# Producing Pigmeat Sustainably

#### **Gerard McCutcheon**

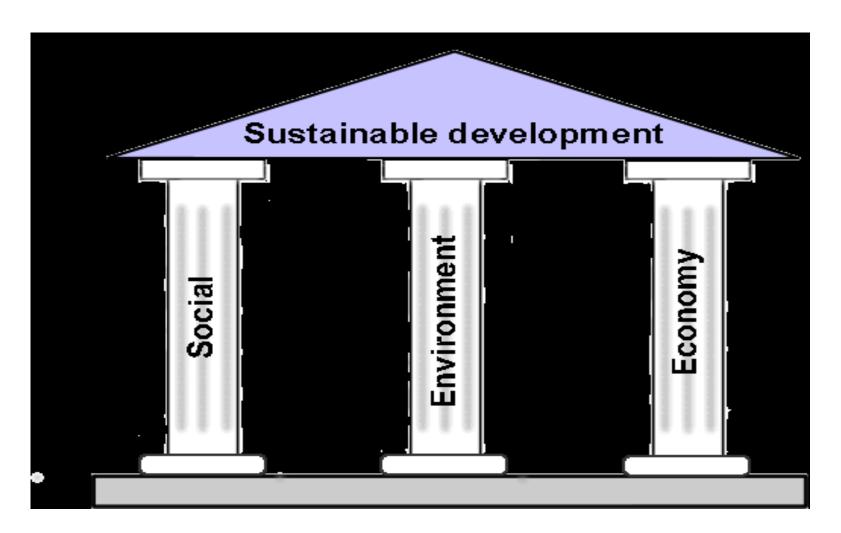


### World Population

- 1960 3 Billion people
- Currently over 7 Billion
- 9 billion people in 2050



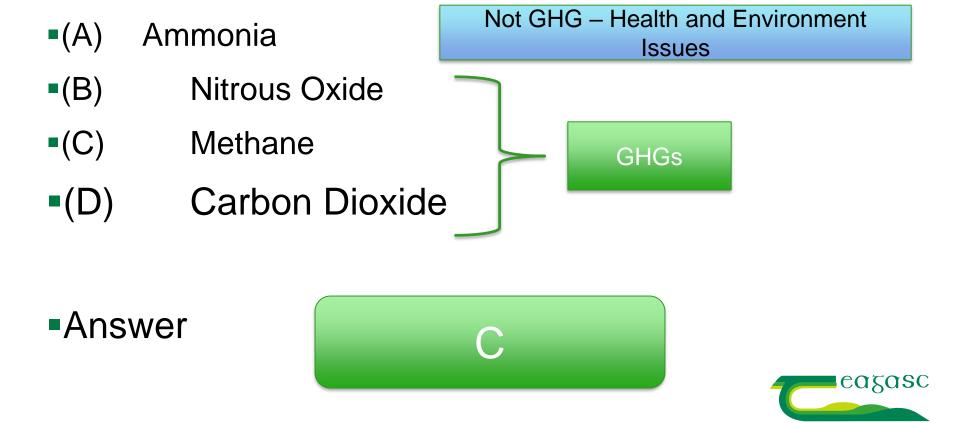
#### 3 pillars of Sustainability





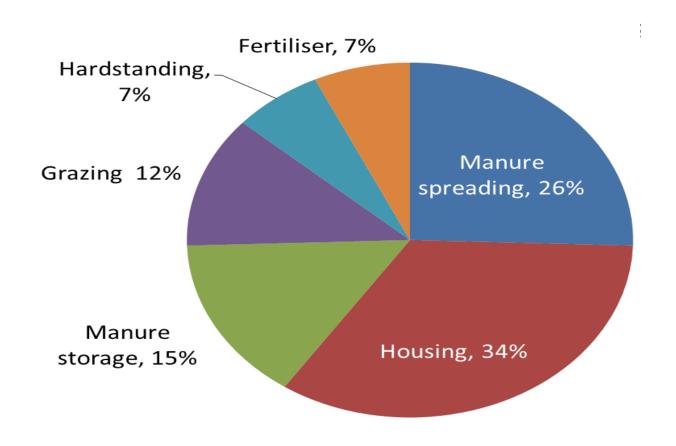
### Who wants to be a millionaire

 Which one of the following gasses contribute most to Irelands Agricultural GHGs



# **Ammonia emissions profile**

#### **Ammonia**





### Challenge

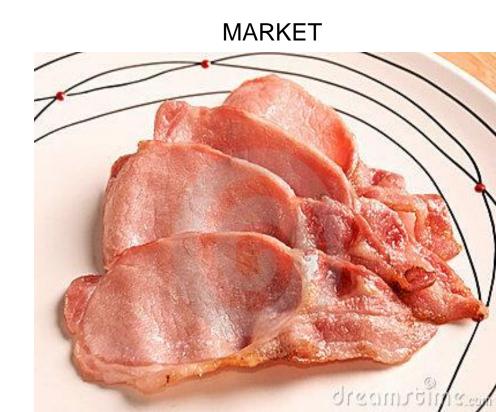
- > Is the pigmeat production chain sustainable?
- > How can we prove this?
- ➤ Is this important in the marketplace?????



## Sustainability of Food Chain

## Farm





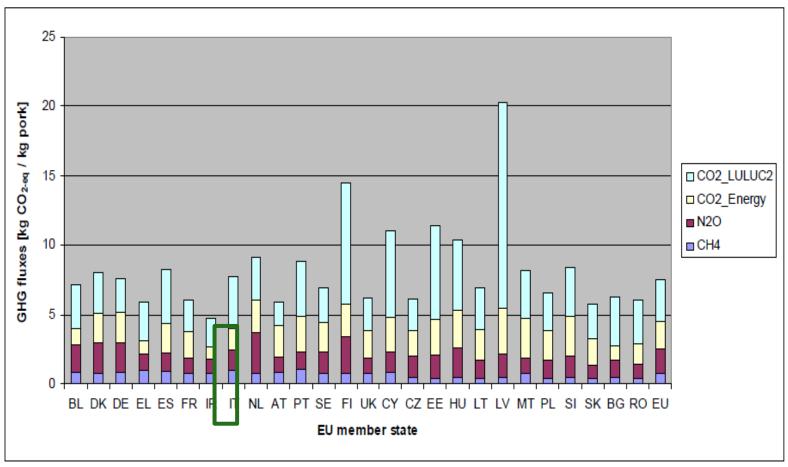


Figure 6.13: Total GHG fluxes of Pork Production in kg CO<sub>2-eq</sub> per kg Pork by EU member states and Greenhouse Gases



#### **Future market access**

- Sustainability will be more of an issue in the future:
- Carbon footprint calculations vary depending on what you include
- Study in 2017 had a GWP of 3.5 kg
  CO<sub>2</sub> eqivalent per kg pigmeat.



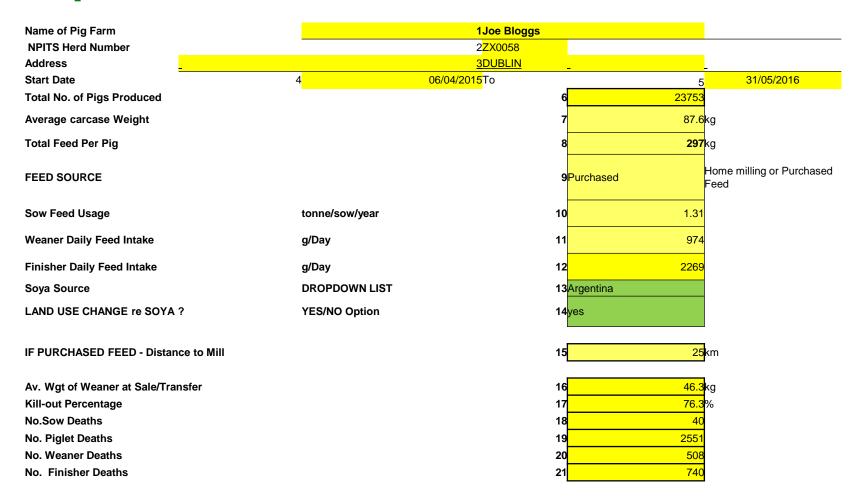
# How can we show the production chain is sustainable?

- The Carbon Trust has independently validated a model on the beef side,
- Teagasc PDD linked with Bord Bia & The Carbon Trust,

 Work was done to develop a C Navigator tool for Irish pigmeat production



### Input items





# **Suggested Report**



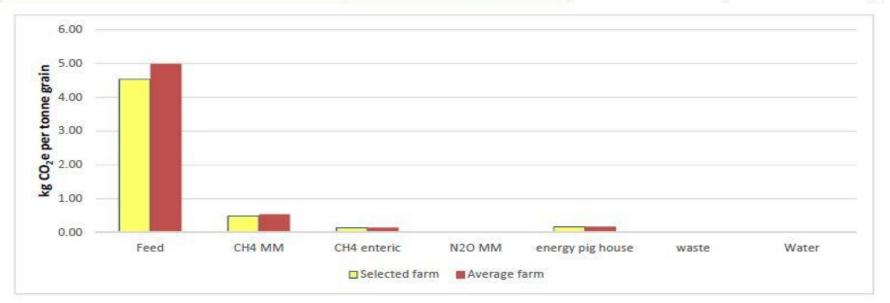
#### Irish Food Board

Farm Name and ID	Joe Bloggs - ZX0058			
NPITS Herd Number	ZX0058			
Date of questionnaire	?-			
Footprinting Year	2015	97		

Visit the second	
Total Number of farms in database	2

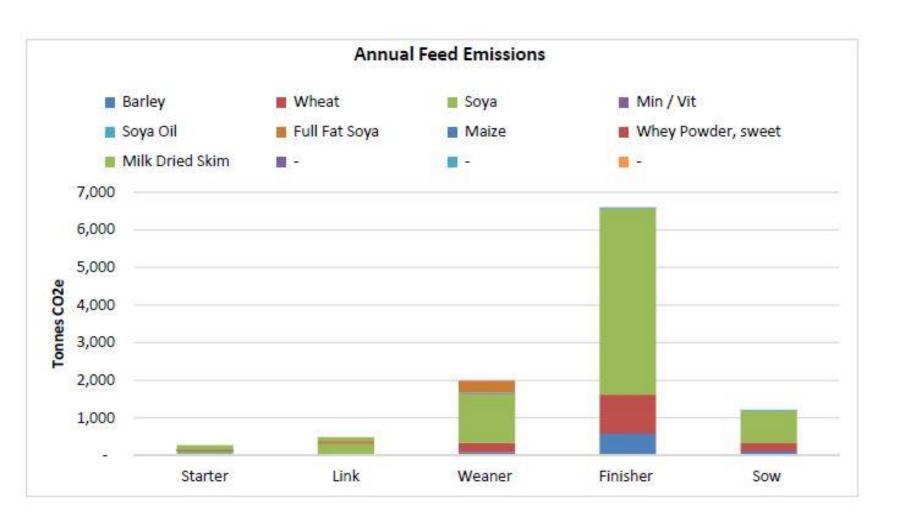
#### **Emissions**

	Selected farm	Average	Ranking
Emissions (kg CO₂e per kg liveweight)	5.36	5.87	Top 25%



## Diet component shown on the

	Selected farm	Average	Ranking
Kg of Feed per Kg of Carcase	3.39 kg	average e.g. 3.5	below average

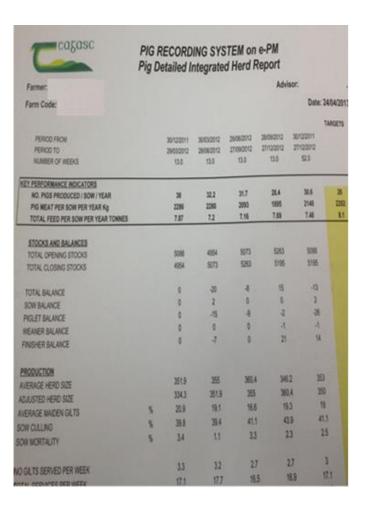


### Why should we do this?

- 1. To help compete in the marketing of pigmeat
- 2. To show the C footprint of pigmeat to consumers
- 3. Demonstrate that efficient production systems are good for the environment



#### 2.5 Tonne Sow – ? Tonne Feed



 Target: to produce 2 tonne pigmeat per sow from 7 tonne feed in 2012

#### In 2021:

- 2,549kg pigmeat per sow
- 8,815kg feed (3.46)



# Pigs produced per sow per year from 2000, 2010 and 2021

YEAR	2000	
Pigs Produced/Sow/Year	21.6	
Average LW at sale kg	90.1	
Average DW at sale kg	68.1	
Kg Pigmeat /sow / year kg	1,471	
Total feed /sow / year	5,385	
Kg of Feed per kg of Pigmeat	3.66	

Source Teagasc Profit Monitor

eagasc

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# Pigs produced per sow per year from 2000, 2010 and 2021

YEAR	2000	2010	
Pigs Produced/Sow/Year	21.6	23.9	
Average LW at sale kg	90.1	103.6	
Average DW at sale kg	68.1	78.9	
Kg Pigmeat /sow / year kg	1,471	1,886	
Total feed /sow / year	5,385	6,966	
Kg of Feed per kg of Pigmeat	3.66	3.69	

Source Teagasc Profit Monitor

eagasc

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# Pigs produced per sow per year from 2000, 2010 and 2021

YEAR	2000	2010	2021
Pigs Produced/Sow/Year	21.6	23.9	28.1
Average LW at sale kg	90.1	103.6	118.4
Average DW at sale kg	68.1	78.9	90.7
Kg Pigmeat /sow / year kg	1,471	1,886	2,549
Total feed /sow / year	5,385	6,966	8,815
Kg of Feed per kg of Pigmeat	3.66	3.69	3.46

Source Teagasc Profit Monitor

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# Thanks for your attention!!

Any Questions???



