

Symposium
Technologie SI w strategii, nauce
i dydaktyce w SGGW

13 marca 2024

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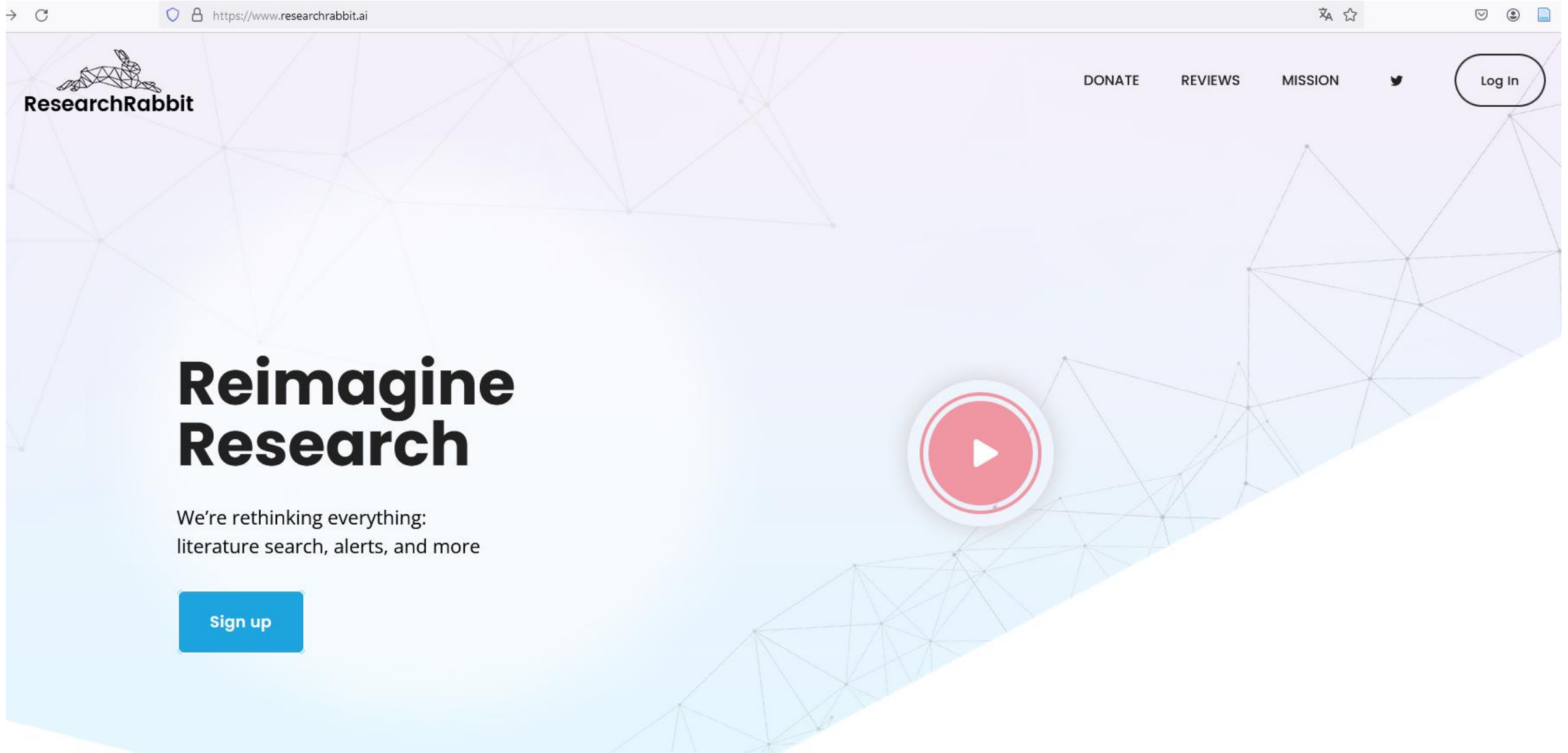
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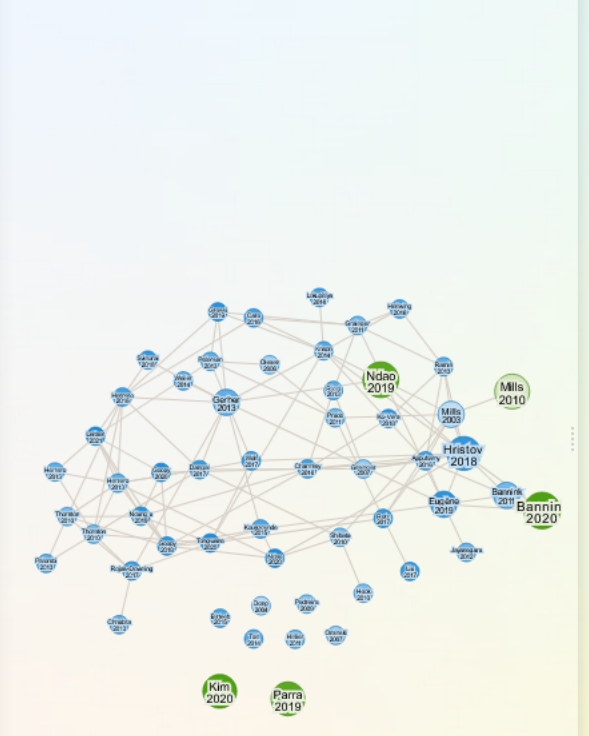
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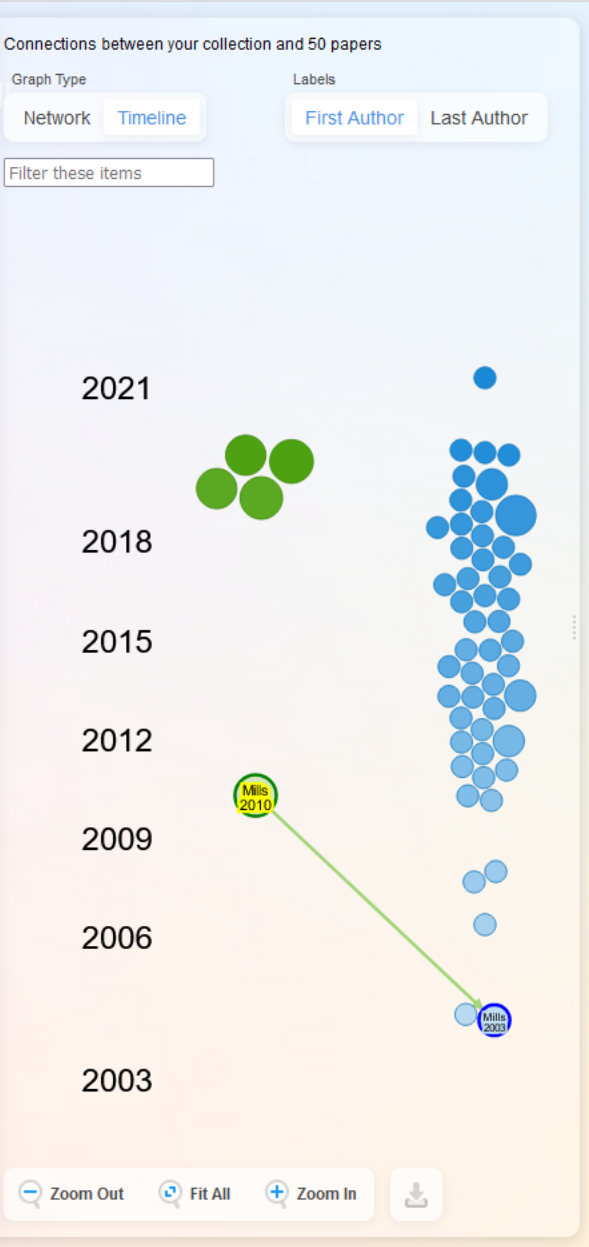
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Contextualized re-calculation of enteric methane emission factors for small ruminants in sub-humid Western Africa is far lower than previous estimates

Tropical Animal Health and Production 2019 7

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Given the projected growth of methane emission by ruminants in developing countries, there is a clear need for reliable estimates of their contribution to greenhouse gas emissions. Existing studies have rarely considered sheep and goats. The objective of this study was to predict enteric fermentation methane emission factors (EFs) for Djallonke sheep and West African Dwarf goats, following the 2006 IPCC Tier 2 methodology. Estimated enteric methane emission factors, expressed per head of animal per year, were 2.3 kg CH₄ and 2.0 kg CH₄ for sheep and goats species, respectively. Compared with the generic Tier 1 emission factor of 5 kg CH₄ head proposed by the IPCC for small ruminants in the sub-Saharan Africa region, our suggested values are 56% and 60% lower for sheep and goat, respectively. These lower values took account of the particular flock structure of both sheep and goats. These estimates also accounted for differences in live weight according to age and corresponding estimated feed intake. This work is a step forward in the revision of small ruminant emission factors and can further support assessment of mitigation strategies in Senegalese livestock farming systems.

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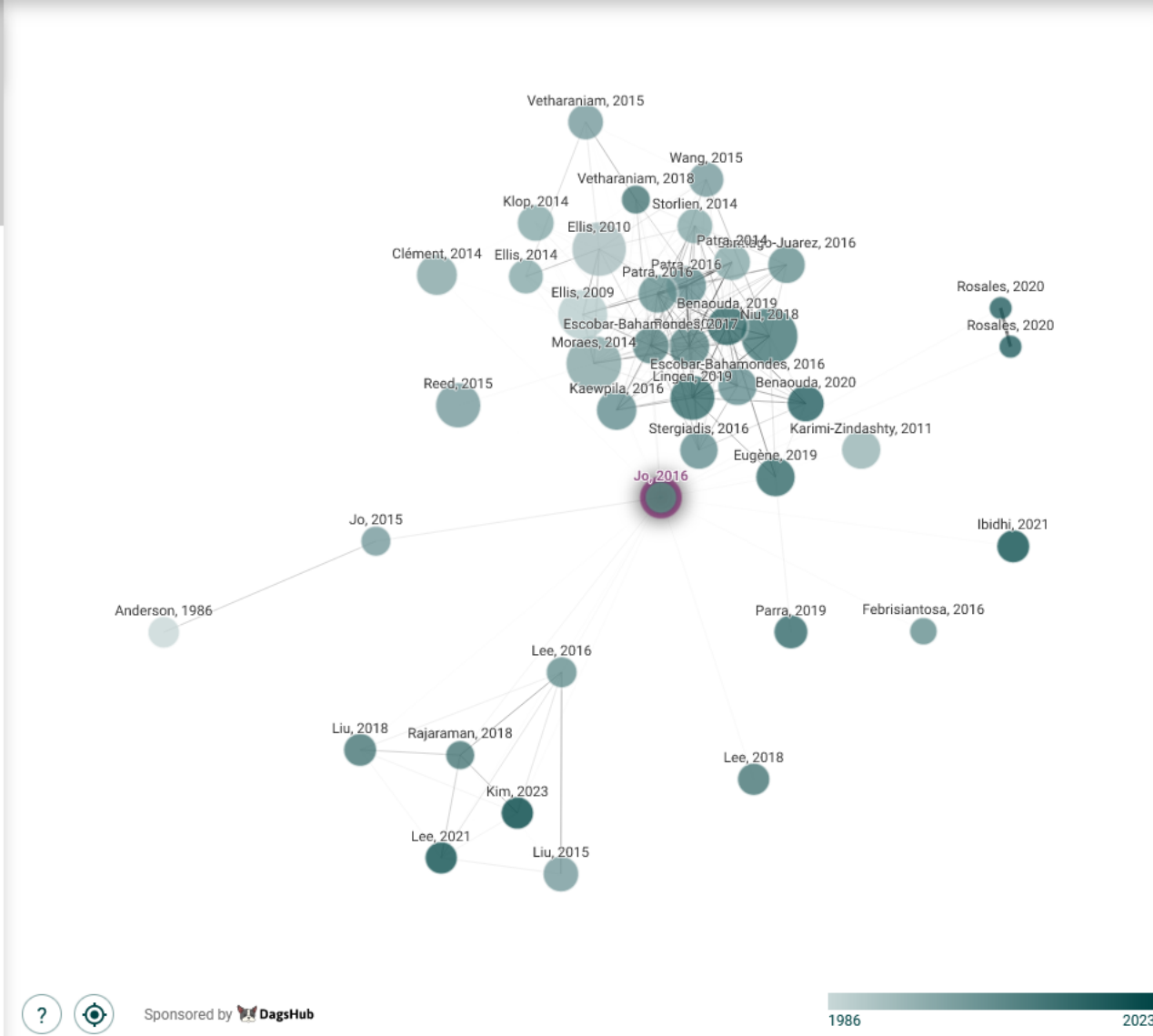
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A new Tier 3 method to calculate methane emission inventory for ruminants.
M. Eugène, D. Sauvant, P. Nozière, D. Viallard, K. Oueslati, M.... 2019



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N. Jo, Jongnam Kim, S. Seo
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S2 TL;DR: The IPCC default methods have limitations in their use for a feeding systems in non-western countries, and thus development of a country-specific methodology and parameter estimates for enteric CH4 production is required for Hanwoo and other cattle production systems.