

Growing the success of Irish food & horticulture



Sustainability Trade Research Study

November 2009











Viewed as green & natural...

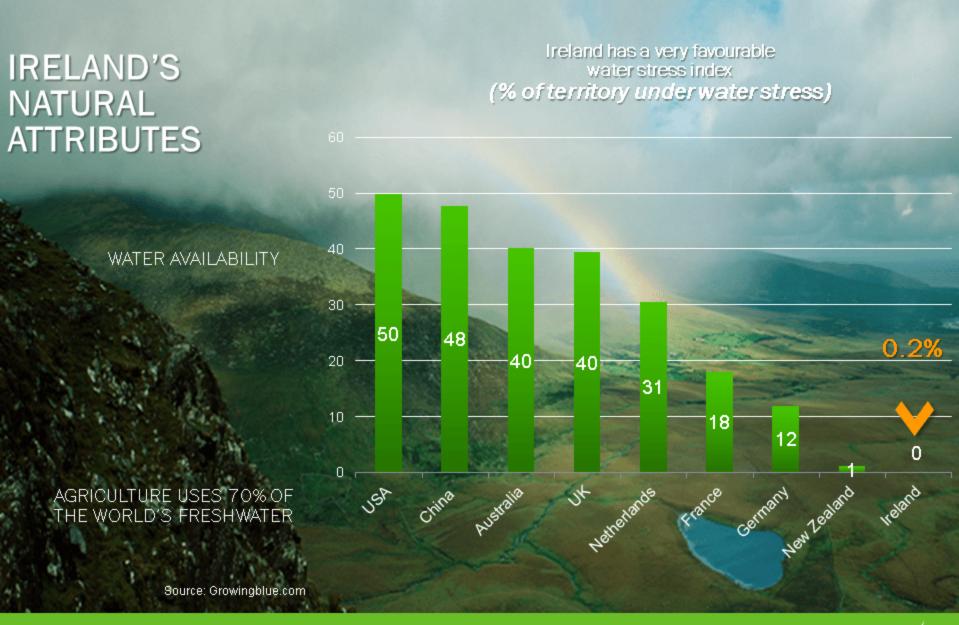
We now need to prove it...



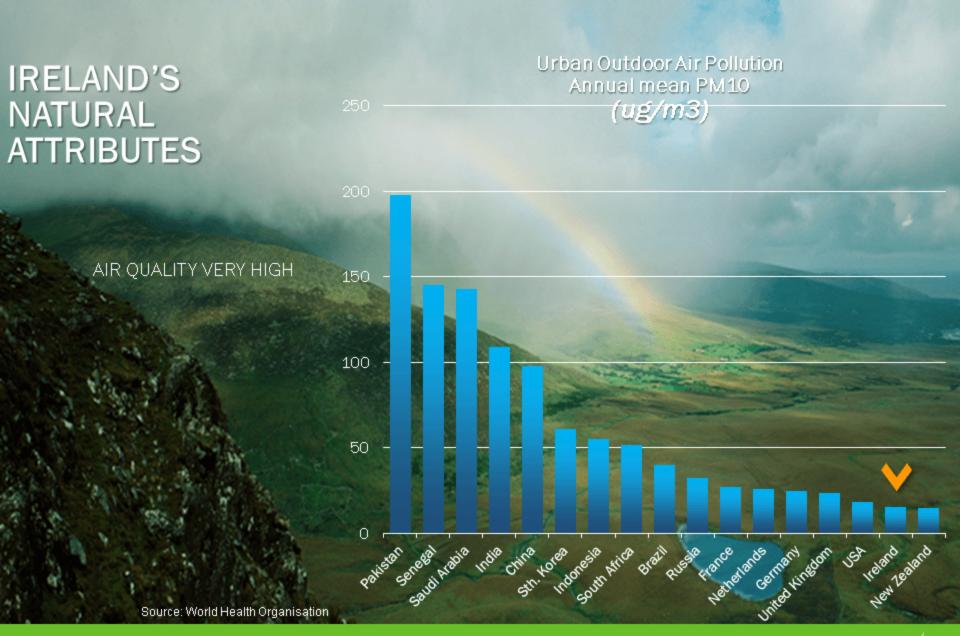






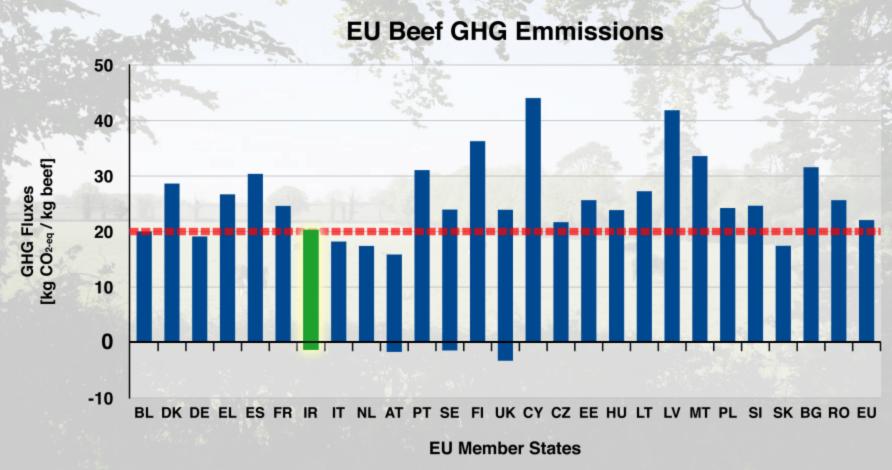








Ireland's Natural Attributes *Greenhouse Gas Emissions*



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





A World Leader in Sustainability

Everyone on the journey...every farm & food manufacturing business signs up to the sustainability agenda...

Measuring what matters...

International Standards...accreditation, independent verification...

Continuous Improvement...performance based on science, innovation and best practice..

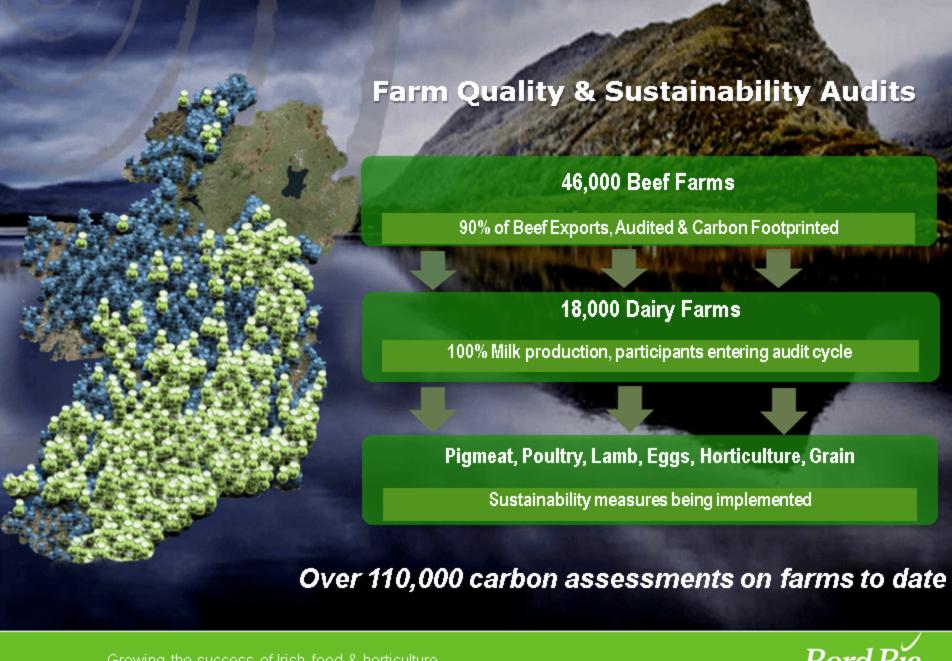




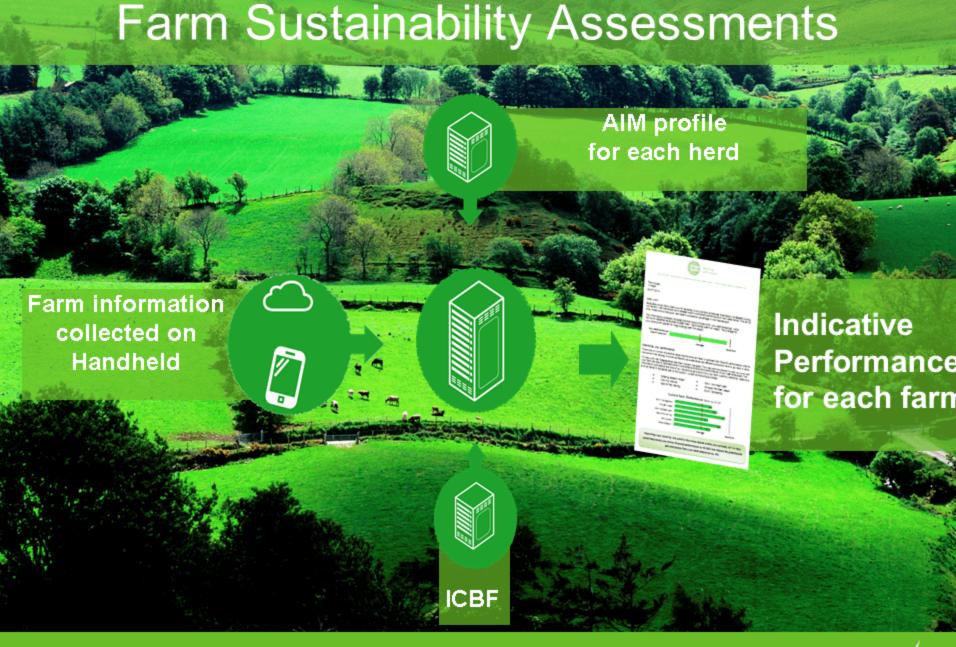














Using data collected on farm in carbon footprint model

Grazing Days, Turnout By Day To Full Housing (Original survey 4.1)	Jan	Feb	Mar	Apr
Dairy Cows (days)	0	0	15	30
Housing Days, Turnout By Day To Full Housing (Original survey 4.1)	Jan	Feb	Mar	Apr
Days in month	31	28	31	30
Dairy Cows (days)	31.00	28.00	16.00	
Grazing Days Full Turnout To Full Housing (Original survey 4.1)	Jan	Feb	Mar	Apr
Dairy Cows (days)	0	0	15	30
Replacements 0-12mths (days)	0	0	0	30
Replacements 12-24 mths (days)	0	0	0	30



Sample herd AIM profile gathered

Audit Id		Origin	Sex			Dam Breed	Sire Breed	Date In	Date Out	Date Disposed	Move Type	Days On Farm For Year
1	IE111064410204	Dairy	F	08/03/2004		FR	FR		26/01/2013			26 365
1	IE111064410253	Dairy	F	18/02/2005	FR	FR	FR					
1	IE111064410344	Dairy	F	28/01/2007		FR	FR					365
1	IE111064410360	Dairy	F	18/03/2007		FR	FR					365
1	IE111064410410	Dairy	F	20/03/2008		FR	FR		15/02/2013			46
1	IE111064410526	Dairy	F	02/03/2010	FR	FR	FR					365
1	IE111064410550	Dairy	F	05/02/2011	FR	FR	FR					365
1	IE111064410559	Dairy	M	08/02/2011		FR	FR		15/02/2013			46
1	IE111064410567	Dairy	F	13/02/2011	FR	FR	FR					365
1	IE111064410575	Dairy	M	19/02/2011	FR	FR	FR		15/02/2013			46
1	IE111064410583	Dairy	F	07/03/2011	FR	FR	FR					365
1	IE111064410591	Dairy	F	23/03/2011	FR	FR	FR					365
1	IE111064410600	Dairy	F	26/01/2012	FR	FR	FR					365
1	IE111064410609	Dairy	M	30/01/2012		FR	FR		30/12/2013			364
1	IE111064410617	Dairy	F	04/02/2012	FR	FR	FR					365
1	IE111064410625	Dairy	F	10/02/2012		FR	FR					365
1	IE111064410633	Dairy	M	15/02/2012	FR	FR	FR		30/12/2013			364
1	IE111064410641	Dairy	M	18/02/2012		FR	FR		21/05/2013		I	141
1	IE111064410666	Suckler	F	11/05/2012	AAX	FR	AA					365
1	IE111064410674	Dairy	M	31/01/2013	FR	FR	FR	31/01/2010	27/02/2013		OD	27
1	IE111064410682	Dairy	F	03/02/2013	FR	FR	FR	03/02/2010				331
1	IE111064410690	Dairy	F	08/02/2013		FR	FR	08/02/2010				326
1	IE111064410699	Dairy	M	17/02/2013	FR	FR	FR	17/02/2010	05/03/2013		OD	16
1	IE111064410708	Dairy	F	21/02/2013	FR	FR	FR	21/02/2010				313
1	IE111064410716	Dairy	M	27/02/2013		FR	FR	27/02/2010	15/03/2013		OD	16
1	IE111064410724	Dairy	M	06/03/2013		FR	FR	06/03/2010				300
1	IE111064410732	Suckler	F	24/03/2013		FR	AA	24/03/2010	14/06/2013		HK	82 41
1	IE111064410740	Suckler	М	01/05/2013	AAX	FR	AA	01/05/2010	11/06/2013		HK	41

Information accessed from Dept. of Agriculture with farmers permission



Feedback to farmers

Improving you performance

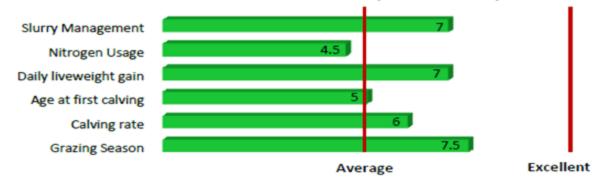
There are a number of practical steps that farmers can take to optimise their footprint performance while at the same time helping to boost profitability as sustainable and efficient production tend to go hand in hand.

To help with the Teagasc/Bord Bia Farm Carbon Navigator Tool has been developed to help you work with your farm advisor to optimise the environmental and economic performance of your beef enterprise. The information provided at the time of our visit allows us to show how your farm currently performs - relative to similar farms in the same part of the country - under the following six areas:

- Grazing season length
- Calving interval
- Age at first calving

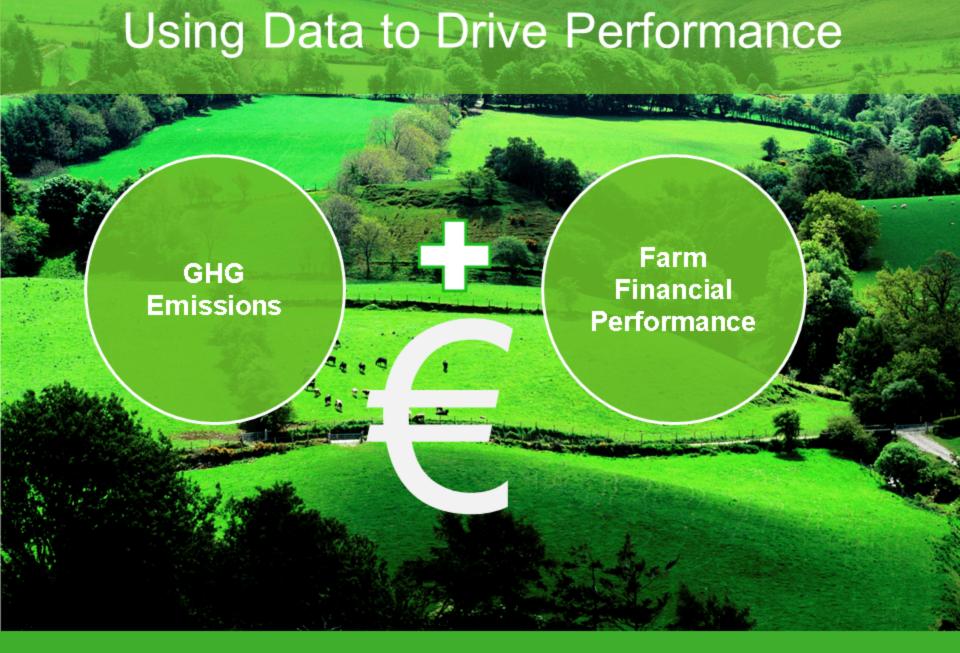
- Daily liveweight gain
- Nitrogen fertiliser usage
- Slurry Spreading

Current Farm Performance (Score out of 10)

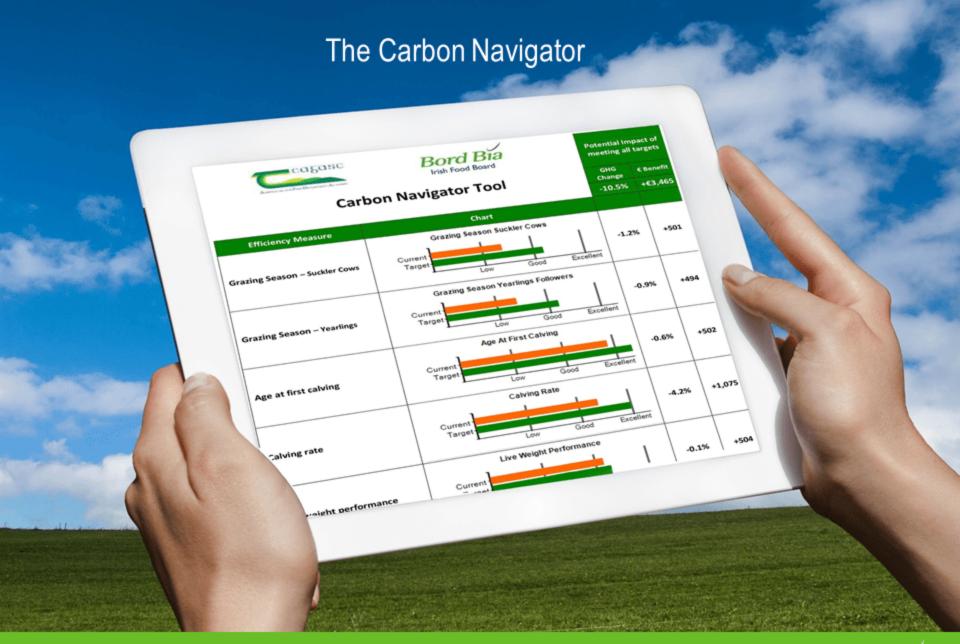


Improving your score by one point in the areas above where you currently at 6 or less could help boost your farms financial performance by €2,000 and reduce the greenhouse gas emissions from your beef enterprise by 5%.





Sustainable = Efficient





Carbon Navigator tool

Looks at practical measures on farm

- 1. Grazing season length
- 2. Age @ first calving
- 3. Calving interval

- 4. Daily live weight gain
- 5. Nitrogen fertiliser efficiency
- 6. Manure management



Review current & potential performance

Identify Potential GHG & € Benefits

Efficiency Measure	Current	Target	Chart GHG	Change	€ Benefit
Age at first calving	28 mths	27 mths		0.6%	+502
			Low Good Excellent		+502



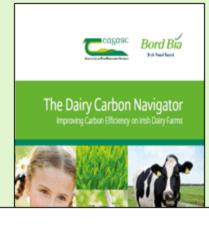


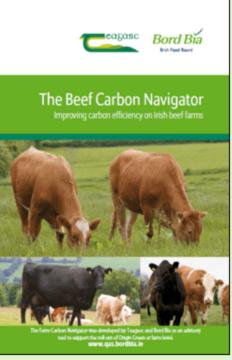
Roll out of Carbon Navigator

Rural Development Programme: 40,000 Farmers





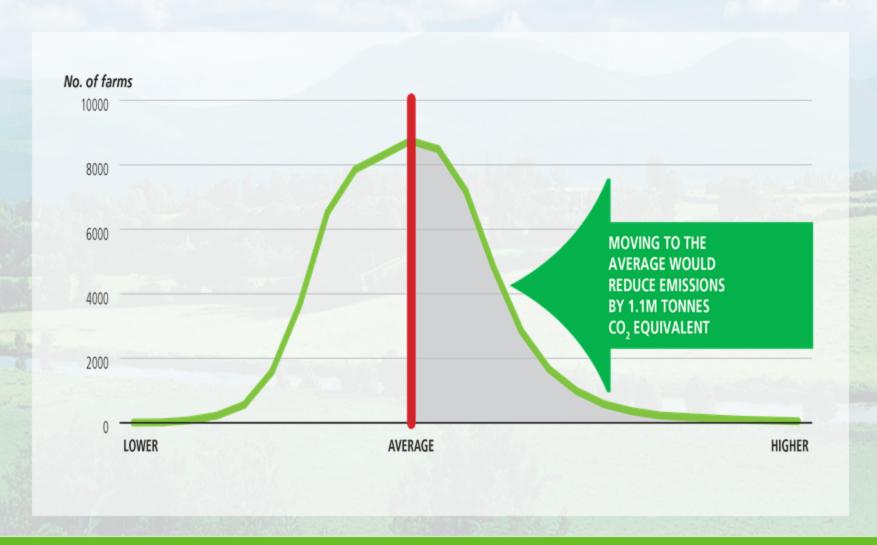








RANGE OF CARBON FOOTPRINT RESULTS ACROSS BEEF AND DAIRY FARMS





FARM CASE STUDIES

William Morrow, Co. Donegal





Bord Bia Sustainable Beef Producer Winner, 2014: Dairy Calf to Beef



Pat Murray, Co. Wexford





Bord Bia Sustainable Beef Producer Winner, 2014: Weanling/Store to Beef



Tim Joyce, Co. Galway





Bord Bia Sustainable Beef Producer Winner, 2014: Suckler to Weanling/Store



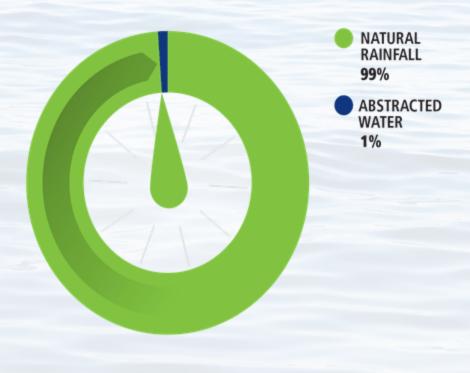
Jonathan Greene, Co. Kildare



Bord Bia Sustainable Beef Producer Winner, 2014: Suckler to Beef



WATER CONSUMPTION OF IRISH BEEF & DAIRY SYSTEMS



99%

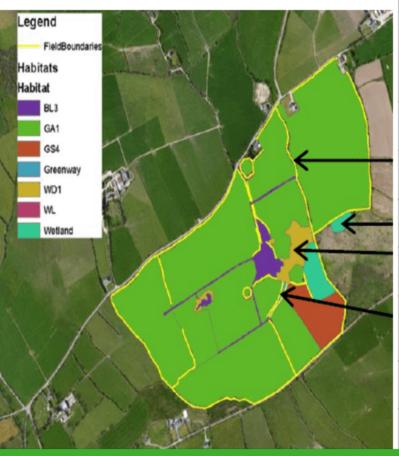
99% of water consumption comes from natural rainfall.







Remote Assessment of Wildlife Habitats

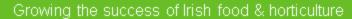


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	1.	The area of habitats on the farm is greater than 25%, and represents a substantial contribution to farmland habitats for wildlife. No further habitat enhancement or creation is required. However, the farmer might consider the following suggested actions to benefit wildlife on small areas of the improved agricultural grasslands.	
	2.	Hedgerow cutting can be more wildlife-friendly by leaving uncut for two to three years, and by cutting in rotation (rather than all at once).	
	3.	Consider creating or extending small areas of woodland through the Native Woodland Scheme	
-	4.	Widen existing field margins or headland areas that have native wildflowers.	
	5.	If there are no existing field margins with native wildflowers, create some field margins by sowing pollen and nectar-rich plant species (see website for details)	
	6.	Control and eradicate non-native invasive species that threaten native habitats and wildlife e.g. Himalayan balsam, Japanese knotweed, <i>Gunnera</i> and <i>Rhododendron</i> (see website for details)	
	7.	Create a farmland pond	
	8.	See website* for other suggestions.	

Pilot on 200 farms in 2016













Origin Green Verified Members

Company Recruitment Pipeline Arrabawn ARYZTA Arrabawn Allantis Aurivo 6 Garley Geogramus BRITVIC Butters Abbott 523 Registered DATAN FERRIS CARR entry Crest 90% of exports & SONS Fogle Errigal Manager 166 Developing Plans LARGO FOODS 153 Draft Plans Submitted 204 Verified Members >85% of exports







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Q,

ORIGIN GREEN PLATFORM

Welcome to our new members Gareth Wescott (The Food Tap), Jenny Synnott (The Dublin Cookie Company) & Sinead Ryan (Bulmers Ireland).

Welcome to the Origin Green Platform READ MORE



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Is there a method for calculating energy savings on automatic fast closing chill doors?

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15 hours one to one support

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arry O'Donovan

Environmental Officer, ABP Food

150+ companies took online course

online co

Environmental Consultant, Flann Environmental Ltd

ED

Eamonn Diver

Engineering Manager, Bewleys L













PERCENTAGE OF EXPORTS FROM ORIGIN GREEN VERIFIED MEMBERS









EXPORTS FROM ORIGIN GREEN MEMBERS

21%

€1.93bn

EXPORTS FROM ORIGIN GREEN MEMBERS

€5.44bn

EXPORTS FROM ORIGIN GREEN MEMBERS

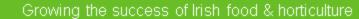
€7.84bn

GREEN MEMBERS

€9.15bn





















THE WORLD WILDLIFE FUND

RETHINKING FOOD

TODAY ONE OF THE BIGGEST THREATS TO OUR PLANET COMES FROM THE PRODUCTION OF FOOD. IF WE DON'T GET THE WHERE AND HOW OF FOOD PRODUCTION RIGHT OVER THE NEXT 40 YEARS, WE'RE TOAST.

AND WE'VE SEEN A FEW MAJOR WINS







IRELAND BECAME THE FIRST COUNTRY TO COMMIT TO THIRD-PARTY VERIFIED, 100% SUSTAINABLE FOOD EXPORTS BY 2016

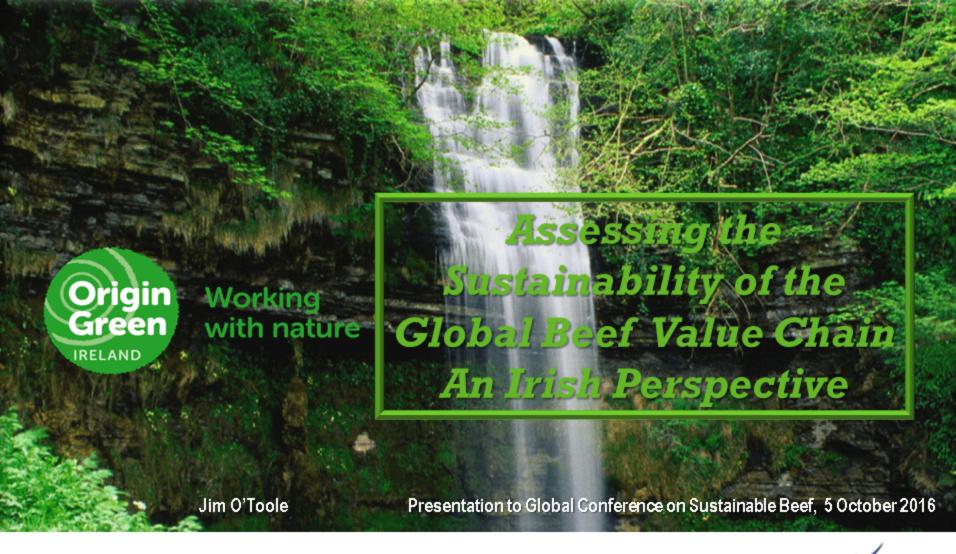




CONSUMER **BRANDS THAT** DEMONSTRATE COMMITMENT TO SUSTAINABILITY OUTPERFORM THOSE THAT DON'T

Sixty-six percent of consumers say they are willing to pay more for sustainable brands—up from 55% in 2014 and 50% in 2013.





Growing the success of Irish food & horticulture

