

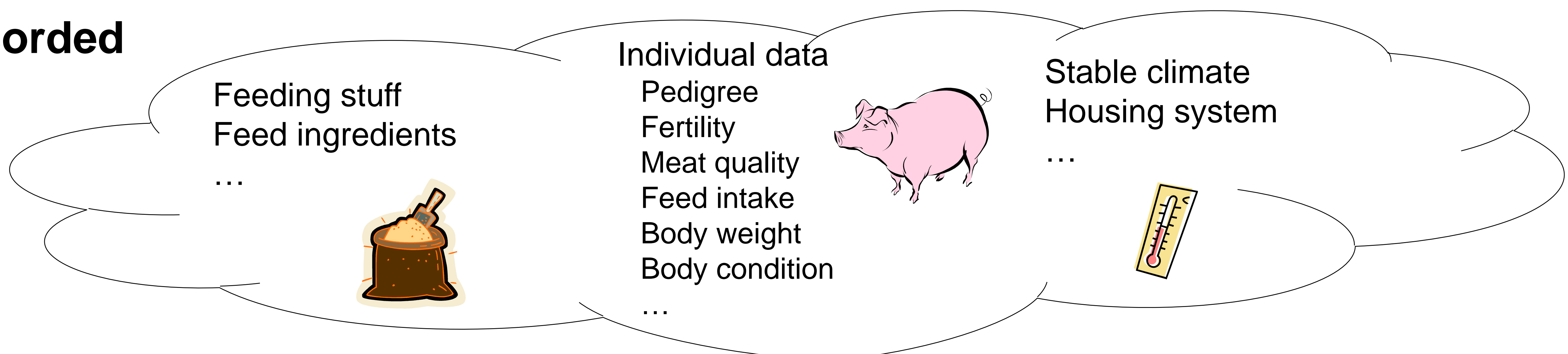


Relational database system for pig research farms

S. Karsten¹, E. Stamer² and J. Krieter¹

How to manage the huge amount of data recorded on research farms?

Data recorded



Data sources

A lot of various sources and formats in different resolutions

- Herd management software
- Electronic sensors
- Notes by farm staff

Data transfer

Synchronisation between computers on farms and server
Input of non digital data via web tools

- Daily automatically
- Sporadic manually

Data checks

Perl scripts
Database Management System

- Consistency
- Plausibility
- Completeness

Data storage

Central relational database (PostgreSQL)
Linux Server

- Non-redundant
- Long-term
- Continuous
- Different farms in one system
- Relations by foreign keys

Data access

Graphs and tables for realtime monitoring

Analysis software

- Trends in traits
- Individuals and process techniques
- Early warning
- Statistical analysis
- Genetic evaluation
- Decision support

Conclusion

- All information from birth to slaughter of pigs in one system
- Monitoring and consulting service via web tools
- User-defined lists of consistent, non-redundant data for monitoring and analysis
- Immediate online data access during and after trial for research and monitoring

¹ Institute of Animal Breeding and Husbandry
Christian-Albrechts-University, Kiel
skarsten@tierzucht.uni-kiel.de
www.tierzucht.uni-kiel.de

² TiDa Tier und Daten GmbH, Brux

110010001010110100100100011
101101000110101100010011100
001100101000111100101000001

TiDa GmbH

