

AFBI Dairy Innovation - 2020 Vision and Beyond

Current AFBI research innovations and knowledge of best practices

Soil nutrient control -P, K, S, Slurry
43% of NI swards currently requires lime



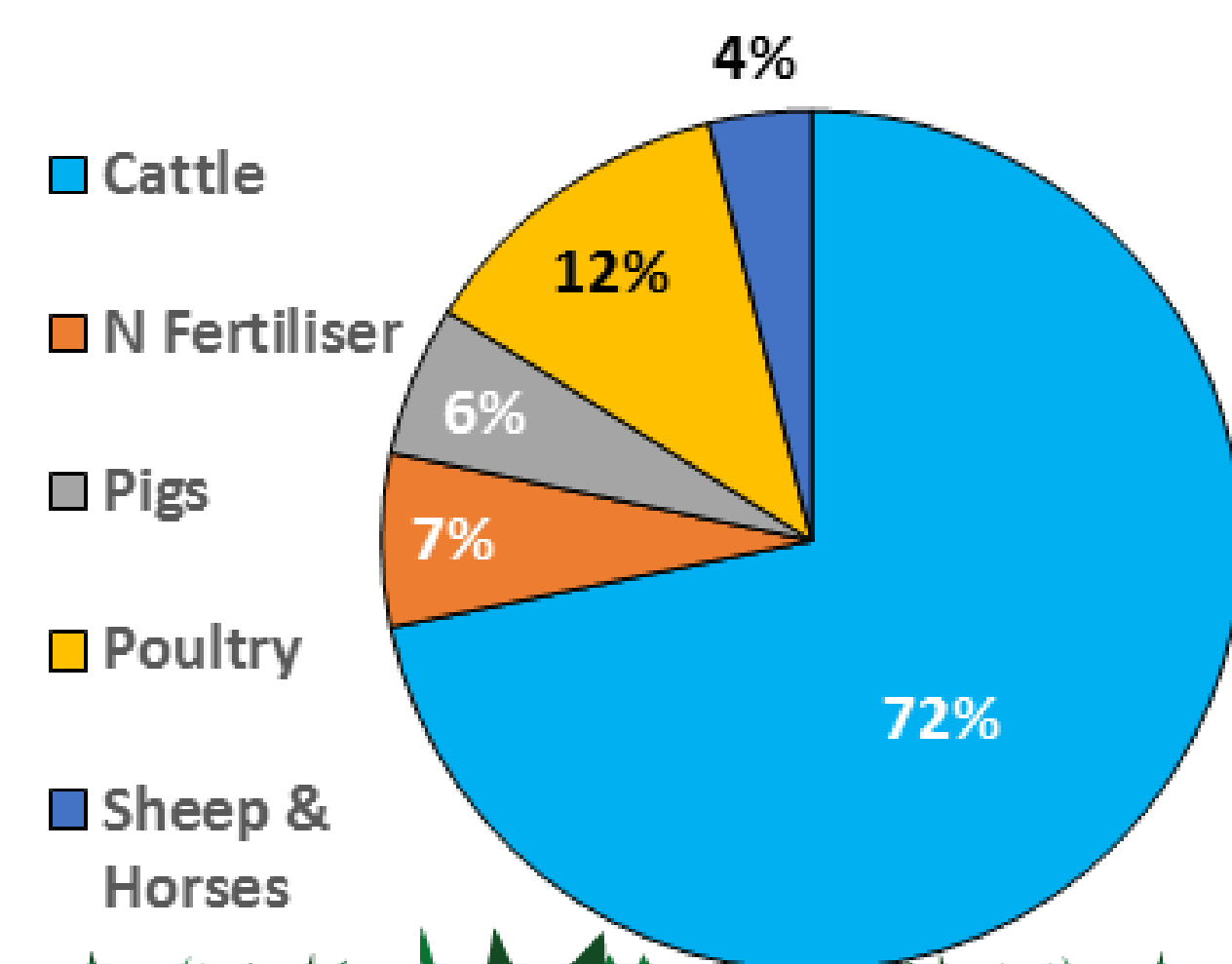
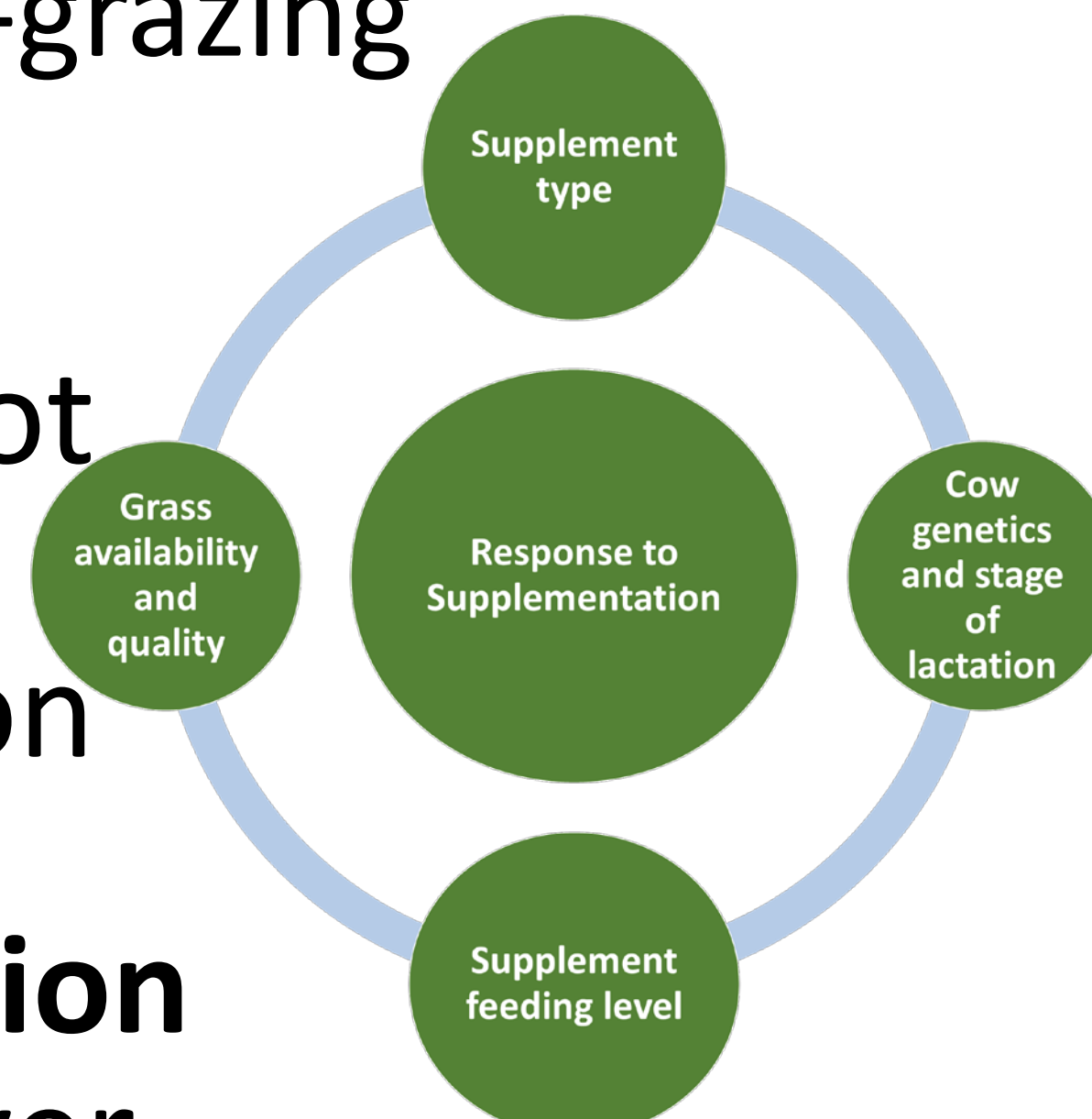
Balance grass utilisation & cow performance
Control pre- and post-grazing residuals

Economic return not max litres & monitor Body Condition



Risk of milk fat depression at concentrate levels over 12-14 kg/cow/day

NI required to adhere to ammonia emission targets under International treaties



Strategic antimicrobial use in dairy production

Production ↔ **Health**
↕
Environment

Measurement & abatement of agricultural ammonia emissions

Rumen development & microbiome studies for max lifetime potential

Updated blueprints on nutritional requirements of growing heifers

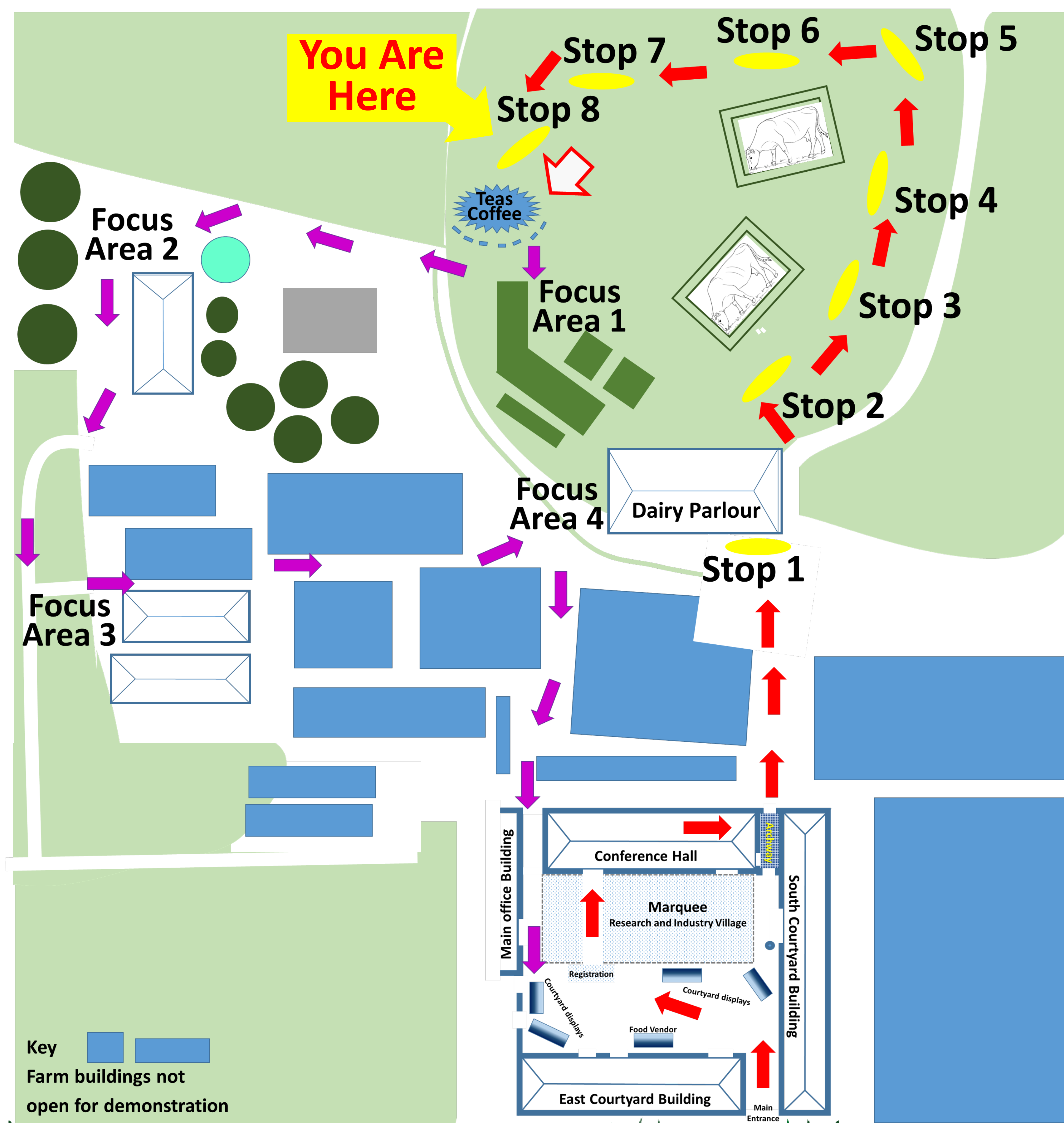
Novel grazing technologies to improve precision and reduce labour

Improve precision of feed-to-yeild systems - monitor 30 local dairy farms

Improving and proving the sustainability credentials of NI dairy food products

Improving eating quality of dairy bred beef

Drone mounted UAV sensors to aid grassland nutrient management



Focusing on Research into Practice

Talk to AFBI scientists and postgraduates about their research and to CAFRE staff about how to adopt their innovations into your farming practices:

● Focus Area 1: 'Green, Green Grass for Home'

Features:- :- GrassCheck in action; Grass utilisation; Soil assessment; Zero grazing; Precision technologies; AFBI varieties; Seed mixtures; White clover

● Focus Area 2: 'Where there's Muck there's Value'

Features:- Getting more from slurry; anaerobic digester; nutrient management facility processing/extraction; Managing on-farm slurry

● Focus Area 3: 'Investing in the Next Generation'

Features:- Dairy youngstock; Colostrum management; Calf health; Growth targets; Heifer grazing; Pre-wean nutrition; finishing dairy origin beef; BOVIS

● Focus Area 4: 'Good Health - Prevention Better than Cure'

Features:- Dry cow therapy; Lameness/Artificial-grass/footbaths; Bovine deaths, abortions, neonatal mortality; Health management procedures

Tour of Focus Areas is unguided so you can spend as long as you wish