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| HERC number | HERC\_2022\_168 |
| Proposer Name | Xandru Gorg Gigi Najzu Anglu Cassar |
| Title of Project | An econometric estimation of the influence of extension and social networks on technology knowledge and uptake amongst Kenyan dairy farmers |
| HERC Reviewed (date) | 28/11/2022 |
| Approval status (approved or not yet approved) | Not Approved |
| Clarification and possible amendments required: | |
| Thank you for submitting a HERC form. Please respond to the points below, in this document.  You do not need to amend and resubmit the HERC form.   * 3c. Please could you provide us with a bit more detail about the analysis that will be conducted in the project. Please also indicate if there is any risk to make participants identifiable even if the dataset is anonymous.   Regarding analysis: The main procedure is to construct a logistic regression equation, with a binary variable of knowledge/use of technology as the dependent variable. Explanatory variables will include socio-economic and household traits (personal variables), network characteristic (see below), and technology variables, a series of binary variables representing exposure to and perception of extension services and other sources of information, and variables interacting all of these.  To incorporate network characteristics, a unique model will be developed to provide a measure for the influence of an individual’s network on the likelihood of that individual to adopt/know about a technology; this model will be based on the work of Banerjee et al., 2013; Krishnan and Patnam, 2014; Maertens, 2017; Barham et al., 2018; Beaman and Dillon, 2018; Fisher et al., 2018; Beaman et al., 2021; Fafchamps, Söderbom and van den Boogart, 2022; Varshney et al., 2022.  The ultimate goal of this regression is to determine the influence of networks and different extension sources on technology use/knowledge, and how these vary with each other and farmer/household traits.  Regarding risk of identification:  The risk of this is extremely low. Only summary statistics will be presented for personal and technology variables, thus any individual’s traits are not discernible given a sample of over 200 instances. Network characteristics will not at any stage be presented, made available, or shared; if at all, it will only be the calculated values of this unique model to approximate network influence which will be reported, which will be computed from multiple values such that it is not possible to calculated backwards from model outputs to definite input values.   * 8V. Please confirm that data will be stored securely in the personal laptop (e.g., password protected, encrypted files)   I can confirm that this is the case. | |