



An Roinn Talmhaíochta,
Bia agus Mara
Department of Agriculture,
Food and the Marine

SMR 5 – Food / Feed Hygiene

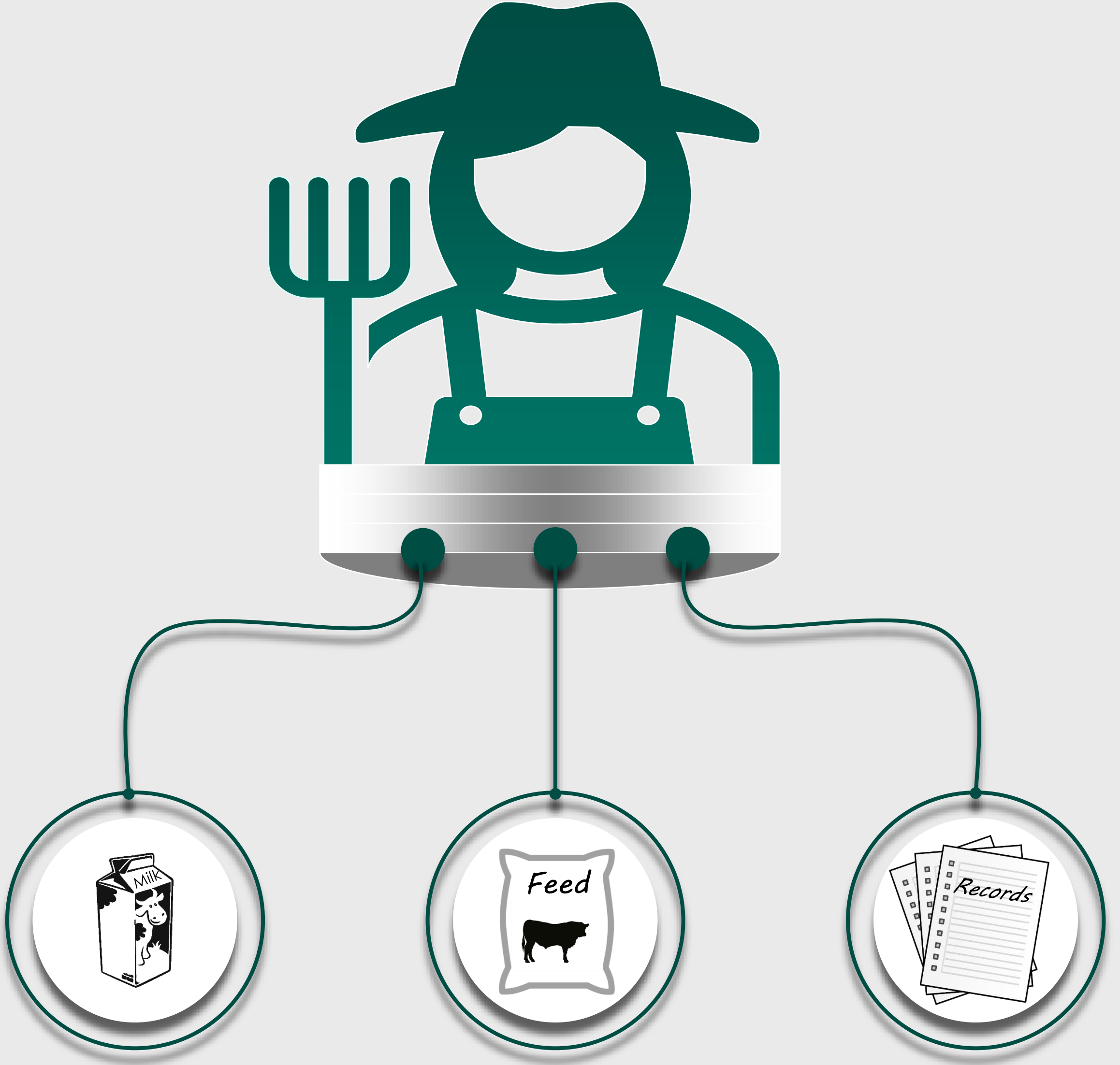
2023 FAS Briefing for New Advisers

Róisín Horan

Assistant Agricultural Inspector

Integrated Controls Division

Farmer Requirements

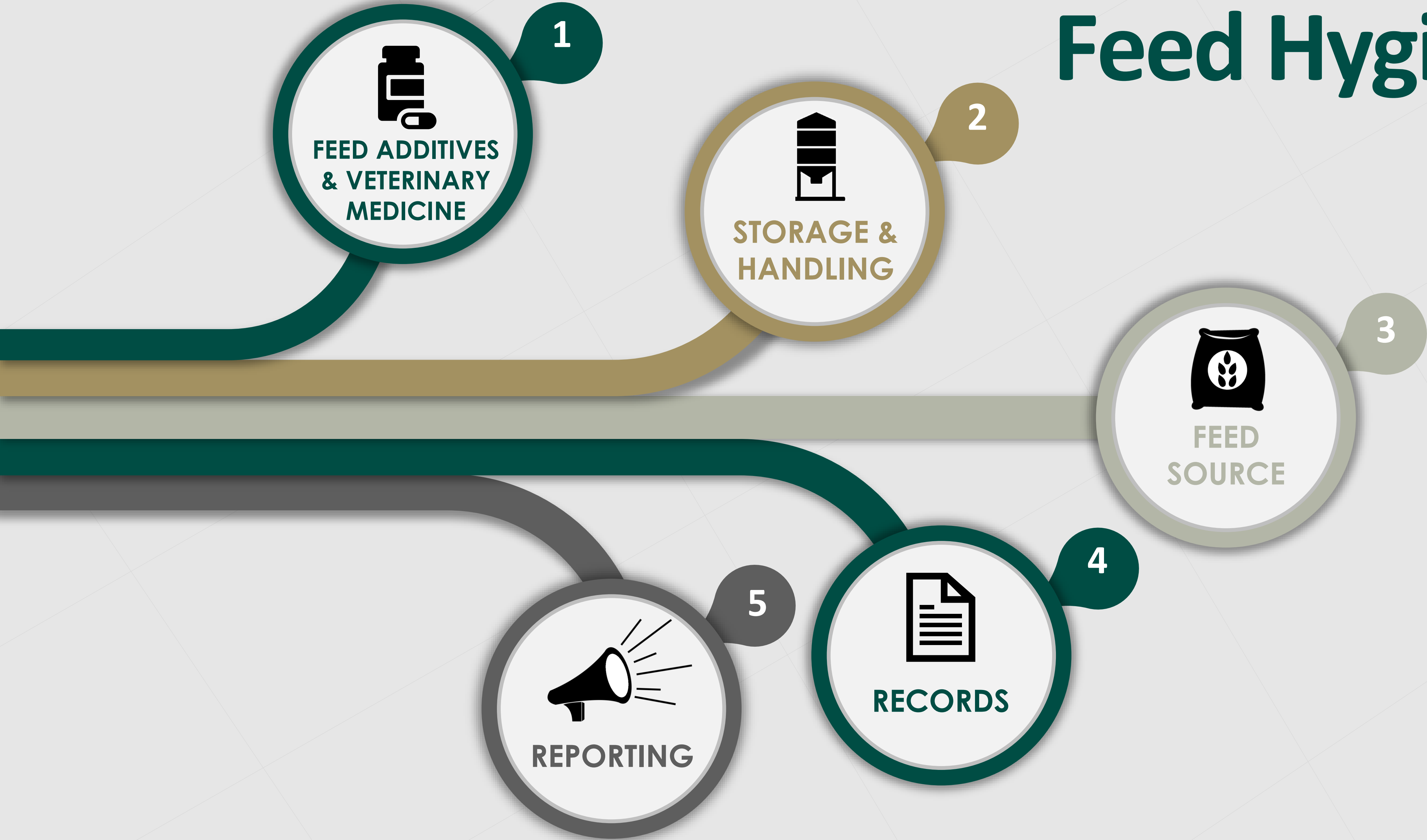


FOOD

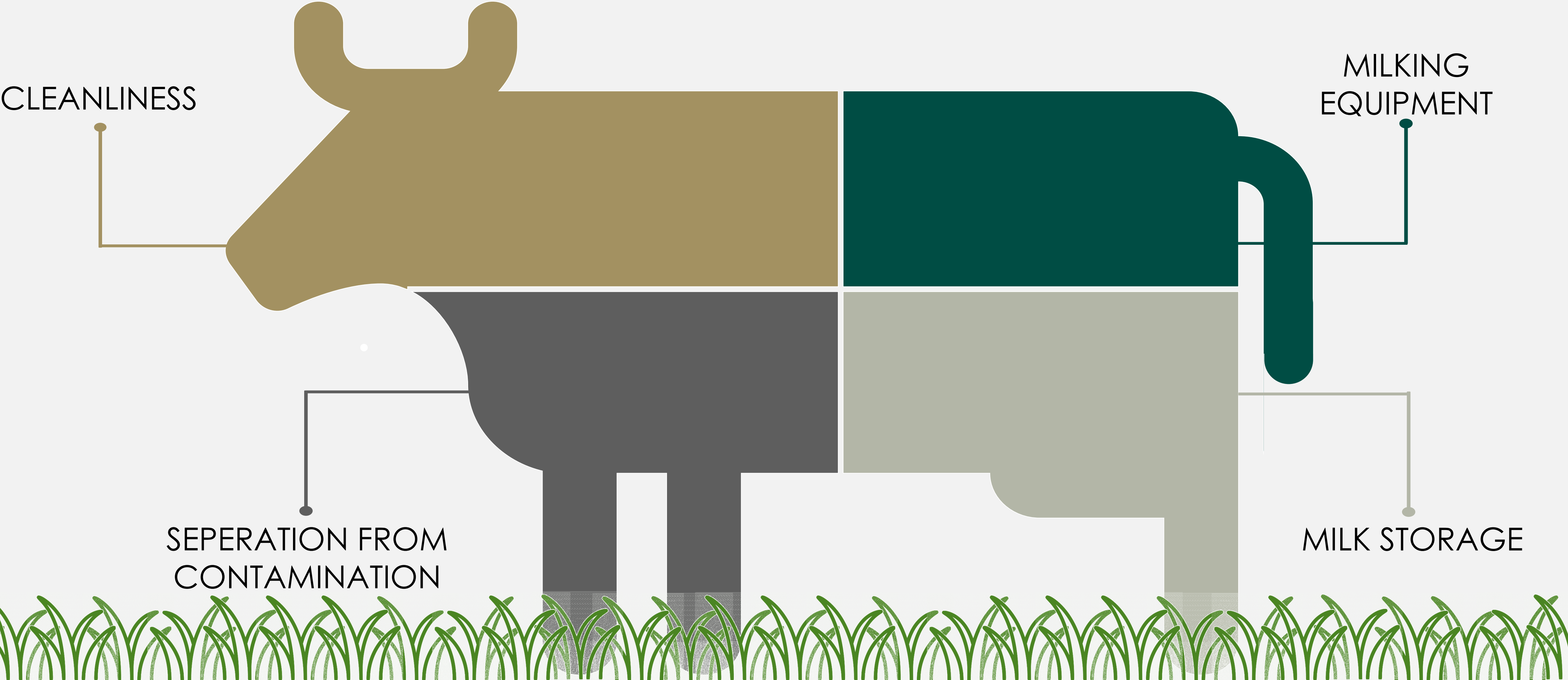
FEED

TRACEABILITY

Feed Hygiene



Dairy Hygiene



Cow Housing



Hygiene at Milking



Milk entering
the food chain



Unauthorised or
illegal substances

Effective Isolation



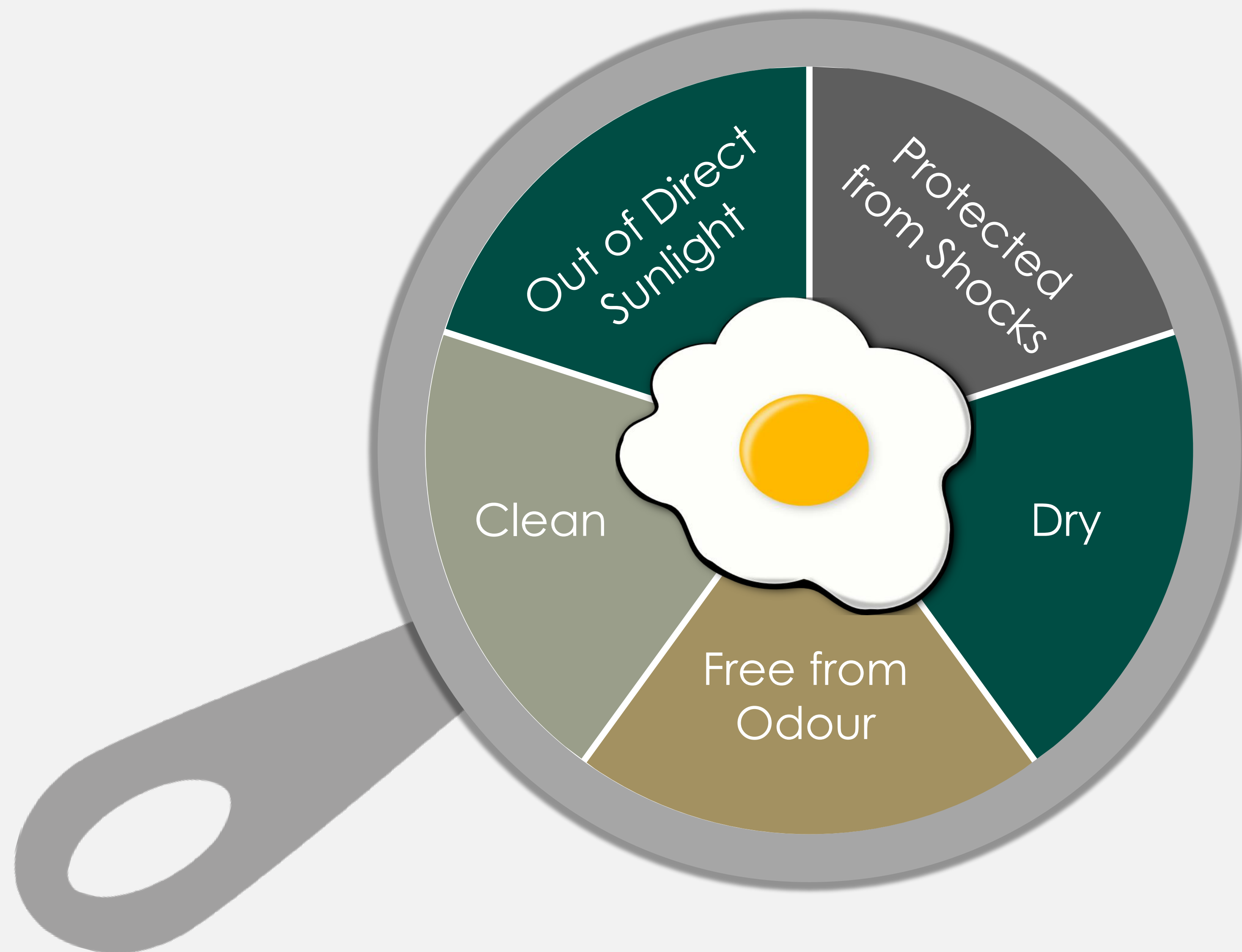
Milking Cleanliness

Animal Health

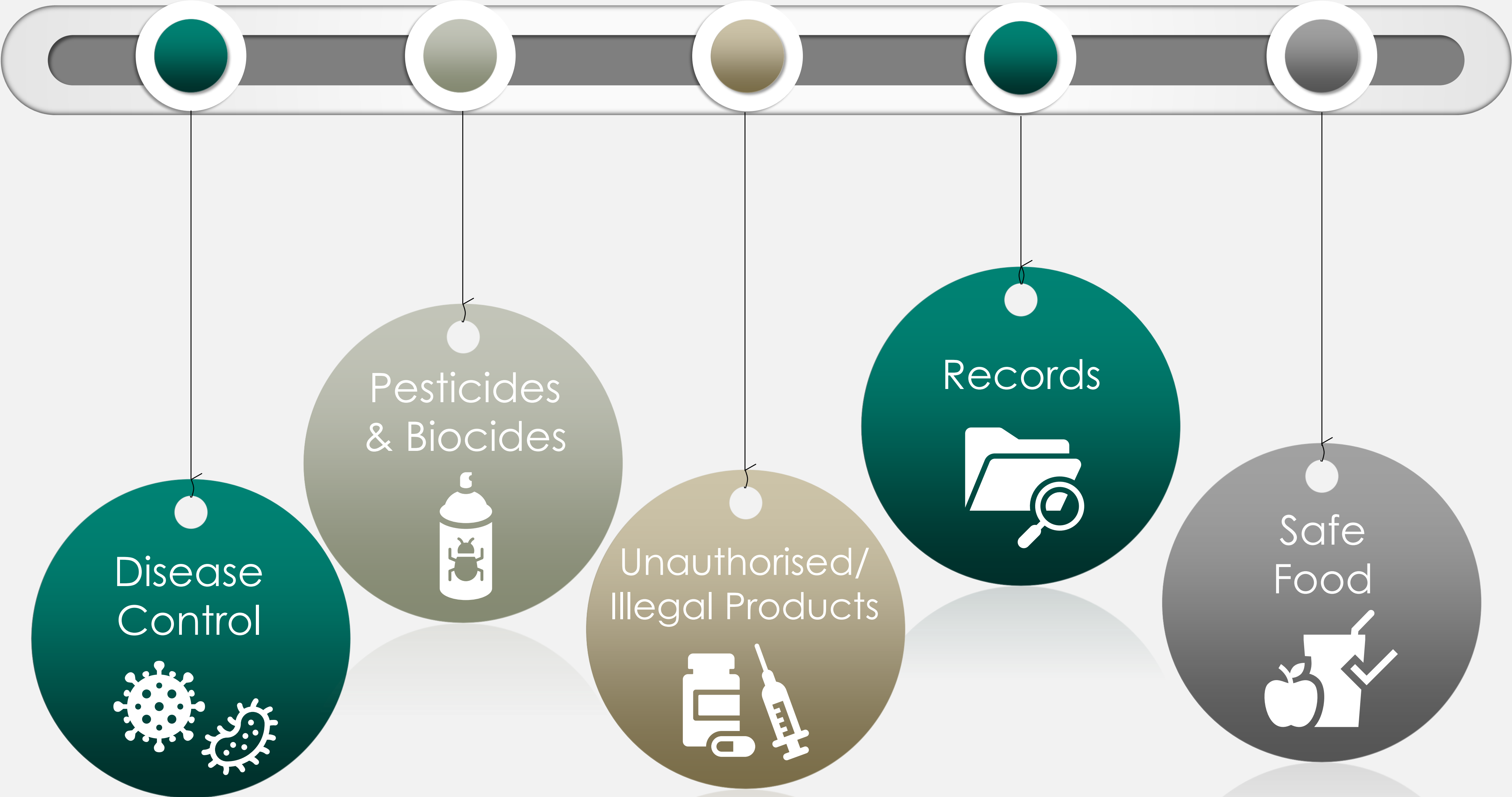


Herd Hygiene

Egg Hygiene Requirements



General Food Requirements





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SMR 6 -Restrictions on the use of Substances having Hormonal or Thyrostatic Action and Beta-Agonists

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Requirements



01

Substance of hormonal or
thyrostatic action



02

Beta-agonists



03

Residues



Types of Substances



1 Stilbenes, synthetic estrogens (diethylstilbestrol)

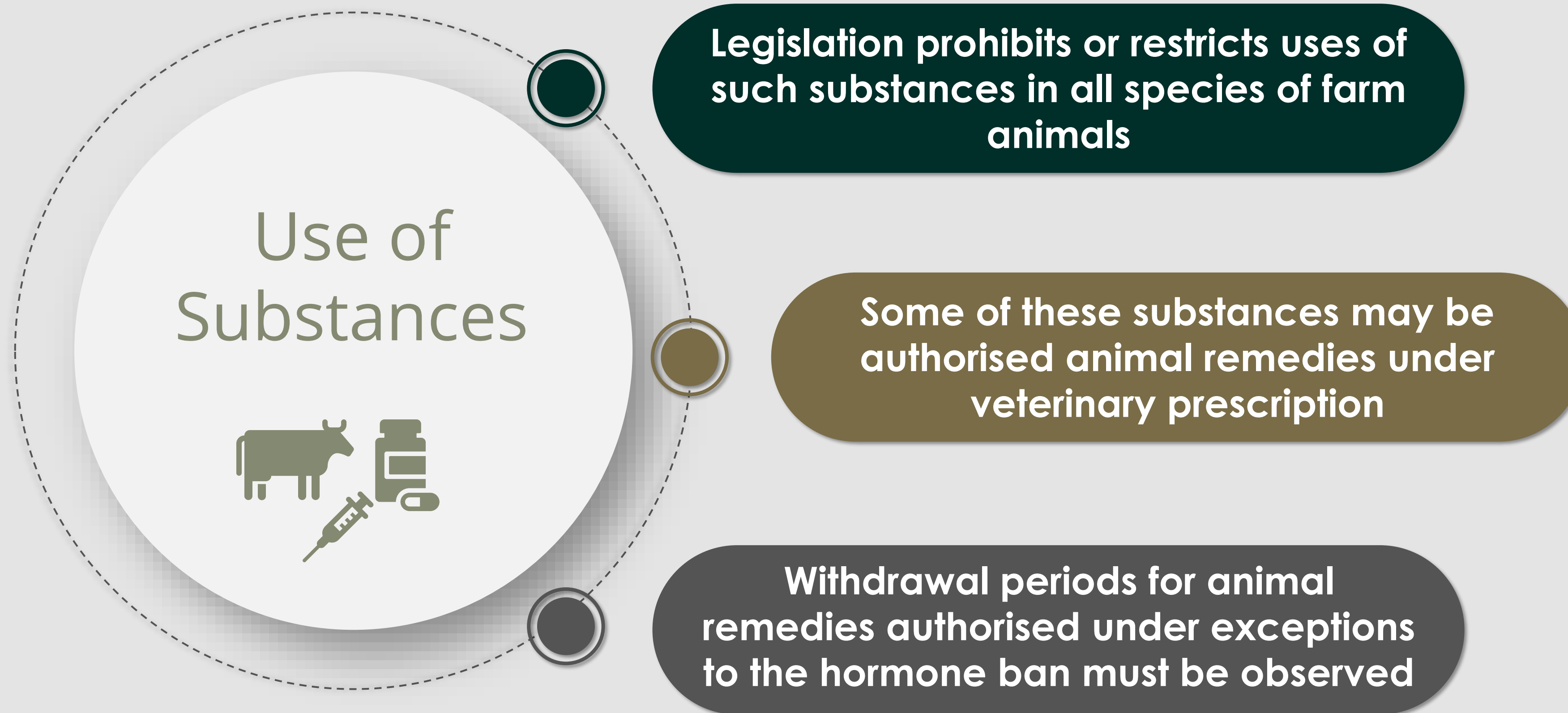
2 Antithyroid agents (thiouracil)

3 Steroids (dexamethasone) 'Finaplix'

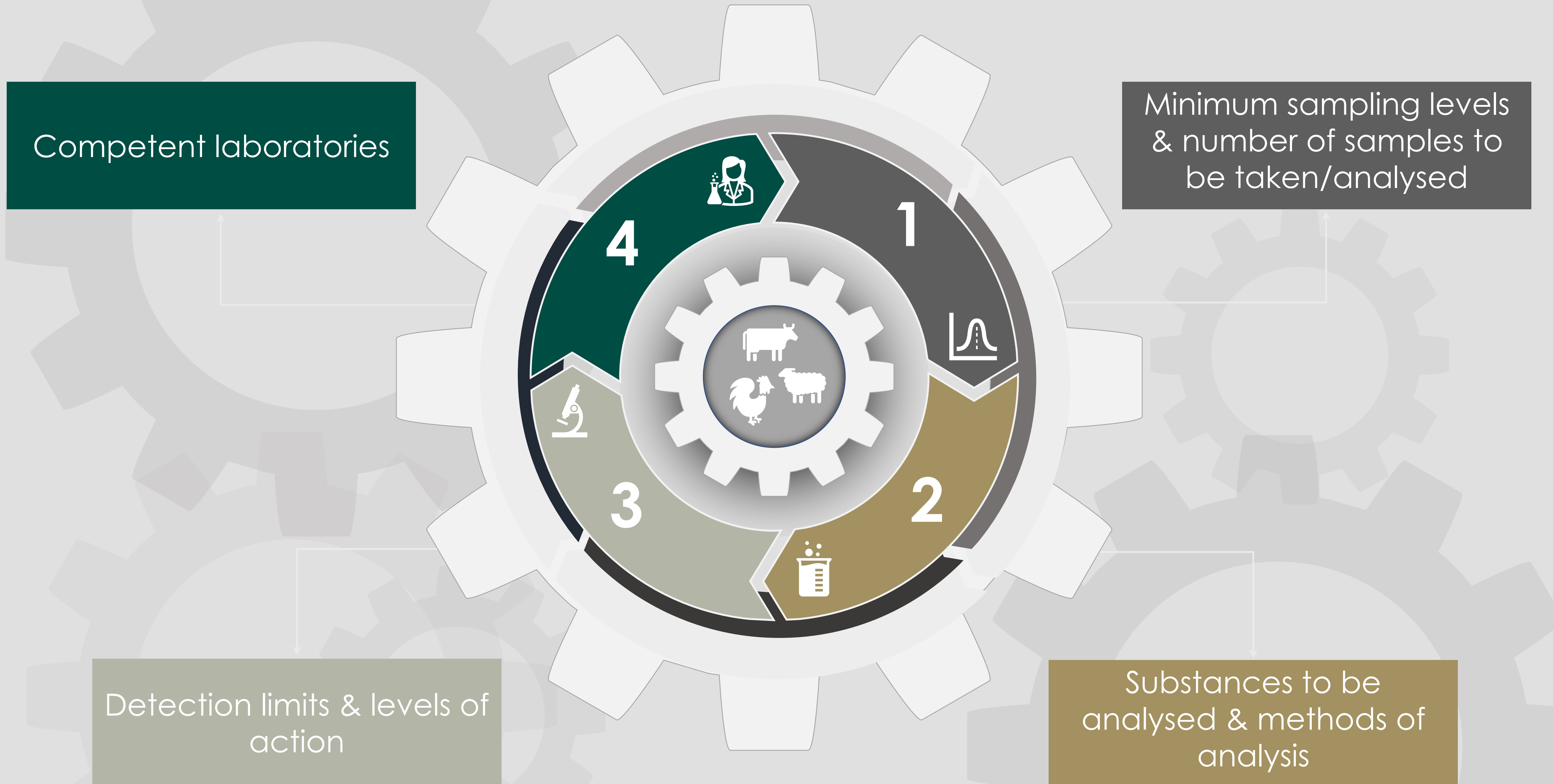
4 Resorcylic acid lactones (zeranol) 'Ralgro'

5 Clenbuterol and Mabuterol '*Angel Dust*'

Use of Substances



National Monitoring Programme

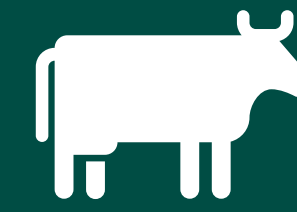


Controls



1

Random sampling of animal based products
from farm to fork



2

Targeted SMR 6 inspections of any
positive results





Thank You



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2023 FAS Training for New Advisers

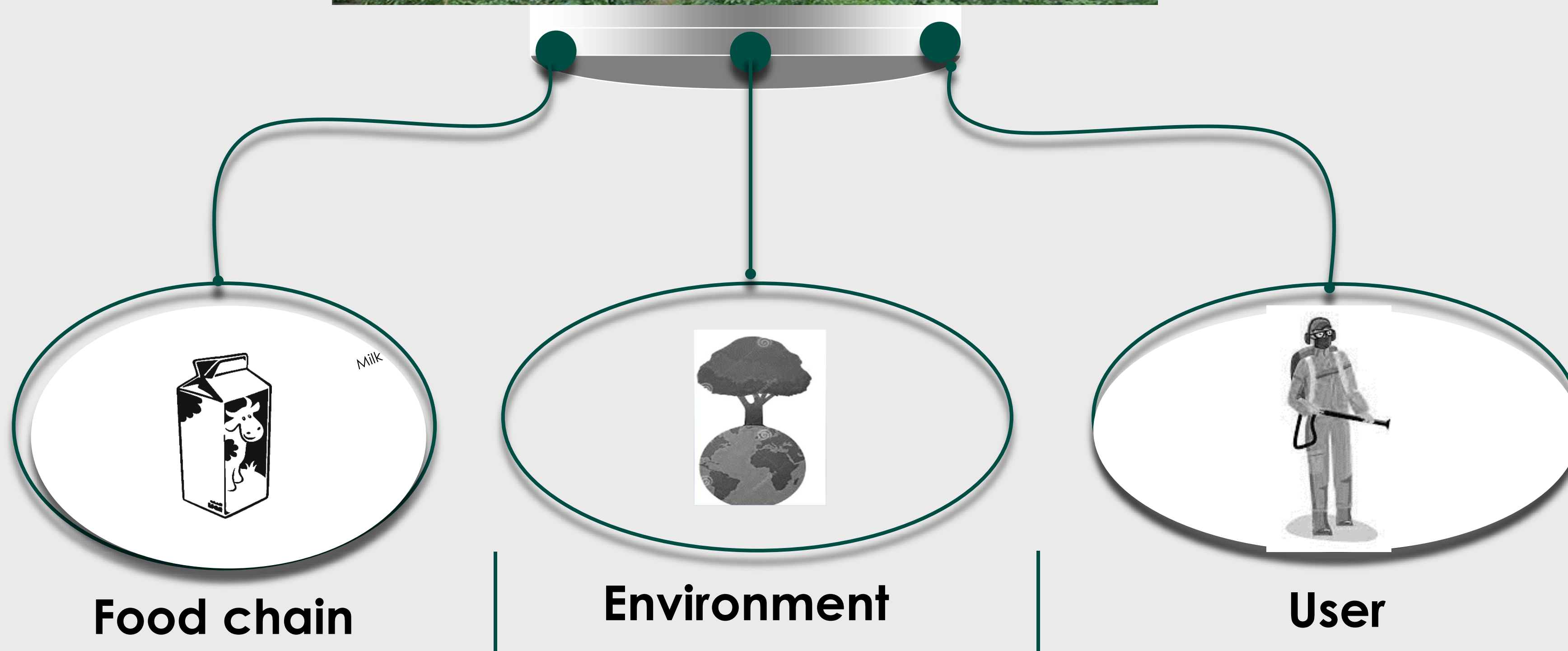
SMR 7 – Use of Plant protection products

SMR 8 – Sustainable Use of Pesticides Directive

Raymond O'Neill

District Inspector,
Integrated Controls Division.

Objective of SMR 7 & 8 - To minimise risk to



Pesticides – legal basis



Plant Protection Products

Council Regulation
1107/2009/EC

SI No. 159 of 2012

SUD

EU Directive 2009/128/EC

SI No. 155 of 2012

Plant Protection Products (PPPs)



- Herbicides
- Insecticides
- Fungicides
- Plant Growth Regulators
- Seed Dressings
- Molluscicides
- Fumigants

SMR 7

Proper & safe use of plant protection products

Can only use a PPP where it is:

Approved and used in accordance with the label recommendations

Records of purchases and/or returns

Complete records of use & store inventory (uploaded)

Compliance with good plant protection practice

Integrated pest management

- Complete records uploaded
- (all eight principles of IPM addressed)





Pesticide Registration

PPPs must be **registered** with the Pesticide Control Division
Approved Plant Protection Products = PCS No

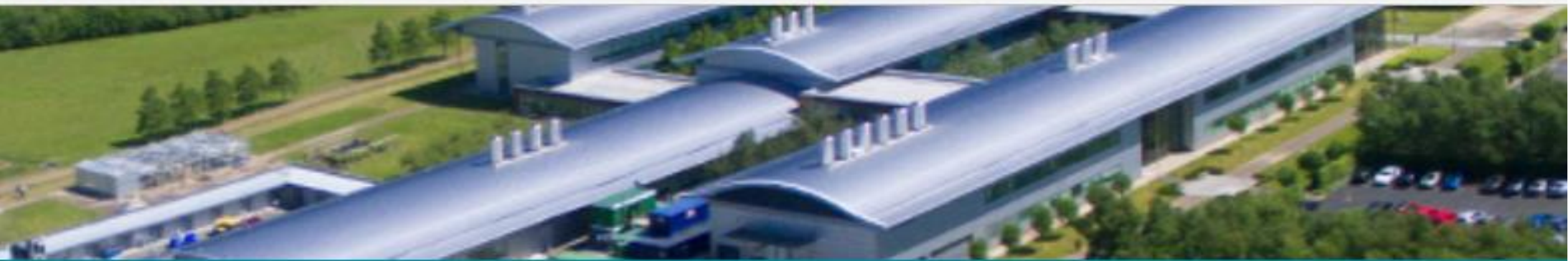
or as non-hazardous waste.
Contains 1,2-benzisothiazolin-3-one. May produce an allergic reaction
To avoid risks to human health and the environment, comply with the instructions for use.
PCS No. 05395

Registers and labels of authorised PPPs available at
www.pcs.agriculture.gov.ie/registers/

Filter by function and/or crop



registers/



Products Registers

Listen

Plant Protection Products Registers

The Product Registers for plant protection products (PPPs) contain details of authorised PPPs for sale and use on the market in Ireland.

Plant Protection Products Database

Plant Protection Products Labels

List of Active Substances and MRLs

Off-Label Extension of Authorisation for Minor Uses (EAMU)

Recently Withdrawn Plant Protection Products

Recent Active Substance Withdrawals

Plant Protection Products Books

Product Name	PCS No.	Function
Accurate	05654	Herbicide
Afinto	06733	Insecticide
Alister Flex	05183	Herbicide
Ally Max SX	03435	Herbicide
Ally SX	05590	Herbicide
Ally Ultra	05075	Herbicide
Alonty XL	06872	Fungicide
Amistar	05072	Fungicide
Ampect	06827	Fungicide
Anthem	04761	Herbicide
Aquino	06751	Fungicide
Aragon	06699	Fungicide
Arbiter	05542	Herbicide
Arizona	04555	Fungicide
Ascra Xpro	05240	Fungicide
Aurelia	06106	Fungicide

Principles of Good Plant Protection Practice (GPPP)



- Correct choice of active substance
- Appropriate dosage rate
- Number, timing & frequency of application
- Method of application
- Strategies to reduce spray drift
- Resistance management
- Perform handling operations well away from waterways, ditches, drains, boreholes, wells and springs
- Maintain buffer zones



Body Level One

Body Level Two

Body Level Three

Body Level Four

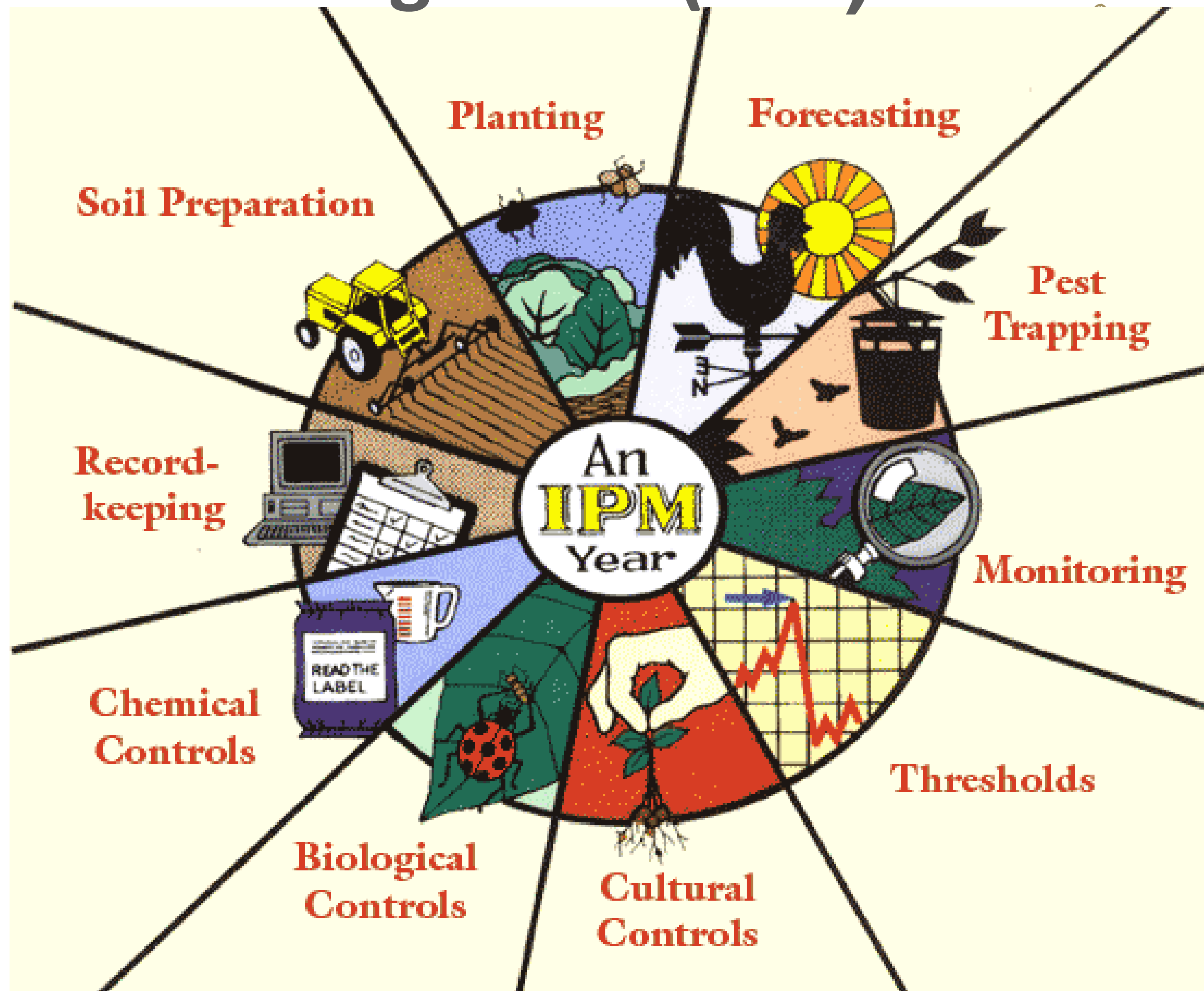
Body Level Five

Integrated Pest Management (IPM)

IPM is a sustainable approach to managing pests by combining:-

- ✓ Biological,
- ✓ Cultural
- ✓ Chemical tools

in a way that minimises economic, health and environmental risks.





Example of a Completed Grassland Farmer IPM Record Sheet

Application of Integrated Pest Management (IPM) at user level.

Herd Number: _____ Year: _____

Tick only the appropriate options currently practiced on your farm.

1. The prevention and/or suppression of harmful organisms			
Crop rotation	<input type="checkbox"/>	Sterile seedbed technique	<input type="checkbox"/>
Clean machinery and equipment	<input checked="" type="checkbox"/>	Clean potato boxes/growing trays etc..	<input type="checkbox"/>
Nutrient management programme	<input checked="" type="checkbox"/>	Irrigation (applied to schedule)	<input type="checkbox"/>
Soil testing (pH, nutrients, OM)	<input type="checkbox"/>	Protect beneficial organisms	<input type="checkbox"/>
Certified seed	<input type="checkbox"/>	Full inversion tillage (plough)	<input type="checkbox"/>
Choose disease resistant varieties	<input type="checkbox"/>	Minimum cultivation	<input type="checkbox"/>
Management of crop residues	<input type="checkbox"/>	Soil structure & compaction	<input checked="" type="checkbox"/>
Use of optimal sowing date	<input type="checkbox"/>	Clean crop storage areas	<input type="checkbox"/>
Other (please specify)			
2. Monitoring of harmful organisms			
Use early warning/forecasting systems	<input type="checkbox"/>	Monitor crops for pests/diseases	<input checked="" type="checkbox"/>
Use weather forecast to aid decisions	<input checked="" type="checkbox"/>	Advisor monitors crops	<input type="checkbox"/>
Can identify main pests	<input checked="" type="checkbox"/>	Use traps/sticky pads/lures	<input type="checkbox"/>
Other (please specify)			
3. Application of plant protection measures			
Some crops treated preventatively	<input type="checkbox"/>	Advisor makes decision	<input type="checkbox"/>
Decisions jointly made with advisor	<input type="checkbox"/>	Some decisions based on pest thresholds	<input checked="" type="checkbox"/>
Other(please specify)			
4. Sustainable biological, physical or other non-chemical methods			
Use natural enemies	<input type="checkbox"/>	Use crop fleeces	<input type="checkbox"/>
Use micro-organism plant protection products	<input type="checkbox"/>	Use crop netting	<input type="checkbox"/>
Use propane burners for weed control	<input type="checkbox"/>	Use mechanical weeder (e.g., steerage hoe)	<input type="checkbox"/>
Use manual methods	<input checked="" type="checkbox"/>	Use deterrents (bangers, kites etc..)	<input type="checkbox"/>
Use of topper/mower for weed control	<input checked="" type="checkbox"/>		<input type="checkbox"/>
Other (please specify)			



5. The pesticides applied shall be as specific as possible for the target pest.			
Applications usually for multiple pests	<input type="checkbox"/>	Resistance development is considered	<input type="checkbox"/>
Different modes of action considered	<input type="checkbox"/>	Broad spectrum products avoided	<input type="checkbox"/>
Different products considered	<input checked="" type="checkbox"/>	Familiar with different product labels	<input checked="" type="checkbox"/>
Economics are considered	<input checked="" type="checkbox"/>	Use advisor to help decide on product(s)	<input type="checkbox"/>
Consider following crops	<input type="checkbox"/>	Buffer zones are considered	<input checked="" type="checkbox"/>
Use weed licker for weed control	<input checked="" type="checkbox"/>	Use of seed dressings	<input type="checkbox"/>
Avoid insecticide use where bees are foraging	<input type="checkbox"/>	Use drift reducing nozzles	<input checked="" type="checkbox"/>
Use air assisted sprayer	<input type="checkbox"/>	Other drift reducing methods	<input type="checkbox"/>
Other (please specify)			
6. Use of pesticides at necessary levels			
Use reduced rates of application	<input type="checkbox"/>	Use adjuvants to reduce PPP use	<input type="checkbox"/>
Partially treat / spot spray fields	<input checked="" type="checkbox"/>	Applications timed to minimise use	<input type="checkbox"/>
Reduce frequency of application	<input type="checkbox"/>		<input type="checkbox"/>
Other (please specify)			
7. Anti-resistance strategies applied to maintain the effectiveness of the products			
Use products with multiple modes of action	<input type="checkbox"/>	Use robust rates of PPPs	<input checked="" type="checkbox"/>
Use tank mixes with multiple modes of action	<input type="checkbox"/>	Keep abreast of resistance development	<input type="checkbox"/>
Familiar with different product labels	<input checked="" type="checkbox"/>		<input type="checkbox"/>
Other (please specify)			
8. Success of the applied crop protection measure			
Success or failure of intervention is measured	<input checked="" type="checkbox"/>	Member of discussion group	<input checked="" type="checkbox"/>
Success or failure of intervention is recorded	<input checked="" type="checkbox"/>	Results discussed with advisor	<input type="checkbox"/>
Crop yields are recorded	<input type="checkbox"/>		<input type="checkbox"/>
Other (please specify)			

Pesticides Worksheet: Store Inventory Records



Product Name (Trade Name)	PCS Number (as printed on product label)	Pack Size (kg or L)	Quantity present	Supplier (Name & Location)	Date Purchased

Herd No: _____

Pesticide Application Record

Year: _____

Sprayer Cert Nos (for all sprayers > 3 years old used on the farm): _____ Date last calibrated: _____

For each plant protection and biocidal product used on the farm **during the previous 12 months** provide the following information (a photocopy of the records maintained or a computer printout of records maintained in electronic form can be accepted).

*Only complete if you have used the STRIPE initiative to reduce buffer zones e.g. Minidrift MD 04, Guardian Air 110 04, AVI 110-02.

Date applied	Product Name and PCS No.	Crop / Situation (e.g. <i>Spring Barley</i> , <i>Winter wheat</i> , <i>Grassland etc.</i>)	Location / LPIS No.	Area (ha)	Application rate (L or kg / ha)	Water rate (L/ha)	Method of Application (<i>Boom sprayer</i> , <i>Knapsack / Wiper, etc.</i>)	Buffer Zone Applied (metres)	Nozzle type* (only if using STRIPE)	Reason for treatment	Operator / PU No.
25/05/2022	Doxstar Pro 05459	Grassland	E12345678	4 ha	2.0 l/ha	350	Boom Sprayer	5m		30% dock infestation	PU00001
05/06/2022	Proline 03786	Winter Oilseed rape	E87654321	5 ha	0.4 l/ha	200	Boom Sprayer	5m		Phoma leaf spot >20% plants infected	PU00001



Buffer zones

- No-spray strip of a specified minimum width between the edge of a water body and the edge of the treated area.
- Legal requirement to comply with buffer zone specified on product label.
- Applies to all types of surface water body, e.g. ditches, streams, ponds, rivers and lakes.





A systemic fungicide for use in winter wheat, spring wheat, durum wheat, winter barley, spring barley, triticale, rye and oats.

An emulsifiable concentrate containing [redacted] and [redacted]

Danger:
Causes serious eye irritation.
Harmful if swallowed.
May cause an allergic skin reaction.
Suspected of causing cancer.
May damage the unborn child. Suspected of damaging fertility.
Very toxic to aquatic life with long lasting effects.

Wear protective gloves and eye/face protection.
Avoid breathing mist.
If exposed or concerned: call a poison centre or doctor/physician.
If in eyes: rinse cautiously with water for several minutes.
Remove contact lenses, if present and easy to do.
Continue rinsing.
Store locked up.
Dispose of contents/container to a licensed waste disposal contractor or collection site except for triple rinsed empty containers which can be disposed of as non-hazardous waste.

To protect aquatic organisms respect an unsprayed buffer zone of 5m to surface water bodies.

To avoid risks to human health and the environment, comply with the instructions for use.

10 Le

PCS No: [redacted]

STRIPE – Surface water Tool for Reducing the Impact of Pesticides in the Environment



Specified low-drift nozzles can reduce buffer zones by 75% or 90% for listed PPPs - depending on choice of nozzle

Reduced rates can also mitigate buffer zones

Cannot eliminate buffer zone completely
min. distance of 3 m for **all PPPs**

- from all surface water bodies.



Pesticides 'Part 2' Inspection - Summary



**Pesticide Control
Division (PCD)
assess product
usage records for
the last 12 months
provided by farmer**



- **Product registration:** was the product registered with PCD at the time of use.



- **Product application rates** - are these correct
- Was the product **appropriate** for the crop treated
- **Products used as per label** recommendations
- **Buffer zones respected** & products applied **at correct time**



- Is the **application equipment suitable** for the application of the product?
- Are Inspection findings in accordance with the **Principles of Good Plant Protection Practice?**
- Are inspection findings in accordance with the principles **of Integrated Pest Management (IPM)?**

SMR 8 – articles from SUD (Dir 2009/128/EC)



- Article 5(2) [training & registration] and Article 8(1) to (5) [PAE testing and calibration]
- Article 12 [restrictions on the use of pesticides in protected areas defined on the basis of Directive 2000/60/EC and Natura 2000 legislation]
- Article 13(1) and (3) [handling and storage of pesticides and disposal of remnants]

Sustainable Use Directive – Key aspects for SMR 8



- Training & registration of advisors, distributors & users of **Plant Protection Products**
- Testing of pesticide application equipment & calibration
- Storage & handling of PPPs
- Treatment of obsolete products; disposal of containers / packaging; tank remnants
- Protection of water from pesticides

Training and Registration Requirements



	Pesticide Advisor	Pesticide Distributor	Professional User	Equipment Inspector
Training Required	Yes	Yes	Yes	Yes
Register with DAFM	Yes	Yes	Yes	Yes
Maintain CPE	Yes	Yes	Yes (from 2025)	Yes

Professional User (PU)



Who are Professional Users?

Any person who uses or applies professional use pesticides: farmers, contractors, landscapers, green keepers, CC workers etc.

Register at:

www.agfood.ie for DAFM clients



<http://www.pcs.agriculture.gov.ie/sud/sudreg/> if not a DAFM client

Professional User Number of person applying pesticides and copy of training certificate will be required as part of an inspection on conditionality

SMR 8: Handling



Clean, appropriate, well maintained Personal Protective Equipment (PPE)

Appropriate designated measuring equipment

Scales and a check weight

Graduated measures



Pesticide Storage

Dedicated banded
storage facility

Independently lockable
Keep out of reach of
children

Segregated from
food and feed

Warning sign at entrance
Well ventilated



A Safe Store?

No Absorbent
material for
spillages



Liquids beside
powders

Adequate
storage?

Warning Sign

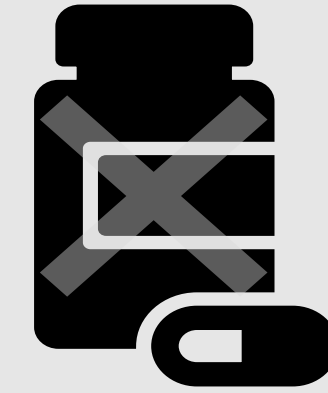
Independently
lockable

Not banded

Good chemical store procedures.



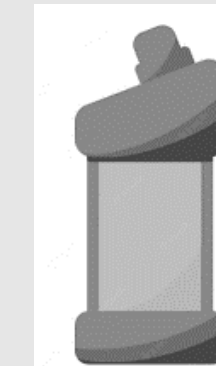
First in - first out !!



Ensure products no longer approved for use are not retained in store



Once products are past their “**use-by date**” they cannot be applied & must be correctly disposed



Hazardous Waste is disposed of by a licenced hazardous waste collection company

Empty, triple-rinsed, containers and foil caps must be disposed of correctly.



SMR 8 – Inspections



Part 1 inspection of SMR 8 assesses the **storage & handling of PPPs on farm**

Check for:

- Dedicated storage facility
- Segregated from food and feed
- Secure, bunded store & warning sign
- Facility for containing spills e.g. sand/peat
- Protective equipment/clothing for handling PPPs
- Powders are stored above liquids (avoid contamination) and products are in their original containers
- Is the applicant the sole owner/user of the PPP store?
If No – must give Name & Herd No of owner/user.

Pesticide Application Equipment



Must be tested every 3 years.

- All horizontal boom sprayers >3m boom width
• including quad boom sprayers >3m boom width

All bush / orchard blast sprayers



Scheduled for testing e.g. Weedwipers/weedlickers ;
Seed treatment equipment;
Granular applicators (slug pellet applicators); in-furrow application etc.

Knapsack sprayers exempt from testing

Must be calibrated at least once each year/season



AP-20P

Pesticide Application Equipment (PAE)



Sprayer testing and sprayer calibration are not the same

Sprayer testing:

Initial test for all types of PAE is now 3 years from new
and every 3 years thereafter

Date tested	Next date test due
2017	2022
2018	Before 1/1/2023
2019	Before 1/1/2023
2020	2023
2021	2024
Purchased new/tested 2022	2025



Calibration



Calibration is carried out by the Professional User **at regular intervals and at least once per year**

- optimum coverage of the target
- ensures effective control
- correct amount is used without wastage
- saves time and money
- more effective and efficient spraying operation
- protects the environment



Replace worn nozzles with those which have equal flow rates.

Protection of water



Article 13(1) (a) Evidence that the pesticide mixing, filling and handling area does not present a risk to water



Key concerns when filling and washing the sprayer



Q. Where and from what water source does the farmer/contractor fill the sprayer?

Q. Does the sprayer have an induction hopper?

Q. Where are the plant protection products added to the spray tank?

Q. Is the potential for spillage adequately addressed?

Q. Post spraying, where are the residual tank remnants and dilute rinsate sprayed?

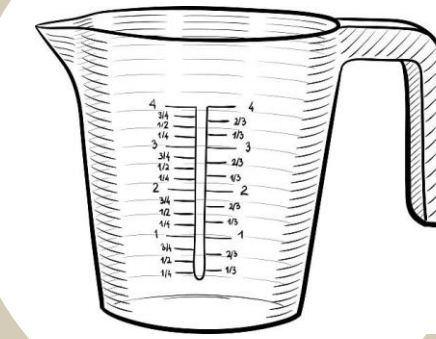
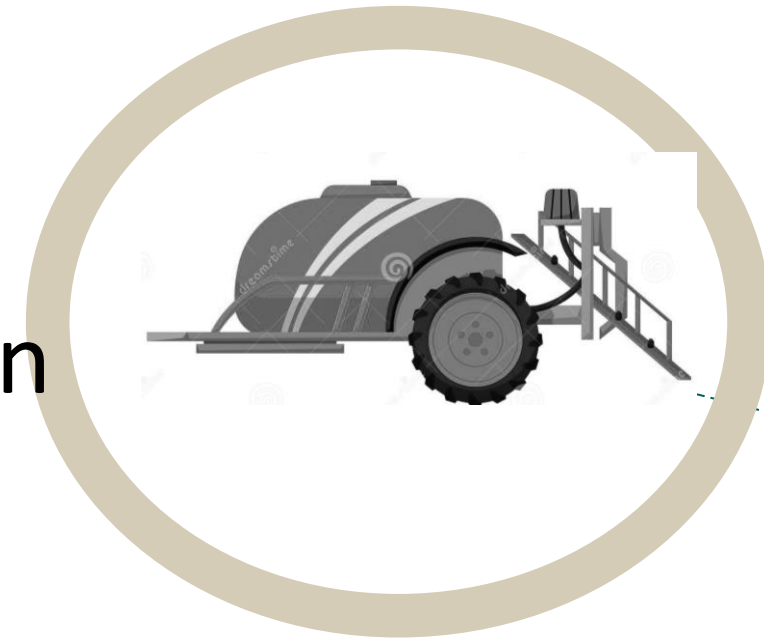
Q. Where is the sprayer washed?

Q. Are there drains or watercourses adjacent to the wash down area?

Main non-compliances identified:

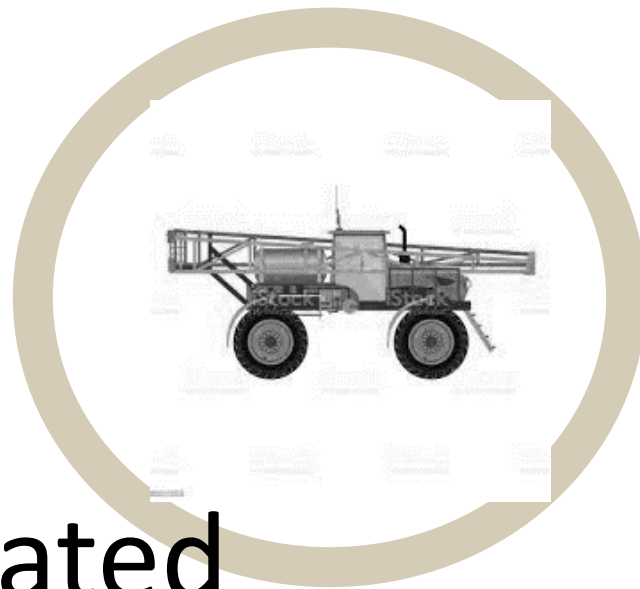


Invalid use/ illegal
method of application



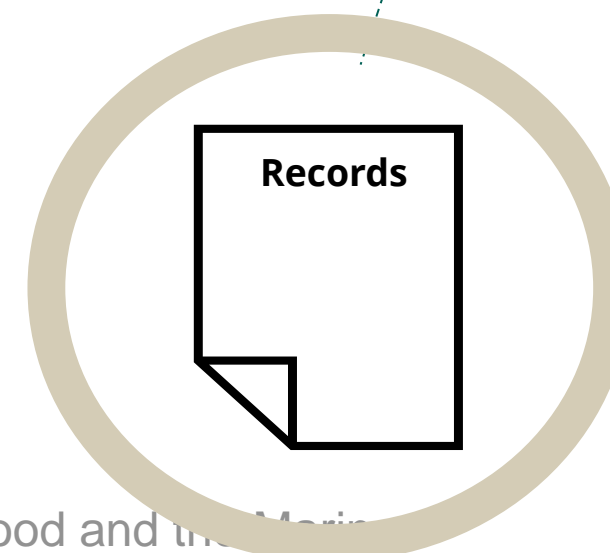
Maximum
Individual
Dose/Max.
Total Dose
exceeded

Sprayer not calibrated



Illegal
use/product not
recommended
for use on crop

No records or incomplete
pesticide application records



Summary

7. Clean and wash down sprayer afterwards, preferably in the field and well away from water bodies or open water

4. Check sprayer for drips and leaks.

2. Only use approved pesticides and keep them in a clearly marked lockable store

6. Triple rinse containers and drain pesticides contained before storing them under cover

Follow *7 Steps: Good Practice Guide for Empty Pesticide Containers* (DAFM/EPA)

3. Anyone using pesticides must be trained and competent

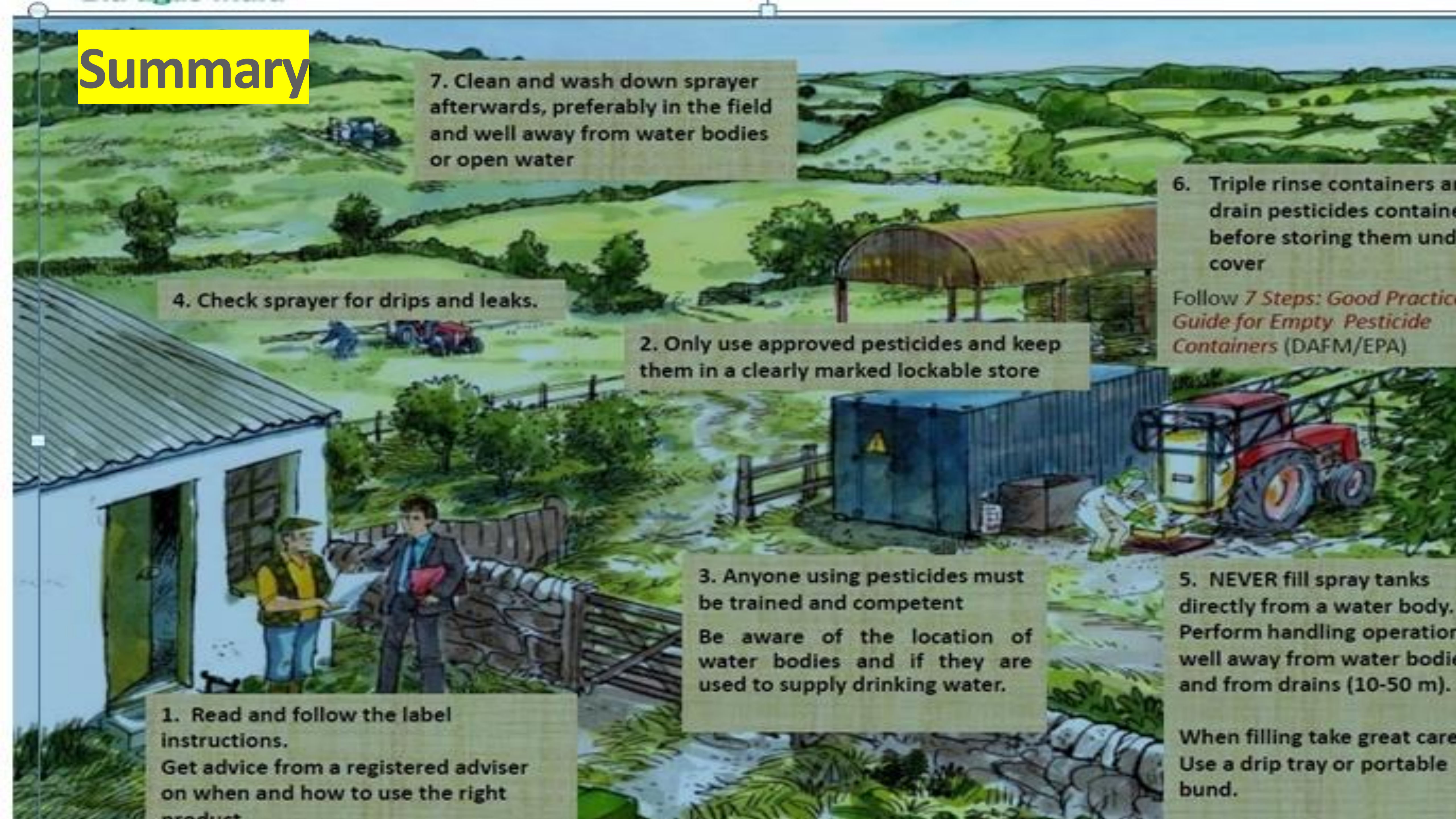
Be aware of the location of water bodies and if they are used to supply drinking water.

5. NEVER fill spray tanks directly from a water body. Perform handling operation well away from water bodies and from drains (10-50 m).

1. Read and follow the label instructions.

Get advice from a registered adviser on when and how to use the right product.

When filling take great care. Use a drip tray or portable bund.



Further information



<http://www.agriculture.gov.ie/>

Conditionality requirements

<http://www.pcs.agriculture.gov.ie>

Register of approved plant protection products



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2023 FAS Training for New Advisers

SMR's 9, 10 & 11 Animal Welfare

Mark Maguire,
District Inspector – South West Region,
Integrated Controls Division.

Animal Welfare



Presentation Overview



1. Concept
2. Welfare Requirements
3. Inspections/Common Non-Compliances
4. Legal Basis



Concept of Animal Welfare

Freedom from:

- Thirst, Hunger and Malnutrition
- Unnecessary Pain, Suffering, Injury and Disease
- Stress and Fear.
- Freedom to express normal behaviour



SMR 11 – Welfare of Animals

Aim is to protect the welfare of farmed animals by meeting minimum standards for their care and husbandry.



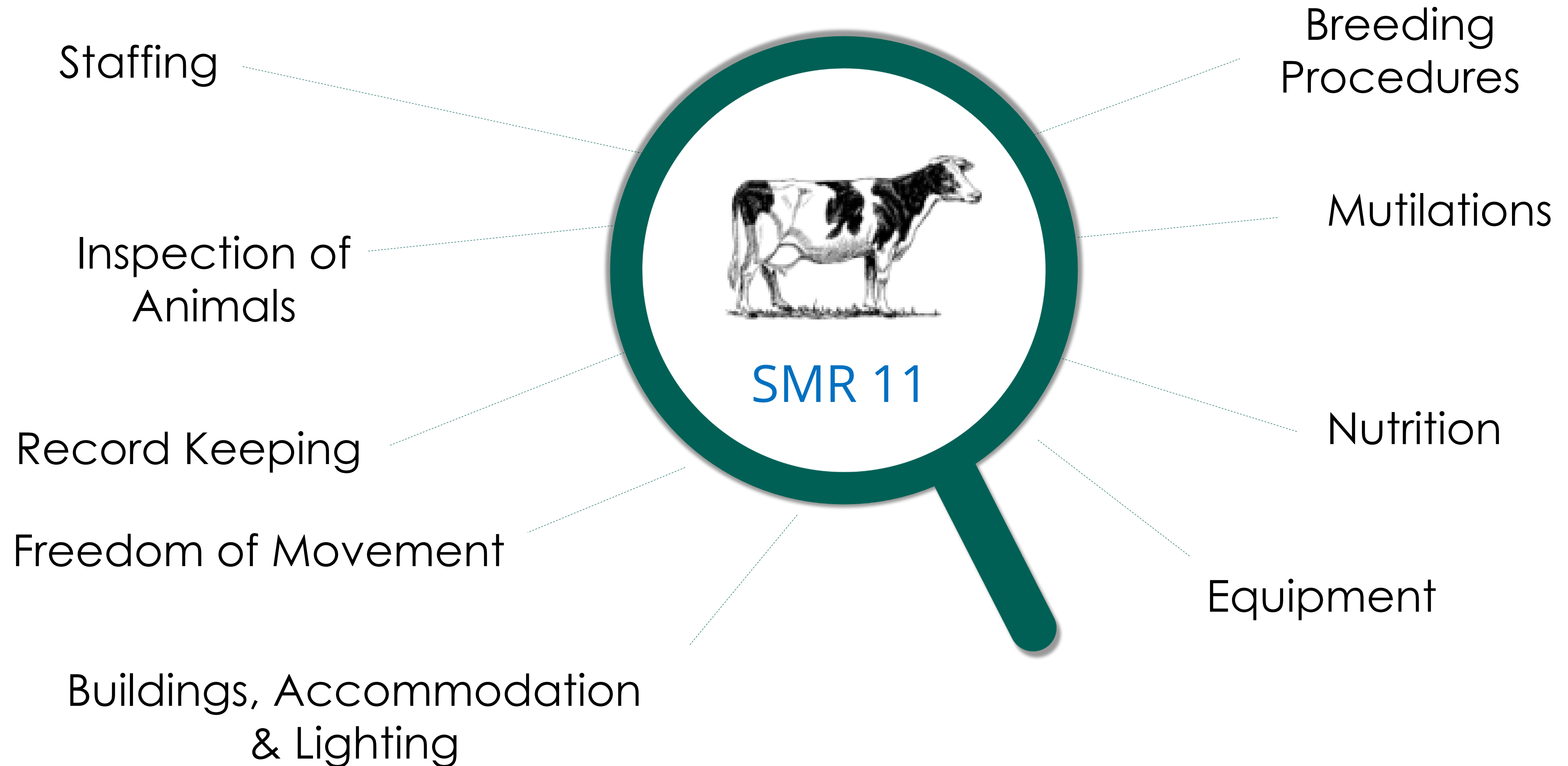


SMR 11 – Welfare of Animals

WHAT ANIMALS?

- Bred or kept to produce food, wool, skin, fur, other farming purpose
- Not applicable to animals used in competitions, shows, cultural or sporting events/activities or animals living in the wild
- Some horses/ponies exempt

Welfare Requirements



SMR 9 – Welfare of Calves (Bovine up to 6 mths)



Extra/Specific Requirements:

- Inspections of Animals
- Freedom of Movement
- Housing
- Nutrition



SMR 10 – Welfare of Pigs



Inspection carried out by DAFM Veterinary Inspector

- Large Commercial Units
- Hobby/Organic Operations



SMR 10 – Welfare of Pigs

- Freedom of Movement
- Accommodation
- Nutrition
- Weaning Procedures
- Routine Inspections
- Mutilations

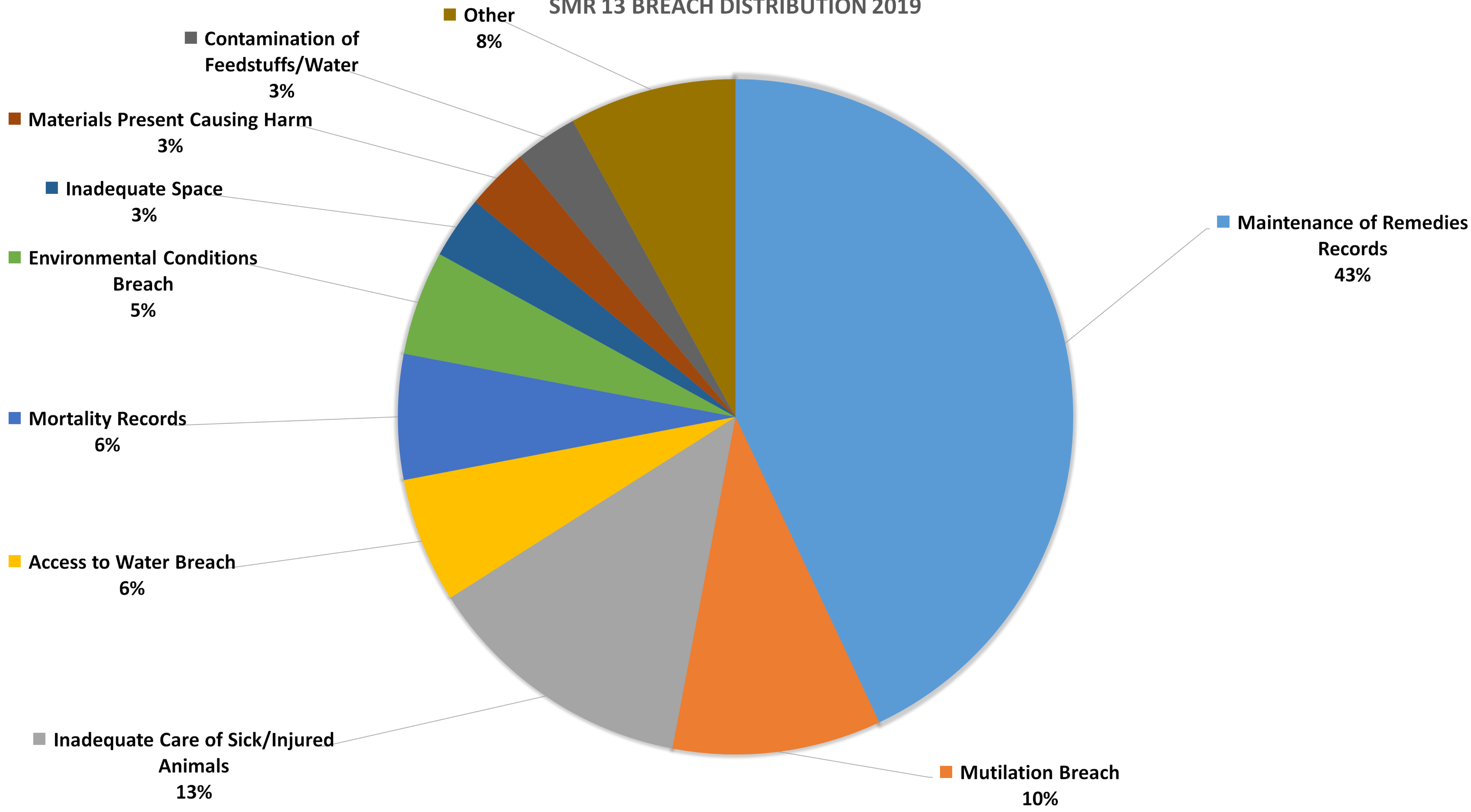
Inspections/Non-Compliances



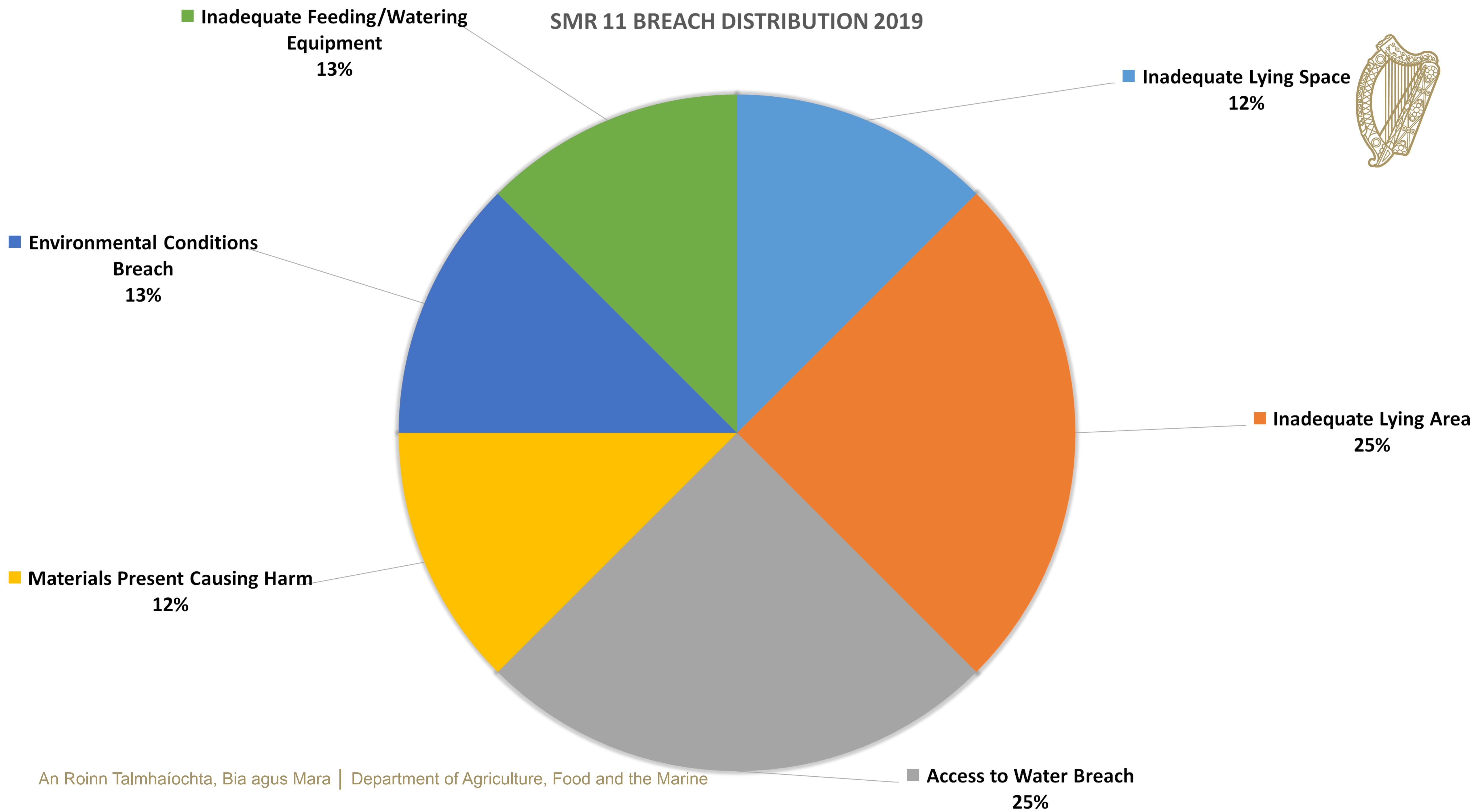
Two main sources for non-compliances

- Full Cross Compliance Inspections (1% - 1,350)
- Cross Reports from Regional Veterinary Offices

SMR 13 BREACH DISTRIBUTION 2019



SMR 11 BREACH DISTRIBUTION 2019





Legal Basis

SMR 11: All **Farm Animals**

- Article 4 Council Directive 98/58/EC

SMR 9: Extra requirements for **Calves**

- Articles 3 & 4 Council Directive 2008/119/EC [replaced 91/629/EEC]

SMR 10: Extra requirements for **Pigs**

- Articles 3 & 4 Council Directive 2008/120/EC [replaced 91/630/EEC]



Legal Basis

Most Council Directives transposed into national legislation by:

European Communities (Welfare of Farmed Animals) Regulations

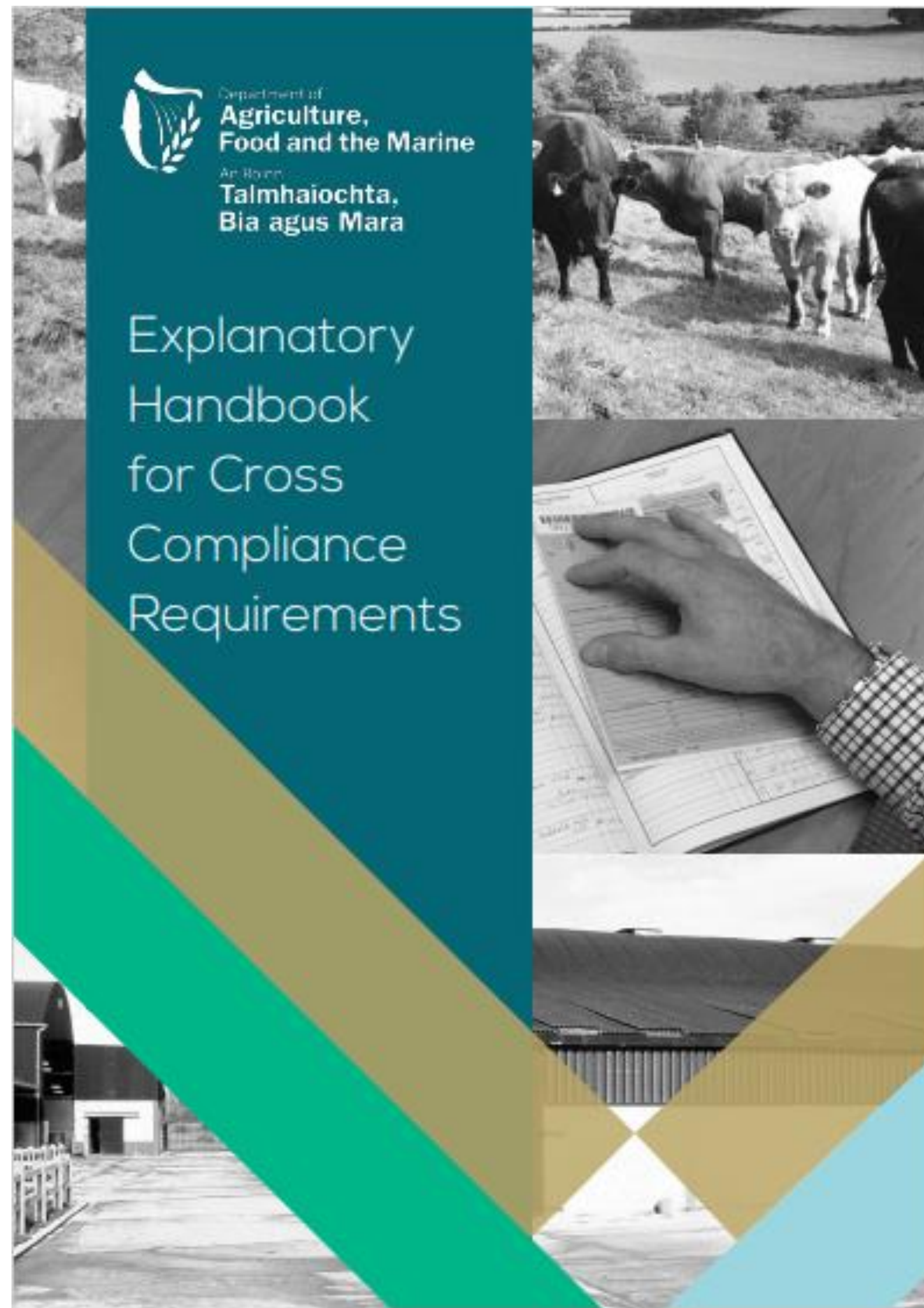
2010 (*S.I. No.311 of 2010*) [replaced S.I No. 14 of 2008].

Mutilations dealt with in:

Animal Health & Welfare Act 2013 and Various SI's



Further Information



**An Roinn Talmhaíochta,
Bia agus Mara**
Department of Agriculture,
Food and the Marine

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[Pet Travel](#)

[View our previous website](#)

www.gov.ie/en/organisation/departments/departments-of-agriculture-food-and-the-marine



Go Raibh Maith Agat