

A large, white pig is the central focus of the image, standing in a barn. The pig has a pinkish-white skin tone and is looking slightly to the left. In the background, other pigs are visible, and the barn's metal structure and lighting are partially seen.

Welcome to Nedap Company Presentation

05-12-2018



nedap.com/pigfarming

Business Development Manager Asia - Pacific

Hans Hoevink



I believe innovation and technology are the keys to a sustainable global food production feeding 9 billion people.



8 Business Units



Healthcare



Identification
Systems



Library
Solutions



Light
Controls



Livestock
Management



Staffing
Solutions



Retail



Security
Management

Mission

"Moving markets
with technology
that matters."

We observe. We create. We scale.



Nedap Livestock Management designs and develops clever solutions for livestock farming, worldwide.



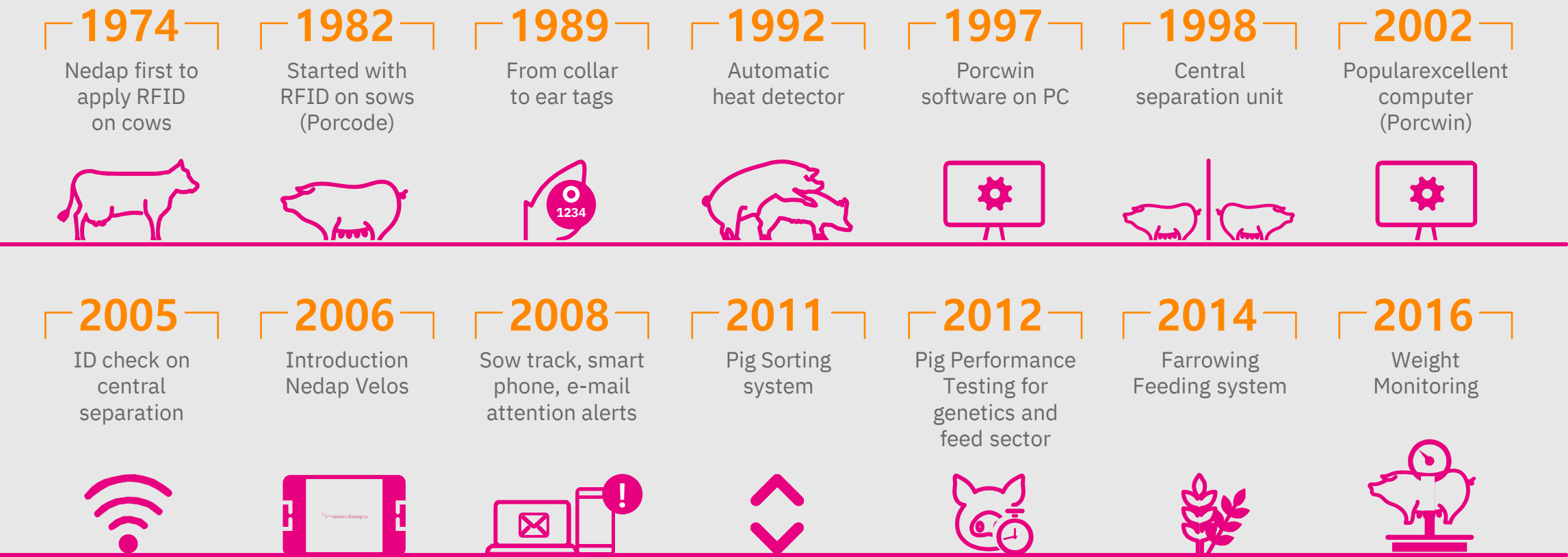


Nedap Livestock Management **It makes Sense**

Smart, sustainable
solutions for the entire
production cycle

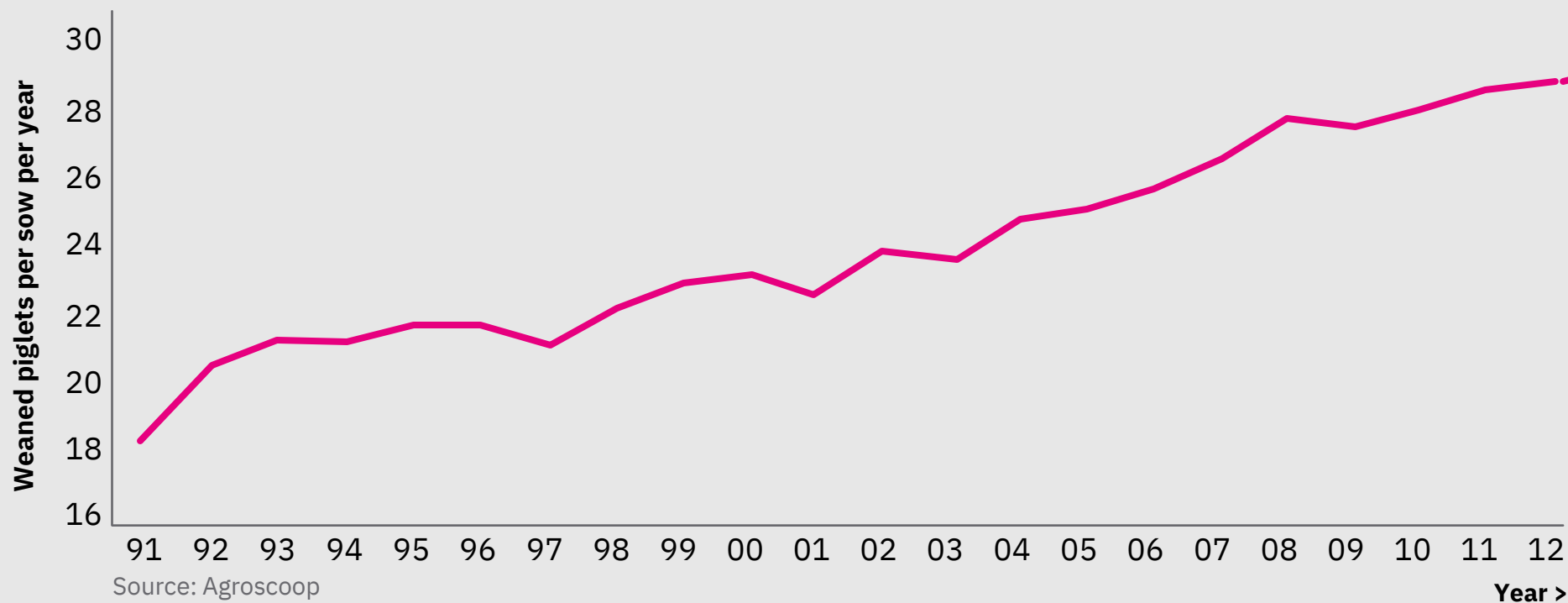
Introduction

History





Increasing number of piglets...



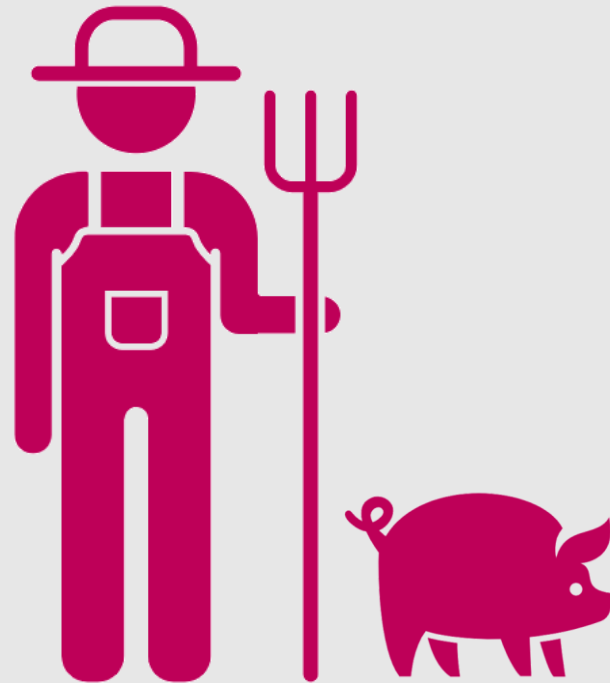
Pig Farming



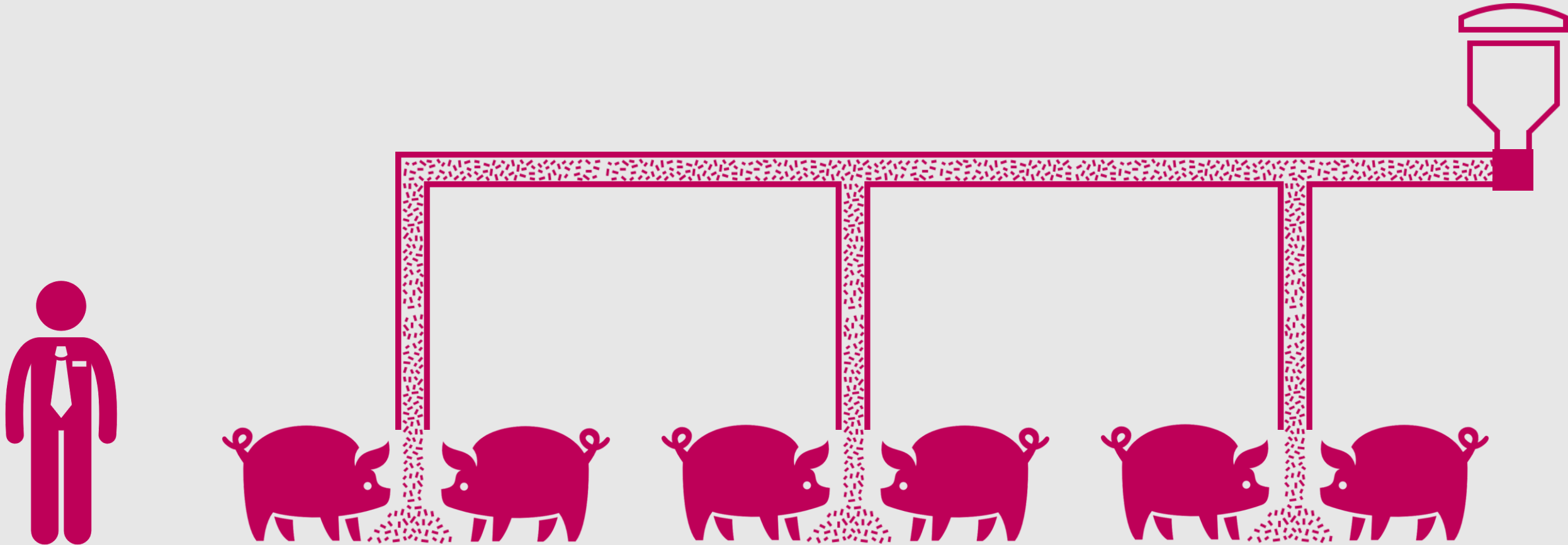
Individual Pig Management for their
entire production cycle



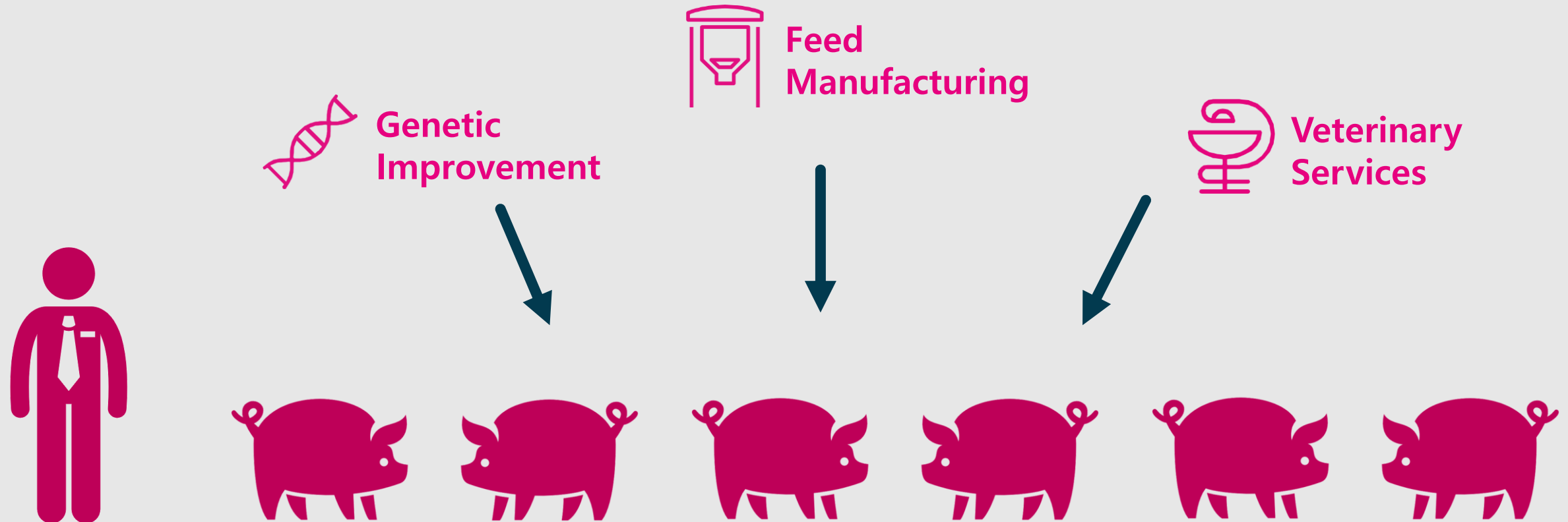
Not hard to stay in touch with 1 pig



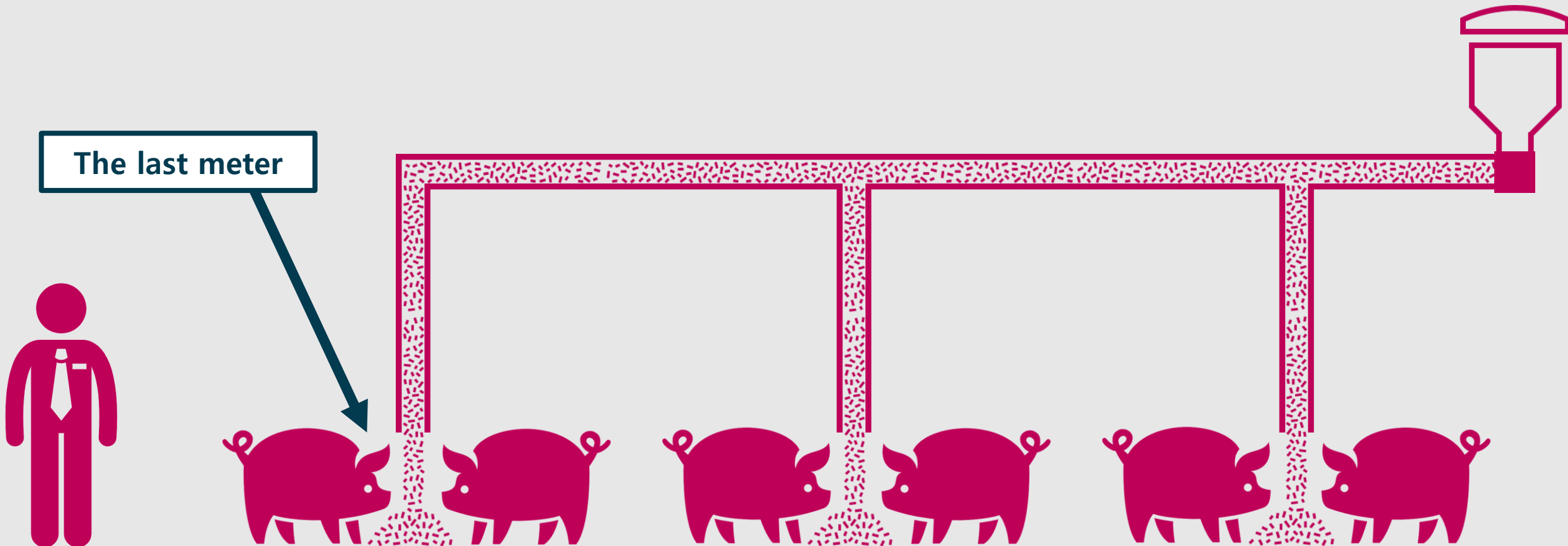
But numbers increased and processes got mechanised



Inputs developed to perfection



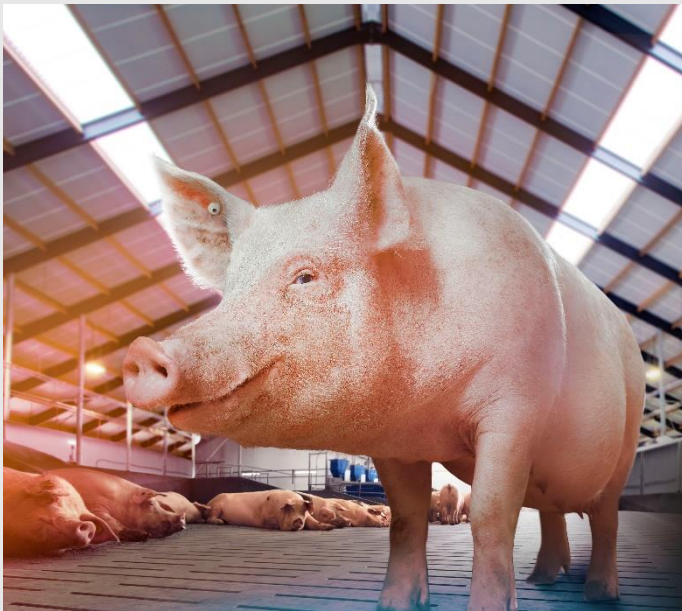
The last meter problem



Nedap Propositions for Precision Pig Production



It makes
Sense



Nedap SowSense



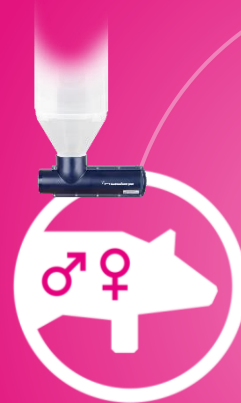
Nedap ProSense



Nedap PorkSense

Nedap SowSense

Nedap Breeding Stall Feeding
Stimulating fertility by desired feed intake pattern after weaning



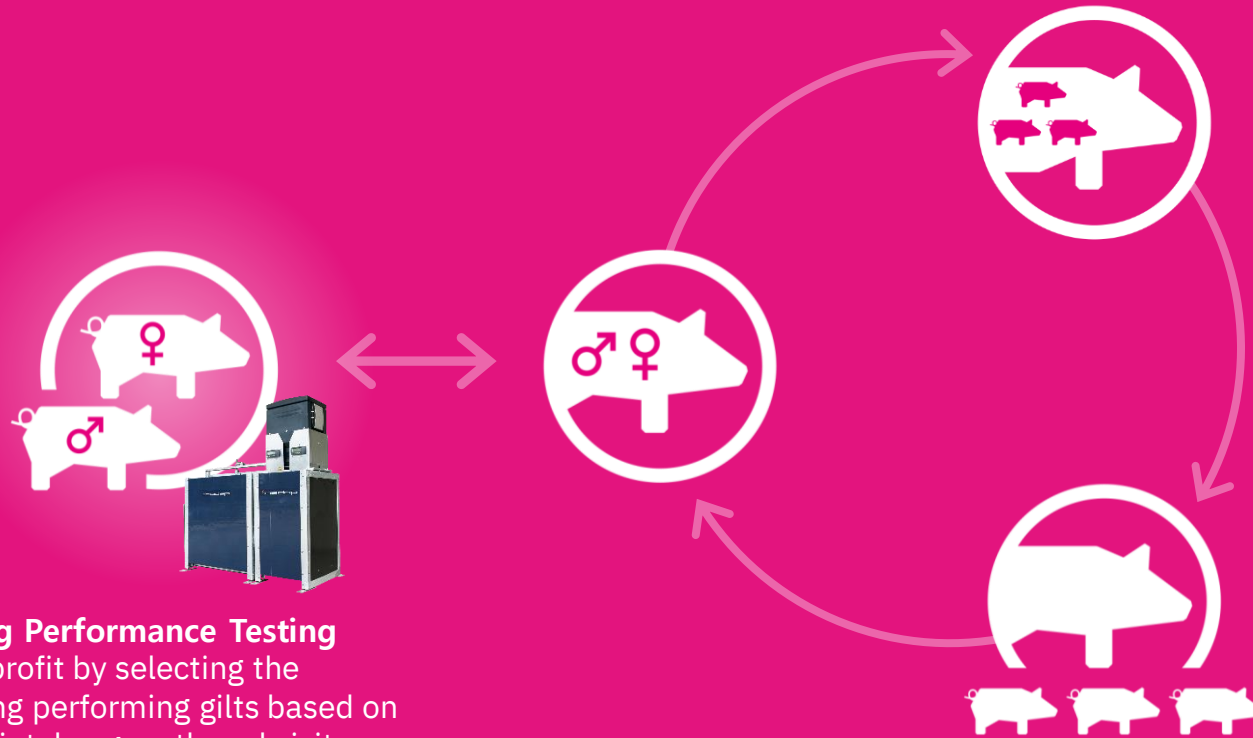
Nedap Electronic Sow Feeding
Increases piglet production by best sow body condition



Nedap Farrowing Feeding
Increases sow's milk production by maximizing feed intake



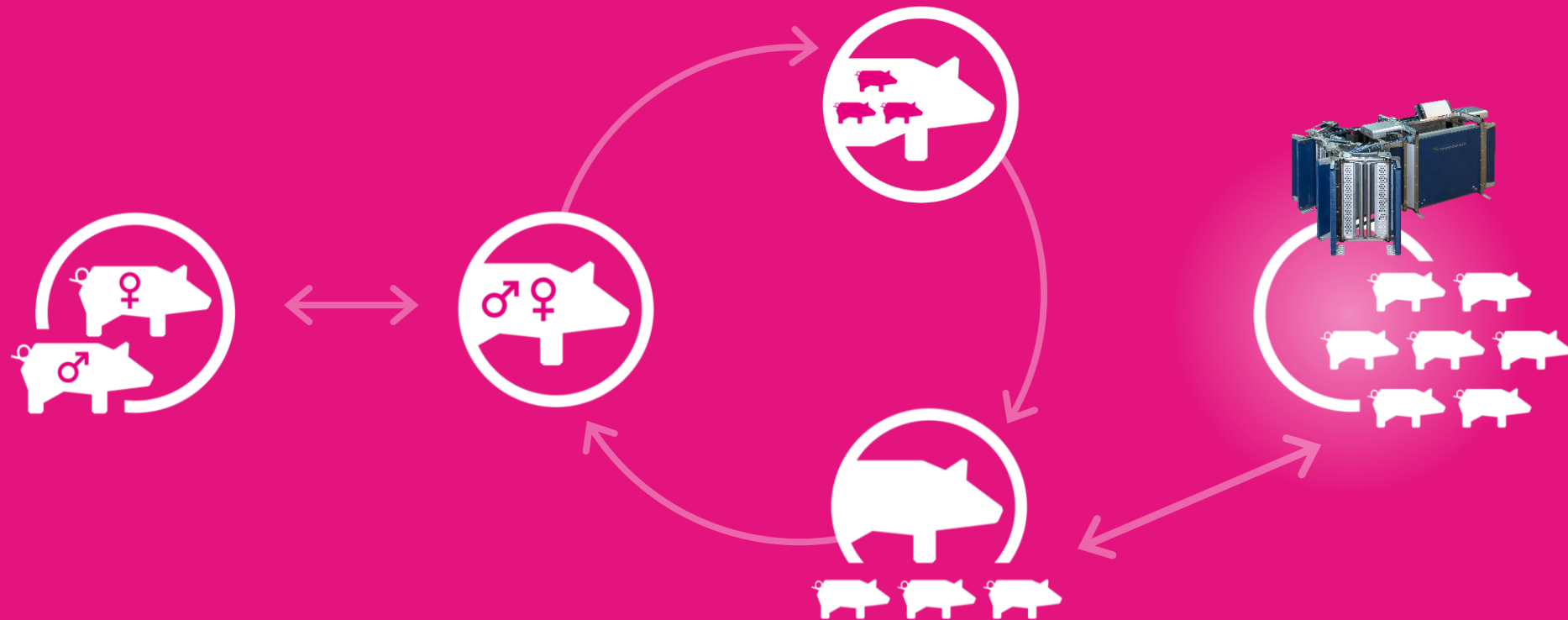
Nedap ProSense



Nedap Pig Performance Testing
Increase profit by selecting the outstanding performing gilts based on FCR, feed intake, growth and visit behaviour



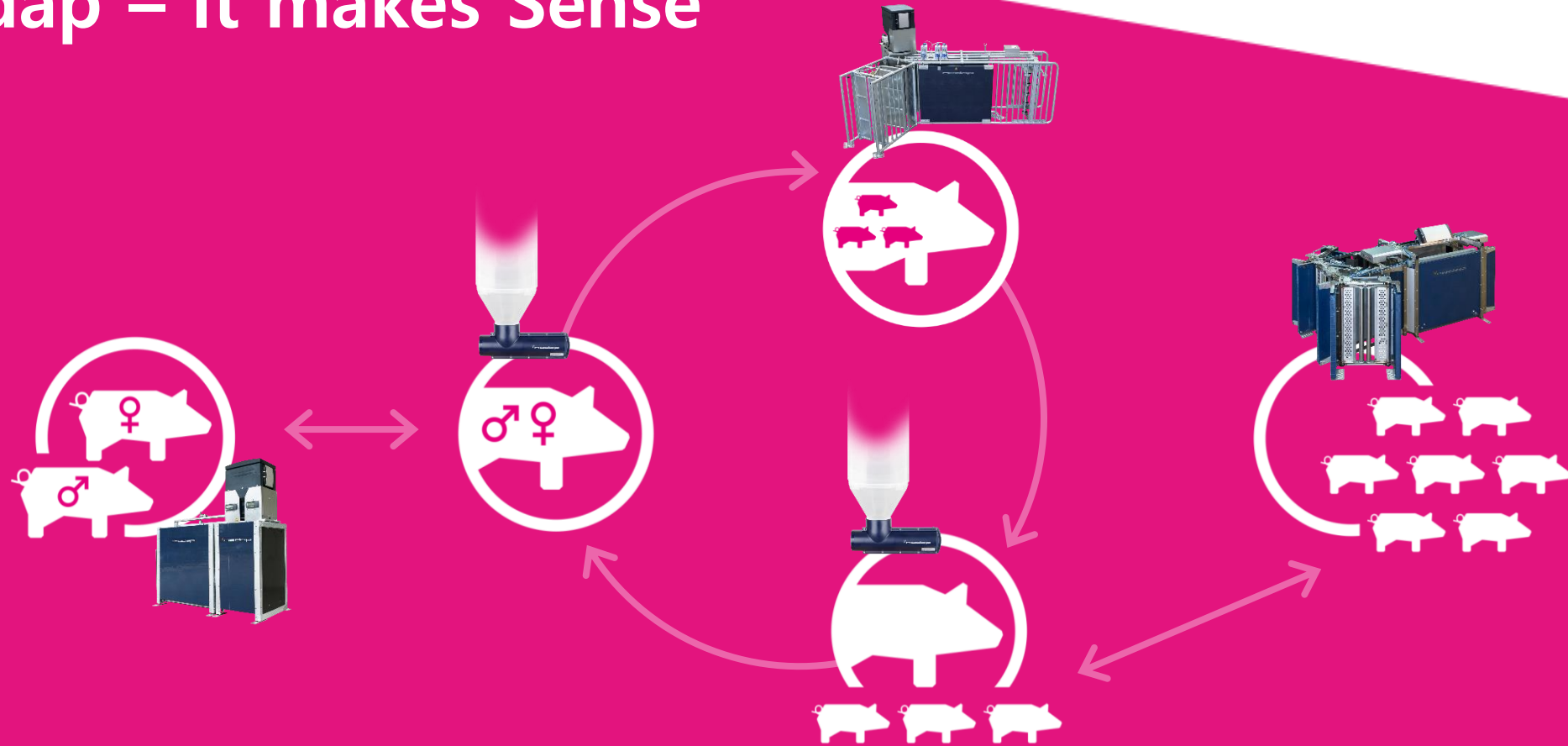
Nedap PorkSense

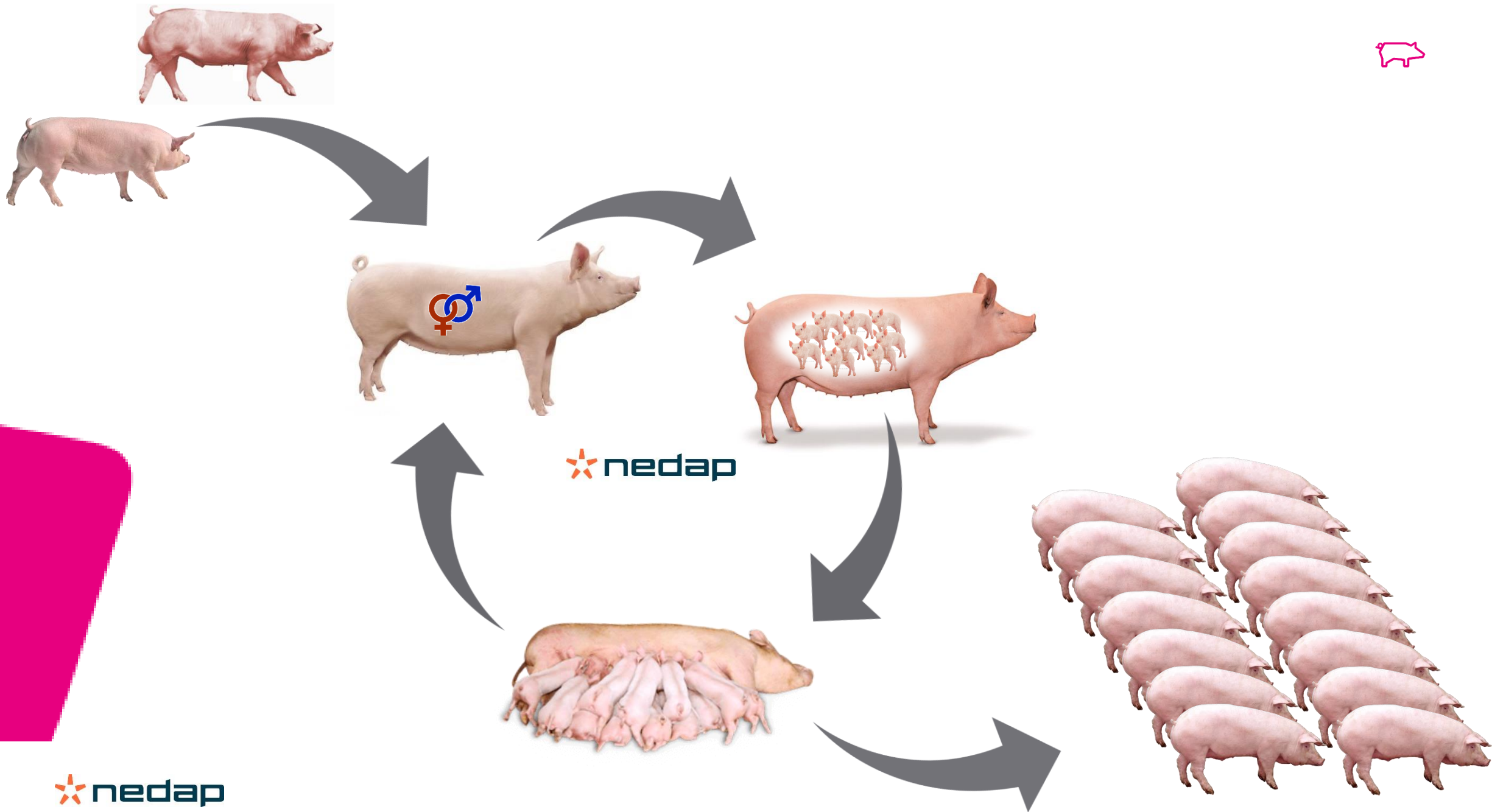


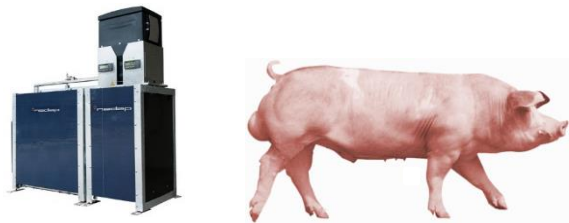
Nedap PorkTuner
Increases profit by
feeding according to
weight and exact
sorting for slaughter



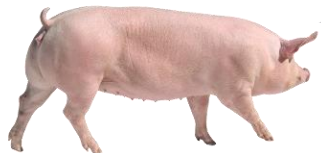
Nedap – It makes Sense



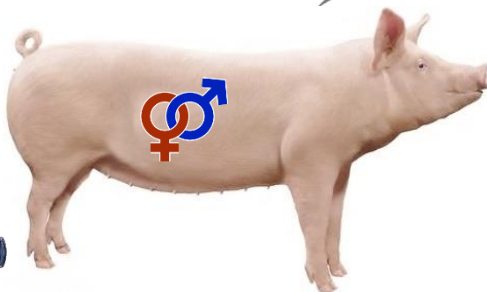




Nedap
Pig Performance Tester



Nedap
Breeding Stall Feeding



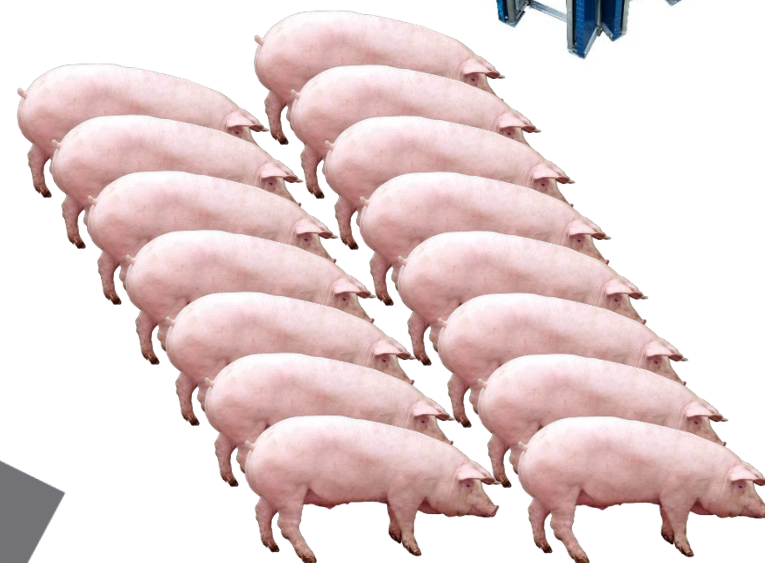
Nedap
Electronic Sow Feeding



Nedap Farrowing Feeding



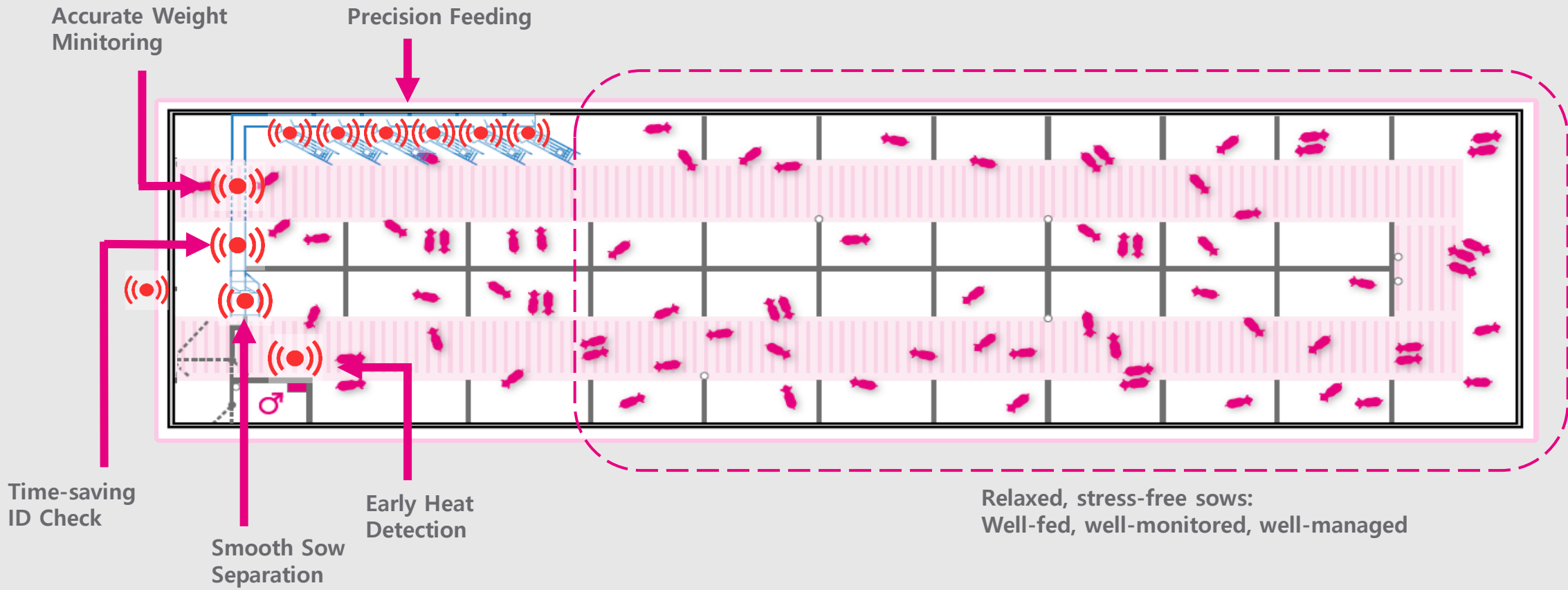
Nedap
PorkTuner



Nedap Electronic Sow Feeding



Sensored by Nedap



Livestock Management

The benefits



Electronic Sow Feeding



Sows in top condition, more uniform piglets



Precision feeding



Less feed wastage



Customize and update feed plans with ease



Retrofit for existing sow buildings



Stress free and relaxed sows



Secure, web-accessible software to manage herds anytime, and from anywhere



The benefits



Weight Monitoring



Feed sows more accurately based on sow bodyweights



Automatically tracks the sow's weight development



Saves feed, support production



Integrated within Nedap ESF concept



Information is online available through Nedap's software dashboard

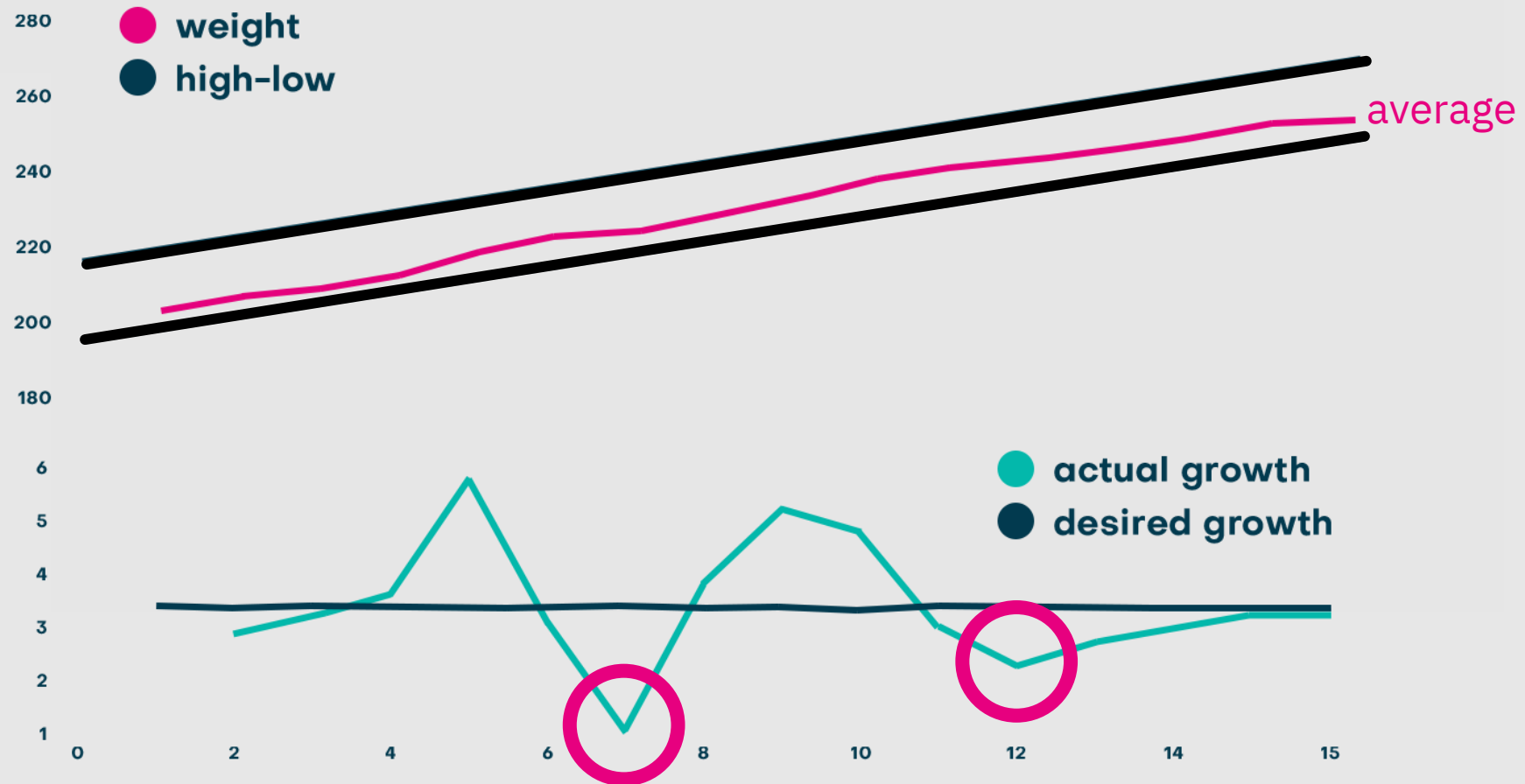




Monitoring of individual sow weights during gestation

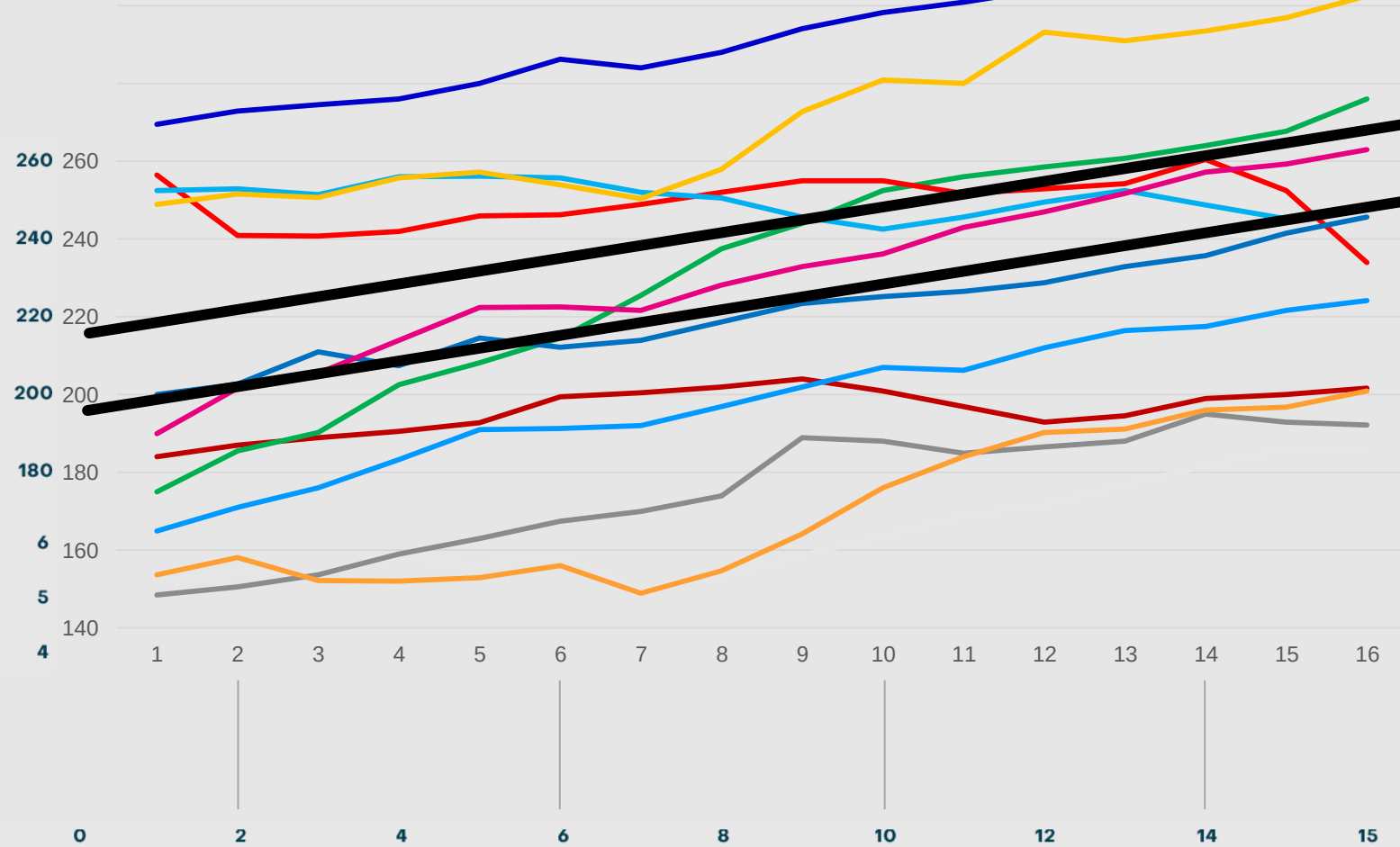


Sow weights and growth

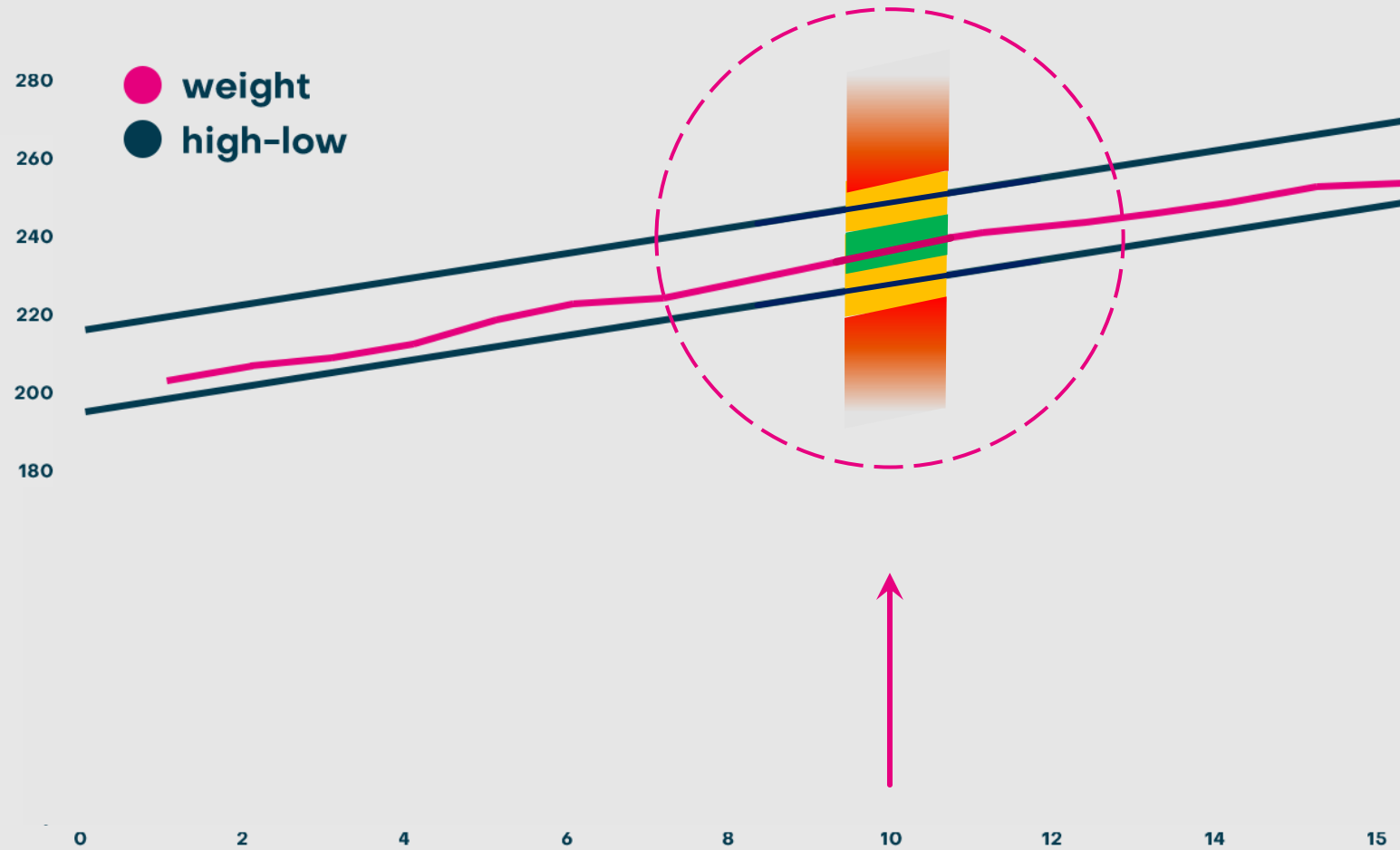




Sow weights and growth

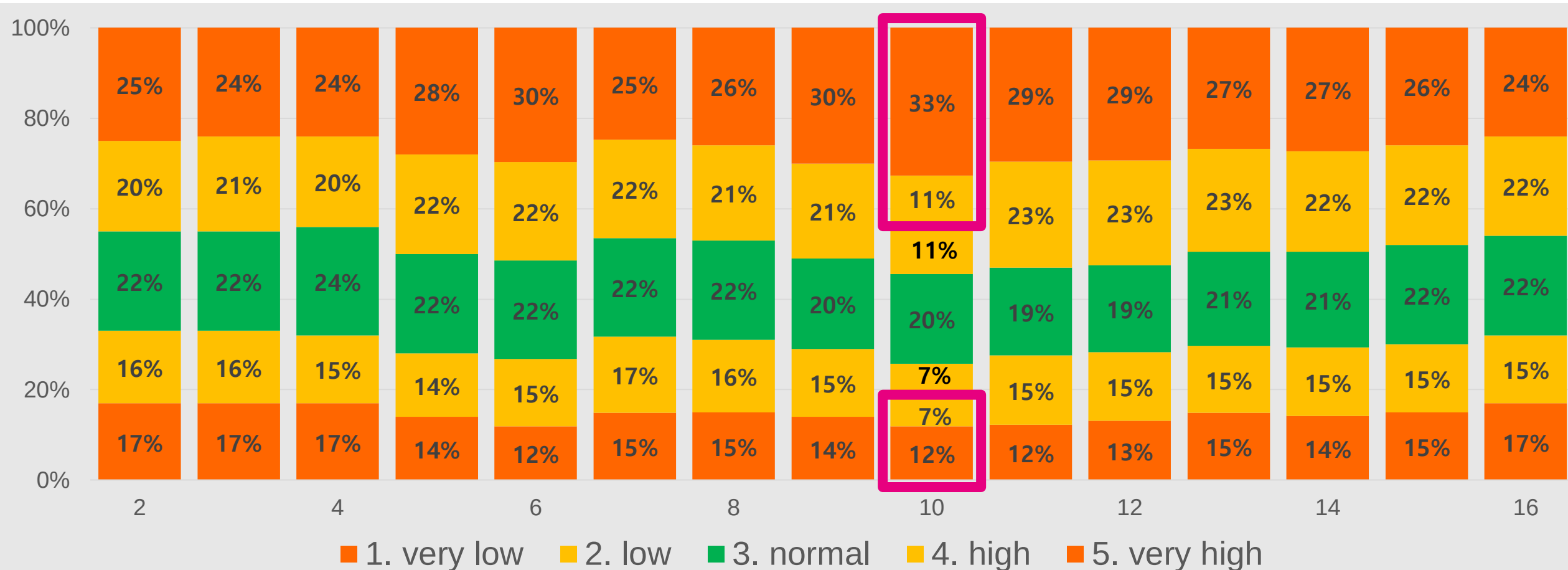


Sow weights and growth



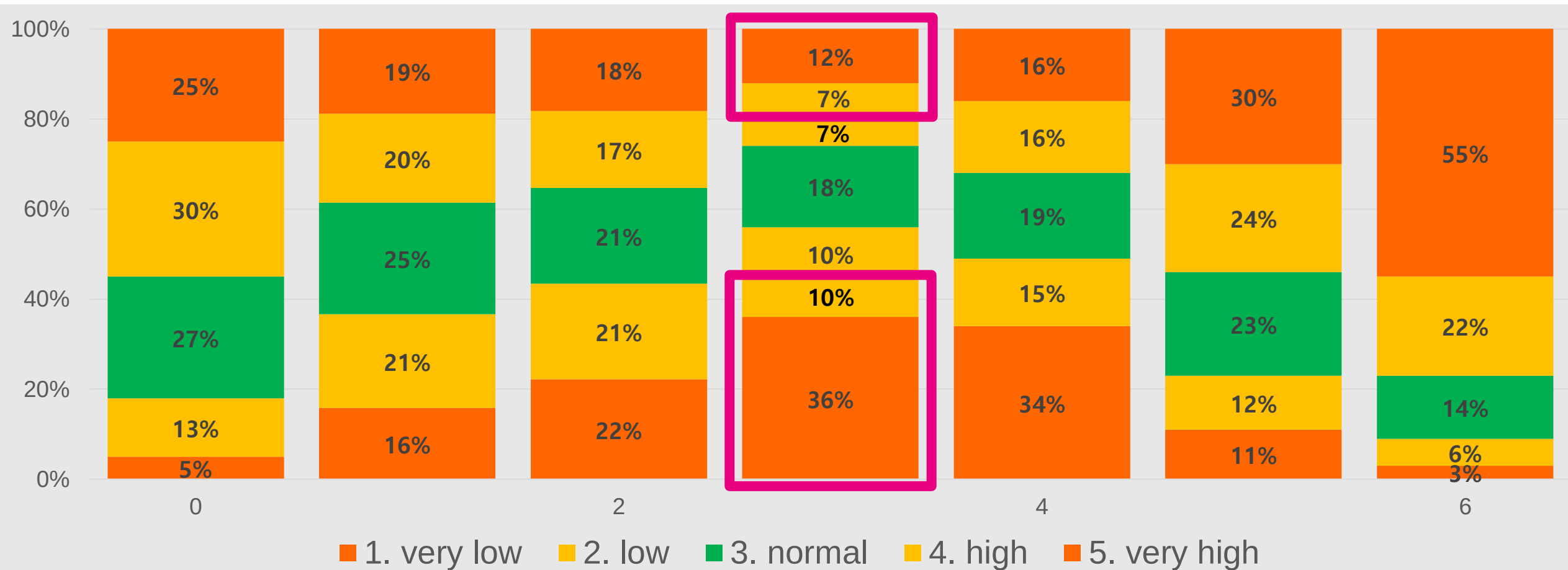


Classification of sow weights per week in gestation



62%!

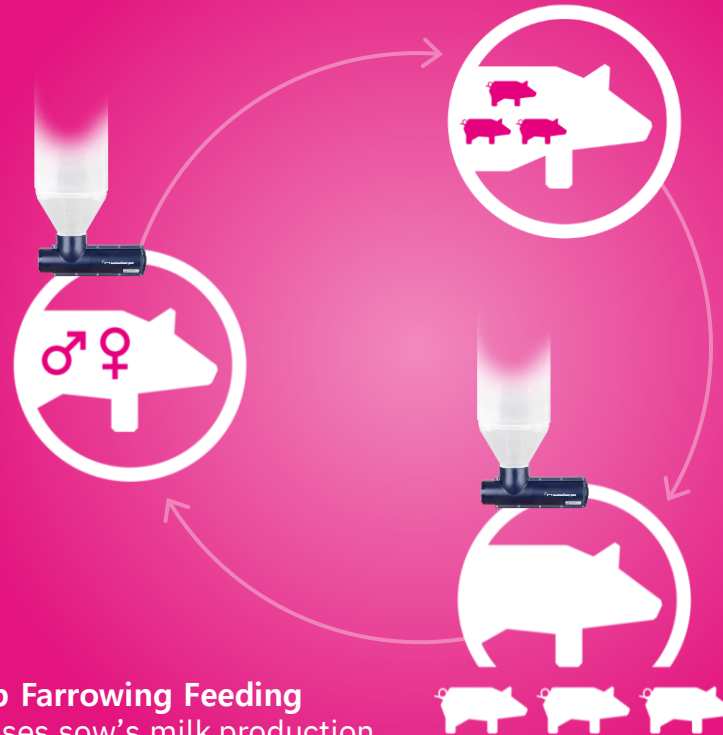
Classification of sow weights in gestation by parity



65%!

Nedap SowSense

Nedap Breeding Stall Feeding
Stimulating fertility by desired feed intake pattern after weaning



Nedap Farrowing Feeding
Increases sow's milk production by maximizing feed intake

Nedap Electronic Sow Feeding
Increases piglet production by best sow body condition

The Product

Nedap Farrowing Feeding



The benefits



Farrowing & Breeding Stall Feeding



Automated, precision feeding
- 24/7



Higher feed intake



Better milk production



Heavier uniform piglets



Ideal body condition for re-breeding



Earlier in heat, higher farrowing rate

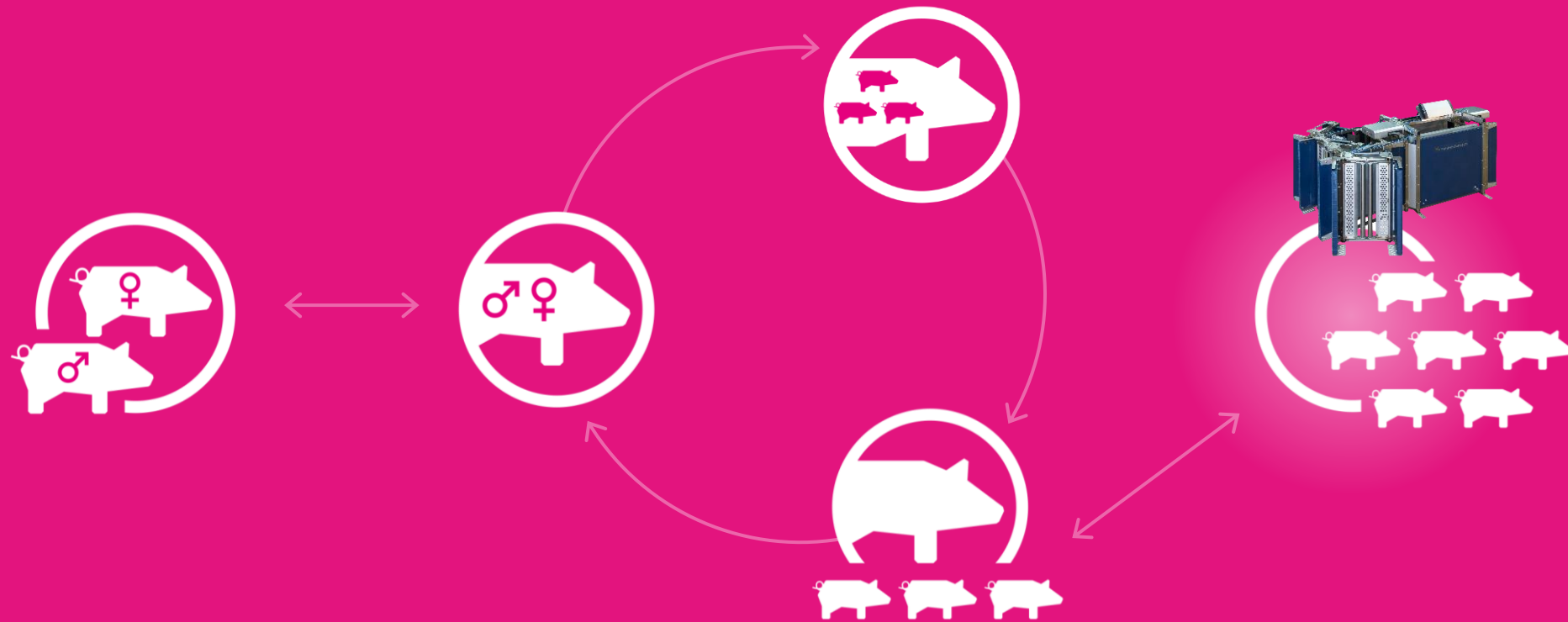




Scandinavian Farm
7700 Sows



Nedap PorkSense



Nedap PorkTuner
Increases profit by
feeding according to
weight and exact
sorting for slaughter

What is the challenge?

Manual selection and sorting of >100 kg pigs is inaccurate and labor intensive



The Benefits

Nedap PorkTuner



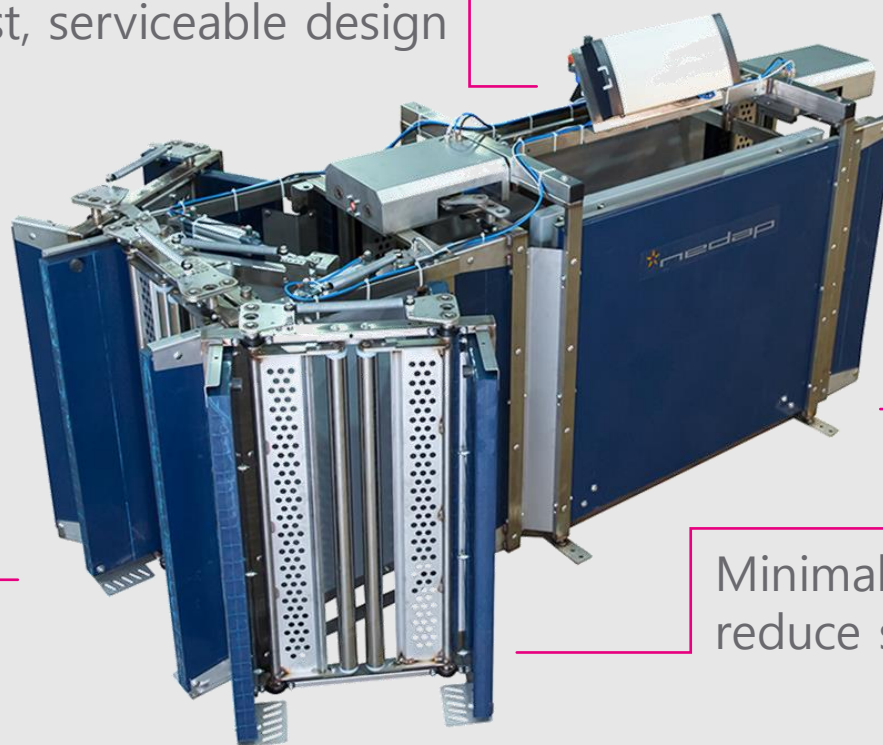
Robust, serviceable design

Data is securely stored locally and available online

Wear and tear parts are easily replaceable

Fully constructed from stainless steel and PP plastic panel

Minimal operational adjustments reduce setting failures



Livestock Management

The benefits



<> PorkTuner



Right feed type to the body weight



All pigs at target weight



Accurate days-to-market forecasts



Lower labor costs



More kilos sold



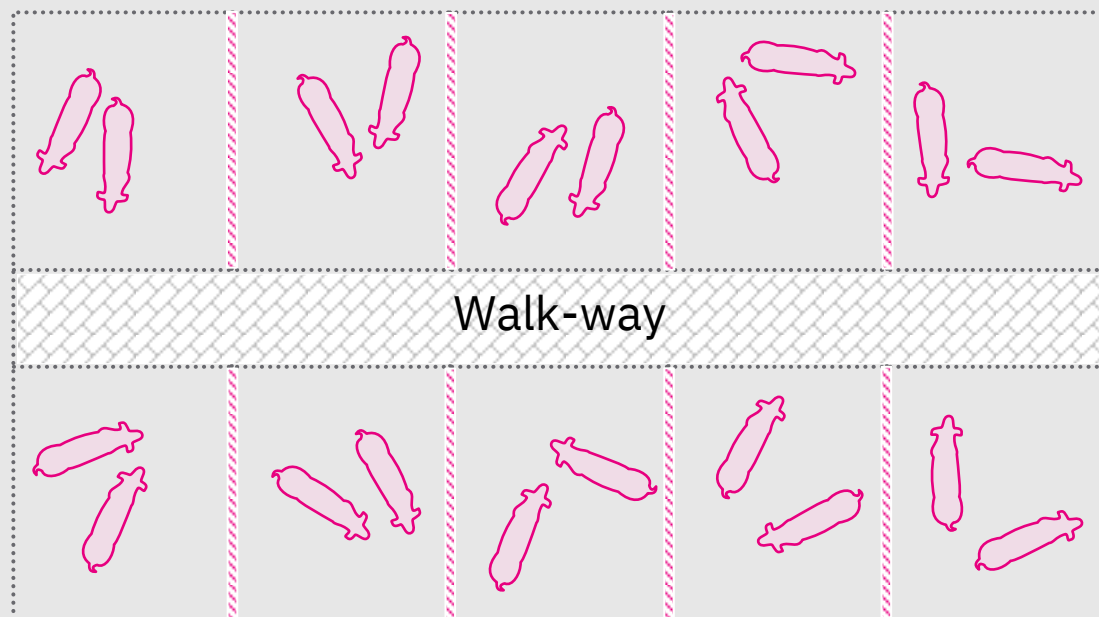


The Benefits

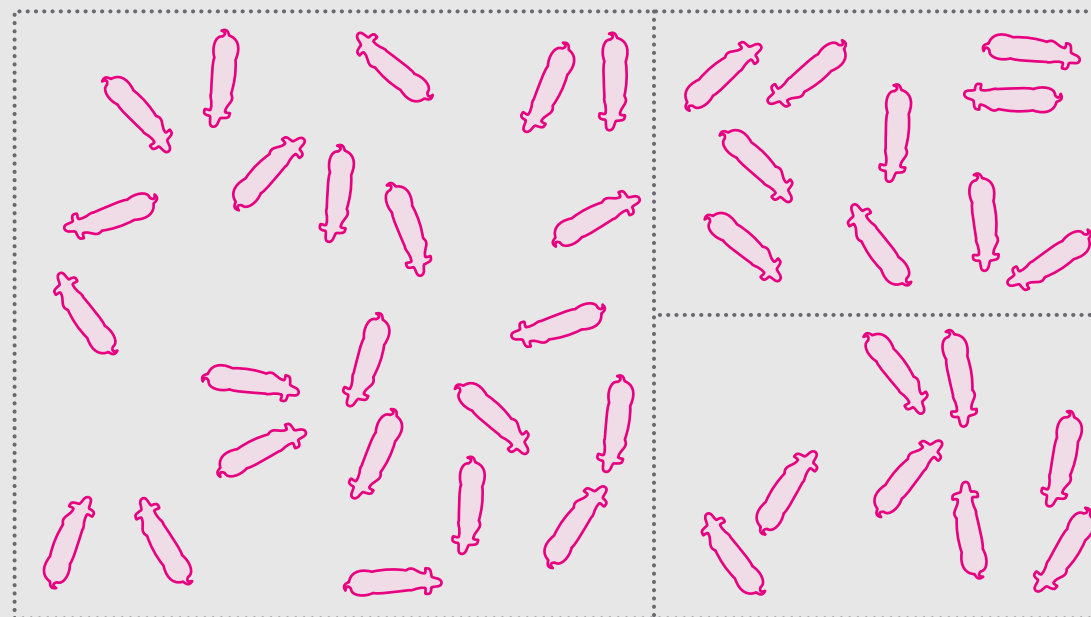


More efficient use of floor space: More Meat per M²

Traditional situation : 10 - 40 pigs per pen/group



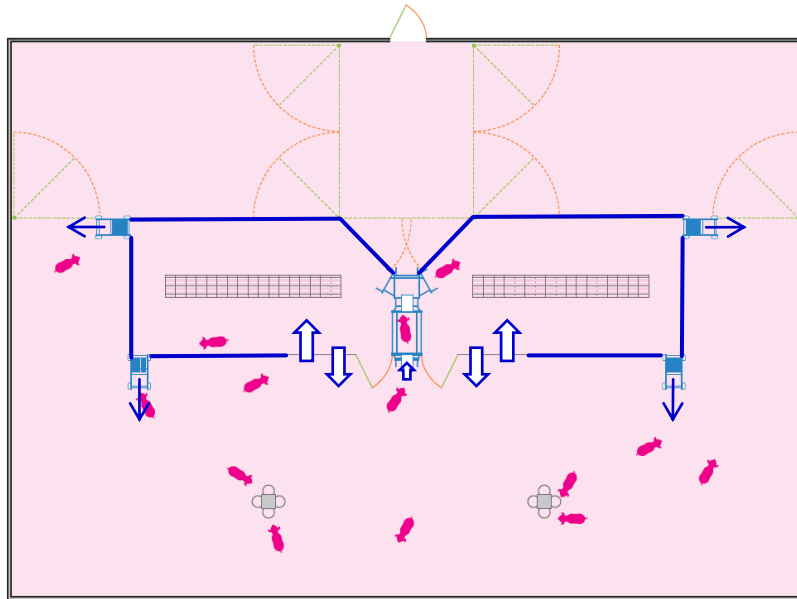
Nedap PorkSense: 300 – 500 pigs per pen/group



- 99% of the floor-space is available for the pigs;
- 10% more effectively use of the floor space

The Product

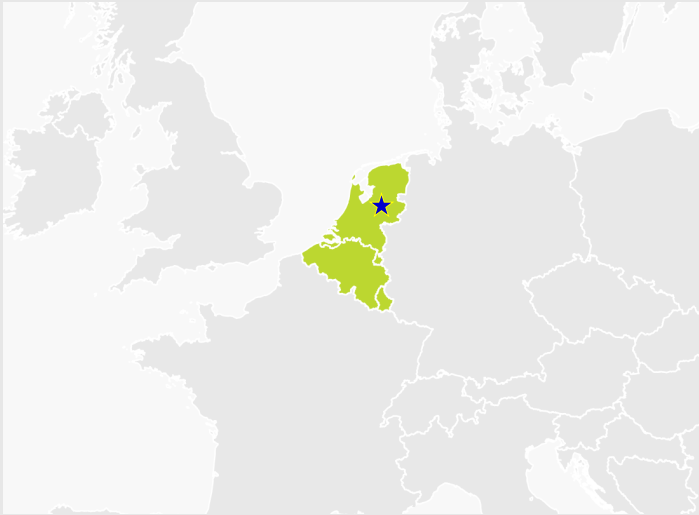
Nedap PorkTuner



Learning Phase

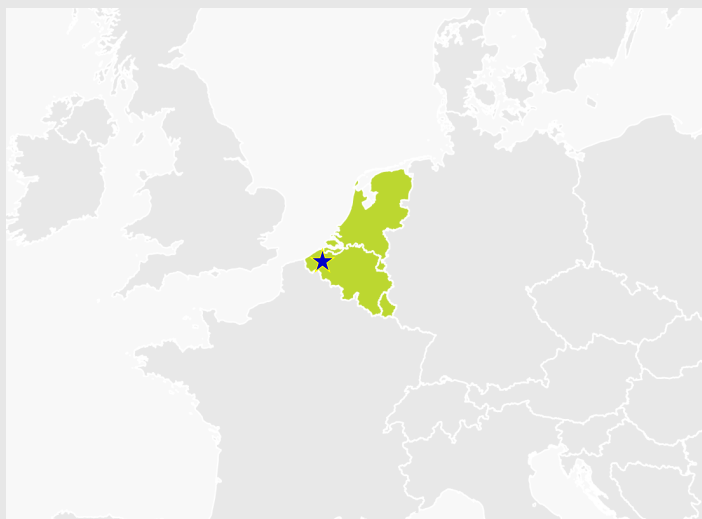
Satisfied Users

Rick Bosgoed - Netherlands



Satisfied Users

Bart Vanackere - Belgium



Dashboard

Farm

Deliveries

Feeding

Settings

Maintenance

Logout

Delivery forecast

	18 Mo	19 Tu	20 We	21 Th	22 Fr	23 Sa	24 Su	25 Mo	26 Tu	27 We	28 Th	29 Fr	30 Sa	31 Su	...	7 Su	...	14 Su
112 - 125 kg	85	99	109	120	121	130	142	159	172	192	197	208	219	225		279		350
125+ kg	16	17	21	25	25	31	36	41	47	52	52	59	68	77		160		281

Service

Network ✓
 Register vpu-online.com domain ✓
 Contacts / users ✓
 Add BI account for remote service ✓

Deliveries

Type	Location	Progress	Actions
No data available in table			

Feeding phase transition

Location	Exit	Next phase	Optimal switch moment
No data available in table			

System notifications

V-pack firmware (2) >

Farm

8
Locations

2954
x

0 Empty
 2 Learning
 0 Learning finished
 6 Sorting
 0 Prepare for delivery
 0 Delivery

[Go to farm overview >](#)

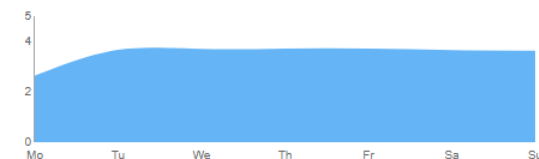
Growth



819 Yesterday
(g / day)

— Trend

Visits



3.6 Yesterday

— Trend

Examples of Nedap's new 'management dashboard' for Nedap PorkTuner, to manage large groups of pigs in an accurate, easy and optimal, professional way.

Dashboard

Farm

Deliveries

Feeding

Settings

Maintenance

Logout

Farm overview > 7. Afdeling 7

7. Afdeling 7

Animals 375
 Sex Gilts and barrows
 Breed pic408/top40/50
 Supply date 09-11-2017 14:18
 Supply weight 26.9 kg
 Completed days 39
 Average visits 5.0
 Average growth 876 g / day
 Average weight 61.1 kg

Animals:

Comment:

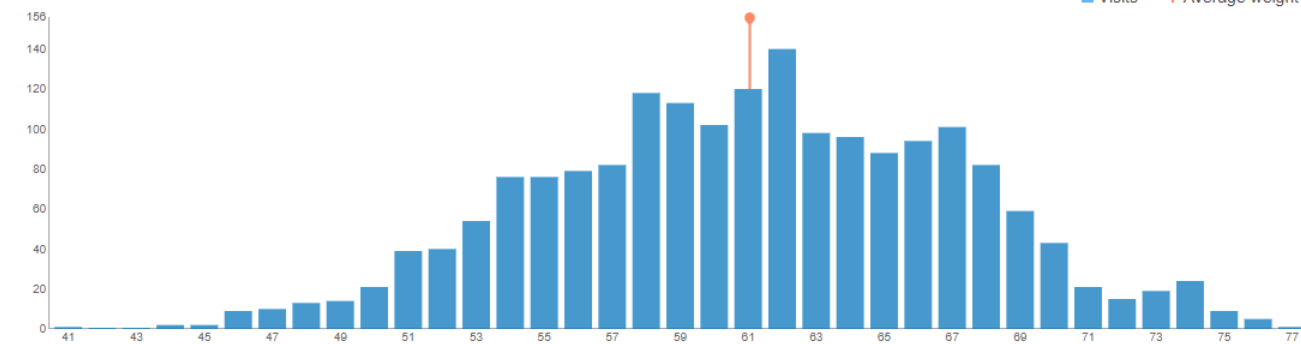
Events

Weight distribution

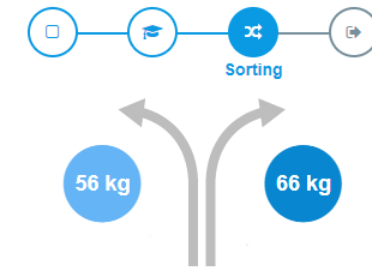
Visits per hour

Growth

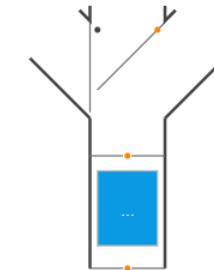
Visits



State



Monitor



administrator | technology by nedap :: version v5.53

Examples of Nedap's new *'management dashboard'* for Nedap PorkTuner, to manage large groups of pigs in an accurate, easy and optimal, professional way.



Start new delivery: Heavy animals

Sex

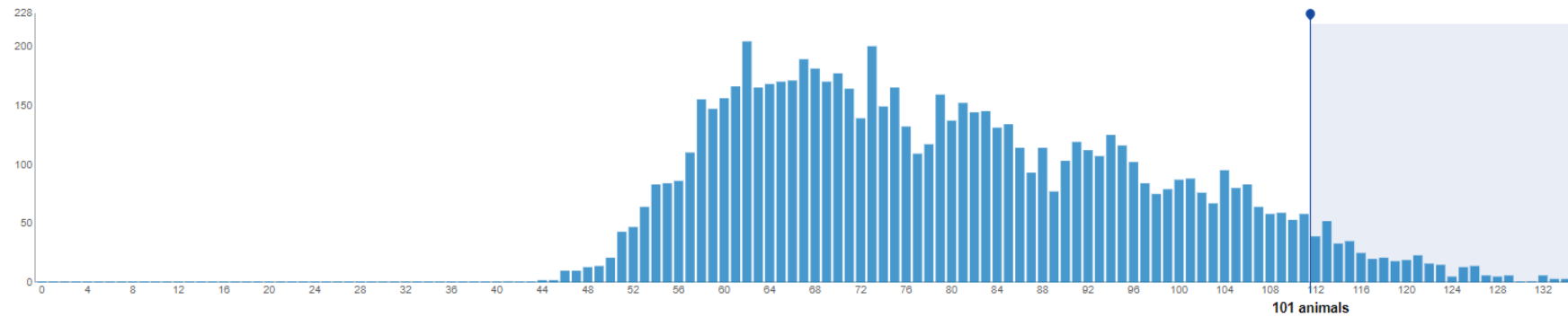
All animals

♀ Gilts / ♀ Barrows

≥ 112 kg

♂ Boars

≥ 112 kg



Location	Sex	State	Days	Average weight	Animals	# available	To deliver	Deliver all animals
2	♀♀	Sorting	94	106.4 kg	368	100	0	☐
3	♀♀	Sorting	80	90 kg	369	1	0	☐

Total: 0 animals

☐ Yes, there's enough room to deliver selected animals

Start delivery

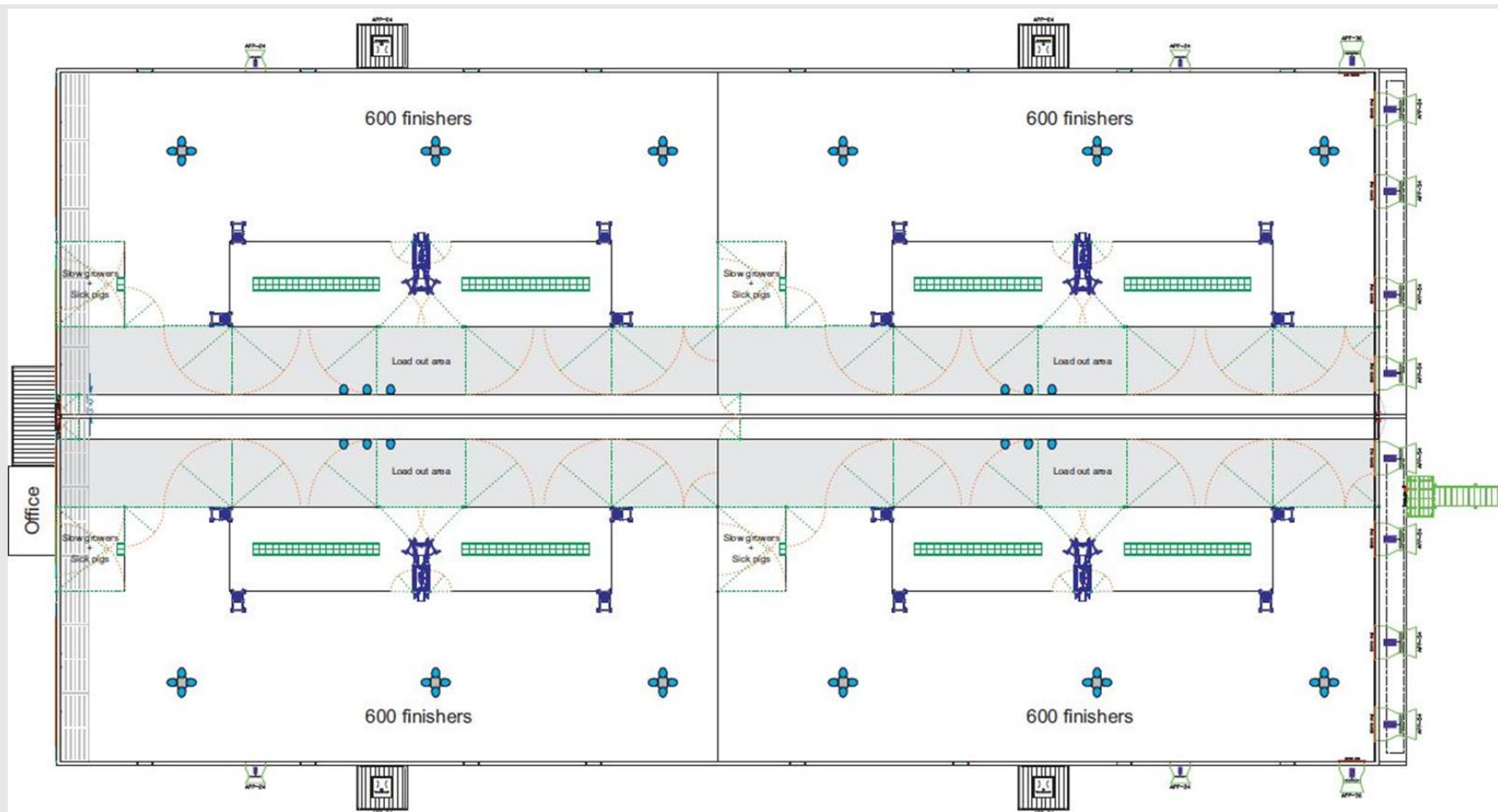
Examples of Nedap's new 'management dashboard' for Nedap PorkTuner, to manage large groups of pigs in an accurate, easy and optimal, professional way.



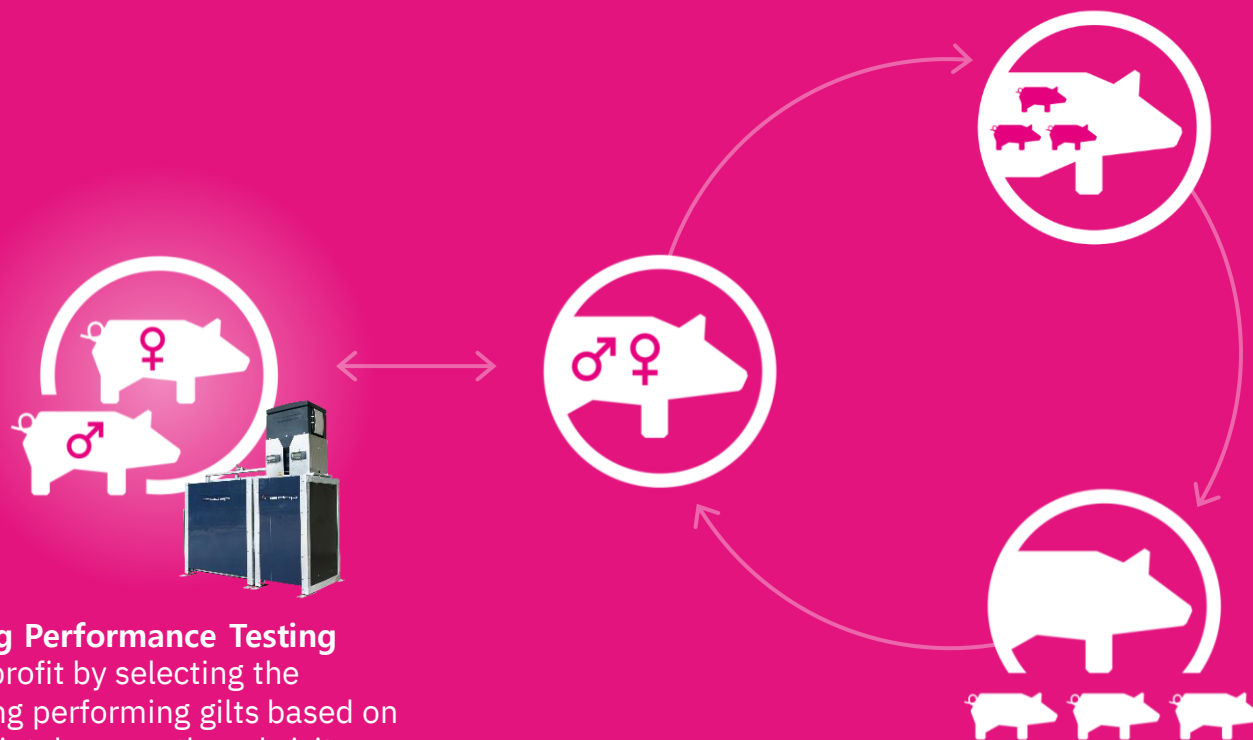
Christoph
Wennekamp

Nedap Pig Sorter

Barn design



Nedap ProSense



Nedap Pig Performance Testing

Increase profit by selecting the outstanding performing gilts based on FCR, feed intake, growth and visit behaviour

The Solution

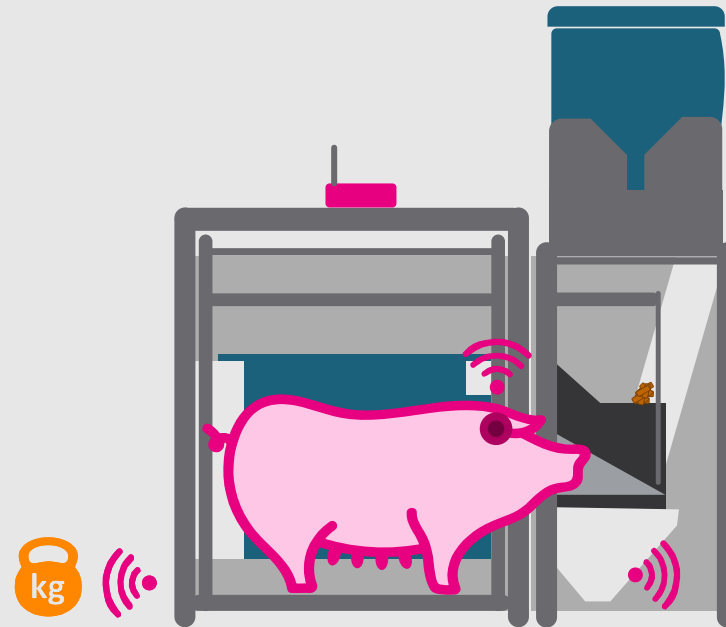


Nedap Pig Performance Testing



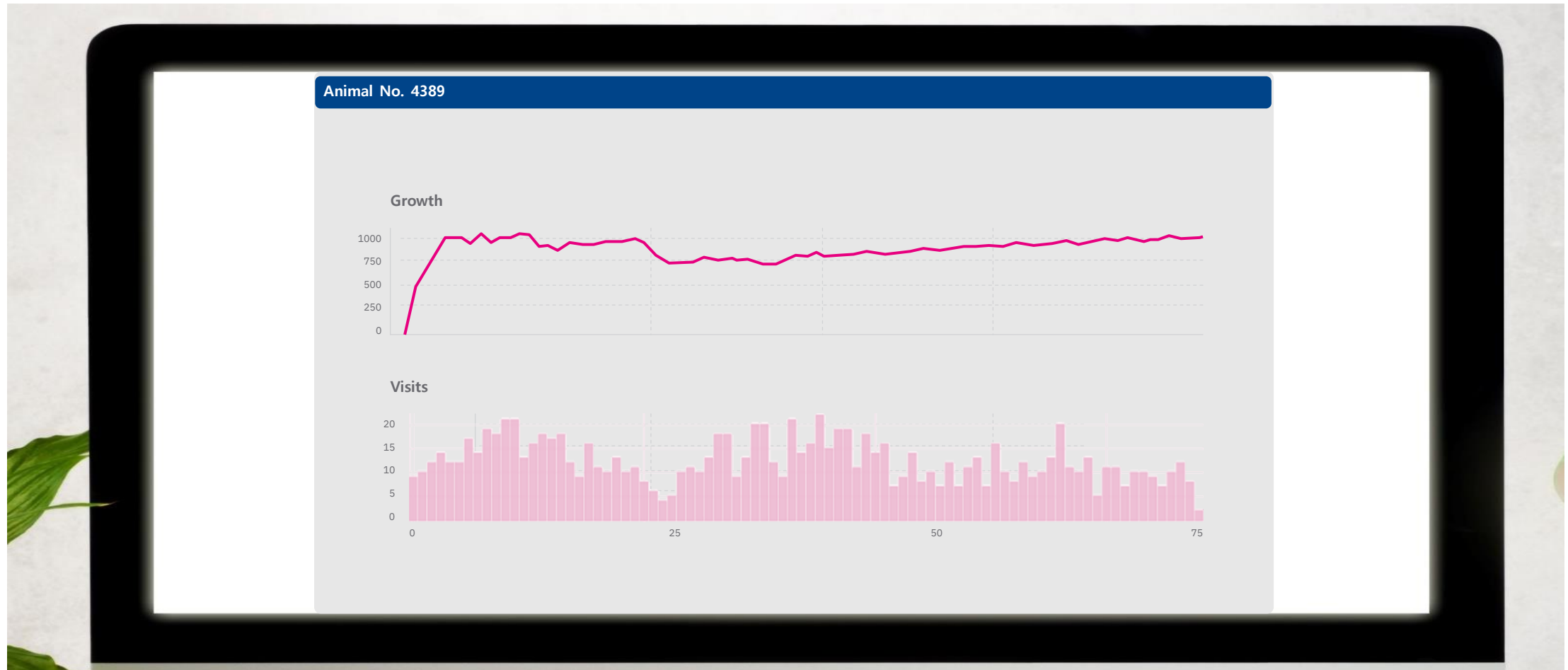
The Product

Nedap Pig Performance Testing



The Product

Body weight development and visits



The Product

Ranking the pigs



Ranking the pigs			
Animal ID	FCR	Feed intake (g/d)	Growth
4389	2.21	2036	922
4390	2.25	2252	1000
4391	2.27	2325	1023
4392	2.29	2197	958
4393	2.31	1915	829
4394	2.35	2111	897
4395	2.36	2452	1041
4396	2.41	2442	1014
4397	2.43	2225	917
4398	2.50	2370	947

The benefits



Pig Performance Testing



Detailed individual feed intake



Accurate recording of individual animal weights



Cost-effective on-farm data collection



Secured individual data collection



Easy in operation



Success Stories

US



Choice Genetics



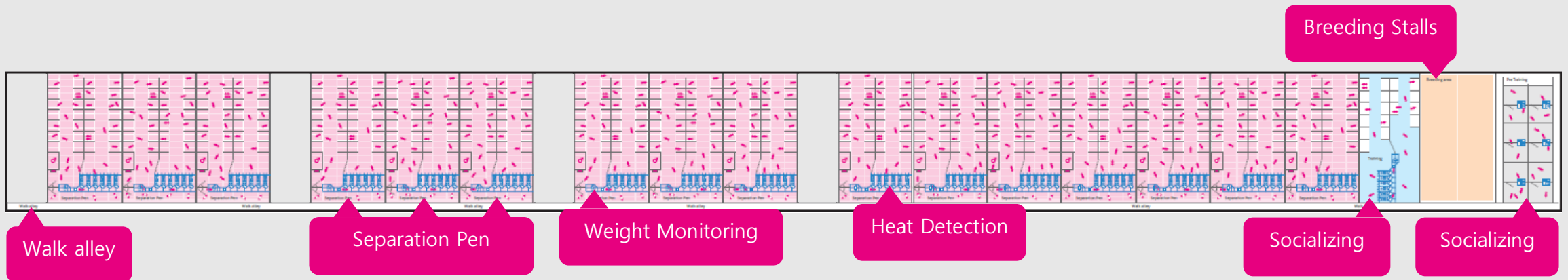
64 PPT

Barn design : Own design department!

Electronic Sow Feeding

 Thomas Livestock in Broken Bow, Nebraska

 5,500 sows in gestation in dynamic groups



Nedap ESF

Barn design



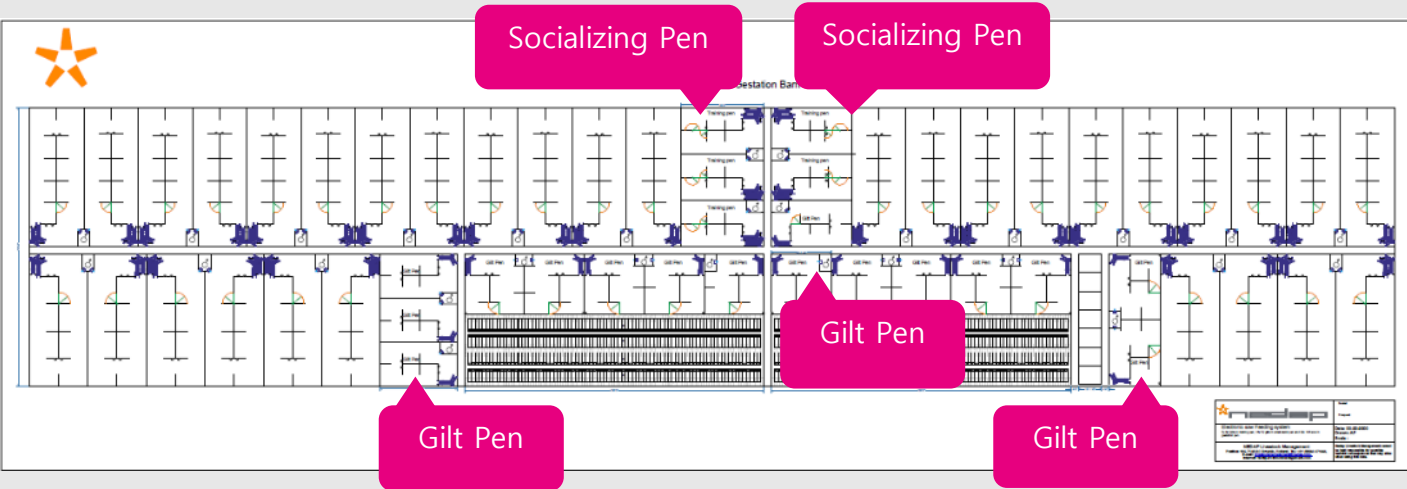
Electronic Sow Feeding



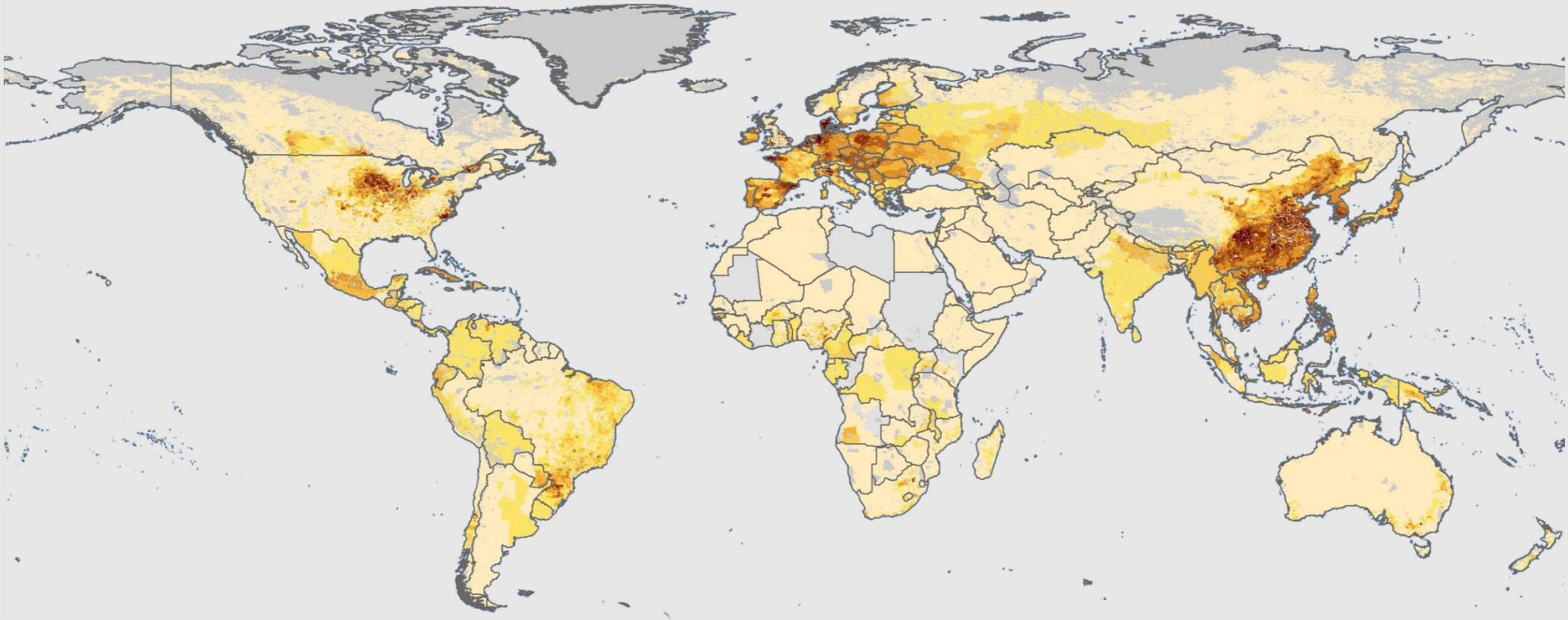
USA



5,400 sows in static groups



Global pig density



Nedap Dealer & Support Network

Africa

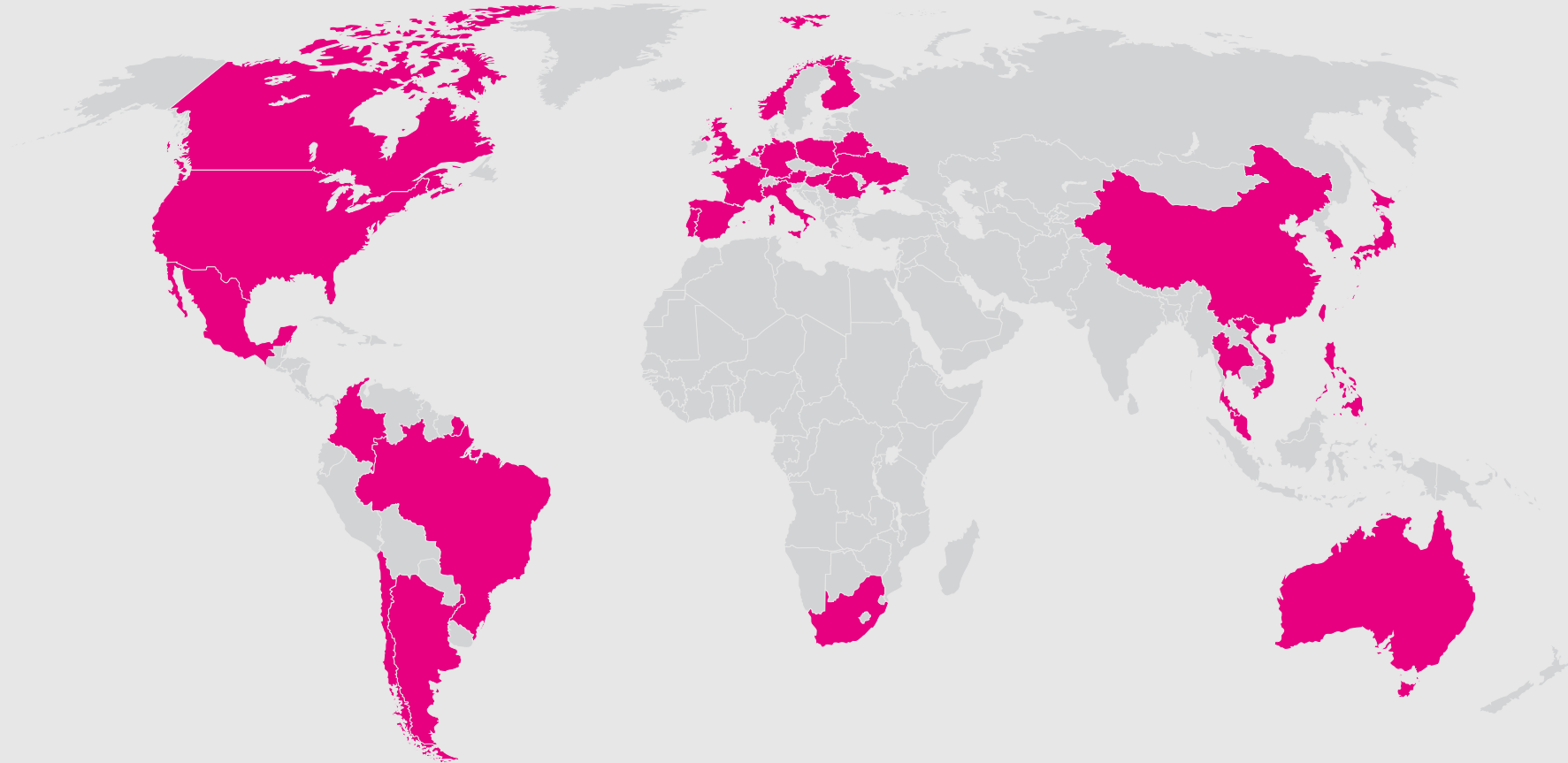
North America

South America

Asia

Europe

Oceania



Livestock Management

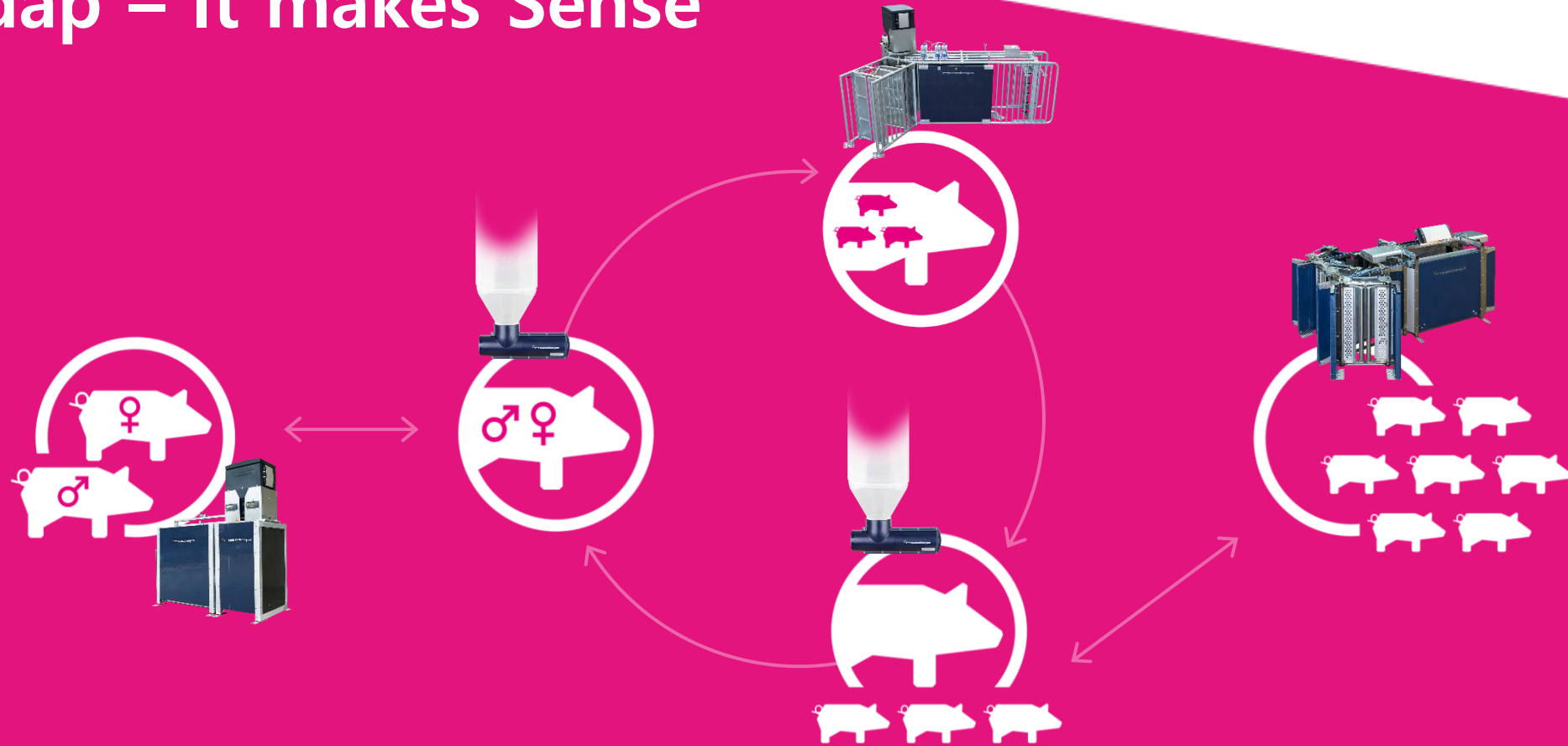
Where are we now?



Nedap is the global leader in individual pig management



Nedap – It makes Sense



Connecting the dots



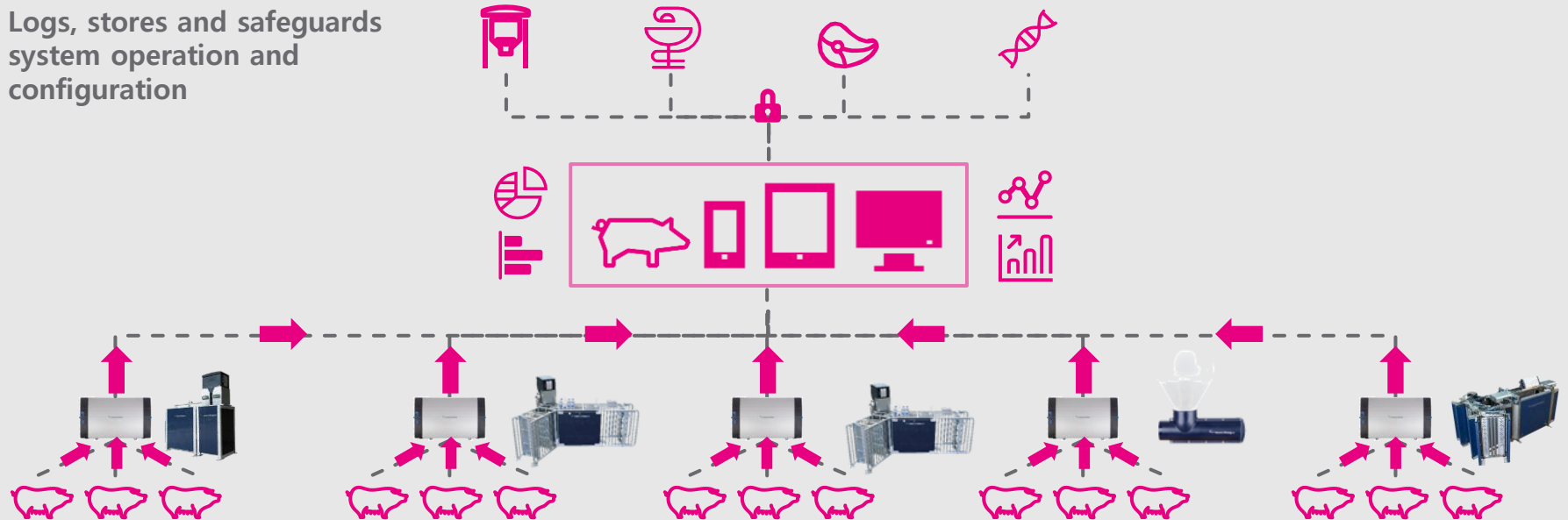
Let's talk about producing pigs

Nedap **PorkTuner**

Nedap **Pig
Performance Testing**

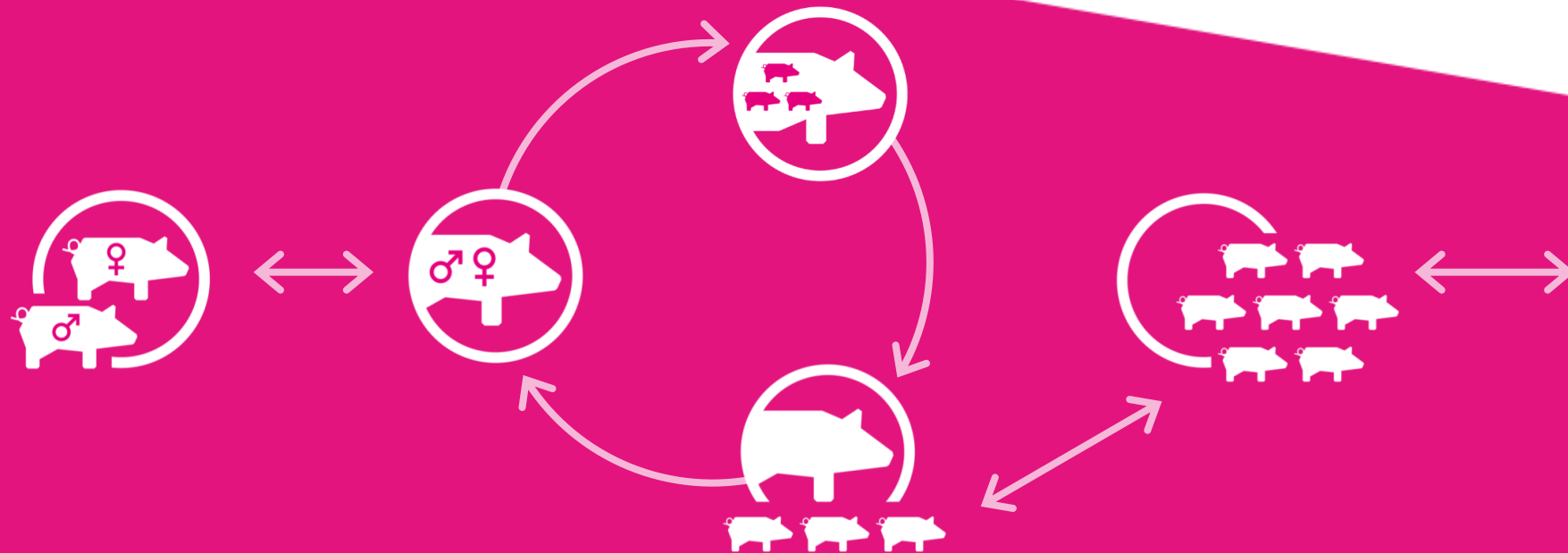
Nedap **Sow Weight
Monitoring**

Logs, stores and safeguards
system operation and
configuration

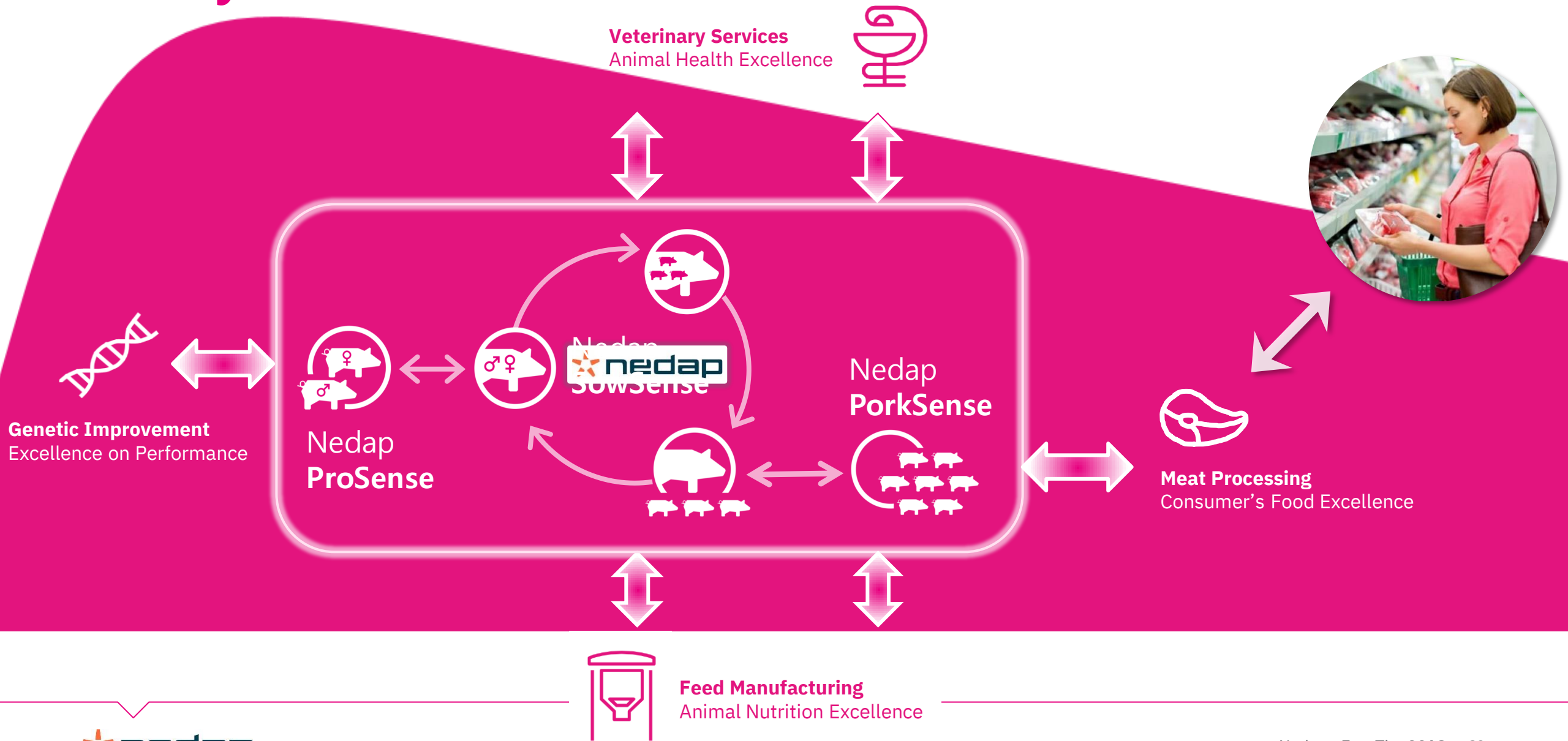




Industry Interaction



Industry Interaction







Thank you
For your attention

05-12-2018



nedap.com/pigfarming