# Pump priming ES Farm QR funding requests – Data & System Boundaries Group – REVISED 6th September 2021

**Harper Farm Data Mapping Project – Lead: Karl Behrendt**

**Others: Scott Kirby, Darren Roberts, Kim Wolstencroft, Eric Siqueiros, Ed Harris**

The Data and System Boundaries group’s objectives are to organise the collection and inputting of all data into AgreCalc, develop a dashboard to make farm data available to all, and define the systems boundaries of the farm Net-Zero. A recent Harper Farm data mind-map created by Scott Kirby and Alice Sault indicates Harper Farm data are diverse, largely disconnected, heterogeneous and disparate. The data required for AgreCalc is well defined and collection is underway, albeit with many gaps and estimates required to develop preliminary baseline carbon balance calculations for the Harper Farm and its activities/enterprises.

Further to this understanding what data is available on the farm and what is needed for all the potential different end-users is as yet largely undefined. There has been some work completed to partially define the requirements for teaching and finance, but these requirements need to be considered in the context of all other potential end-users. Importantly, data collection and centralisation needs to be efficient, sustainable and autonomous where possible.

This QR funding request is for **£11,349.76** to employ a Senior Graduate Research Assistant (57.6 days) to undertake Harper Farm Data Mapping and Need-Gap Analysis. This work will be undertaken in three stages:

1. Engage with potential stakeholders and uses of Harper Farm data (initially farm management, AgreCalc users, Finance, teaching/students, research) to define essential baseline data requirements and uses. This will be done through a mix of interviews and broader staff surveys.
2. Identify existing Harper Farm Data sources being collected or that are accessible and define their location/format, resolution and accuracy. This will be achieved by working with DSBG members, the new Farm Administrator and other selected HAU staff.
3. Use Gap Analysis to identify the existing gaps in data requirements and functionality between what is currently available and the defined essential baseline data required for end-users. Potential solutions will be identified and an investment plan prepared to overcome the essential data gaps in priority areas.

The outcomes from this project will also assist in defining the processes required to centralise and automate data collection, as well as assist in developing the potential integration of Harper Farm data with the Trinity AgTech Sandy platform so as to support scalability, data volumes, analytics and potential end-users.