



WG2: Farm risk categorisation

Food Chain Information (FCI) and Harmonized Epidemiological Indicators (HEIs) as tool for risk categorisation of farms, background

Meemken, D.¹; Li, T.-T.¹; Langkabel, N.¹; Langforth, S.¹; Isbrandt, R.¹;
Oswaldi, V.¹; Sotiraki, S.²; Anastasiadou, S.²; Nesbakken, T.³

¹ Institute of Food Safety and Food Hygiene, School of Veterinary Medicine, Freie Universität Berlin, Germany

² Veterinary Research Institute, Hellenic Agricultural Organization (ELGO-DIMITRA), Greece

³ Department of Food Safety and Infection Biology, Norwegian University of Life Sciences, Norway

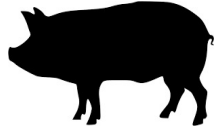
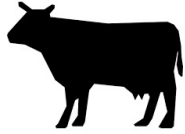
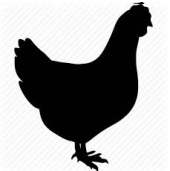
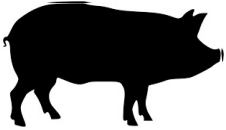
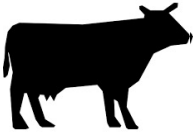
Core topics of WG 2

Food Chain Information (FCI):
Assessment & Improvements

Harmonised Epidemiological Indicators (HEIs):
Risk categorisation of farms

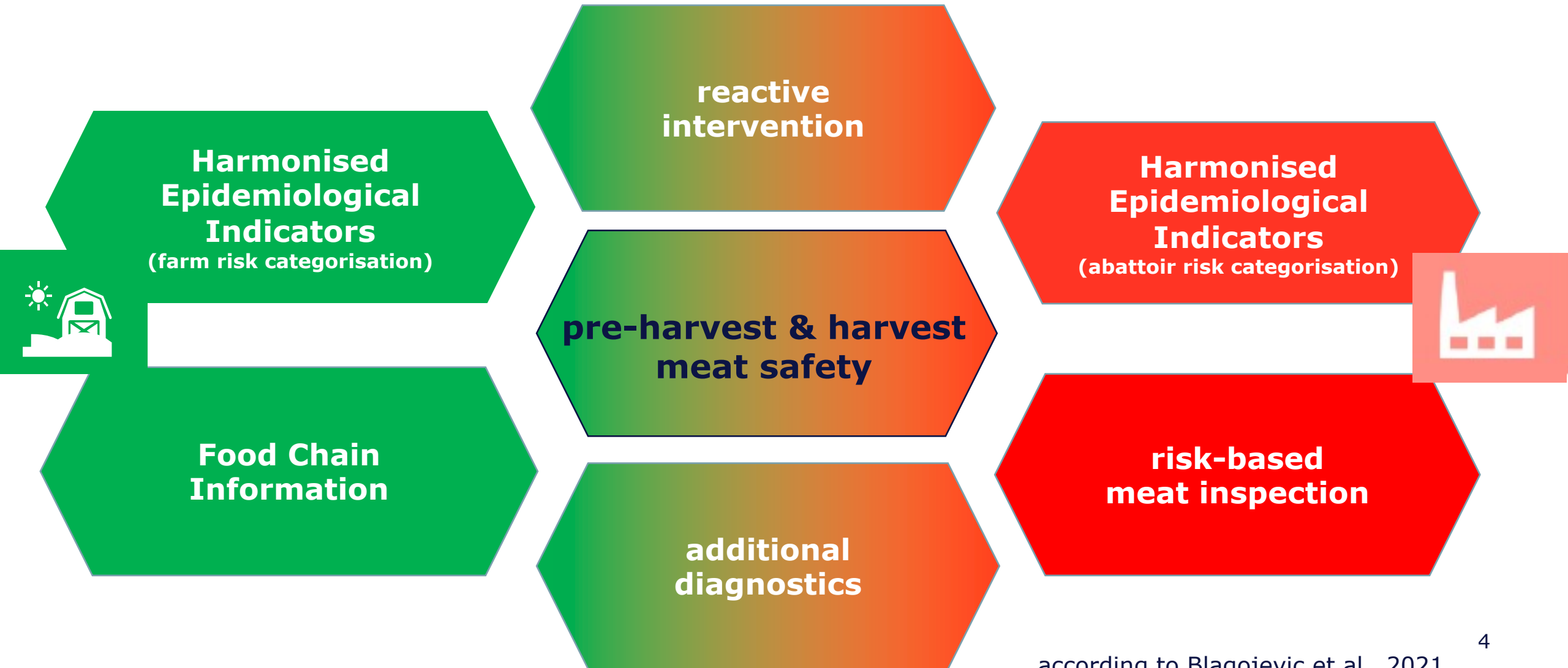
RIBMINS
main goal
„MEAT SAFETY“

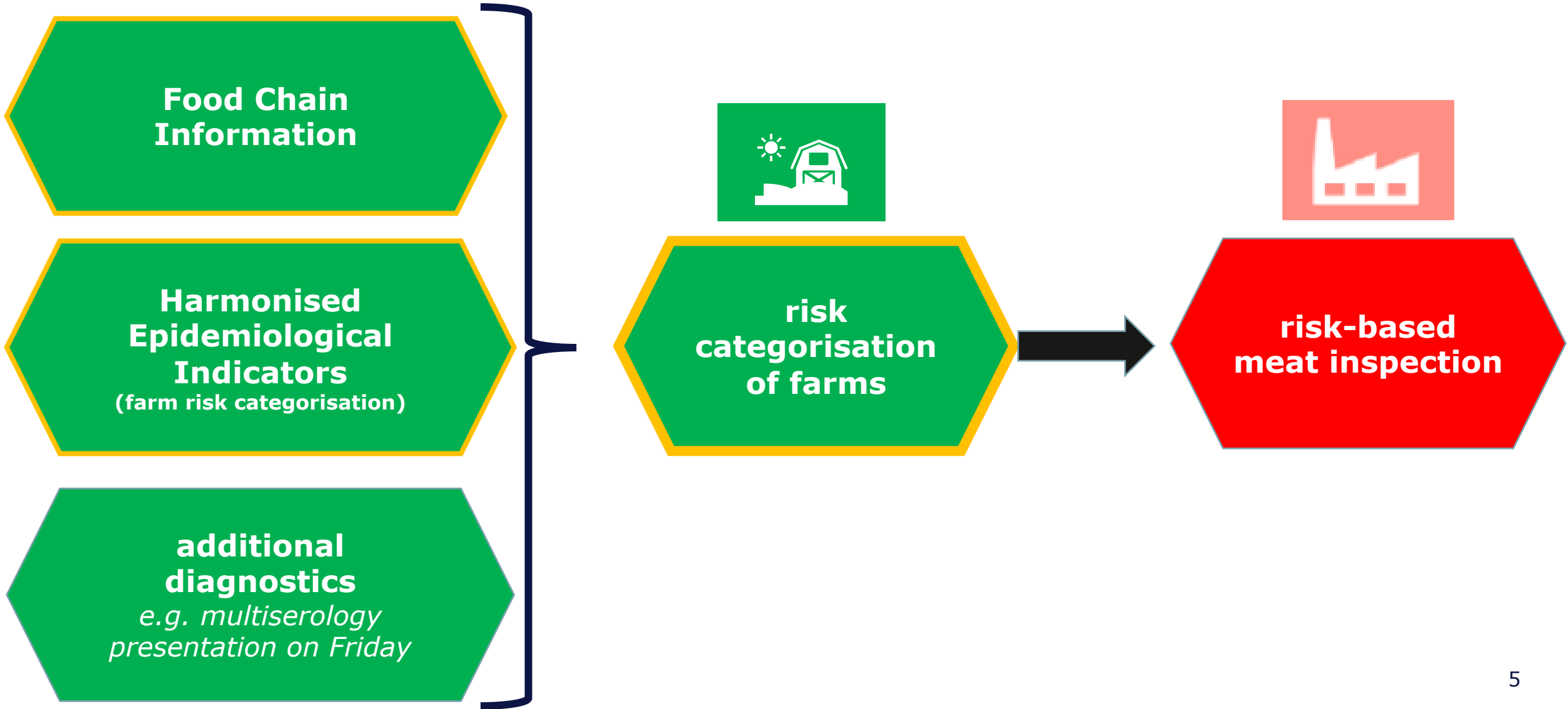
Pre-harvest Food Safety Interventions:
Assessment of effectiveness

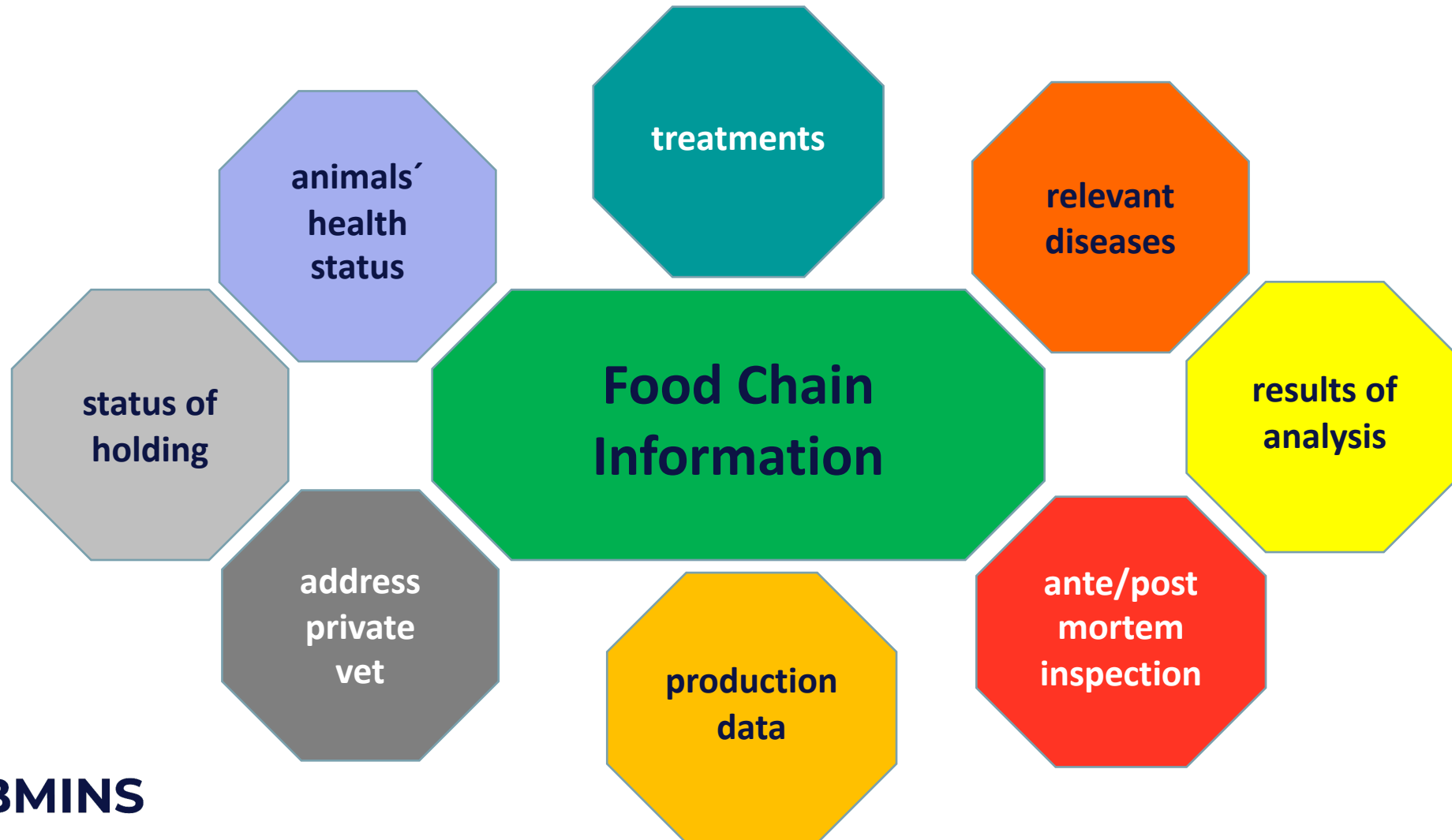


Key components of RB-MSAS


(RB-MSAS: Risk-Based Meat Safety Assurance System)







- a) “**status of holding** of provenance or **regional animal health status**” (with regard to notifiable diseases)
- b) “**animals’ health status**”
- c) “**veterinary medicinal products** or other treatments administered to the pigs within a relevant period of time and with a withdrawal period greater than zero, together with **their dates of administration and withdrawal periods**”
- d) “occurrence of **diseases that may affect the safety of meat**”
- e) “**results**, if they are relevant to the **protection of public health**, ...including **monitoring and control of zoonoses and residues**”
- f) “relevant reports about **previous ante- and post-mortem inspections**...in particular **reports from the official vet**”
- g) “**production data** that indicate the presence of disease”
- h) “**name and address of the private veterinarian** normally attending the holding of provenance”



international animal disease reporting systems ✓

- a) **“status of holding of provenance or regional animal health status”** (with regard to notifiable diseases)
- b) “animals’ health status”
- c) “veterinary medicinal products or other treatments administered to the pigs within a relevant period of time and with a withdrawal period greater than zero, together with their dates of administration and withdrawal periods”
- d) “occurrence of diseases that may affect the safety of meat”
- e) “results, if they are relevant to the protection of public health, ...including monitoring and control of zoonoses and residues”
- f) “relevant reports about previous ante- and post-mortem inspections...in particular reports from the official veterinarian”
- g) “production data that indicate the presence of disease”
- h) **“name and address of the private veterinarian normally attending the holding of provenance”** ✓

= 2 out of 8 parts of FCI are unambiguous and clear

**Which diseases?
Which indicators/parameters?
Which thresholds per parameter?**

- a) "status of holding of provenance or regional animal health status" (with regard to notifiable diseases)
- b) **"animals' health status"** **Treatments as indicator for herd health!**
What is the relevant period of time before slaughter?
- c) **"veterinary medicinal products** or other treatments administered to the pigs within a relevant period of time and with a withdrawal period greater than zero, together with their **dates of administration and withdrawal periods"**
- d) "occurrence of diseases that may affect the safety of meat"
- e) "results, if they are relevant to the protection of public health, including monitoring and control of zoonoses and residues"
- f) "relevant reports about previous ante- and post-mortem inspections...in particular reports from the official veterinarian"
- g) **"production data that indicate the presence of disease"** **Which indicators/parameters?
Which thresholds per parameter and per husbandry system?**
- h) "name and address of the private veterinarian normally attending the holding of provenance"

= information needed on „animal health in general“

Which diseases affect the safety of meat?

This may be beyond the knowledge of farmers, as farmers are mainly focused on productivity, not "safety"

a) "status of holding of provenance or regional animal health status" (with regard to notifiable diseases)

b) "animals' health status"

c) "veterinary medicinal products or other treatments administered to the pigs within a relevant period of time, together with their dates of administration and withdrawal periods"

d) "occurrence of **diseases** that may affect the **safety of meat**"

e) "**results**, if they are **relevant** to the **protection of public health**, ...including **monitoring and control of zoonoses and residues**"

Which zoonoses are relevant?

This may be beyond the knowledge of farmers, as they are mainly focused on productivity, not "safety"

Which reports are relevant?

**Which lesions need to be assessed during a.m and p.m. inspection?
Can the assessment be standardised?**

f) "**relevant reports** about **previous ante- and post-mortem inspections**...in particular **reports** from the **official veterinarian**"

= information needed on the occurrence of relevant zoonoses and residues

Survey within Europe
to determine the **status quo** and the **improvement proposals**
by Official vets (Ovs) and Food Business Operators (FBOs)
for pigs, bovines and broilers



**Food Chain
Information**

Survey within Europe
to determine the **status quo** and the **improvement proposals**
by Official vets (Ovs) and Food Business Operators (FBOs)
for pigs, bovines and broilers

Harmonised Epidemiological Indicators (HEIs)

according to EFSA, 2011, 2012, 2013

Prevalence or incidence of the hazard at a certain stage of the food chain that correlates to a human health risk caused by the hazard
&
Indirect measure of the hazard (such as audits on farms or transports)