

Presentation overview

- Irish agriculture an overview
- GHG policy context global, EU and Irish
- Development of a national GHG mitigation programme

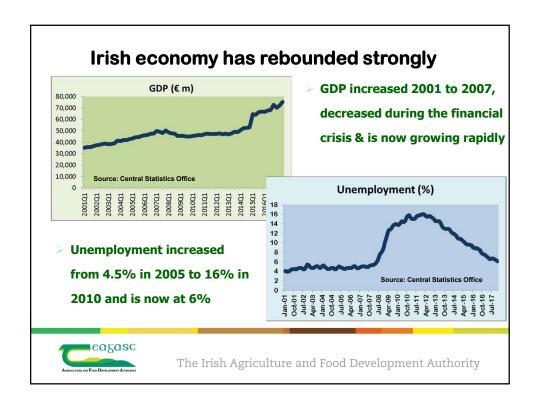


The Irish Agriculture and Food Development Authority

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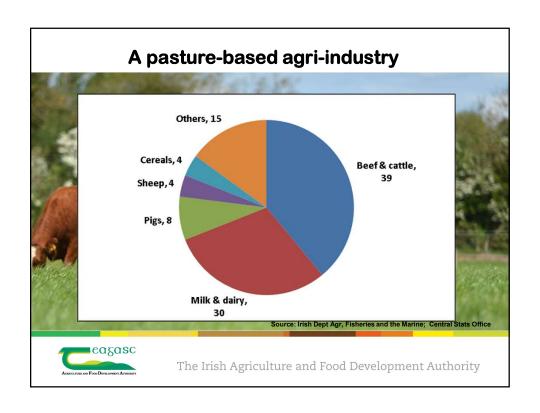


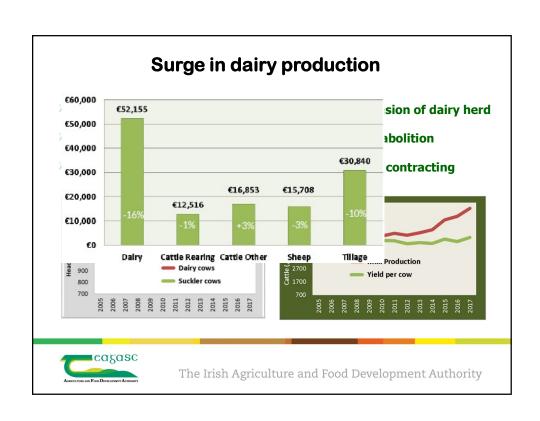
Agriculture continues to play an important role

Key Indicators for Primary and Agri-Food Sectors		
	Primary Sector ²	Agri- Food Sector ³
% of GVA at factor cost (2014)	2.4%	7.6%
% of employment (2015 average)	5.5%	8.4%
% of merchandise exports (2015 ⁴)	7.0%	10.7%

- Agriculture accounts for
 - > 24% of industry turnover
 - > 22% of industry gross output



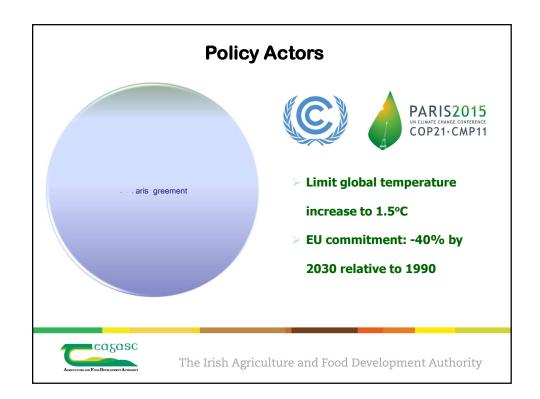


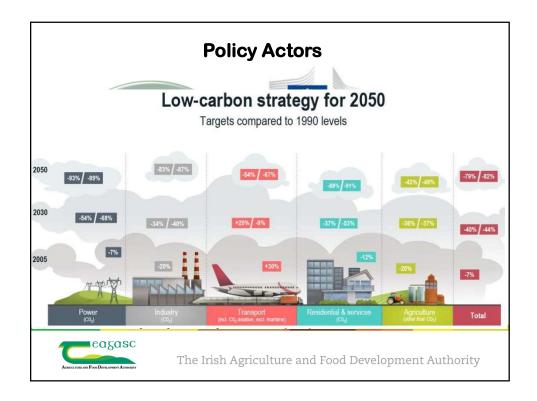


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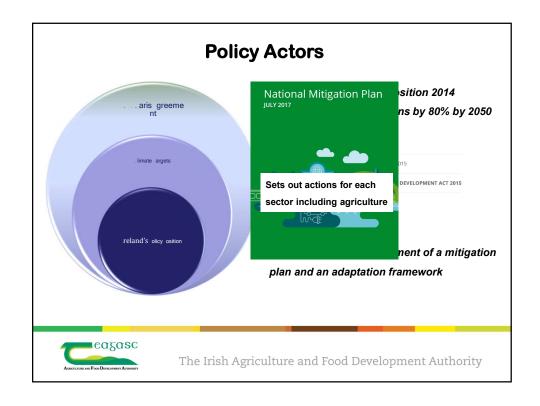


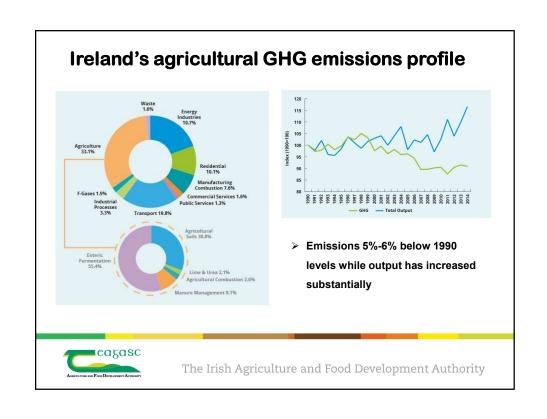
Game changer – EU council decision Oct 2014

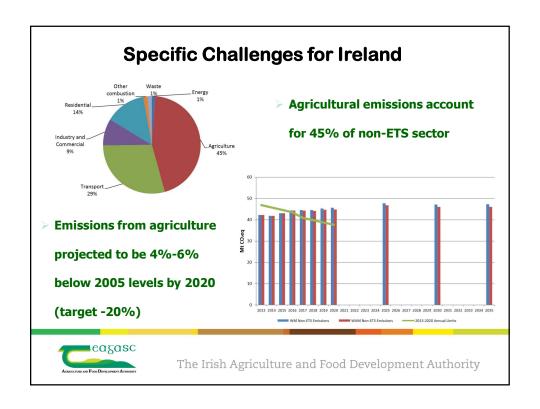


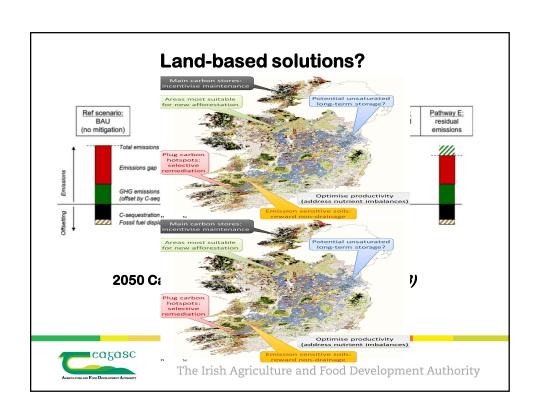
2.14 the multiple objectives of the agriculture and land use sector, with their lower mitigation potential, should be acknowledged, as well as the need to ensure coherence between the EU's food security and climate change objectives. The European Council invites the Commission to examine the best means of encouraging the sustainable intensification of food production, while optimising the sector's contribution to greenhouse gas mitigation and sequestration, including through afforestation. Policy on how to include Land Use, Land Use Change and Forestry into the 2030 greenhouse gas mitigation framework will be established as soon as technical conditions allow and in any case before 2020.

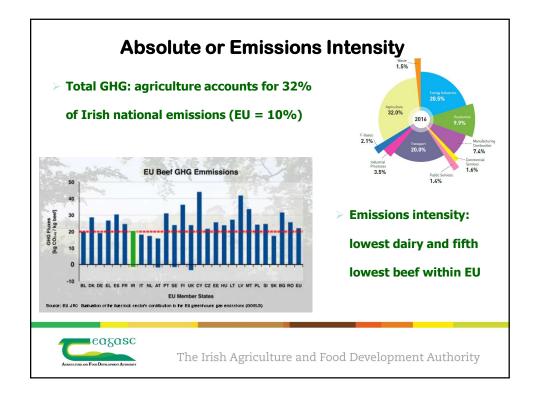


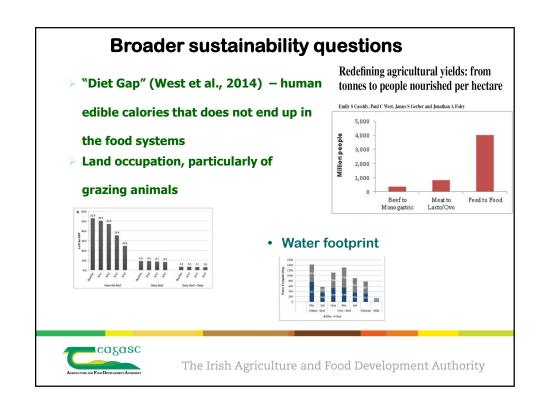












Human health considerations Reduction in DALY Impact of a reduced red and processed meat dietary pattern on disease risks and equivalent to 1% of health greenhouse gas emissions in the UK: losses a modelling study Type II diabetes Savings of over 3% on GHG All-cause emissions Reduction in relative risk (%) 30 Global diets link environmental sustainability and human health 20 "...plausible solutions to the diet-environment-health trilemma..." eagasc The Irish Agriculture and Food Development Authority



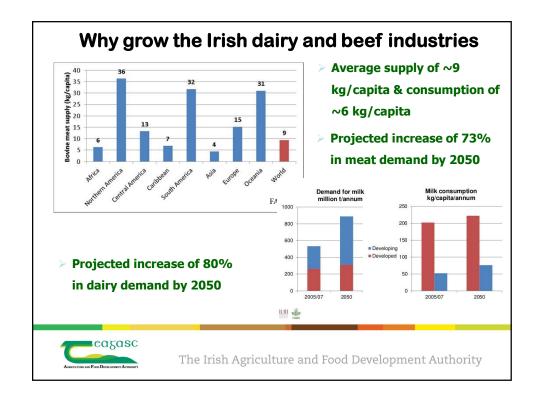
Government remains committed to agriculture

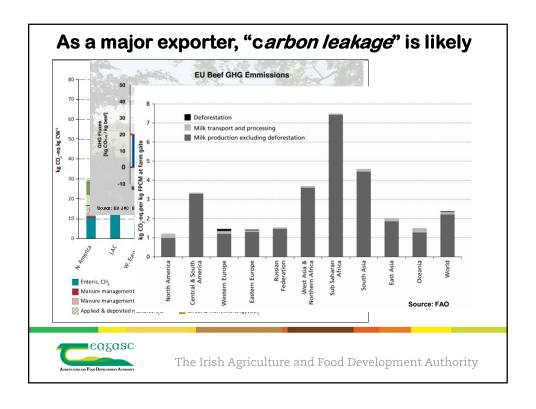
- > Food Harvest 2020: increase in milk output 50% & beef value 40%
- ➤ Food Wise 2025: 65% increase in primary production



> National mitigation plan endorses Teagasc's Carbon Neutrality Report





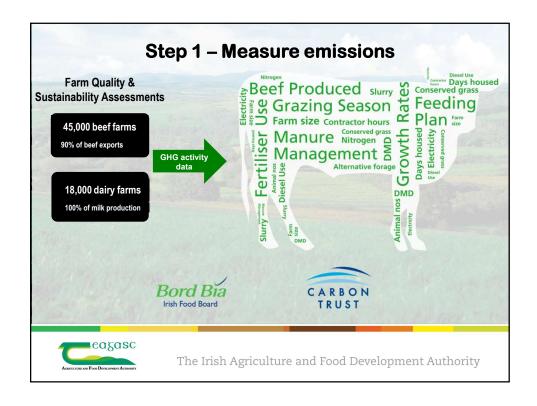


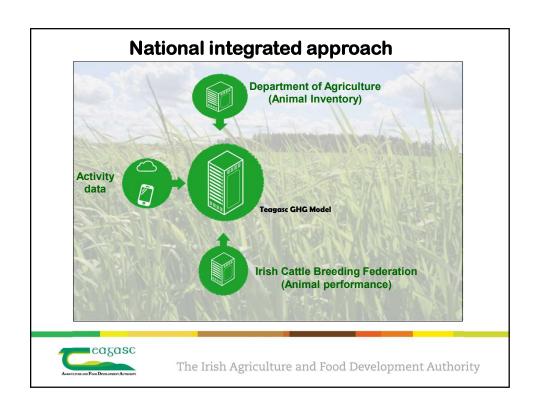
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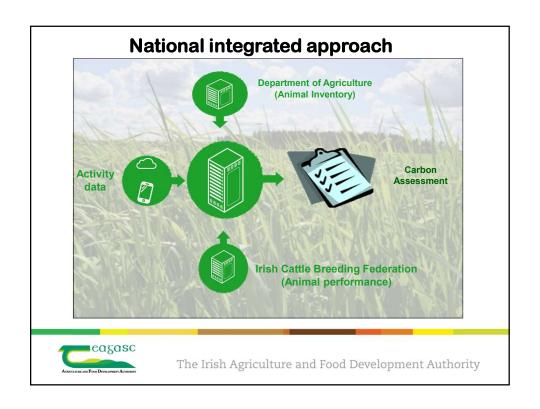
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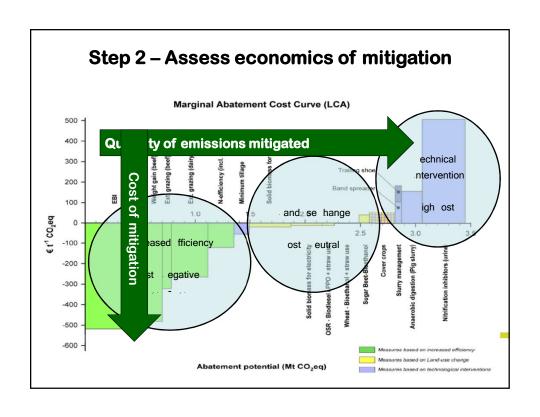
https://www.youtube.com/watch?v=xtxwmfNwieM











Step 3 – Reduce emissions. Carbon Navigator

> To mitigate emissions and increase awareness

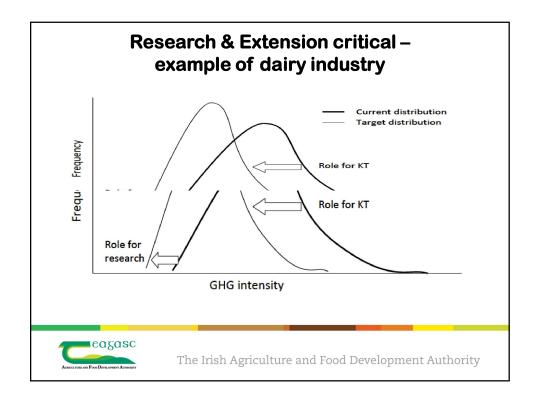
Practical measures: GHG mitigation and profitable

- 1. Grazing season length
- 4. Daily live weight gain
- 2. Age at first calving
- 5. Nitrogen fertiliser efficiency
- 3. Calving interval
- 6. Manure management



The Irish Agriculture and Food Development Authority

Carbon Navigator > To mitigate emissions and increase awareness Practical measures: GHG mitigation and profitable 1. Grazing season length 4. Daily live weight gain Age at first calving 5. Nitrogen fertiliser efficiency 3. Calving interval 6. Manure management Review current & potential Set targets Potential GHG & with advisor performance € benefits Efficiency Measure Chart GHG Change € Benefit Current Target Age At First Calving Age at first calving 28 mths 27 mths -0.6% +502 eagasc The Irish Agriculture and Food Development Authority



Take home messages

Leverage points for improving global food security and the environment

Paul C. West, 18 James S. Gerber, 1 Peder M. Engstrom, 1 Nathaniel D. Mueller, 2 Kate A. Brauman, 1 Kimberly M. Carlson, 1 Emily S. Cassidy, 3 Matt Johnston, 1 Graham K. MacDonald, 1 Deepak K. Ray, 1 Stefan Siebert 4

"One goal for achieving food security is to grow more food on the existing land base in ways that limit additional pressure on natural ecosystems..."

- Agriculture plays a key role in the Irish economy
- Dairy industry growing; strong commitment to sustainable development with a focus on land use policy
- GHG emissions targets will be challenging short term will be missed
- Continued commitment to the agri-food sector but...

"The agricultural sector urgently needs to step up to the plate when it comes to meeting the COP21 targets. Clear and measurable targets will be built into the national CAP action plans, and failure to meet them will result in penalties." EU Commissioner for Agriculture, Phil Hogan



