



RGD Rindergesundheitsdienst
SSB Service Sanitaire Bovin



KGD Schweizer Kälbergesundheitsdienst
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Animal Health Matters.
For Safe Food Solutions.

Economic assessment of use of antibiotics in the veal calf industry in Switzerland

Julie Pont, Anaïs Léger, Isabel Lechner, Katharina D.C. Stärk,
Martin Kaske, Maren Feldmann

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Presentation of project

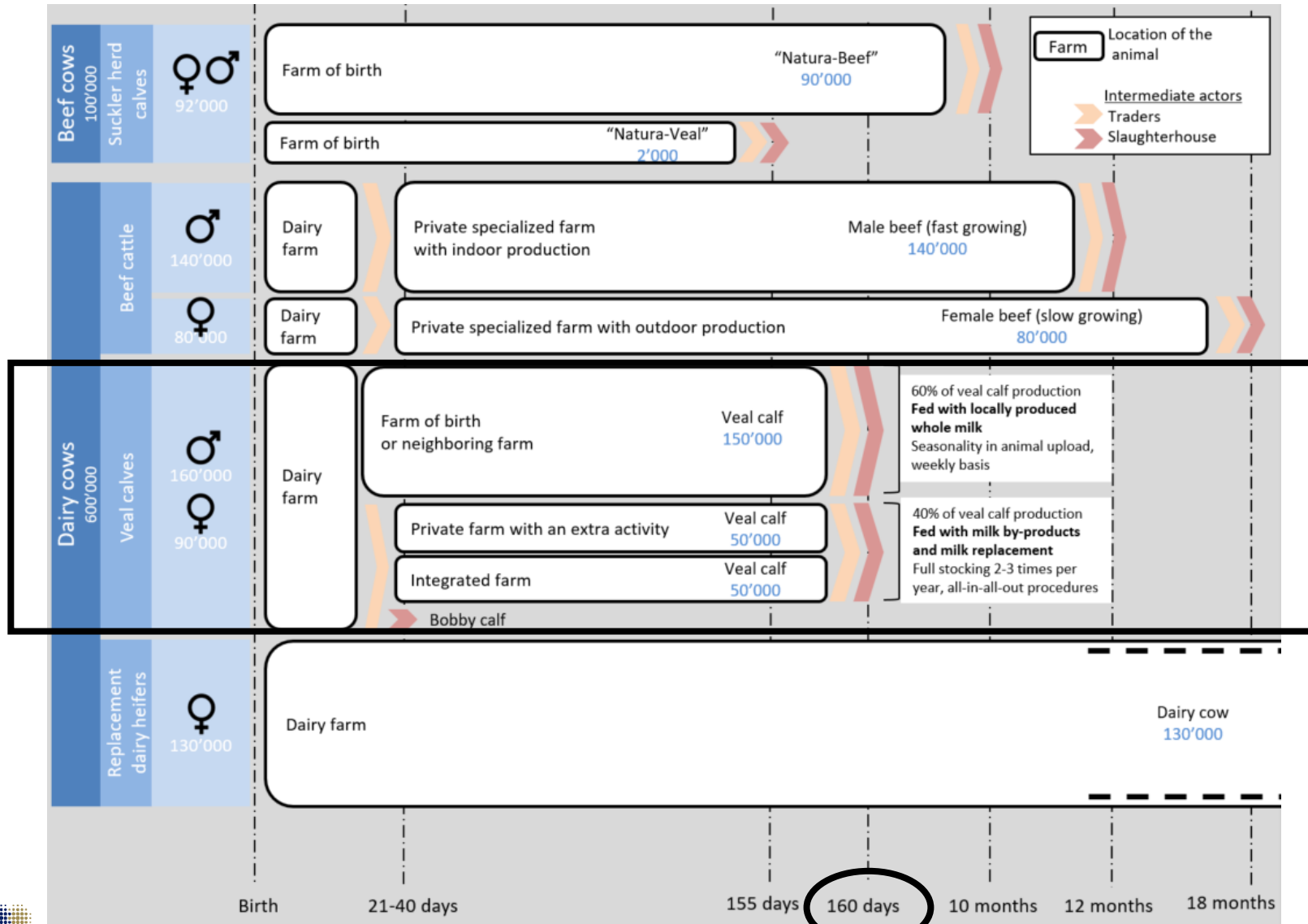
- 2 years project (ends April 2019) led by the Swiss Bovine Health Service (Vetsuisse-Faculty, Zürich)
- Funding provided by the Swiss Federal Food Safety and Veterinary Office
- Objectives
 - Characterization of the value chain of the veal calf industry in Switzerland
 - Organization of a workshop with European experts
 - Data collection: questionnaire survey to assess the income of large animal practices in Switzerland based on disposal of antibiotics



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Calf value chain in Switzerland

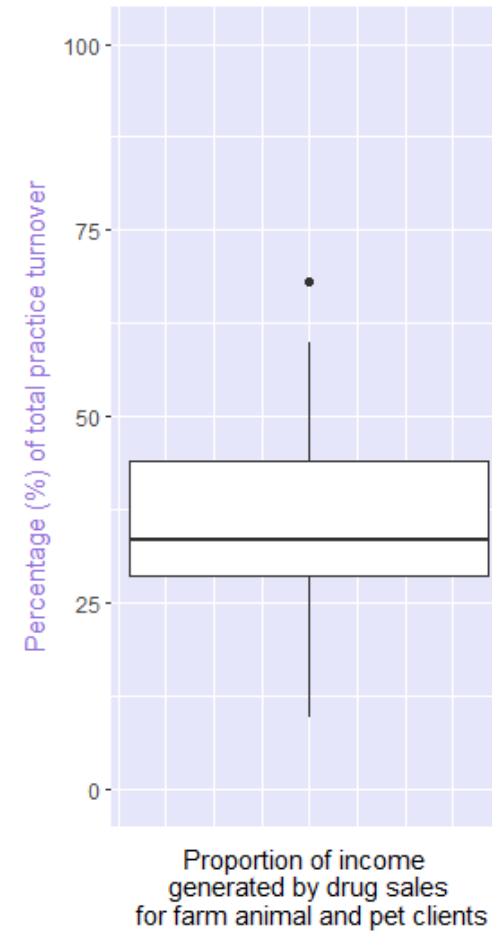
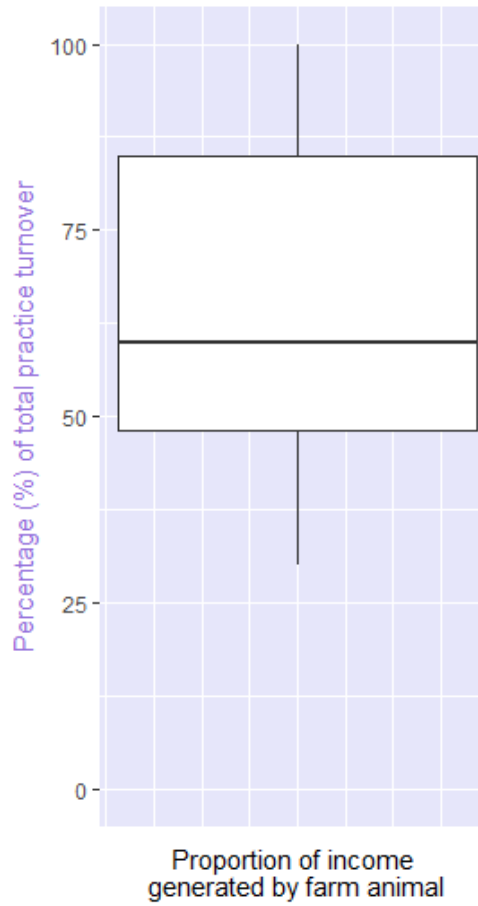
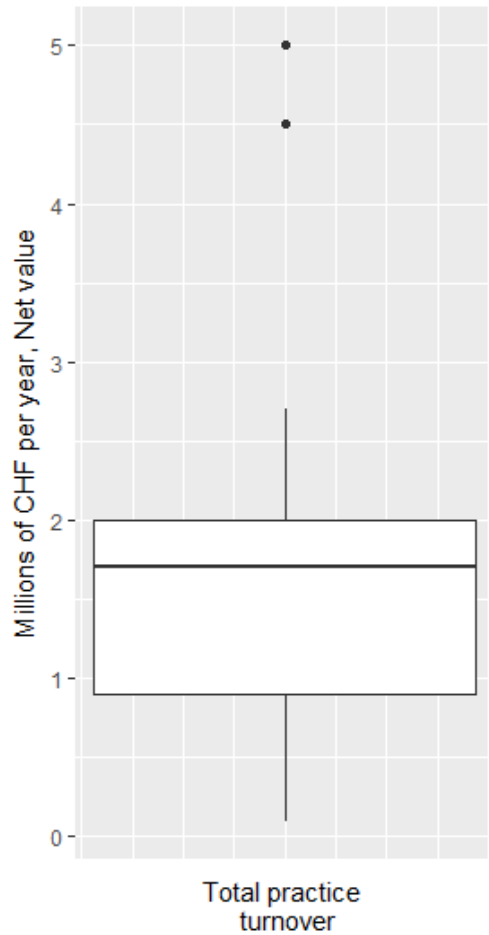


Economic data collection

- Income of veterinary practices due to sales of antibiotics
 - Data collected from 29 practices
 - Survey conducted in January-February 2018
- Invoices for veal calf operations over 1 year (2017)
 - 6'232 positions on bills collected

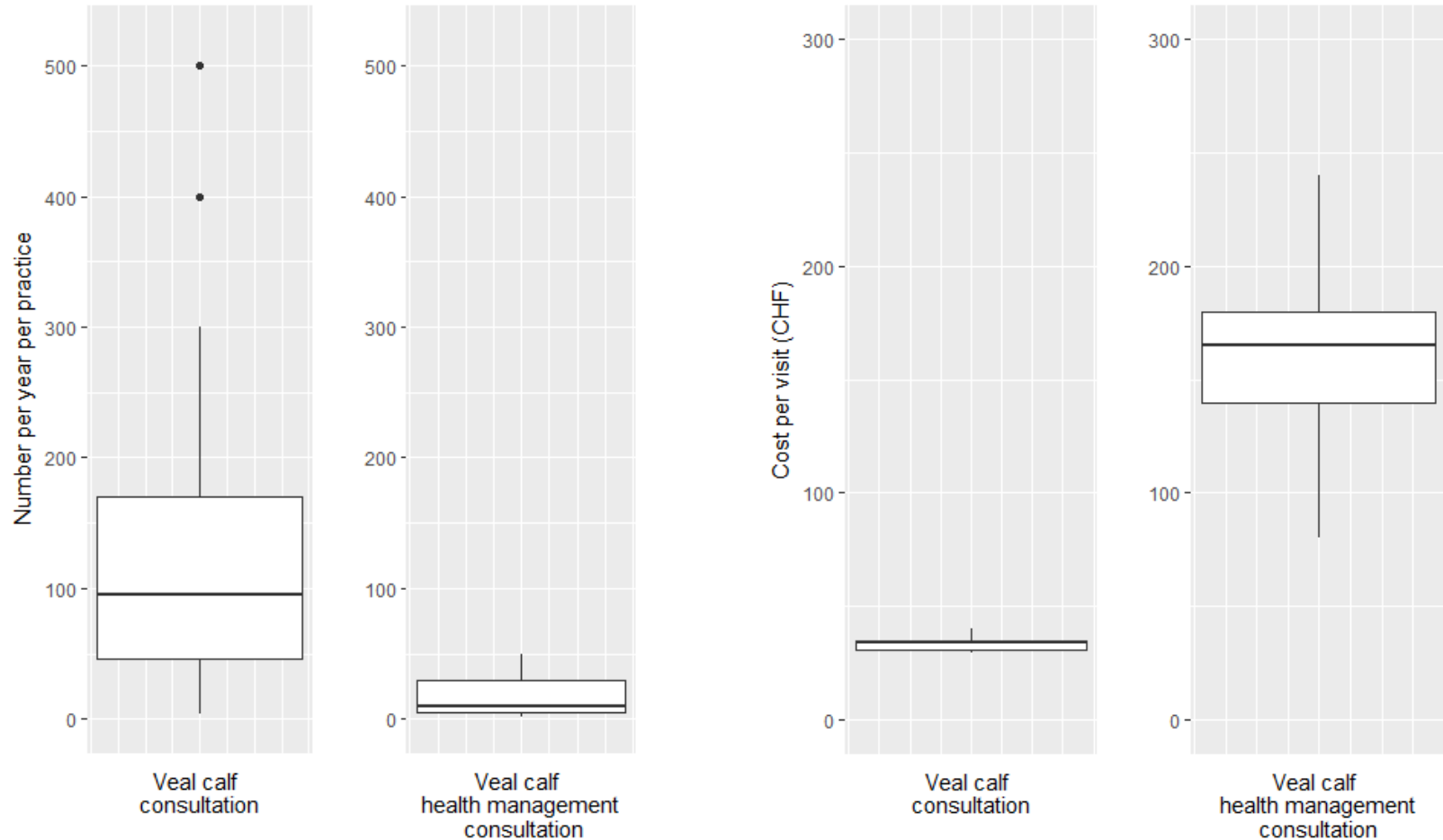
Preliminary results: Drug sales

(29 veterinary practices)



Preliminary results: Practice activities

(29 veterinary practices)



Discussions

- Huge variability between practices
- Further analysis ongoing
- Provides basis for discussing reduction policy options

- According to the literature: possible reduction of AM use at national level for livestock
 - 10% in Denmark of AM consumption for pigs (per kg, 2010-2013) (*Danish Veterinary and Food Administration, 2014*)
 - 50% in the Netherlands for farm animals in 2013 (*Speksnijder, 2015*)
 - Translation at veterinarian level?

Next steps

- Detailed economic analysis to establish net income (benefit) per practice
- Quantification of income loss
- Estimation of alternative business models for veal calf veterinarians to compensate

Veterinarian		
Positive Impacts		
Added Income	CHF	per
Advisory work		0 consultation
Vaccines		0 cow
Support for AM reduction		0 consultation
Voucher from farmers		0 farm
Training for farmers		0 training
Phone consultations		0 call
		0
Total increase Income		0
Reduced Costs	CHF	per
Training for vets (paid by government)		0
		0
		0
Total reduced Costs		0
Total positive Impacts		0

Competing Impacts		
Added costs	CHF	per
Phone calls for reminders		0 call
Time spent for administration		0
Continuous education about AMU		0
Additional training (nutrition...)		0
		0
		0
Total increased Costs		0
Reduced Incomes	CHF	per
Antimicrobials		0 year
Consultations for prescription		0 consultation
		0
Total reduced Incomes		0
Total competing Impacts		0



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Thanks!

Contact: julie.pont@uzh.ch
anais.leger@safoso.ch



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References

- Speksnijder, D. C., Mevius, D. J., Brusckke, C. J. and Wagenaar, J. A. (2015), *Reduction of Veterinary Antimicrobial Use in the Netherlands. The Dutch Success Model*. Zoonoses Public Health, 62: 79-87
- Danish Veterinary and Food Administration (2014) *Special provisions for the reduction of the consumption of antibiotics in pig holdings (the yellow card initiative)*