

IDENTIFYING KEY PITFALLS IN EXPERIMENTAL DESIGN OF PIG TRIALS

a group discussion

C. DE CUYPER, B. AMPE, R. WESTIN, AND S. MILLET
EAAP 2024, SESSION 92
4 SEPTEMBER 2024



Disclaimer: the PIGWEB project has received funding from European Union's Horizon 2020 research and innovation program under Grant Agreement No 101004770.



In your opinion, what are common pitfalls in designing pig trials focusing on performance, digestibility, and meat/carcass quality?

Join at [menti.com](https://www.menti.com) | use code 1144 7613

 Mentimeter

Instructions

Go to

www.menti.com

Enter the code

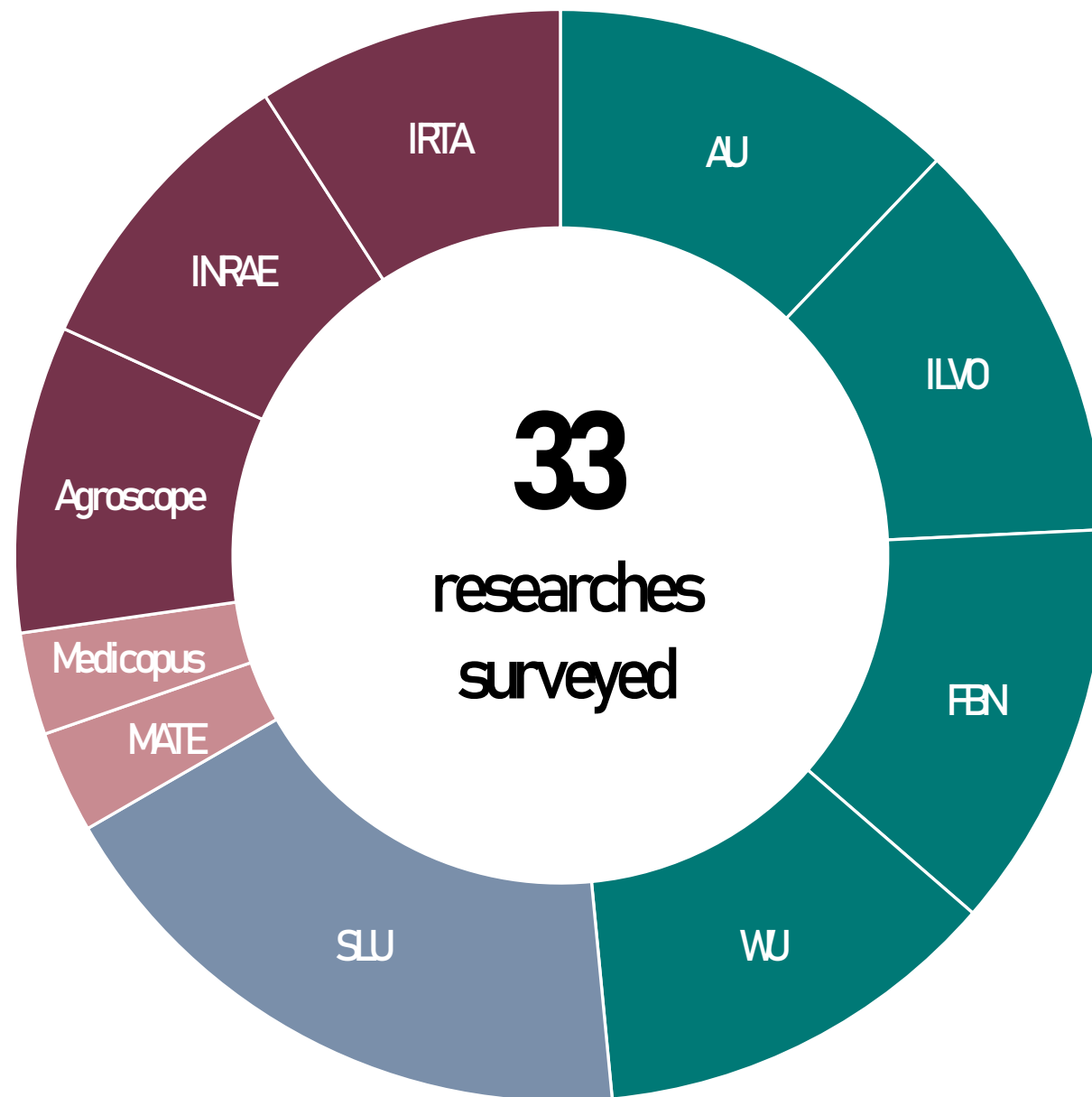
1144 7613



Or use QR code



SURVEY ON EXPERIMENTAL DESIGN FOR PIGWEB PARTNERS



WHAT ARE COMMON PITFALLS IN EXPERIMENTAL DESIGN?

- Incorrect experimental unit
- Lack of randomization/blinding/blocking
- Incorrect statistical analysis
- Hypothesis not clear
- No appropriate control group
- Insufficient sample size
- Insufficient knowledge
- Incorrect experimental procedure
- Incomplete reporting
- Overinterpretation of results

What are your top 3 common pitfalls in designing pig trials focusing on performance, digestibility, and meat/carcass quality?

Join at menti.com | use code 1144 7613

 Mentimeter

Instructions

Go to

www.menti.com

Enter the code

1144 7613



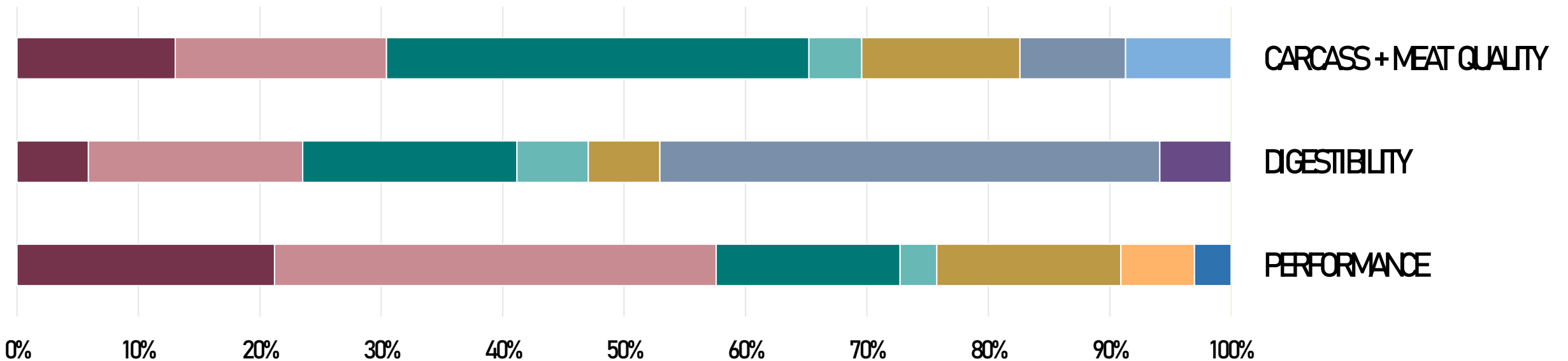
Or use QR code



WHAT ARE COMMON PITFALLS IN EXPERIMENTAL DESIGN?

- Incorrect experimental unit
- Lack of randomization/blinding/blocking
- Incorrect statistical analysis
- Hypothesis not clear
- Nb appropriate control group

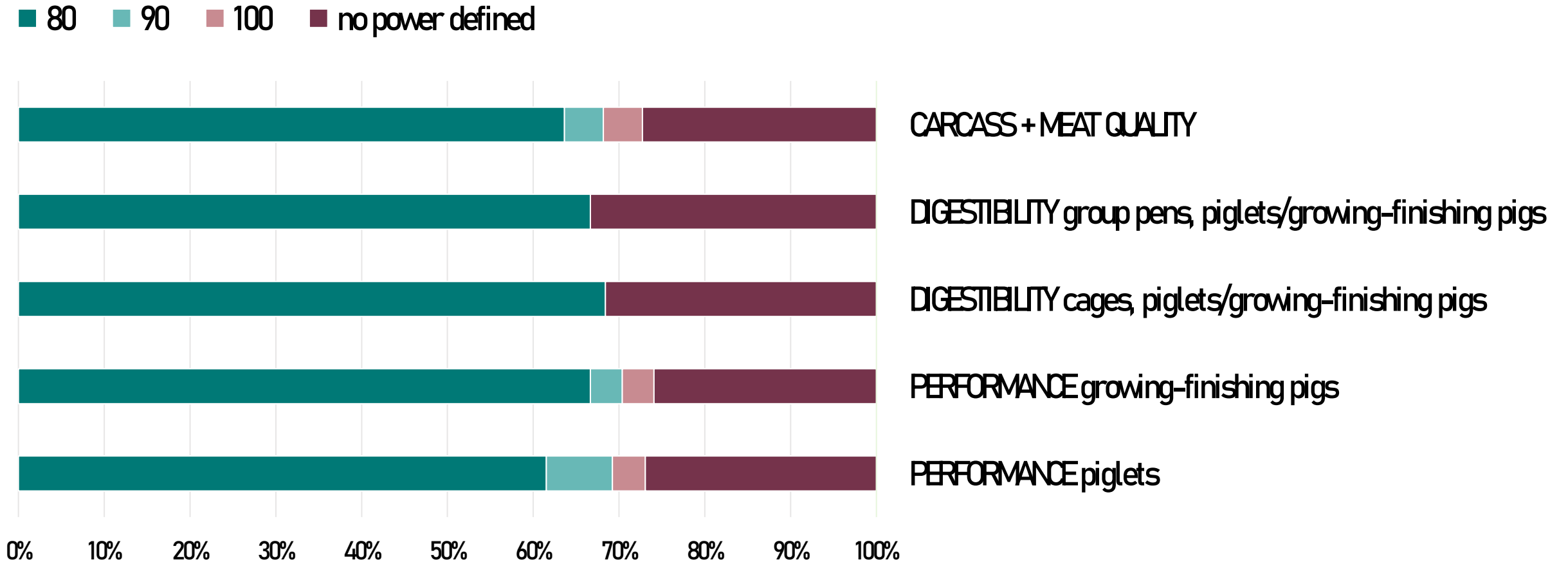
- Insufficient sample size
- Insufficient knowledge
- Incorrect experimental procedure
- Incomplete reporting
- Overinterpretation of results



WHAT IS THE POWER YOU DEFINE AT START?

■ 80 ■ 90 ■ 100 ■ no power defined

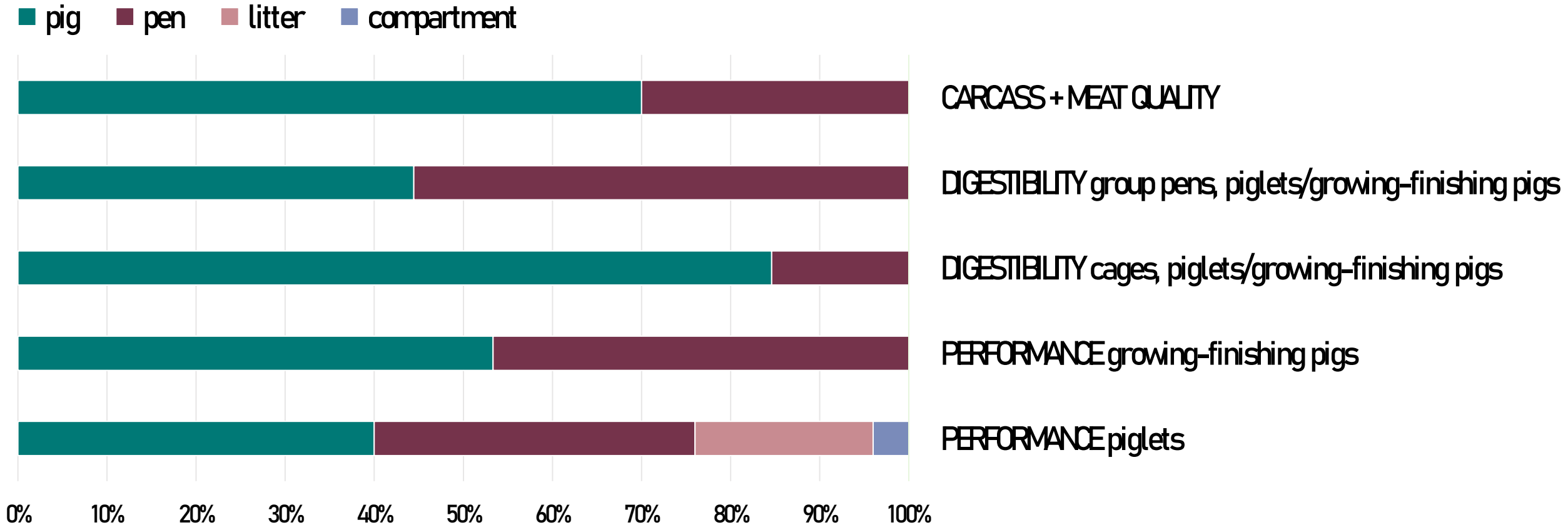
WHAT IS THE POWER YOU DEFINE AT START?



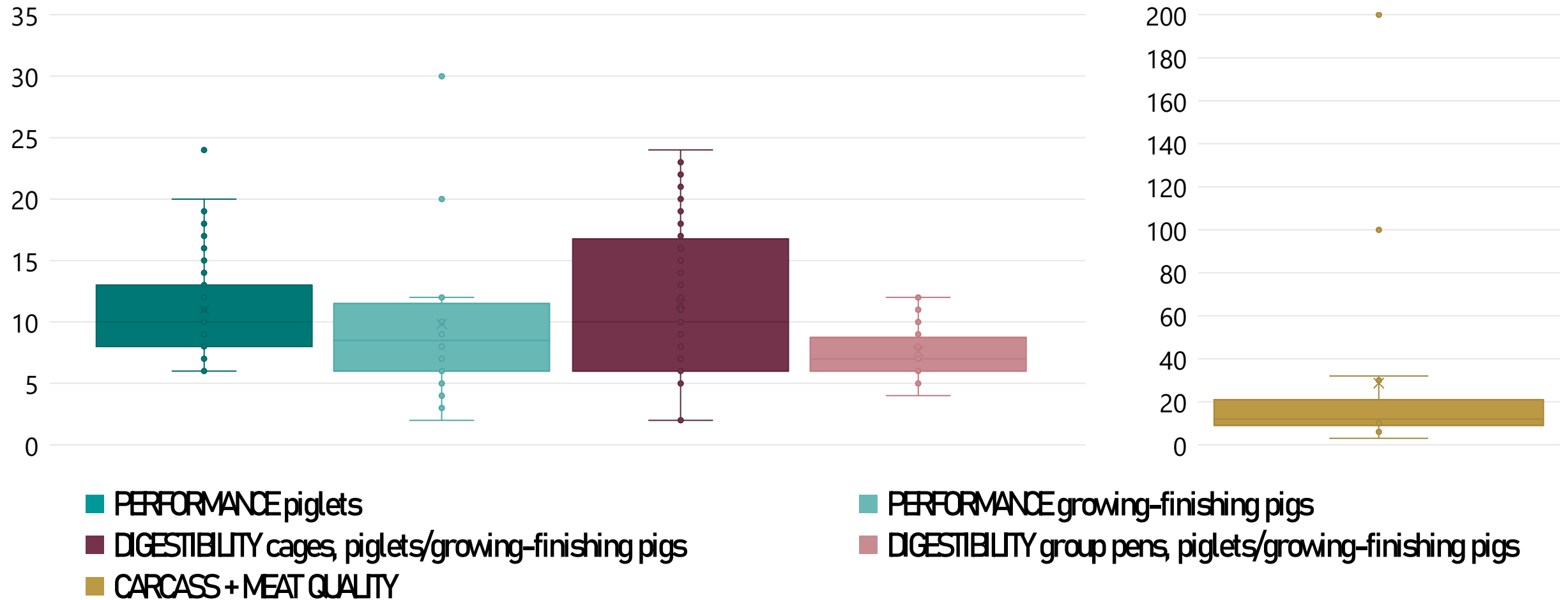
WHAT IS THE EXPERIMENTAL UNIT IN YOUR DESIGN?

■ pig ■ pen ■ litter ■ compartment

WHAT IS THE EXPERIMENTAL UNIT IN YOUR DESIGN?



WHAT IS THE NUMBER OF EXPERIMENTAL UNITS PER TREATMENT?

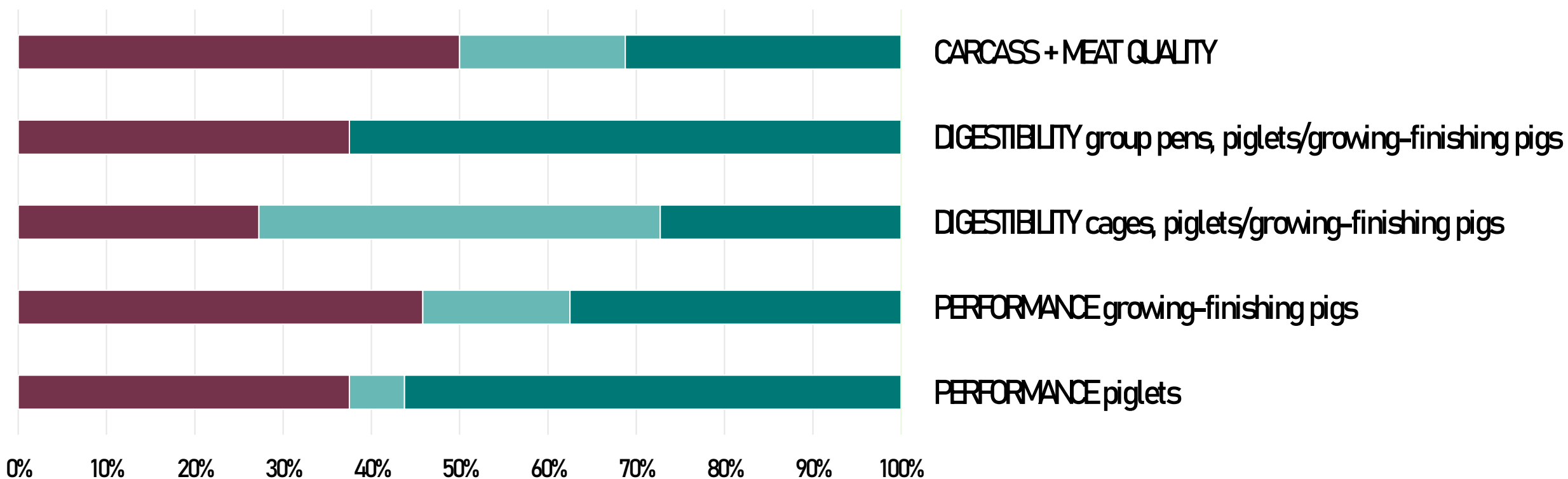


HOW DO YOU ALLOCATE EXPERIMENTAL UNITS TO TREATMENTS?

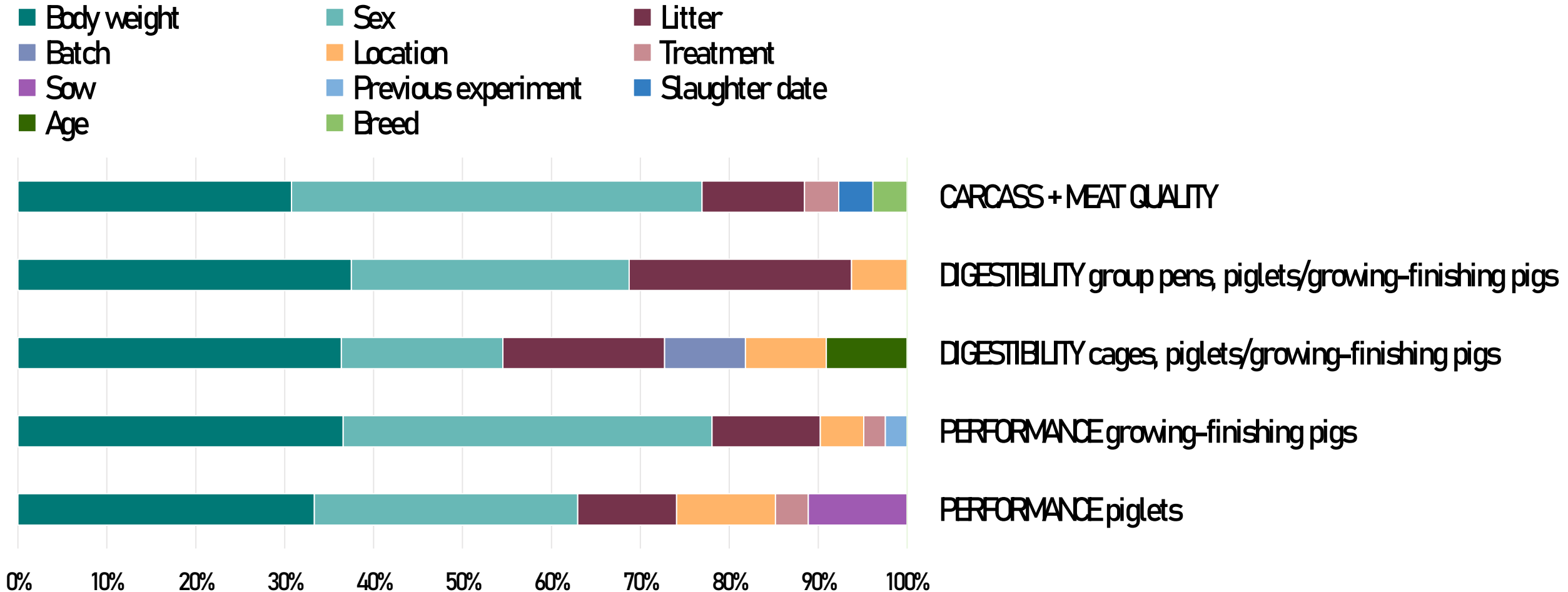
■ Blocking ■ Randomization ■ Blocking+randomization

HOW DO YOU ALLOCATE EXPERIMENTAL UNITS TO TREATMENTS?

■ Blocking ■ Randomization ■ Blocking+randomization



WHAT ARE THE BLOCKING FACTORS YOU USE?

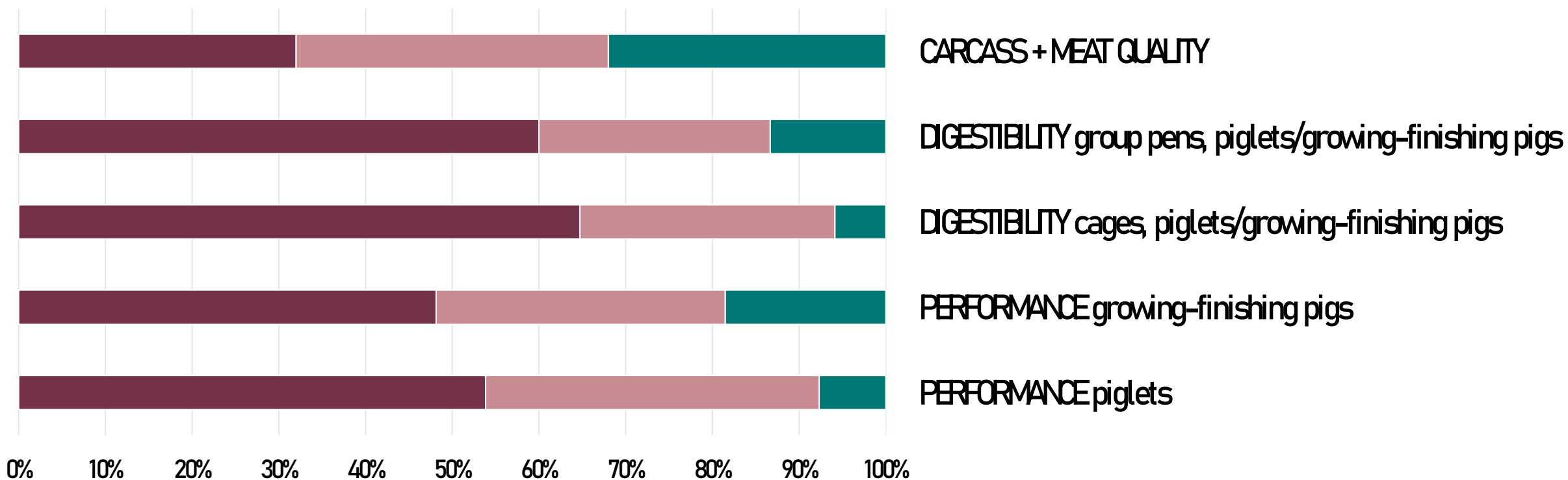


DO YOU USE BLINDING?

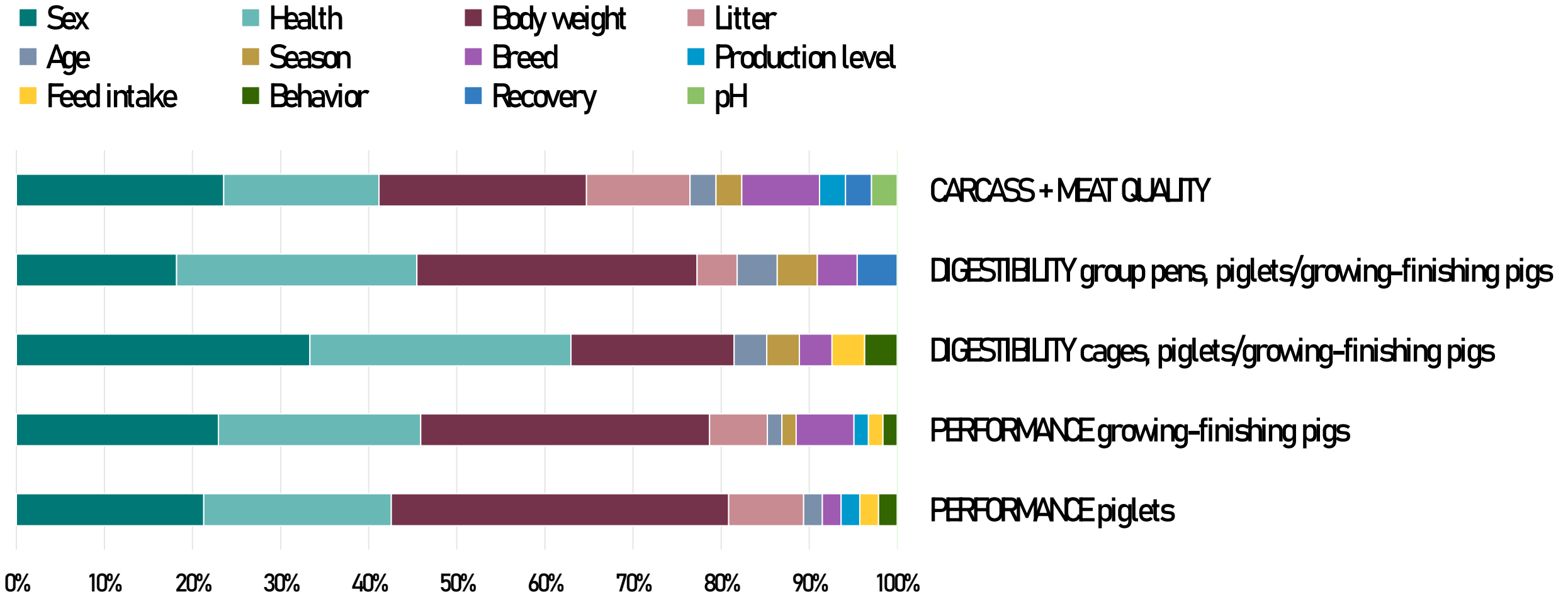
■ No ■ Partial ■ Yes

DO YOU USE BLINDING?

■ Nb ■ Partial ■ Yes



WHAT ARE INCLUSION/EXCLUSION CRITERIA AT START?



FOLLOW US TO STAY TUNED ON THE PROJECT RESULTS



pigwebh2020@gmail.com



[@PIGWEB](#)



www.pigweb.eu



[@PigwebH2020](#)



[@PIGWEB_H2020](#)



[@pigwebh2020](#)



Disclaimer: the PIGWEB project has received funding from European Union's Horizon 2020 research and innovation program under Grant Agreement No 101004770.

