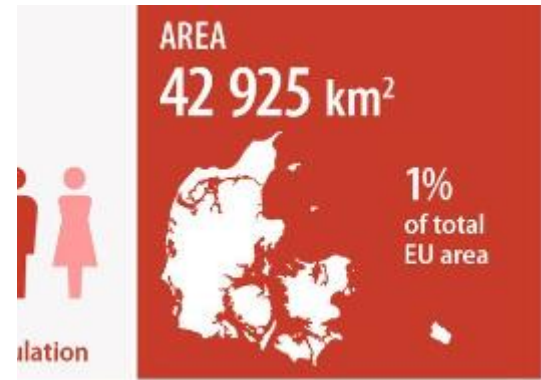
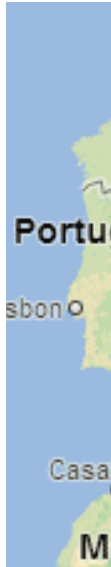




Danish Pig Production – challenges and opportunities

SEGES Innovation

April 13th 2023



Vi connect science to practical farming



SEGES
INNOVATION



Who are we?



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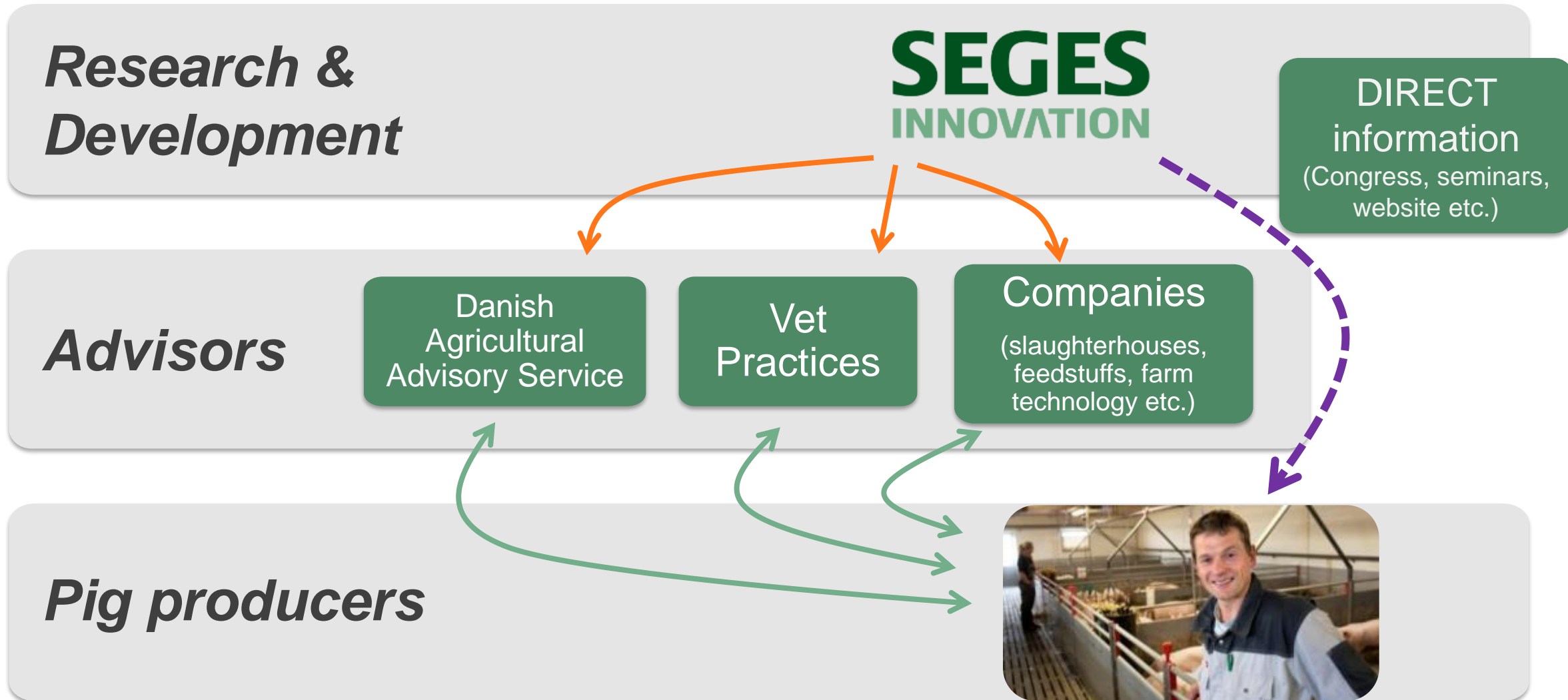


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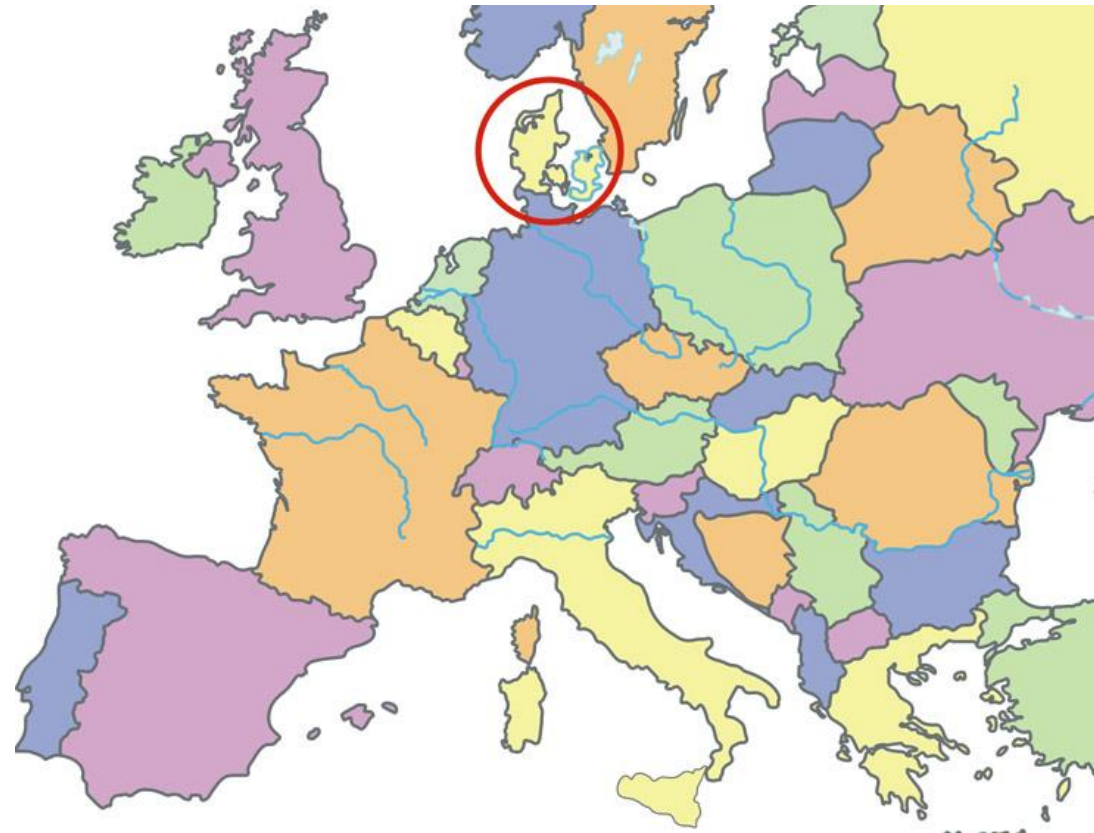
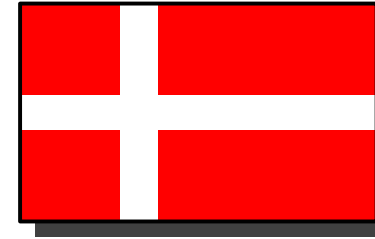


Tina Birk Jensen
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Two-level advisory system



Denmark is a part of the European Union



Pig welfare – great public interest!



OUR CAMPAIGNS



END THE CAGE AGE

End the European Initiative



Home > News > Denmark bids farewell to cage egg production

Denmark bids farewell to cage egg production

29 September 2022  Dyrenes Beskyttelse  News

The Danish Minister for Food, Rasmus Prehn, has decided to ban the production of cage eggs in Denmark, beginning in 2023.

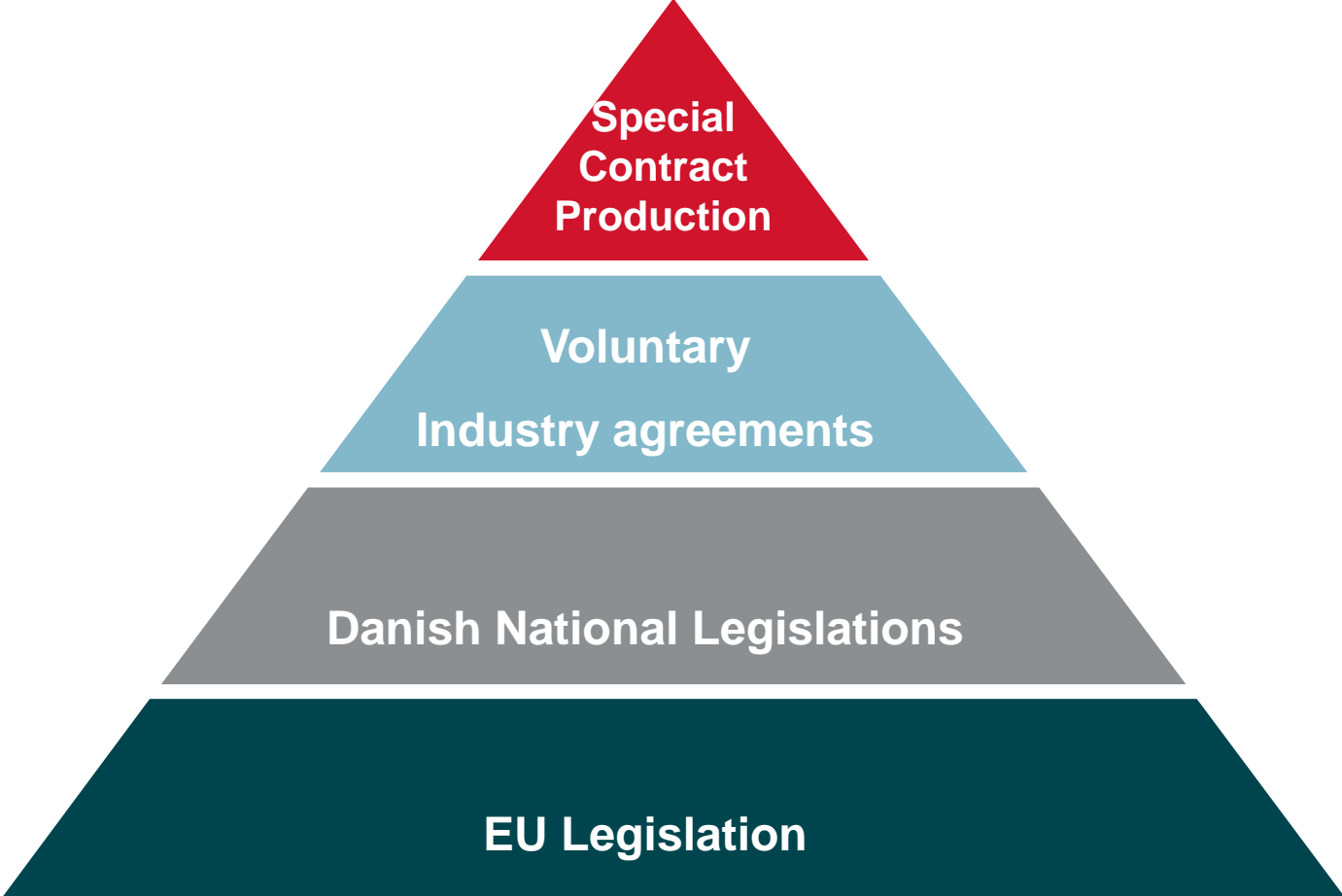
ANIMAL PROTECTION
DENMARK



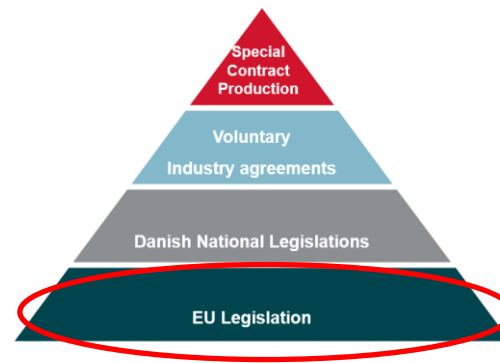
**Our challenge:
Licence to produce**

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Animal Welfare legislations



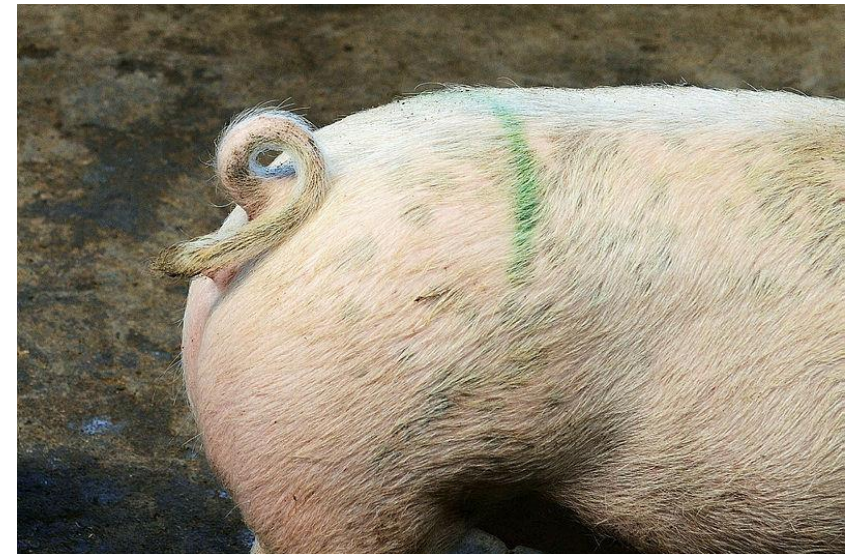
Tail docking



Ban on routinely tail docking in EU

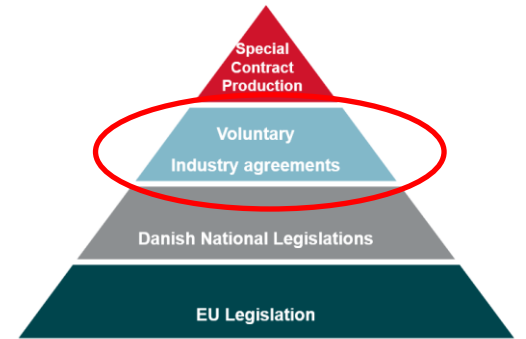
From 2019

- 1) Written documentation of tail bites
- 2) Complete a risk assessment
- 3) Documentation when live pigs are sold



Only half the tail must be docked between day 2 and 4


Local anesthesia before castration



- **Danish legislation (2018):**
Farmers are allowed to give local anaesthesia to piglets prior to castration, if they have completed a course
- **Industry initiative (2019):**
The use of local anaesthesia is a requirement in the Danish pig producers quality assurance program DANISH Product Standard

The governmental animal welfare label



	♥	♥ ♥	♥ ♥ ♥
	<p>More space</p> <p>More straw</p> <p>No tail docking</p> <p>Improved sow housing</p> <p>Shorter transportation time</p>	<p>+ Even more space</p> <p>Even more straw</p> <p>Free-range sows (barns)</p>	<p>+ Much more space</p> <p>Much more straw</p> <p>Piglets and sows in free-range field</p> <p>Outdoor space</p>

Market driven animal welfare



**ANBEFALET AF
DYRENES
BESKYTTELSE**



Pig industry Animal Welfare Goals

Loose sows in all sections

Production of pigs with intact tails

Better handling of sick pigs

Increase sow and piglet survival



A large indoor pig farm with rows of stalls and pigs resting on straw bedding. The image is split into two parts: the left side shows a long row of stalls with pigs lying down, and the right side shows a closer view of two pigs lying on straw bedding in a stall. A dark blue semi-transparent box is overlaid on the left side, containing the text.

How do we keep sows in Denmark?

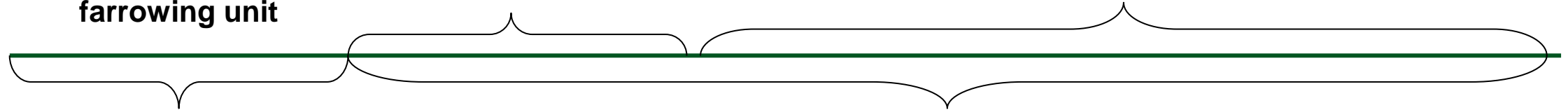


4 – 5 weeks in farrowing unit



1-4-week service period

Gestation period



Group-housed throughout the service and gestation periods



202x? (DK)



2015 – 2035 (DK)



1999 (DK) – 2013 (EU)



Feeding systems for sows



Floor feeding

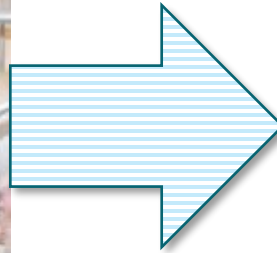


Electronic sow feeding

Free access stalls



Service unit



- New housing from January 2015
- All housing from January 2035
- Today ~ 1/3 loose in service unit
- Dry sows can be housed in crates for up to three days

Gestation unit



- In Denmark there must be straw on the solid/drained floor
- Sprinkling system required

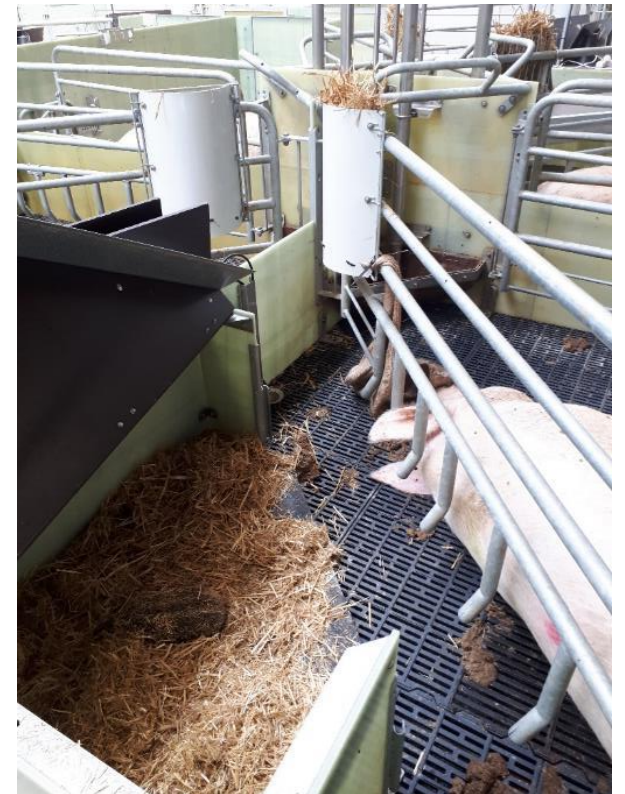
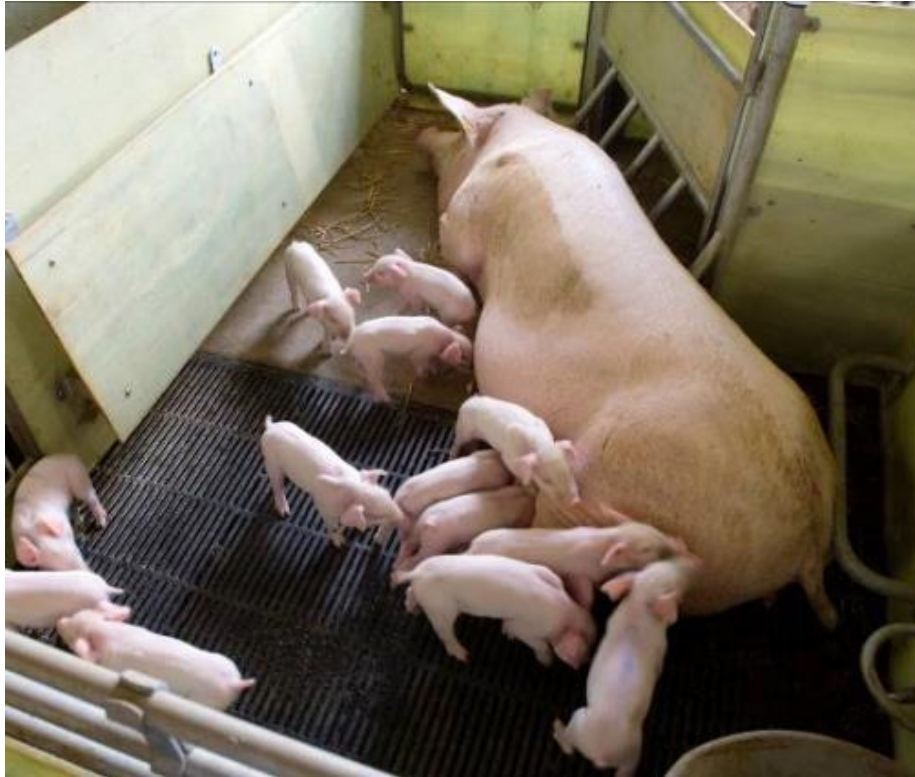


Farrowing unit – traditional



Farrowing unit – loose

Danish industry objectives is to move away from traditional farrowing crates towards free-farrowing



Weaners and finishers



Weaning age is 28 days (21 days)



	DK
Slatted Floors	Only partly slatted
Sprinkling system	Demand

Rooting and enrichment materials

All weaners, finishers, sows and boars must have access to sufficient amounts of appropriate rooting and enrichment materials



Hospital pens

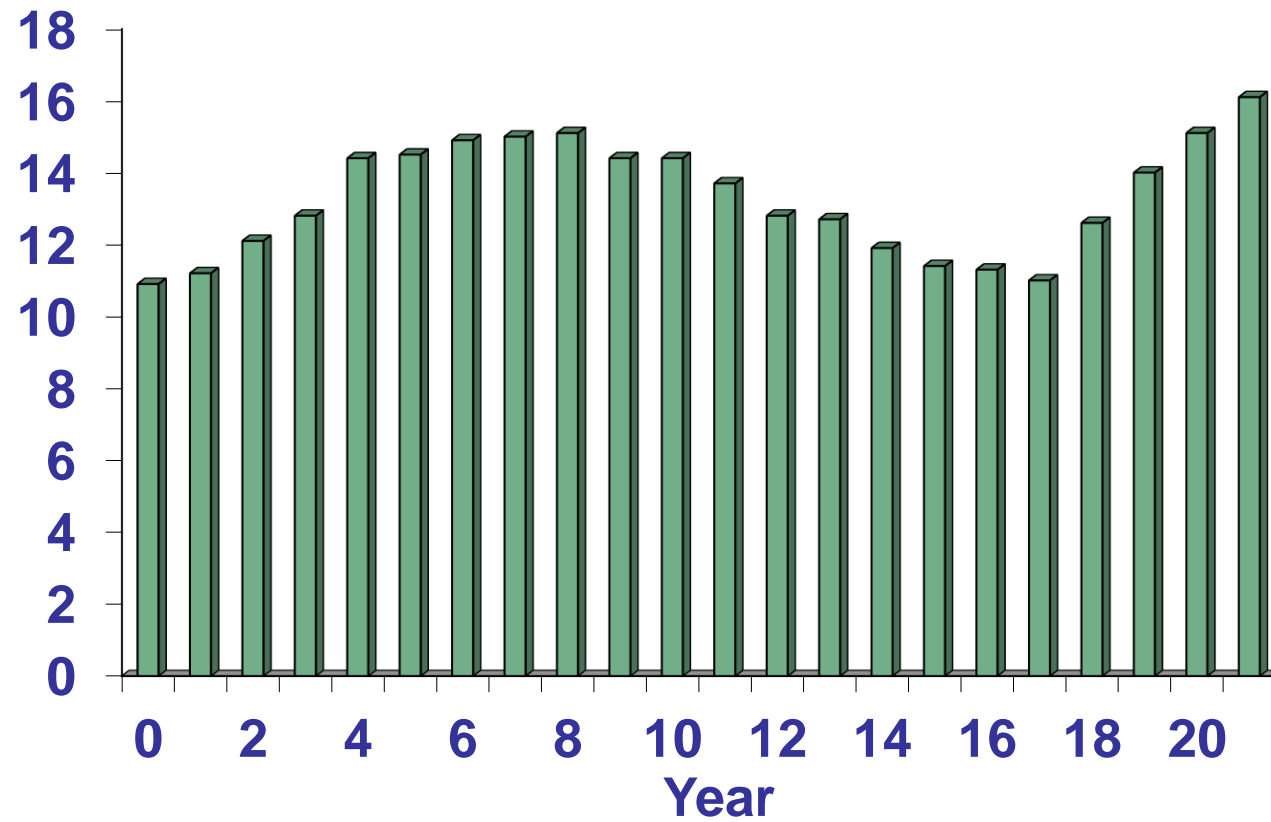
- Cover & heating
- Cooling
- Straw or rubber mat





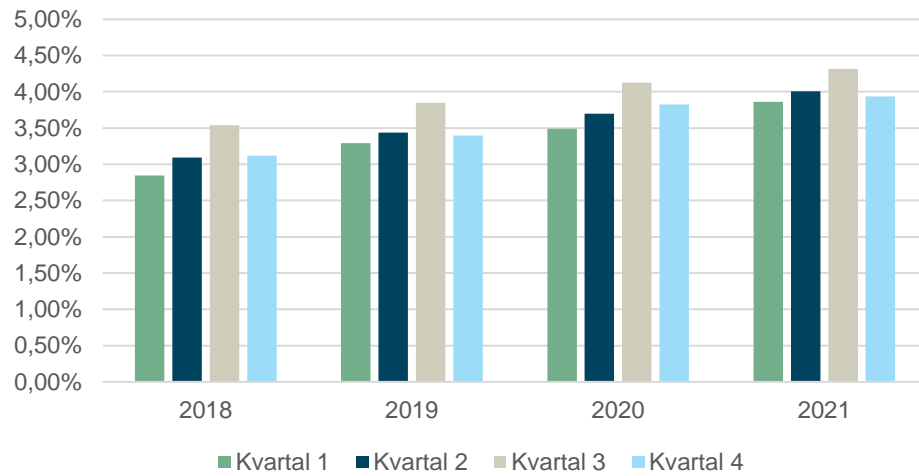
What do we know about sow mortality in Denmark?

Sow mortality in Denmark

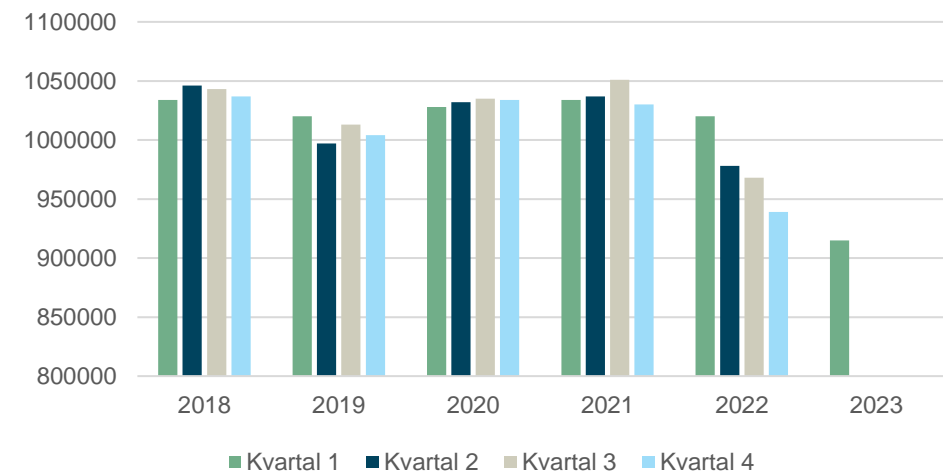


Sow mortality in Denmark

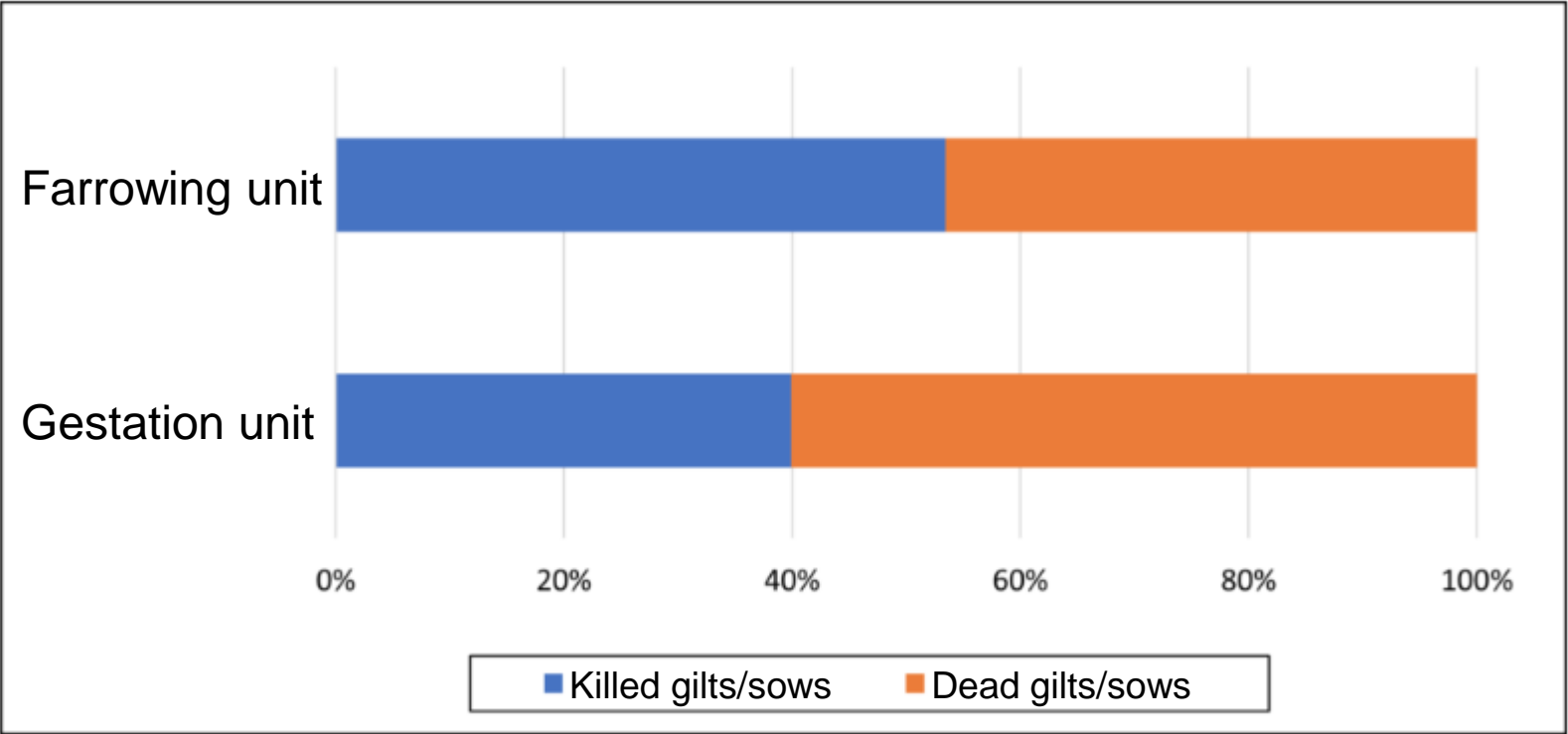
Sow mortality



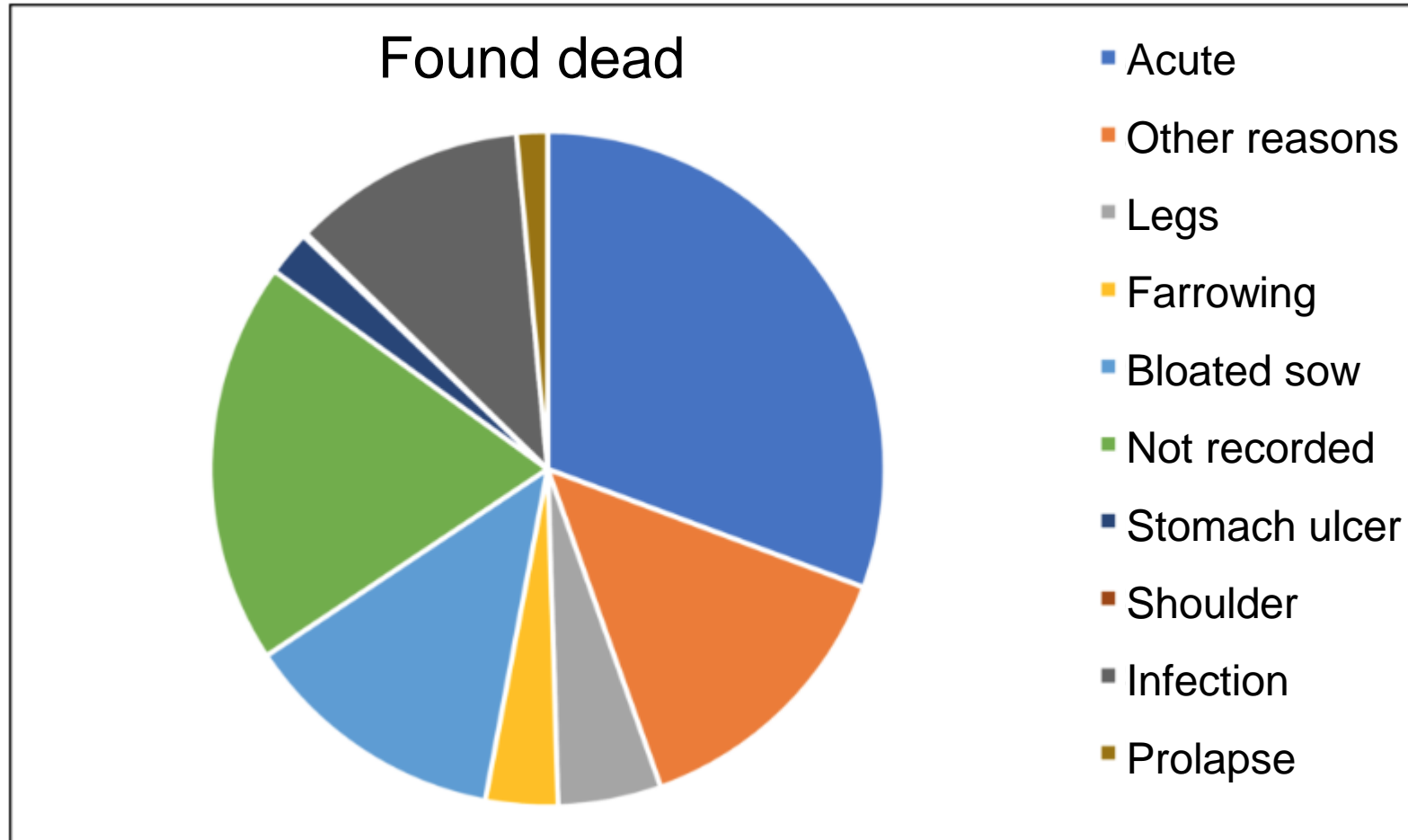
Number of sows in Denmark



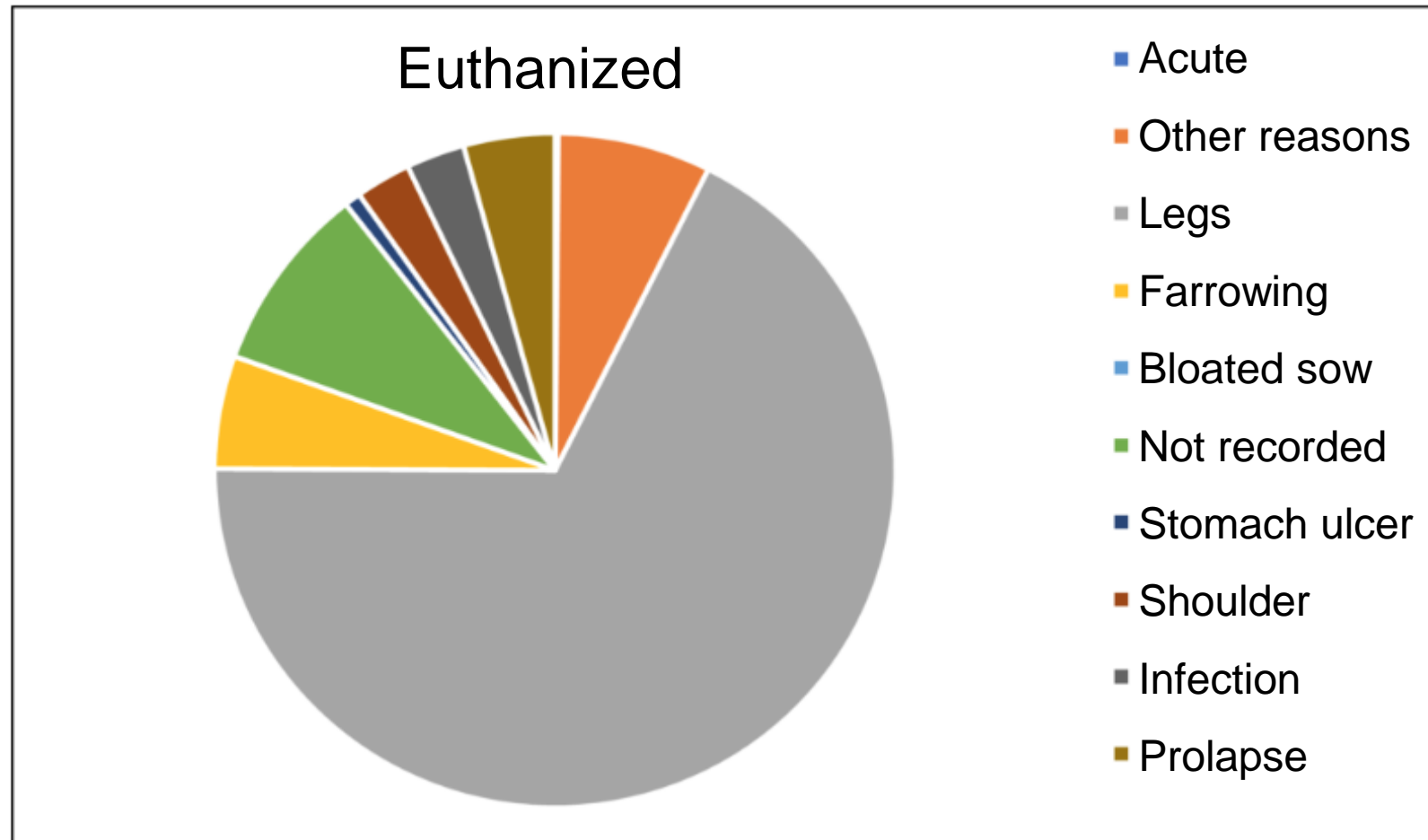
Distribution of dead and euthanized according to section



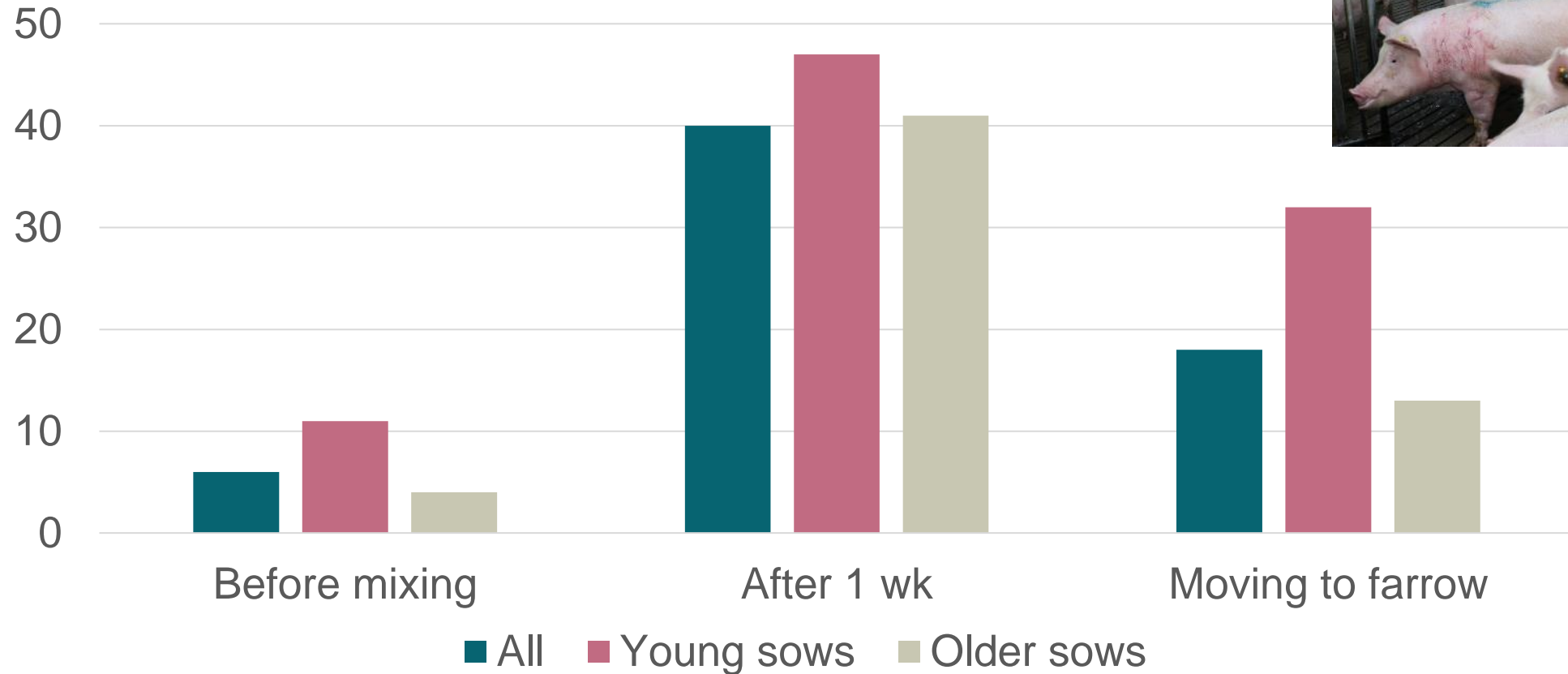
Farmer registrations – sudden death in sows and gilts



Farmer registrations – euthanized sows and gilts



Sows with leg problems – mixing



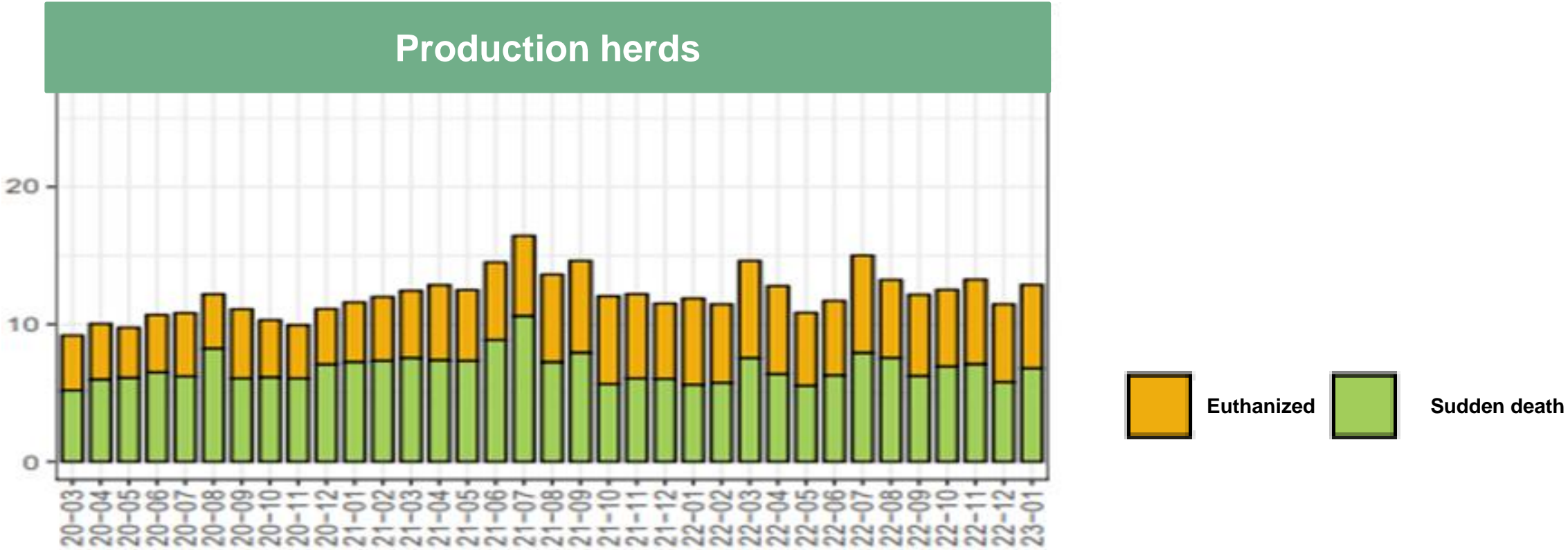
Hansen, 2020

We collect information from Danish sow herds

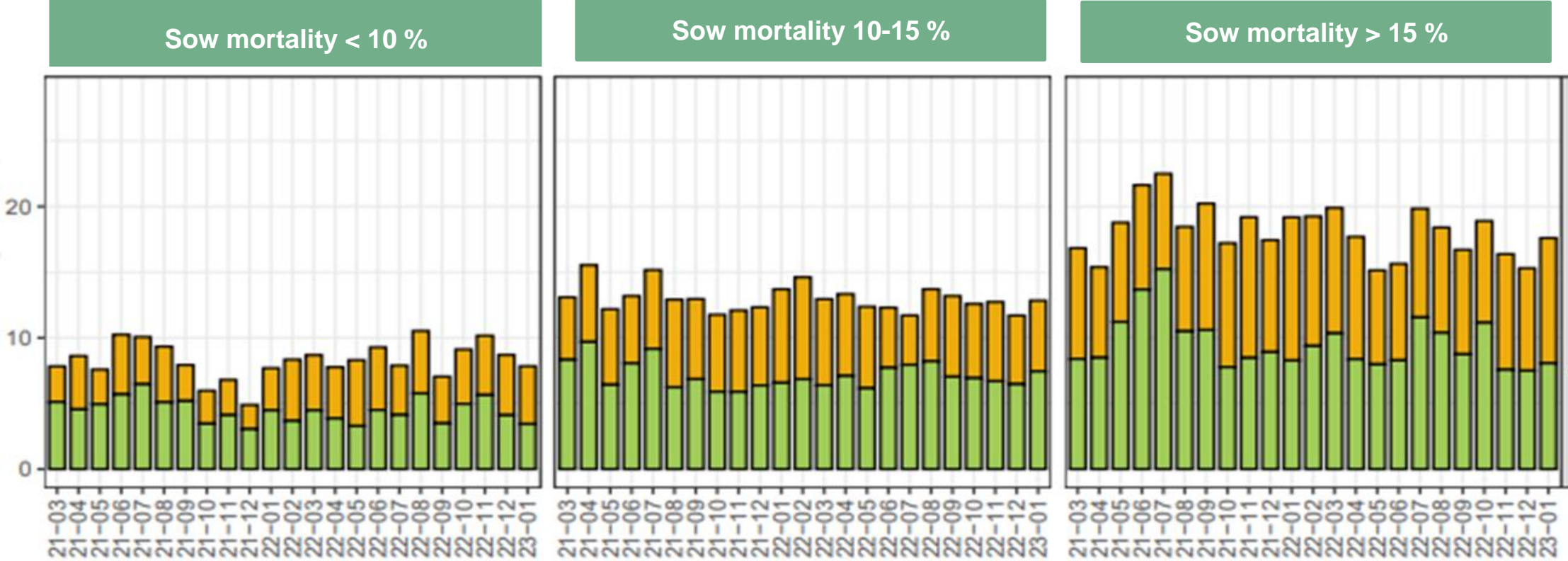
- Today we gather information from 200 Danish sow herds
- Those are both production herds and breeding herds
- We identify and analyze patterns in data



Sow mortality in production herds



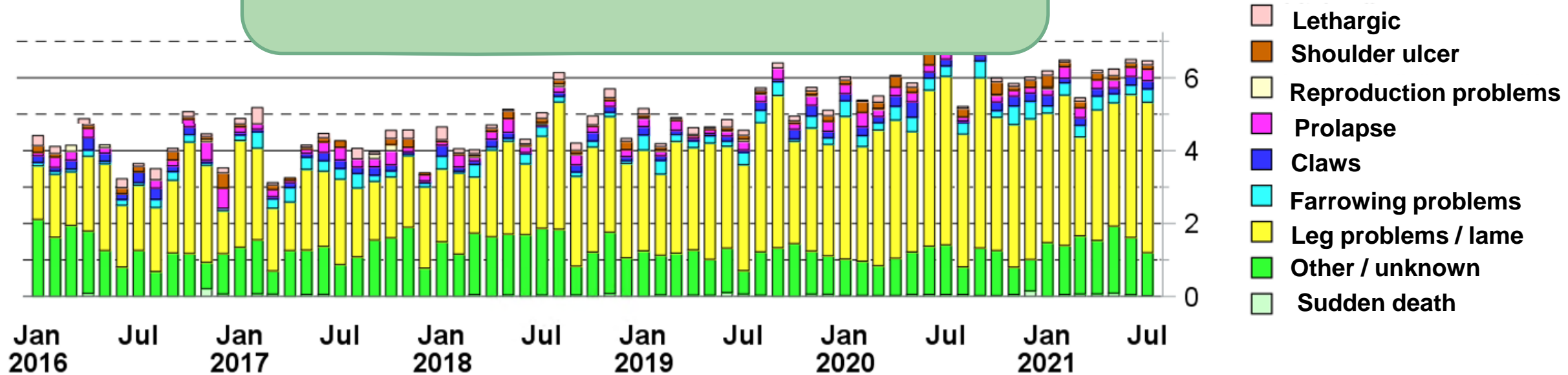
Dead and euthanized according to mortality level



Euthanized
 Sudden death

Sow mortality - causes of euthanization

60-70 percent of the sows are euthanized due to claw or leg problems



Why are Danish sows euthanized and not send to slaughter?




Fitness for transport

EU regulations and Danish regulations

Not fit for transport:

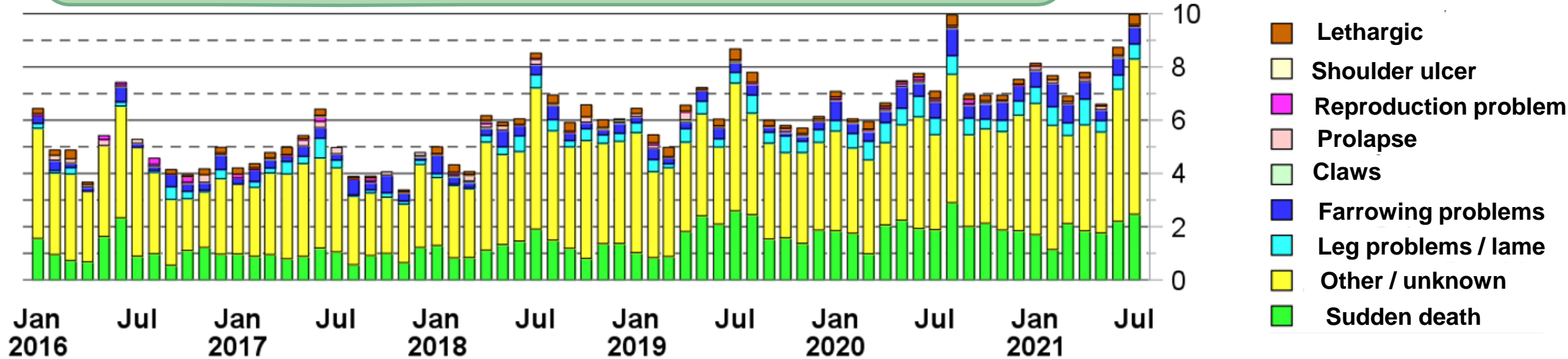
- Lame sows
- Sows with severe wounds
- Sows with a prolapse
- Sows who are generally affected

Where is the limit?

		
Buckled forelegs (knuckling) Assessment: Fit for transport	Deformed hooves Assessment: Fit for contingent transport	Hock inflammation Assessment: Fit for contingent transport
		
Hoof anthrax Assessment: Not fit for transport	Dislocation Assessment: Not fit for transport	Lame support on foreleg Assessment: Not fit for transport

Sow mortality – causes of sudden deaths

80 percent of sudden deaths are of unknown reasons



SEGES Innovation – sow mortality campaign since 2020



Management of gilts



Inspection of sows



Housing of sows



Sow mortality in summer

Campaign on sow mortality



SOLIV 2.0 - TAG HÅND OM DINE SØER

FLERE SØER SKAL OVERLEVE: TEMASIDE OM HØJERE SO-OVERLEVELSE

Dødeligheden blandt danske søer er i de seneste år steget. Der er flere ting, du kan gøre i stalden for at nedbringe andelen af døde søer. Godt management med fokus på udvælgelse af polte og dagligt tilsyn i stierne er helt afgørende for at få en højere so-overlevelse.

En målrettet indsats og en viden om, hvorfor dine søer dør, kan gøre en forskel på at få hævet so-overlevelsen. På denne side får du viden om, hvad du skal være opmærksom på - og hvor du skal sætte ind, hvis du ønsker at hæve so-overlevelsen i din besætning.

- UDVÆLG DE RIGTIGE POLTE +
- DET DAGLIGE TILSYN +
- NÅR SOEN ER SYG: SYGESTI OG SYGEJOURNAL +
- FOREBYG BEN- OG KLOVSKADER +
- FÅ FÆRRE SELVDØDE SØER +



SEGES

Mikael Andersen
Svineproducent, Dalmose

Tre 1000-ton siloer.

Video: Forebyg skader ved at gå fra dynamiske grupper til stabile grupper



SoLiv 2.0

Når vi siger dynamiske grupper, så betyder det, at hver uge kommer der søer ind i flokken og hver uge -

Stabile grupper kan være med til at forebygge ben- og klovskaeder hos søerne, fordi der ofte kun være væge rangkampe de første dage.

Video: Highlights fra So-seminar 2021 om avl, opformering og selektion af polte



REDUCER DIN SODØDELIGHED MED HOLDBARE POLTE

Gunner Sørensen, Thomas Bruun, Martin Mølgaard fra SEGES Svineproduktion og Tanja Jensen, Danbred

13. april 2021

Webinar: Bliv sommer klar i soholdet



SEGES

SoLiv 2.0

Dette webinar handler om, hvordan du bedst går de varme måneder i møde i dit sohold, og hvordan du tømmes din silo og undgår toksiner i foderet. Begge dele kan være med til at hæve so-overlevelsen.



SEGES Svineproduktion
21. august

SEGES Svineproduktion har spurgt dyrlæge Andreas Birch, hvordan du som svineproducent kan reducere din sodødelighed 🐷👉
Se hans gode råd i videoen 📺

Andreas Birch
Dyrlæge, Ø-Vet

Det allerførste man skal gøre er at være opmærksom på, når man ønsker at reducere sodødeligheden. 0:47

SVINEPRODUKTION DK
Læs mere på vores temaside SoLiv 2.0

Charlotte Sonne, Lola Kathe Tolstrup og 33 andre · 1 kommentar · 2 delinger

Other challenges

- Environment
- CO2 taxes
- Ban on zinc oxide
- Restrictions on antimicrobial use
- Consumer mindset –health issues...

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