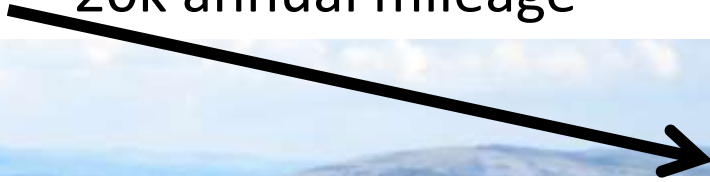


c. 50 dispersed locations – 20k annual mileage



Considerable other ‘public goods’ delivered

Extensive areas of tree and shrub cover

Native hardy breeds – smaller, slower growing, poorer conformation,

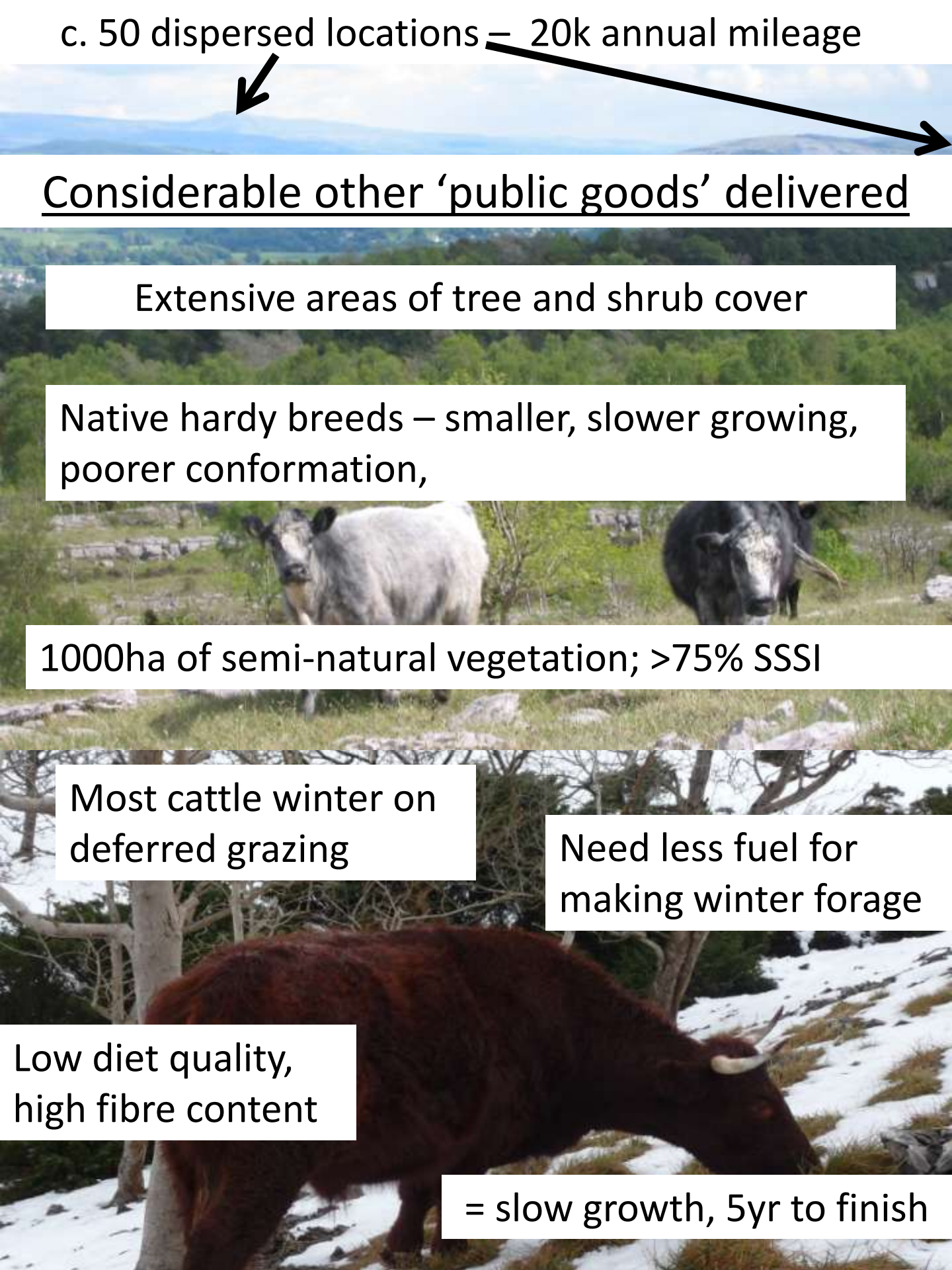
1000ha of semi-natural vegetation; >75% SSSI

Most cattle winter on deferred grazing

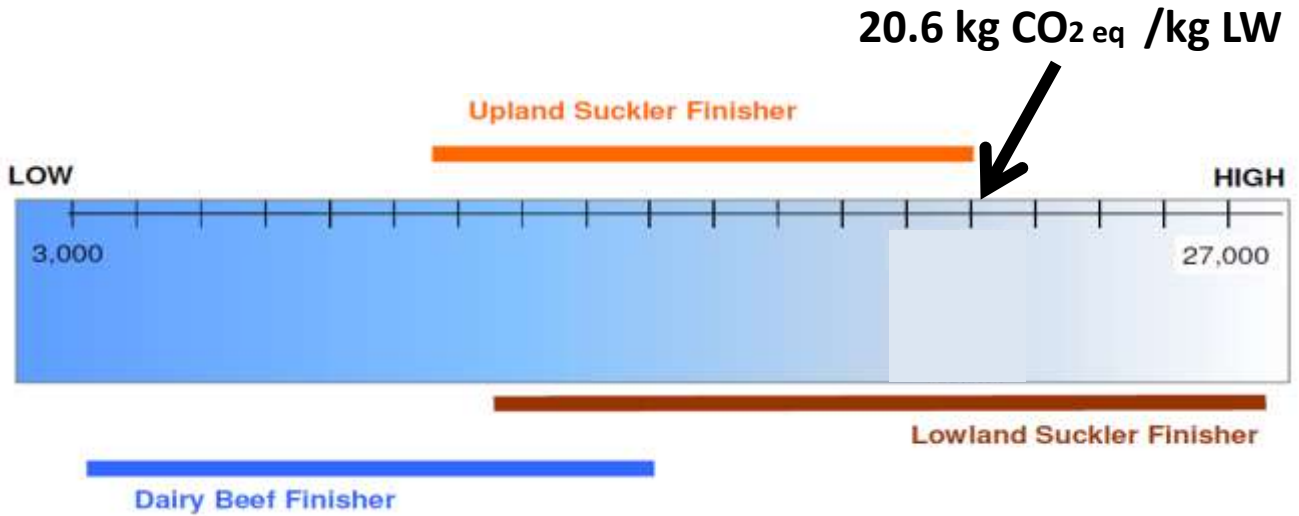
Need less fuel for making winter forage

Low diet quality, high fibre content

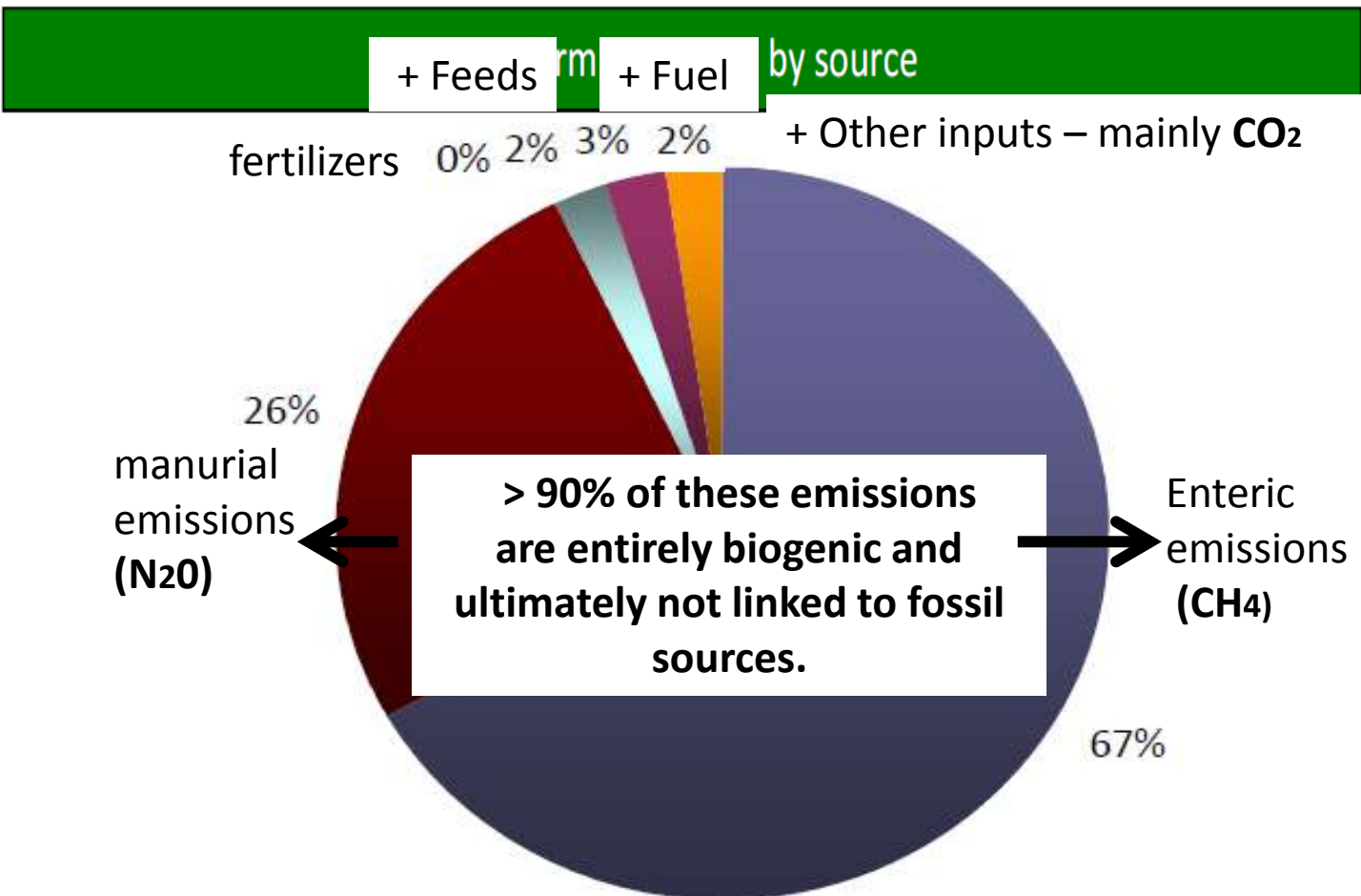
= slow growth, 5yr to finish



EBLEX Roadmap's approach – on-farm life cycle assessment PAS 2050

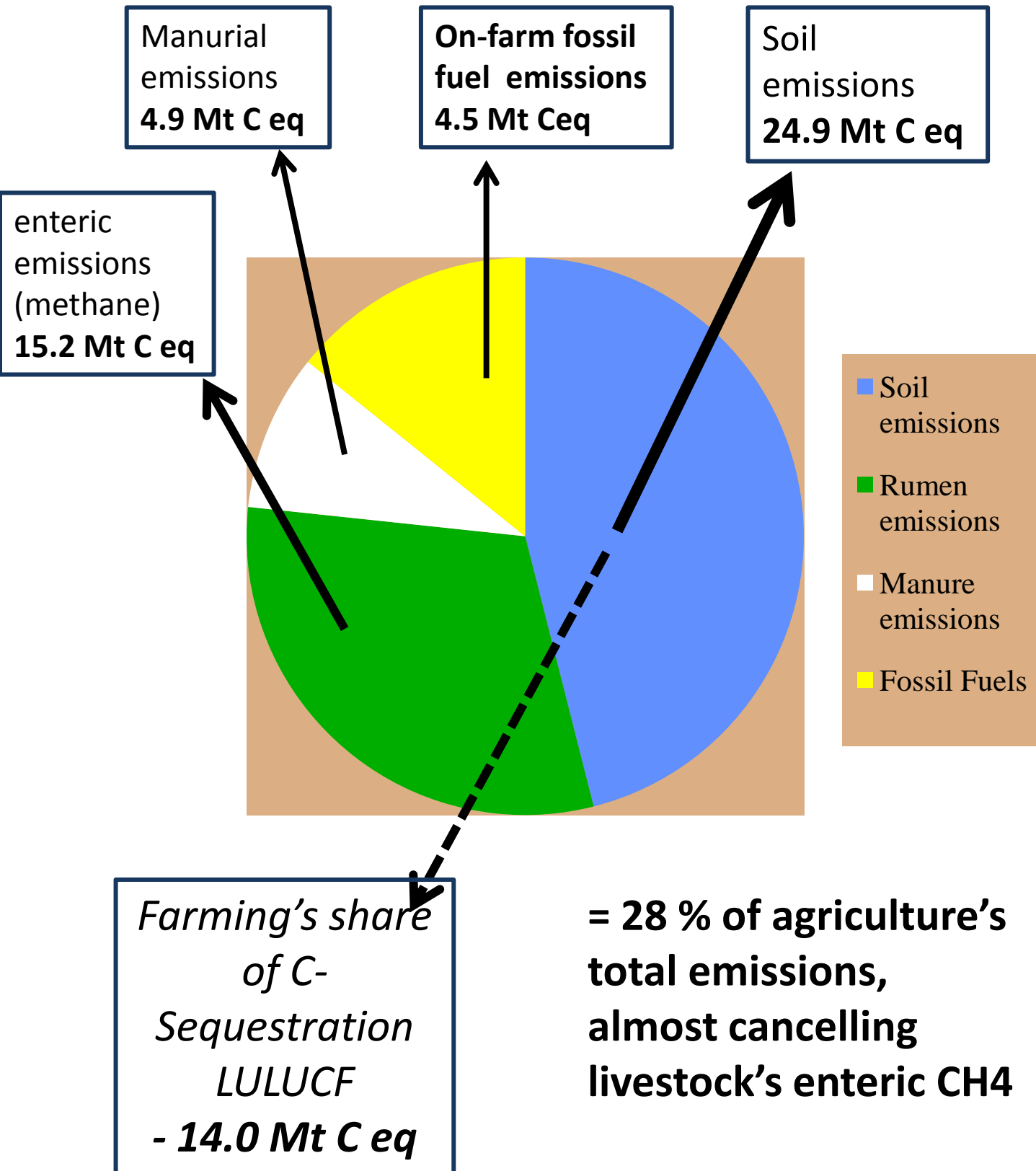


'These results confirm that GHG emissions are notably higher in more extensive systems based on lower quality forages that support lower growth rates, generating greater levels of methane.'



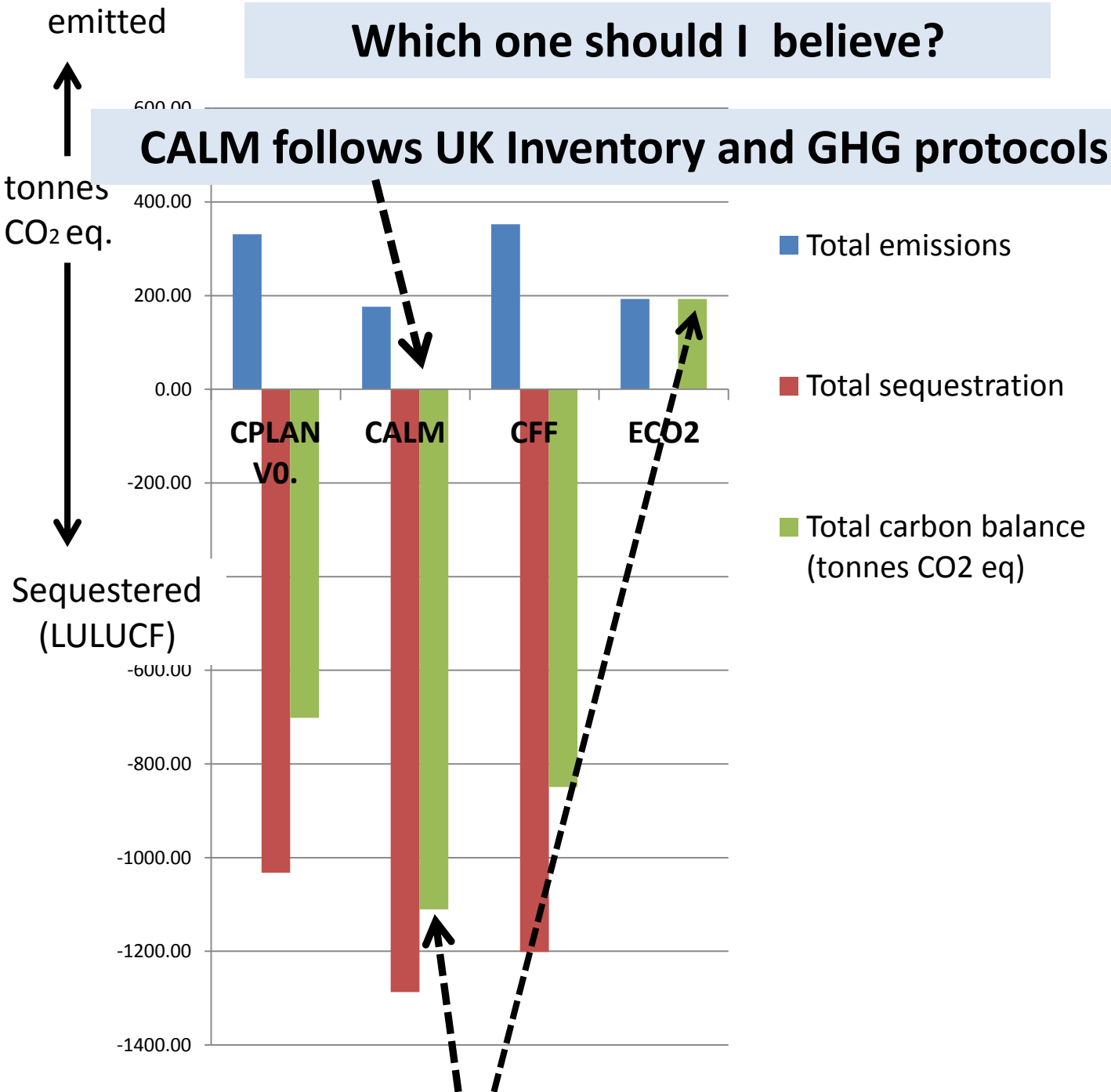
DEFRA's GHG Inventory; 2009 statistics for UK agriculture

IPCC-compliant



Other Calculators include LULUCF sequestration

Which one should I believe?

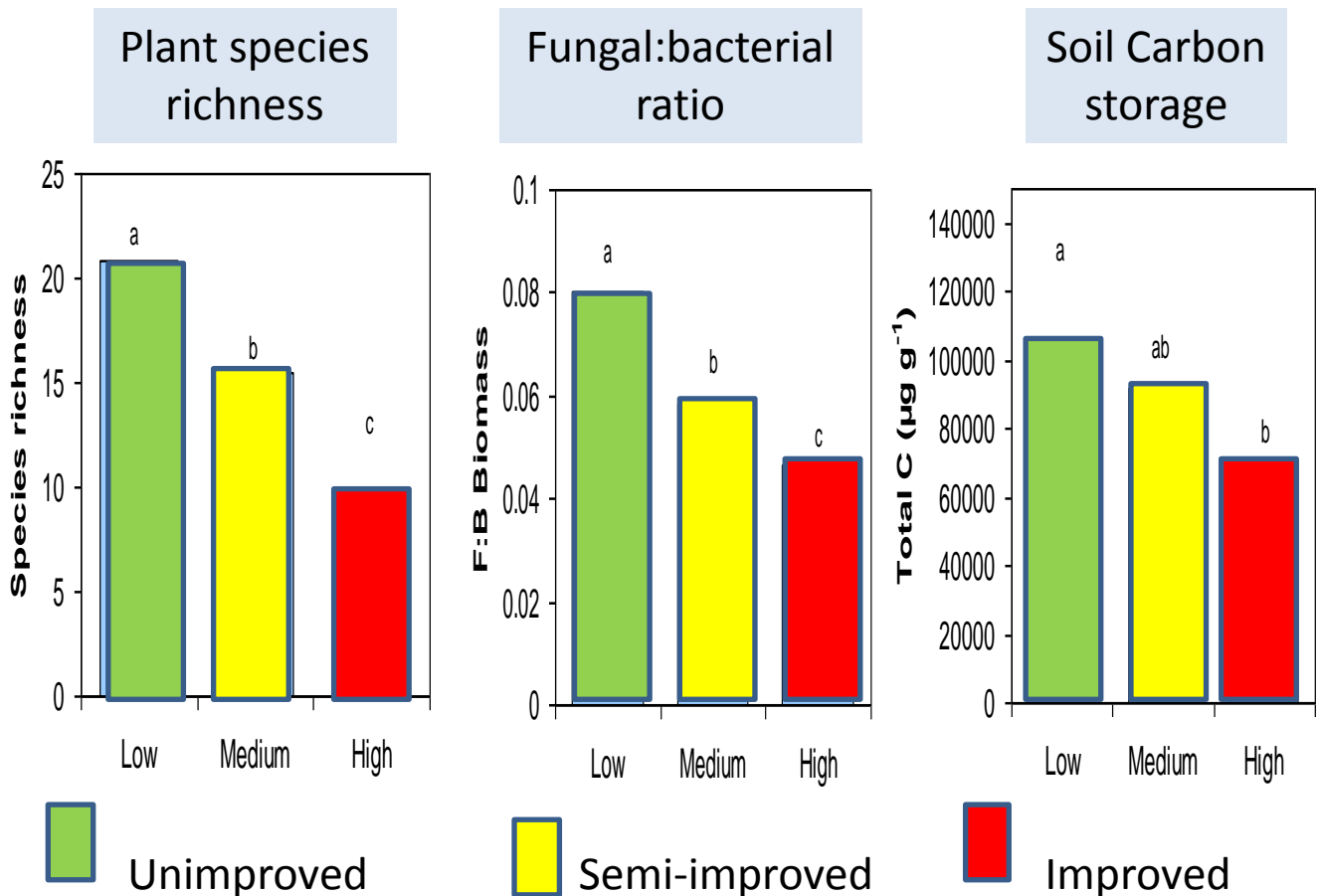


.... and gives the most favourable result

Why isn't soil C-sequestration also included?

Excluded from PAS 2050 because of 'uncertainties' but can be included as understanding advances

Data from DEFRA funded research @ Lancaster Uni. Sampled 180 grassland sites across UK to 7.5cm depth



long-term increases in management intensity found to reduce plant diversity & fungal dominance and are associated with lower soil carbon storage

Results indicate that soil C strongly influenced by type of management

But a more positive approach within the EU

JRC's GGELS-CAPRI project published Dec 2010 to explore various policy options for achieving 20% abatement by 2020 cf 2004 livestock emissions

Adopts a radical 'no saturation' approach to soil C-sequestration:

The scenarios assessed include 'emissions caps' 'Ruminant Tax' and 'Tradeable Emissions Permits'

Evaluation of the livestock sector's contribution to the EU greenhouse gas emissions (GGELS)

- Final report -

Administrative Arrangements AGRI-2008-0245 and AGRI-2009-0206

Evaluation of the livestock sector's contribution to the EU greenhouse gas emissions (GGELS)

