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## A - Papers appearing in refereed journals

Hassall, K. L., Coleman, K., Dixit, P., Granger, S. J., Zhang, Y., Sharp, R., Wu, L., Whitmore, A. P., Richter, G. M., Collins, A. L. and Milne, A. E. 2022. Exploring the effects of land management change on productivity, carbon and nutrient balance: Application of an Ensemble Modelling Approach to the upper River Taw observatory, UK. *Science of the Total Environment*. 824, p. 153824.

<https://doi.org/10.1016/j.scitotenv.2022.153824>

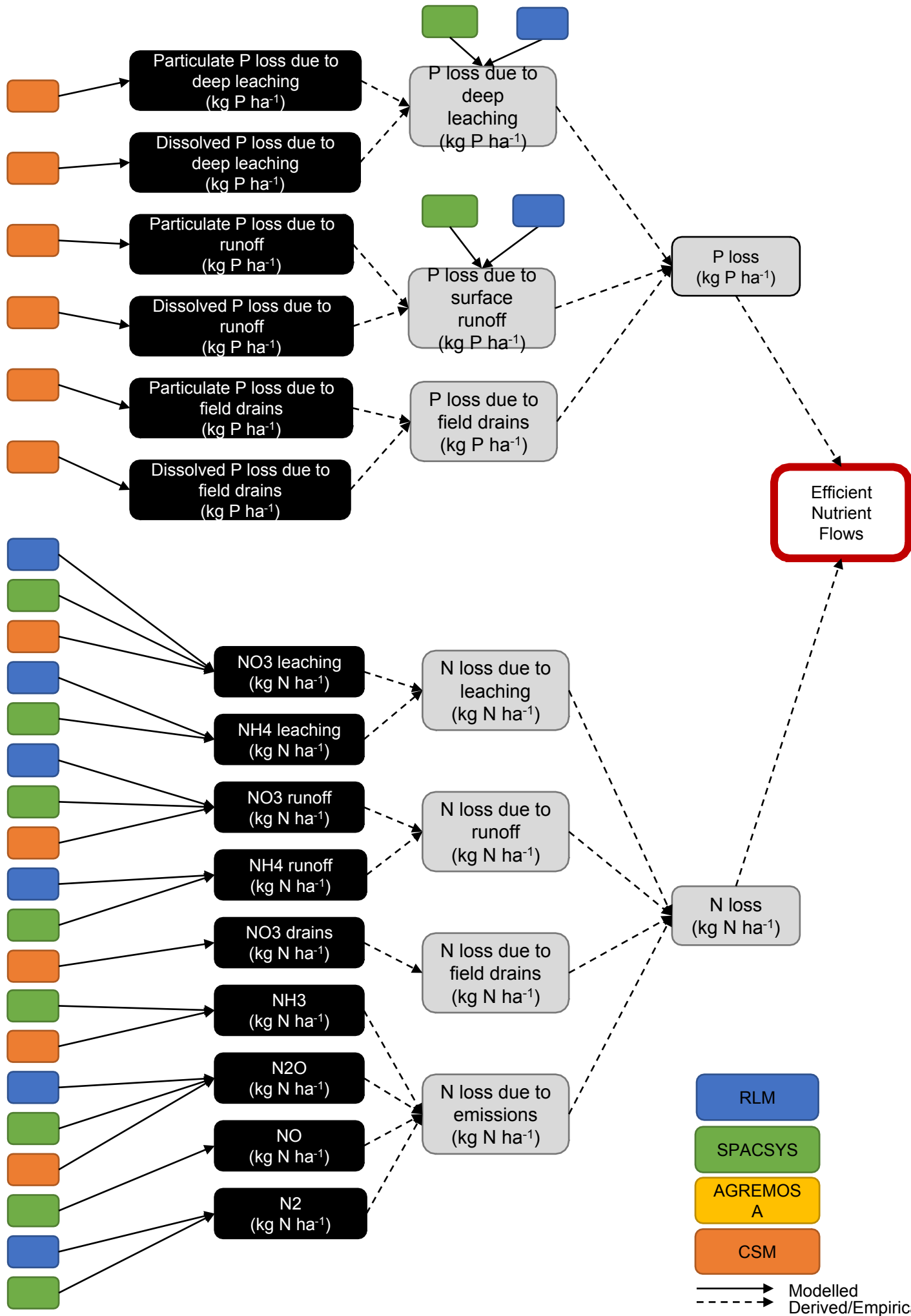
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- <https://doi.org/10.1016/j.scitotenv.2022.153824>
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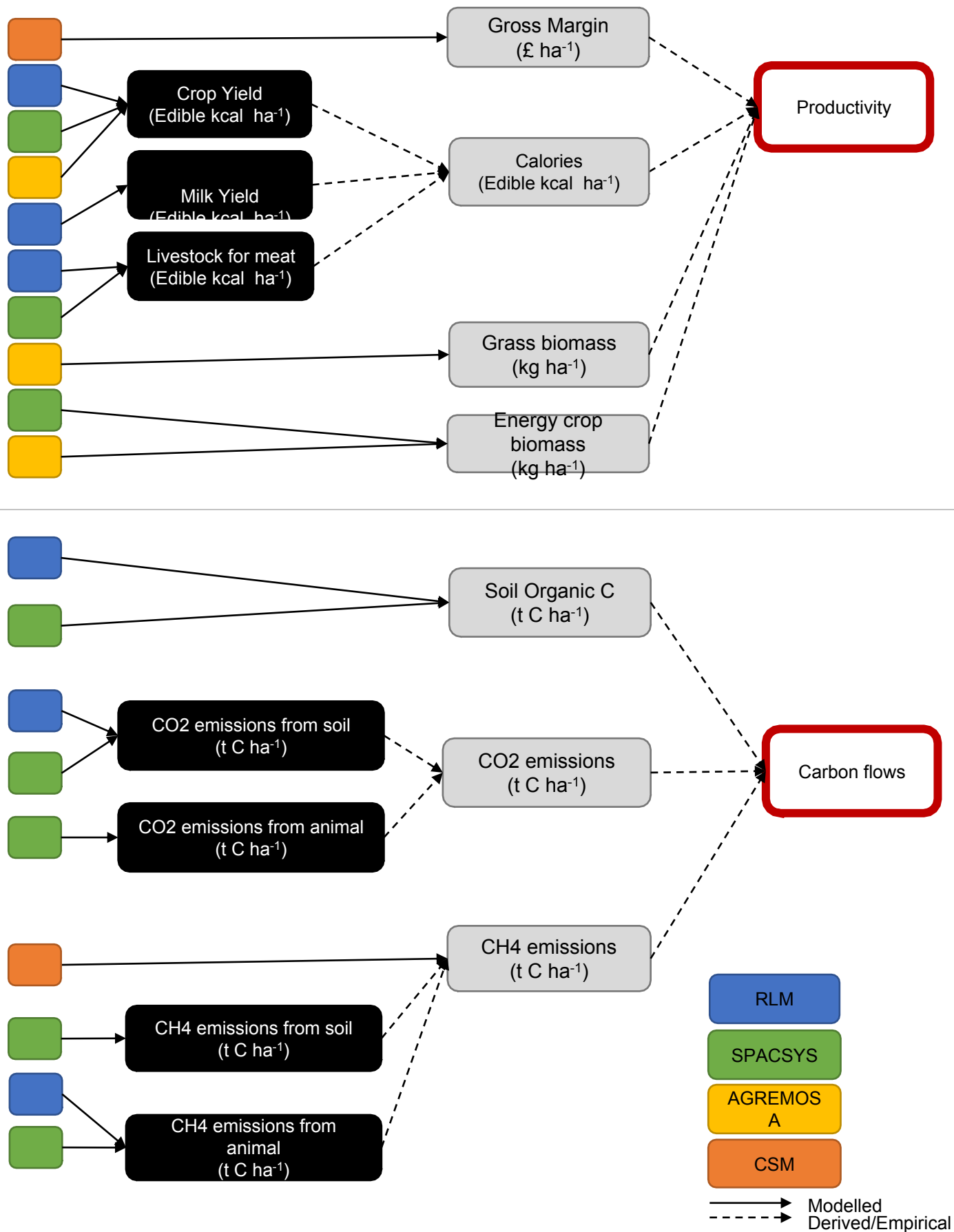


Figure S1: Flow diagrams illustrating the pathway partitioning of a) nutrient flows (N and P), b) productivity metrics and c) carbon flows from the four different agroecosystems models

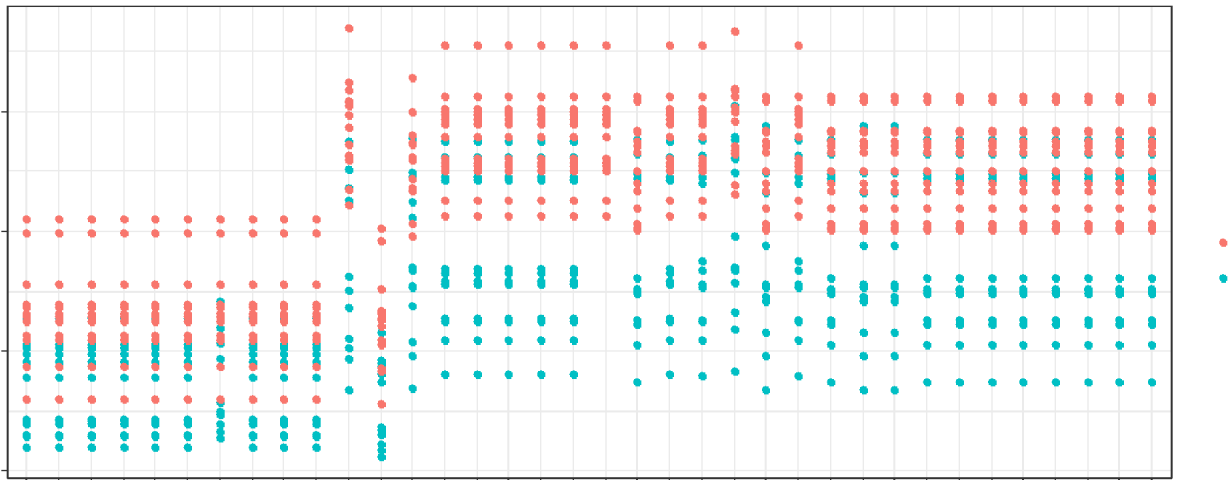


Figure S2: Comparison of miscanthus yields between AGREMOSA and SPACSYS over both time (each point) and space (x-axis)

Figure S3: N and P losses as simulated by SPACSYS. Each point represents the annual average at each grid cell with error bars giving the temporal variation (shown as  $\pm$  standard deviation)

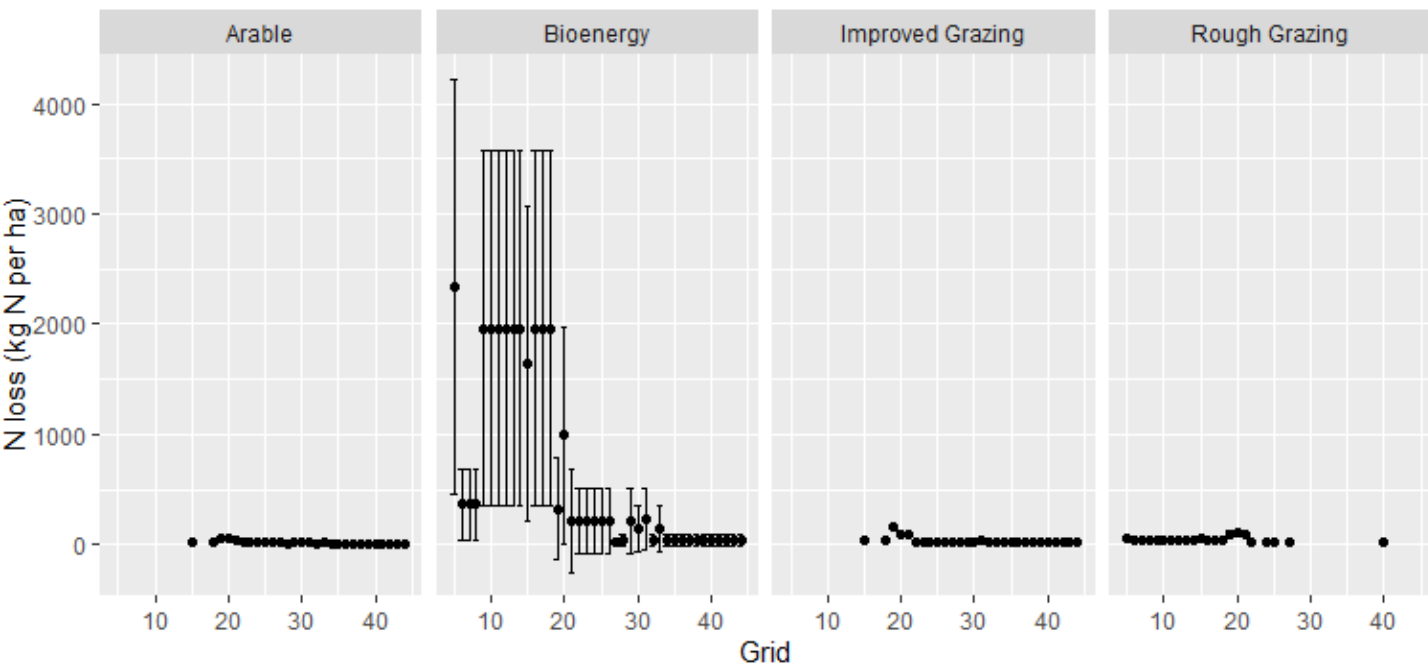


Figure S4: Biomass of all crops as simulated by AGREMOSA. Boxplots are of the annual biomass for each grid cell.

