

Digitalization in Equine Management

Data usage in group house systems

S. Voigtländer-Schnabel

Nürtingen-Geislingen University, Equine Management

Background



ww.luda.farm/de/produkte/smart-farming/myluda-farm-die-schaltzentrale-fur-ihrenlandwirtschaftlichen-betrieb/ (05.06.2018)



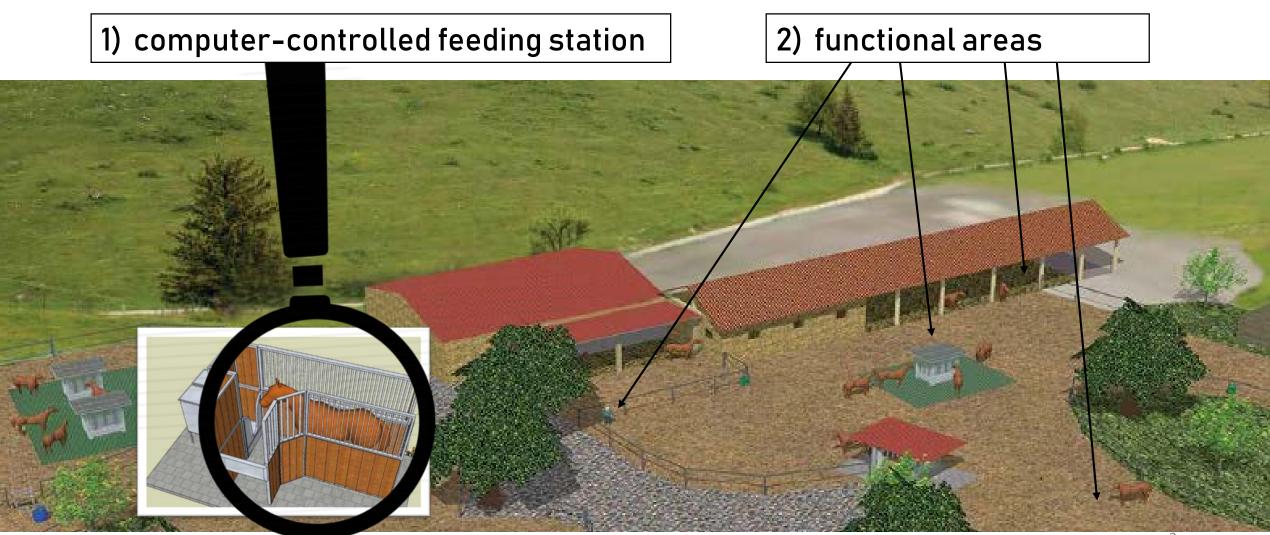
digital transformation in agriculture: smart farming / agriculture 4.0



BUT low degree of digital applications in equine management

Object of Investigation: Active Stables

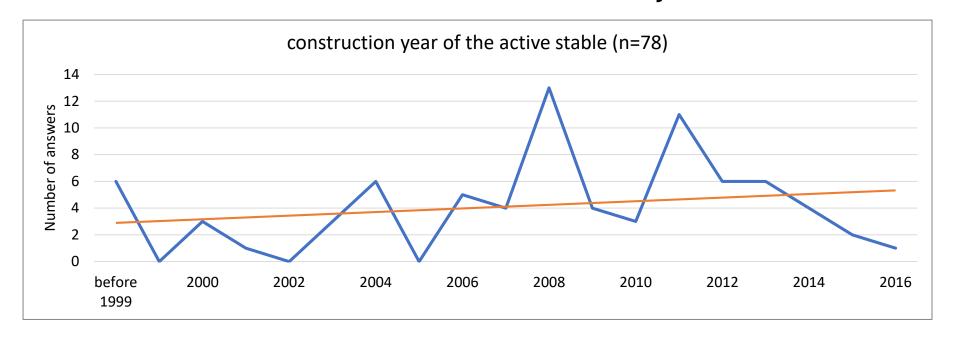




Status Quo of Active Stables



- niche market with few users and providers
- 1999/2000 first stables build in Germany



• growing market in other EU countries (SE, FR, BE, AT) and Switzerland

Assumption





data collection &
potentials of Agriculture
4.0 are mainly unknown
for the equine business

Research Question





What are the reasons for the insufficient use of the data gained during feeding?

Method & Design



- survey analysis
- active stables throughout Germany
- survey period: June/July 2016
- response rate: 40% (GG=215)

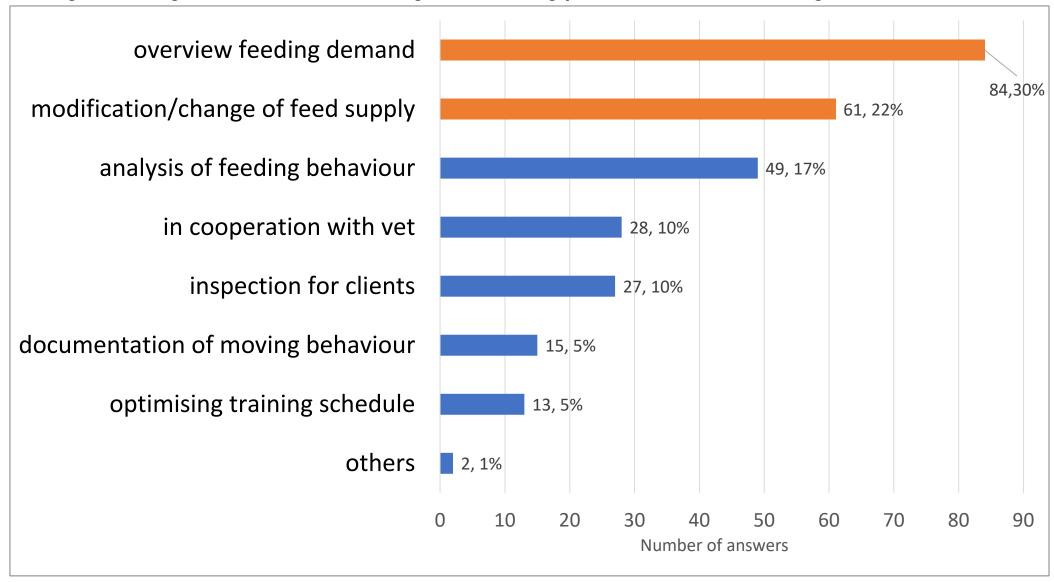


Findings

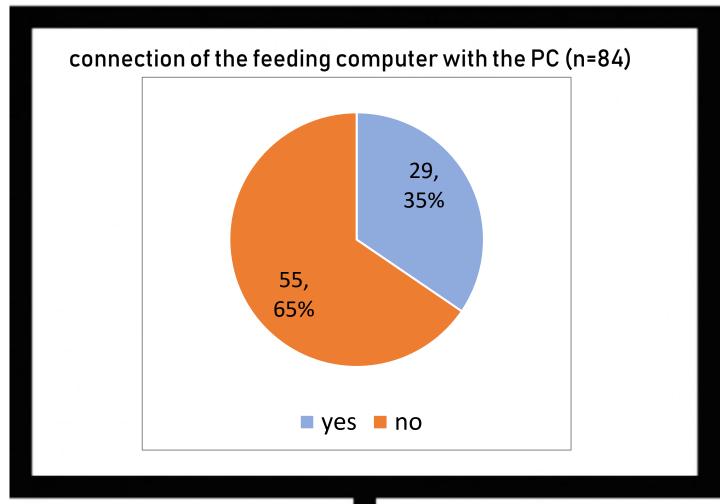




Usage of the generated data during the feeding process in descending order (n=279)

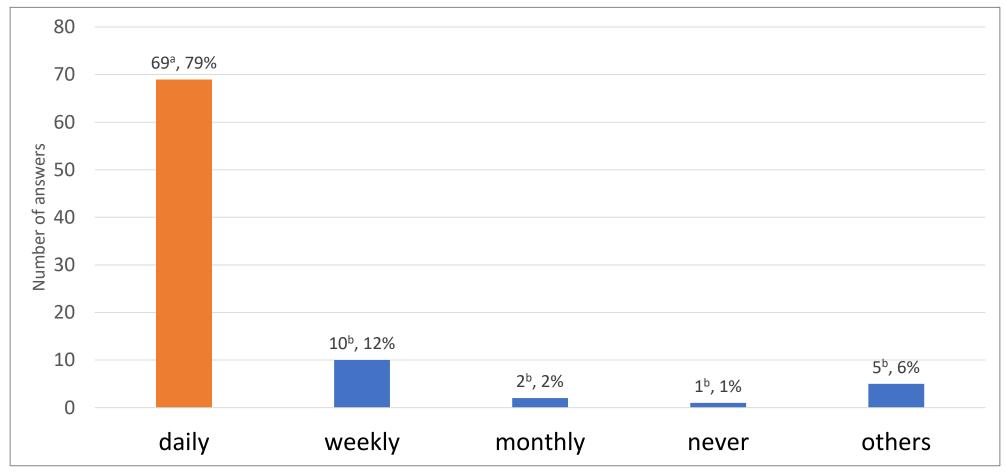


Note: chi-square test ***



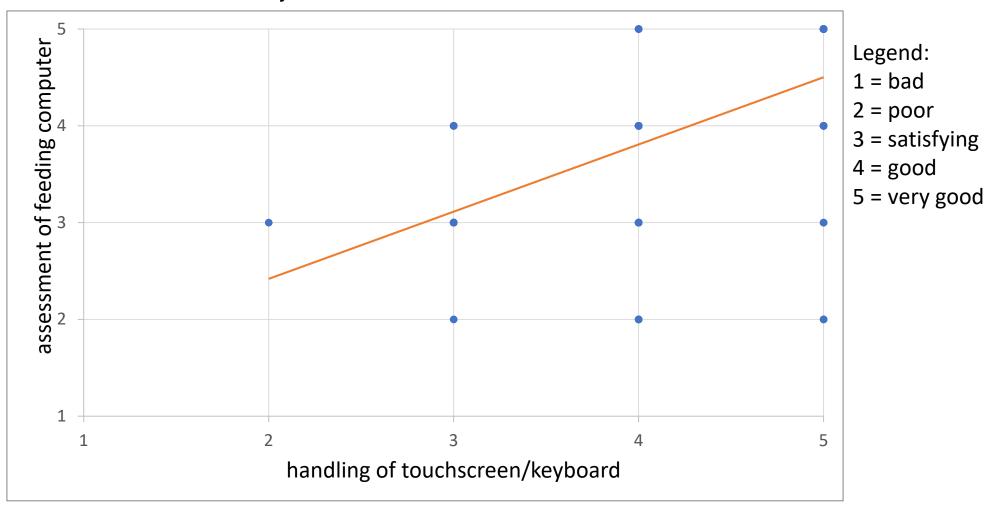
Note: binomial test **

At the same time feeding data are daily evaluated by stable owners to control the feeding access of the horses



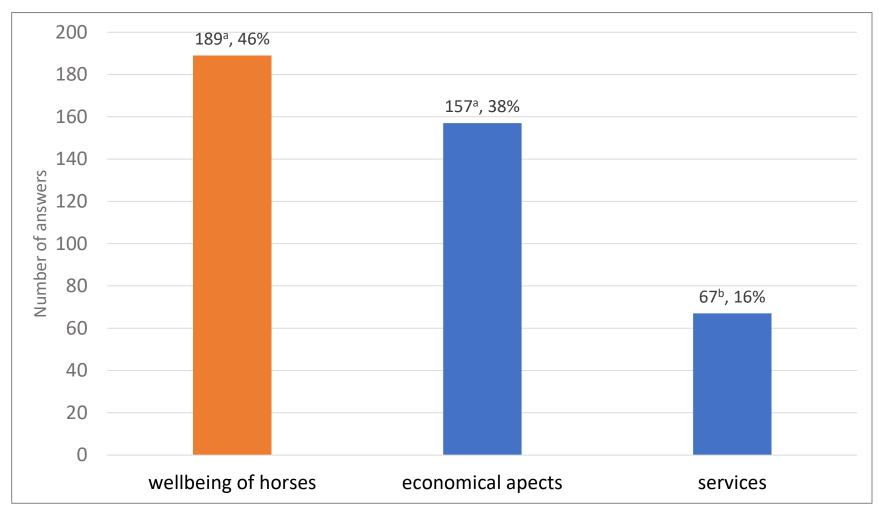
Note: chi-square test ***

Correlation between assessment of the feeding computer & handling of the touchscreen/keyboard



Note: Spearman rang correlation test ***

Cluster analysis on the motivation of building an active stable (n=413)



Note: chi-square test ***

Conclusion & Discussion



- other aspects of building an active stable are predominant over digital potentials
- market for active stables is growing in Germany BUT the degree of digitalization is low
- important to this current state is a lack of knowledge of the usability of existing systems
- Acceptance barriers connected with missing concepts on data protection & data sovereignty



Contact details

voigtlaenders@stud.hfwu.de

Link to Abstract:

researchgate.net/profile/Sophia_Voigtlaender-Schnabel

