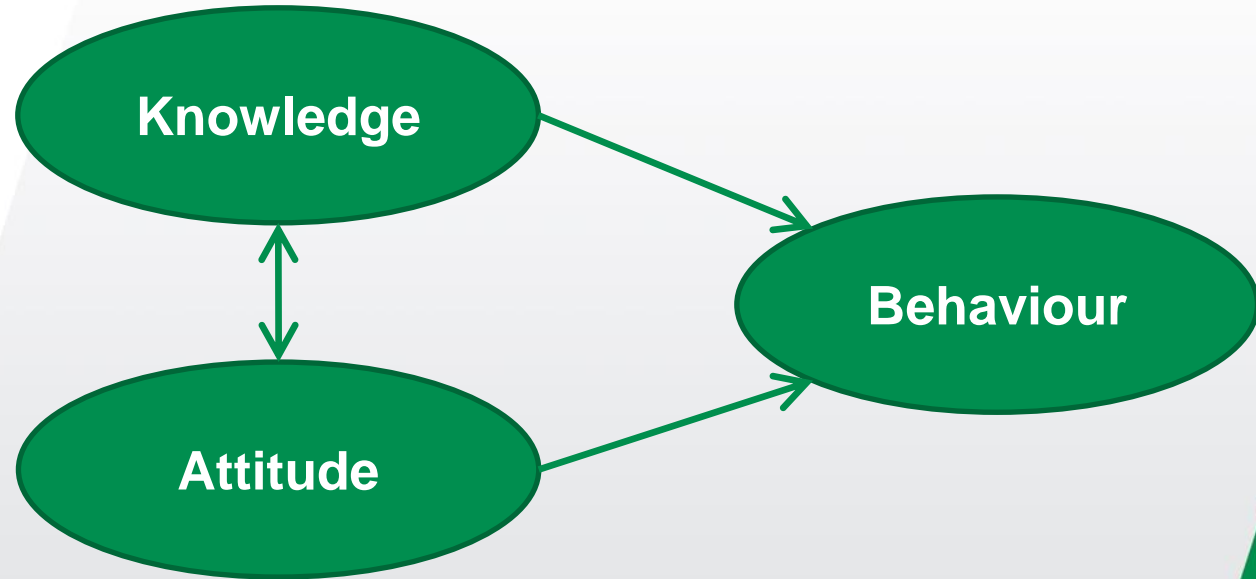


## Introduction from a business' perspective

**Joost van den Borne** Bologna, June 23<sup>rd</sup> 2022

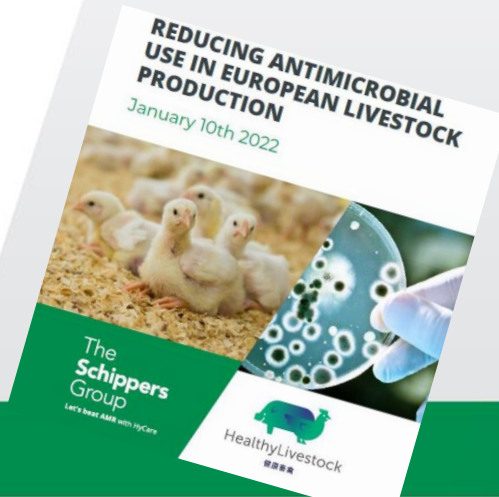
# From theory to practice

- Veterinary sciences
- Animal sciences
  
- Mindset
- Context



# Reducing AMU in European livestock

- Webinar January 10<sup>th</sup> 2022
  - >350 participants
  - 62 countries
  - [Link to webinar](#)  
(also via [www.healthylivestock.net](http://www.healthylivestock.net))



# Company characteristics

## Family business

From NL, since 1966

International livestock farming

>500 Employees

12 Offices world wide

Export to 90+ countries



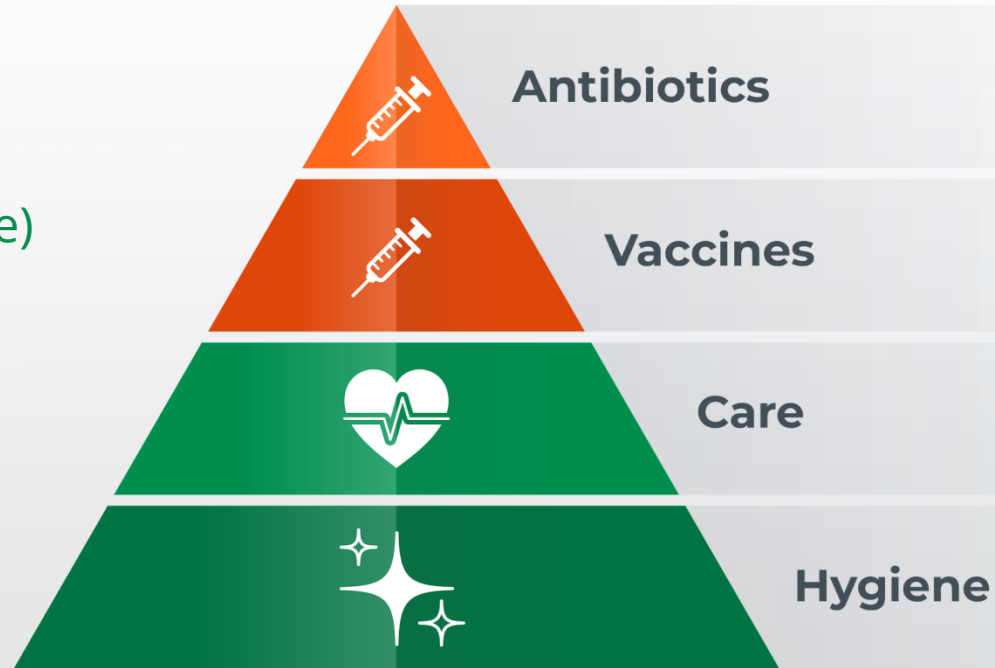
**Let's beat AMR**

with **HyCare**

# What is HyCare?

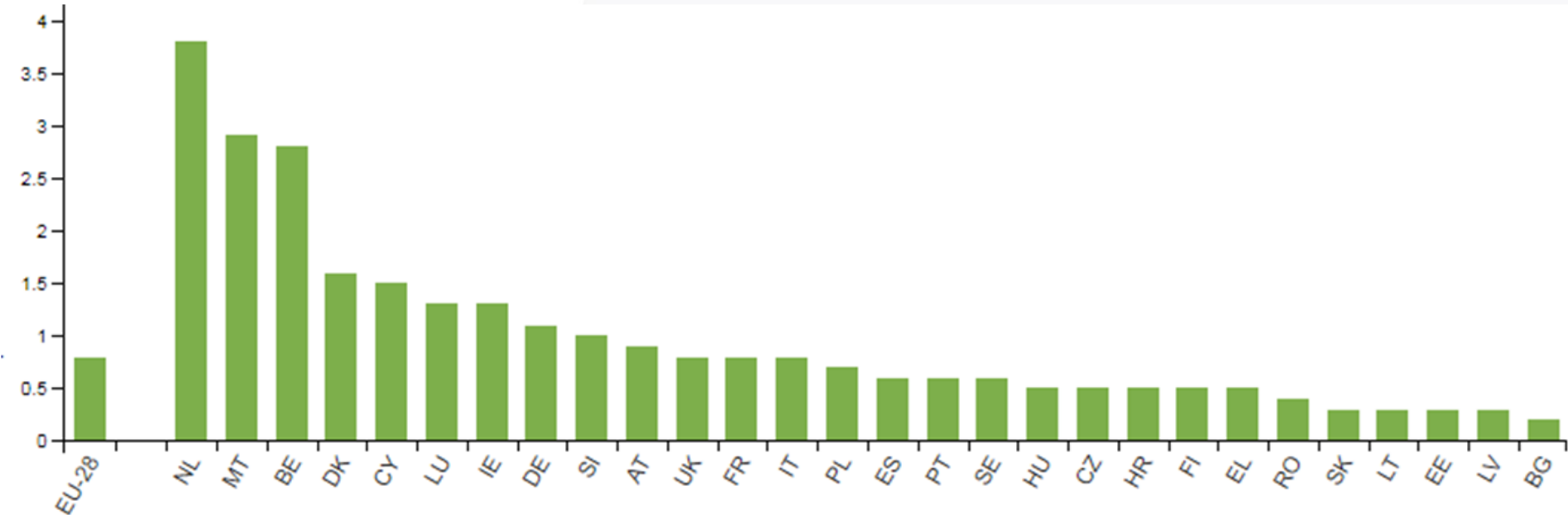
## *Our scope*

- Reducing infections (Hygiene)
- Enhancing resilience (Care)



# Challenges

## Livestock density in units per hectare arable land



# Challenges



- NPK cycles
- CO<sub>2</sub> footprint
- Land use
- Water
- Emissions
- Biodiversity



- Antibiotic resistance
- Zoonotic diseases
- Air quality
- Residues



- Natural behaviour
- Health
- Invasive treatments
- Transparency
- Perception

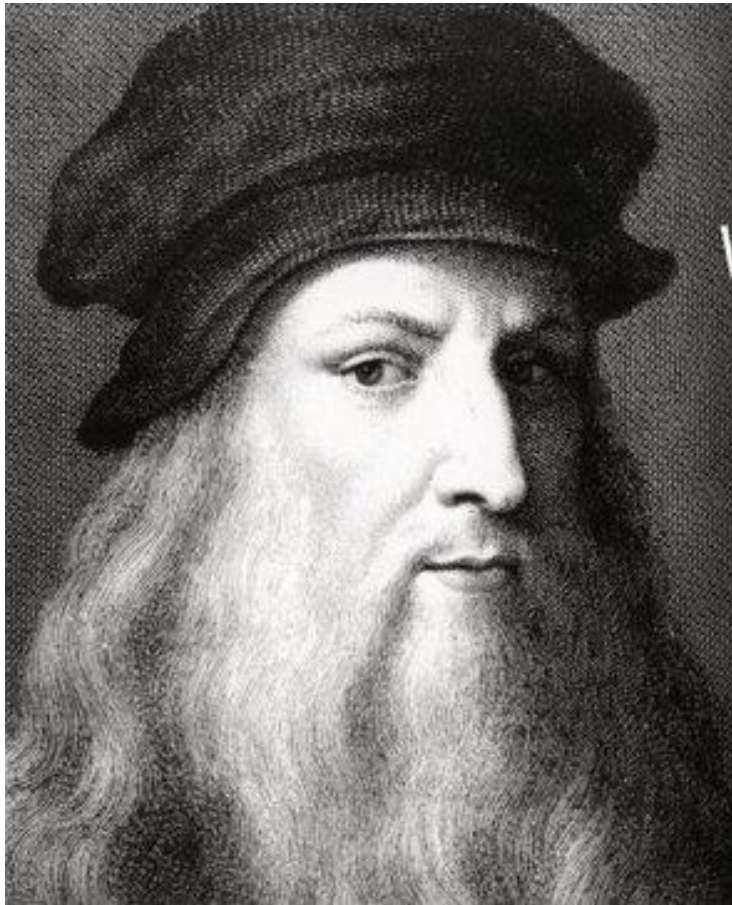


**Pigs**  
'Raamloop'

**Dairy**  
'Bladelse Hoef'

**Poultry**  
'Dalem'





I have been impressed  
with the urgency of doing.  
Knowing is not enough;  
we must apply. Being  
willing is not enough;  
we must do.

**LEONARDO DA VINCI**

# Program [1/4]

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- 09:50 Keynote lecture** Keith Sumption (FAO, IT)
- 10:15 Biosecurity session**
- 10:15 HL Project outcomes Paolo Ferrari (CRPA, IT)
  - 10:25 Pitches from industry and science
  - 10:40 Questions & discussion Kees de Roest (CRPA, IT)
- 10:55 Resilience session**
- 10:55 HL Project outcomes Bas Kemp (WUR, NL)
  - 11:05 Pitches from industry and science
  - 11:30 Questions & discussion Hans Spoolder (WUR, NL)
- 11:45 Coffee break**

# Program [2/4]

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## 12:00 Early detection session

- |       |                                   |                               |
|-------|-----------------------------------|-------------------------------|
| 12:00 | HL Project outcomes               | Ilias Kyriazakis (QUB, UK)    |
| 12:10 | Pitches from industry and science |                               |
| 12:20 | Questions & discussion            | Joost van den Borne (TSG, NL) |

## 12:35 Precise and alternative medication session

- |       |                                   |                                 |
|-------|-----------------------------------|---------------------------------|
| 12:35 | HL Project outcomes               | Alain Bosquet-Melou (INRAE, FR) |
| 12:45 | Pitches from industry and science |                                 |
| 13:15 | Questions & discussion Medication | Bas Kemp (WUR, NL)              |

## 13:30 Lunch + digital poster presentations

# Program [3/4]

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**14:30 Round table discussion** Moderator: Jan Vaarten (FVE, BE)

**15:00 Introduction to the thematic sessions** Joost van den Borne (TSG, NL)

**15:15 Thematic sessions – round 1**

**A. Regulation & surveillance & QA: a threat or opportunity?**

Moderator: Jan Vaarten (FVE, BE)

*Room: SALA ARCHIGINNASIO*

**B. Alternatives for antibiotics: do they exist and –if so– which are most promising?**

Moderator: Giovanni Guadagnini (FNOVI, IT)

*Room: SALA FELSINA*

**15:45 Coffee break**

# Program [4/4]

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**16:00 Thematic sessions – round 2**

**C. Prevention of disease: stockmanship or technical solution?**

Moderator: Paolo Ferrari (CRPA, IT)

*Room: SALA ARCHIGINNASIO*

**D. Early detection & precision medication: which novel techniques are feasible and robust in practice?**

Moderator: Ilias Kyriazakis (QUB, UK)

*Room: SALA FELSINA*

**16:30 Reception & digital poster presentations**

**17:00 Closure**

Aperitif & food in the venue