

Accepted Manuscript

Title: African swine fever control and market integration in Ugandan peri-urban smallholder pig value chains: an ex-ante impact assessment of interventions and their interaction

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PII: S0167-5877(17)30445-2
DOI: <https://doi.org/10.1016/j.prevetmed.2017.12.010>
Reference: PREVET 4382

To appear in: *PREVET*

Received date: 2-6-2017
Revised date: 12-12-2017
Accepted date: 12-12-2017

Please cite this article as: Ouma, Emily, Dione, Michel, Birungi, Rosemirta, Lule, Peter, Mayega, Lawrence, Dizyee, Kanar, African swine fever control and market integration in Ugandan peri-urban smallholder pig value chains: an ex-ante impact assessment of interventions and their interaction. *Preventive Veterinary Medicine* <https://doi.org/10.1016/j.prevetmed.2017.12.010>

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African swine fever control and market integration in Ugandan peri-urban smallholder pig value chains: an ex-ante impact assessment of interventions and their interaction

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Abstract

Pig production in peri-urban smallholder value chains in Uganda is severely constrained by impact of disease, particularly African swine fever (ASF), and the economic consequences of an inefficient pig value chain. Interventions in the form of biosecurity to control ASF disease outbreaks and pig business hub models to better link smallholder farmers to pig markets have the potential to address the constraints. However, there is a dearth of evidence of the effects of the interventions on performance and distribution of outcomes along the pig value chain. An ex-ante impact assessment utilising System Dynamics model was used to assess the impact of the interventions in peri-urban pig value chains in Masaka district. The results showed that

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