

National Beef Conference 2021

Meeting climate obligations - a pathway for the beef industry

National Beef Conference 6 December 2021

> Prof Frank O'Mara Teagasc Director



Teagasc commitment to beef farmers

- Approx. 29k drystock clients, 18k with suckler cows
- c. 200 Beef discussion groups with about 3k members
- 139 advisers and 11 specialists/programme advisers
- New demo farm advisory programmes starting for sucklers (Future Beef) and dairy beef (Dairy Beef 500)
- Active research programme with new investment in people and facilities at Grange



Launch of Future Beef 6 Dec 2021 Oliver and Christina O'Hara, Leckaun, Co. Leitrim



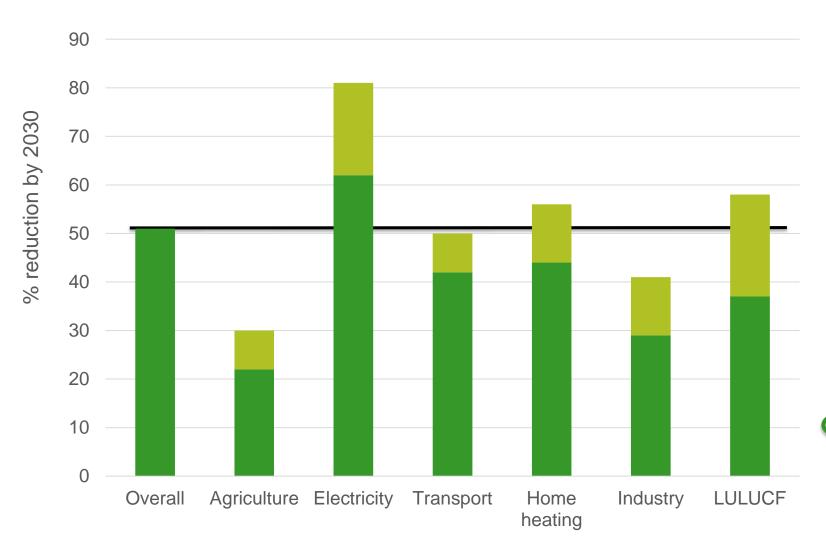
Govt and EU policy targets on Greenhouse gases

- 2021 New Climate Action and Low Carbon Development Amendment Bill
 - National emissions to reduce by 51% by 2030, written into legislation
- EU has also increased its targets
 - Fit for 55 targets a 55% reduction by 2030
- Climate change is central to licence to farm and in markets for our produce



Sectoral targets (Climate Action Plan)

% reduction required by 2030, compared to 2018 as a baseline





Agriculture emissions

2018: 23 MT CO₂e

2030: 16-18 MT CO₂e

Reduce by 5-7 MT CO₂e



Irish agricultural greenhouse gas emissions, 1990 - 2020

Mt CO₂e/yr



How can we meet these targets?

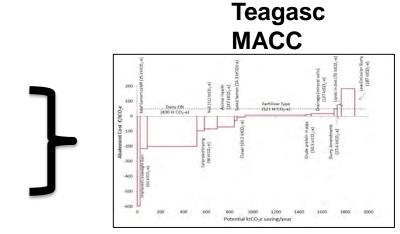




There is a pathway using efficiency and technology

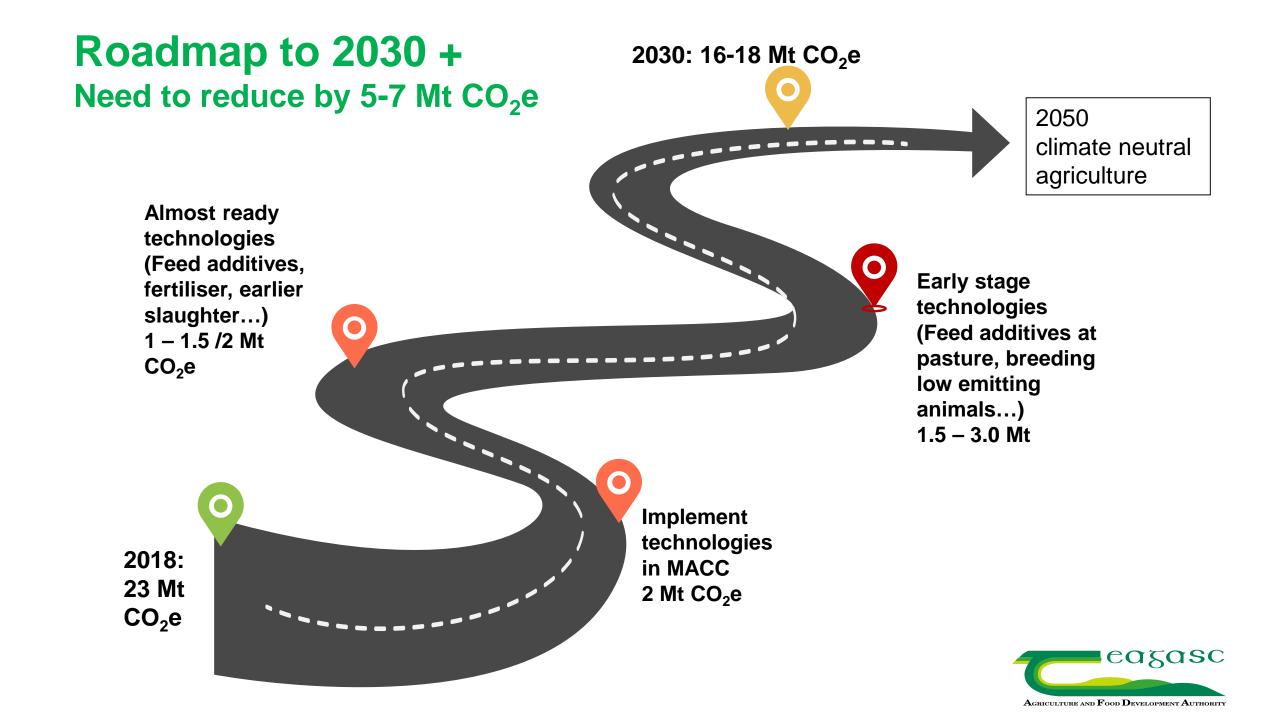
Efficiency

Technology



- Focus on nitrogen as methane hard to mitigate now
- Incentives / costs
- Industry needs to work together



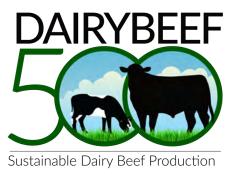


How will we work with farmers to achieve these targets?

- Signpost programme is a new national programme supporting farmers for climate action
 - > 100 demo farms with both suckler and dairy-beef
 - Farm walks, events, discussion groups, media
 - Training
 - Whole farm plan
- Focus now on
 - breeding, grassland management, animal health
 - saving N fertiliser (LESS, clover, soil fertility), protected urea
 - earlier slaughter as same carcass weight

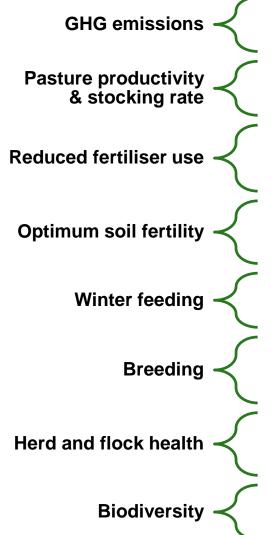








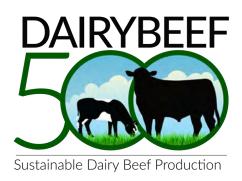
What KPI's will we enable Beef Signpost Farmers achieve?



- Contribute to the national reduction of GHG emissions from farming
- Reduce GHG emissions per kg carcase weight produced
- Identify and rejuvenate unproductive swards
- Increase grass utilisation, while matching stocking rates to grass production
- Reduce chemical N fertiliser usage by 10% over 5 years
- Increase sward clover content to 20% over 5 years
- Spread 35% of chemical N as protected urea and all slurry using LESS
- 90% of productive soils to have an optimum soil pH status within 5 years
- Correct soil P & K levels in high output fields to Index 3 e.g. silage fields; match soil P & K levels in grazing fields to stocking rate
- Target higher quality grass silage (DMD >70%)
- Target weanling performance over the first winter of at least 0.6Kg ADG
- Target an 18-20% herd/ flock replacement rate for a stable herd/ flock
- Select only high €uro-star index rams
- Increase the Beef Repl. Index in the suckler breeding herd by €5 per year
- All farmers to have a detailed herd/ flock health plan in place
- Target increased vaccination and reduced antibiotic usage on farm, with anthelminthics used in response to faecal egg test results
- Target 10% of high value biodiverse area per farm
- · Increase quantity and quality of biodiversity on the farm











What areas of environmental sustainability will be focused on by Teagasc advisors with beef farmers?



Using Protected Urea & Correcting Soil pH



Incorporating a % of Forestry



Low Emission Slurry Spreading



Improving Water Quality



Incorporating White Clover



Improving Hedgerow Management



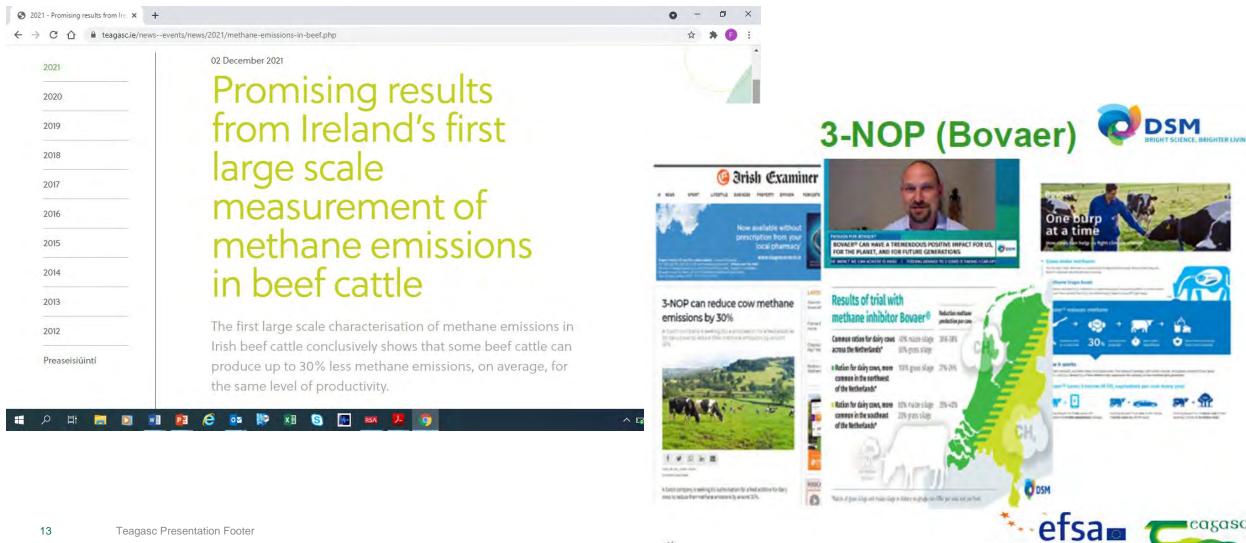
Improving Breeding & Grassland Management



Increased Biodiversity



Promising research on breeding low emitting cattle and feed additives



European Food Safety Authority

What will Teagasc do?

- Continue to support improvements in farmers' living standards and well being
- Promote technology and efficiency
 - Advisory priority (€17m Signpost Programme)
- Accelerate research into new technologies
- Review calculations of emissions and sequestration
- Ensure new technologies get counted in the inventory
- Support diversification opportunities such as organics
- Develop, with others, a pathway to 2030 and beyond







