

# Livestock Systems Department

## Title

Use of ICT tools to capture grass data and optimize grazing management

## Abstract

Profitability on grass-based systems is driven by degree of grass utilization. This is influenced by increased growth and optimum management of that growth. Frequent measurement of grass parameters, e.g. herbage yield, height, density will facilitate increased herbage production and utilization. However, traditionally such measurement on farms is limited. The potential use of ICT for grass measurement is dramatic. This project will test the potential for linking herbage measurement with a spatial dimension, thus allowing precise allocation of feed using GPS technology to be accomplished through developed ICT tools, a smart phone and a grassland management Decision Support Tool (DST). Subsequent integration with 'virtual fence' technology will be evaluated experimentally. This approach will reduce the skill requirement around grass measurement, increase available information, provide an ICT dimension and spatial element to paddock performance and management.

**Project Leader:** Bernie O'Brien

## Programme/Subprogramme/RMIS Number:

AGRIP – Moorepark-Livestock Systems – Decision Support Tools & Demo Farms-6338

**Start Date:** 02/01/13      **End Date:** 31/12/15