

Carbon Footprinting- a taster

- ✓ Why its important
- ✓ Calculate your footprint in easy steps



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SNS, Promoting resource efficiency in the supply chain

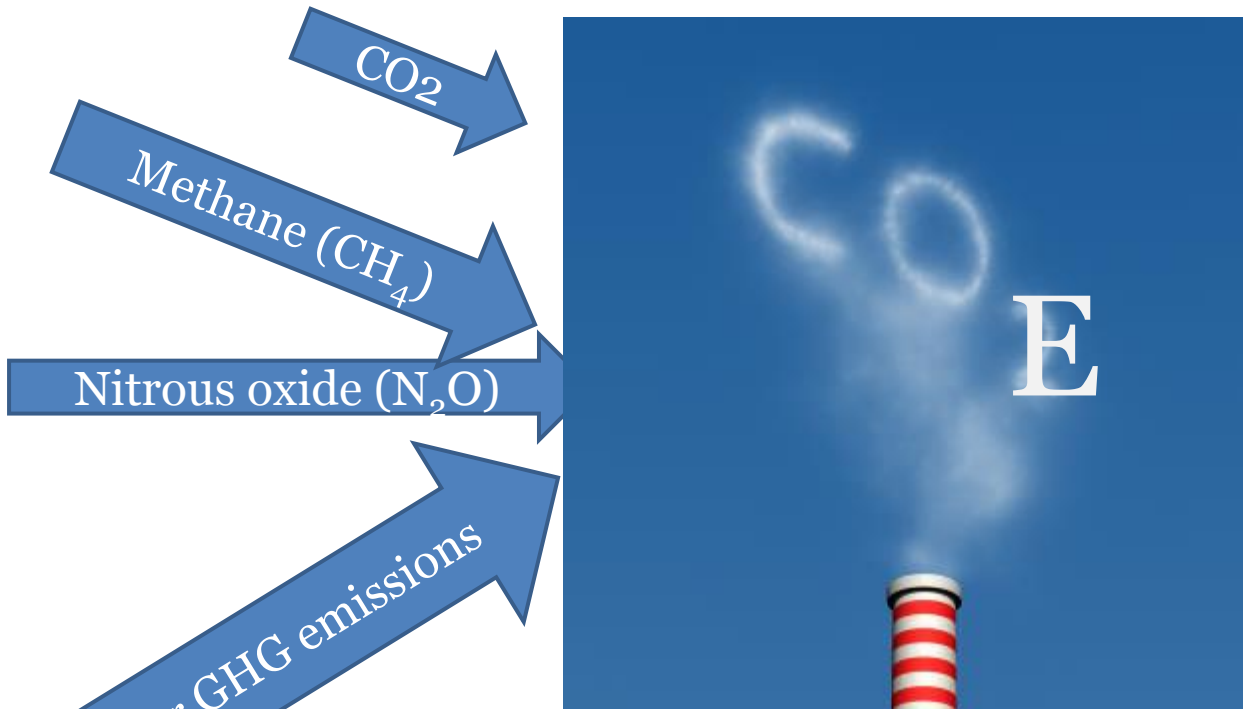
Supply Network Shannon series of seminars and workshops

Theme – Energy Efficiency & Eco-Design

Carbon Footprinting



- Everyone has heard of it, but what exactly is it?



1 tonne
Methane
=
25 Tonnes
Co2E

Carbon Equivalent

a measure of your greenhouse gas emissions

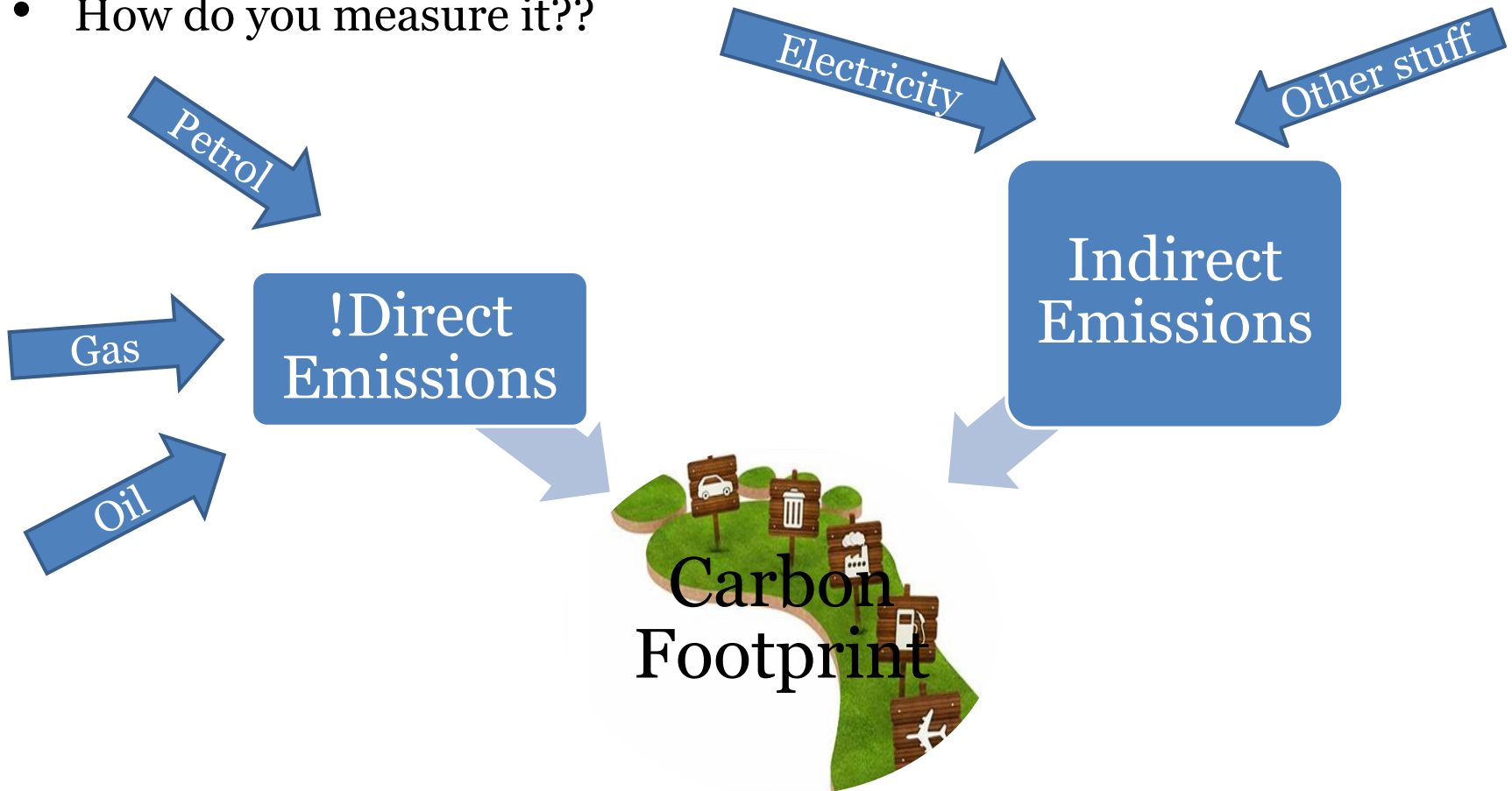


Carbon Foot-printing is important to your business because

- You are concerned about climate change... (not essential)
- You want to find reduction opportunities that may result in cost savings
- You want to gain competitive advantages over your competition
- You want to prove you/your products are green
- You want to be ahead of the game – it may become essential very soon
- Your customers are requesting it!

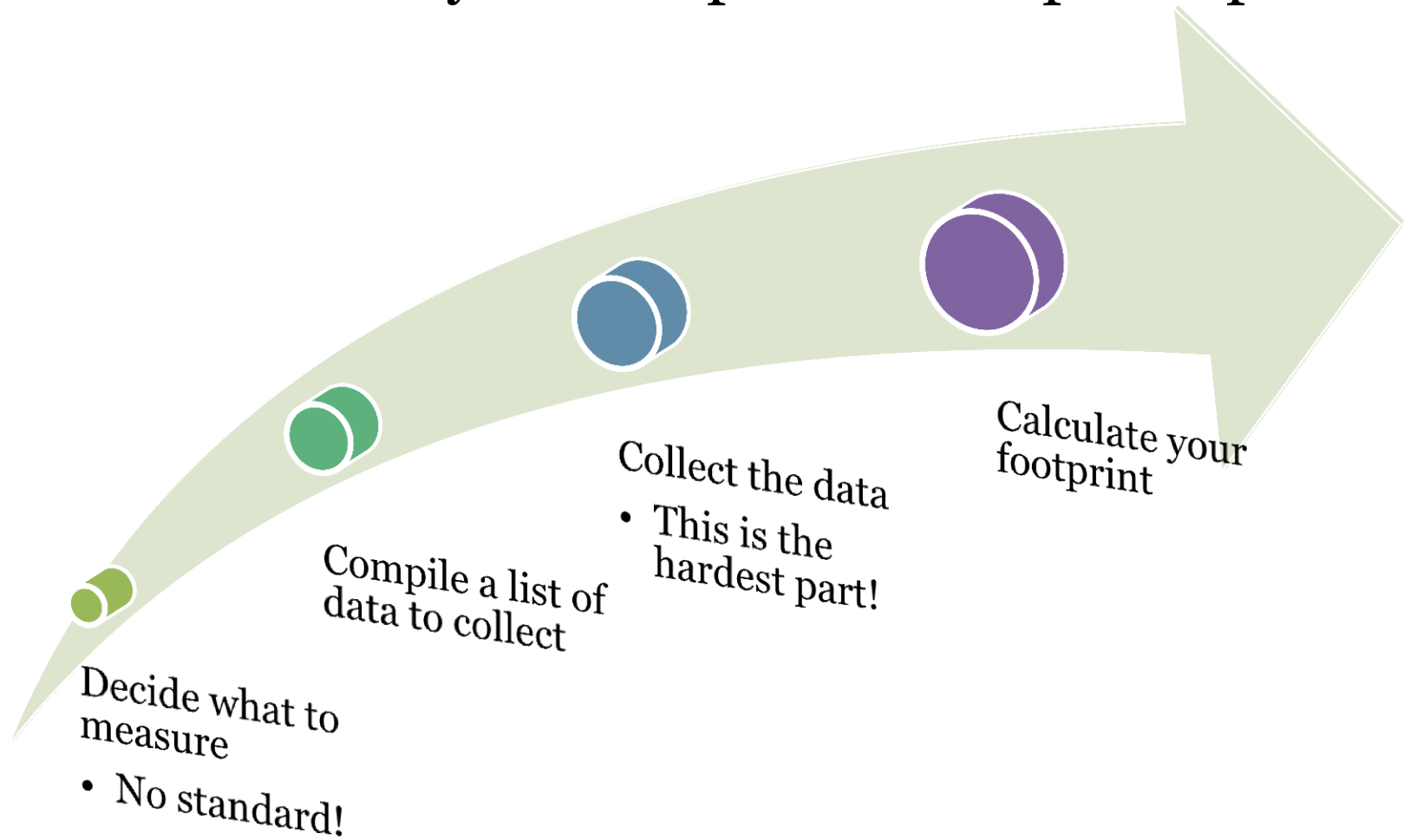
Carbon Footprinting

- How do you measure it??



a measure of your greenhouse gas emissions

How to calculate your footprint in simple steps



Process		Emission					
		CO ₂	CH ₄	N ₂ O	PFC	SF ₆	HFC
Mineral products	Cement Production						
	Lime Production						
	Limestone Use ¹⁰						
	Soda Ash Production and Use						
	Fletton Brick Manufacture ¹¹						
Chemical industry	Ammonia						
	Nitric Acid						
	Adpic Acid						
	Urea						
	Carbides						
	Caprolactam						
	Petrochemicals						
Metal production	Iron, Steel and Ferroalloys						
	Aluminium						
	Magnesium						
	Other Metals						
Energy industry	Coal mining						
	Solid fuel transformation						
	Oil production						
	Gas production and distribution						
	Venting and flaring from oil/gas production						
Other	Production of Halocarbons						
	Use of Halocarbons and SF ₆						
	Organic waste management						

Not covering these today



Appendix

Lots of Free Resources... here are just a few

- Enterprise Ireland/envirocentre [carbon Footprint calculator](#)
- EPA's Carbon Management [Tool](#)
- [Webinar](#) on mandatory carbon reporting in the UK
- Carbon Trust
- FutureSME Carbon Footprint [Calculator](#) and [training](#)
- Defra UK GHG [Conversion Factors](#)
- [Ghgprotocol.org](#) data resources for emissions calculations
- [LCA to Go](#) – EU project to help SMEs

Advanced tools suitable for large companies NOTfree

- Gabi LCA [tool](#)
- SimaPro [tools](#)
- [PEInterational](#)
- [ISO](#) 14040-14044
- EU [Life cycle](#) thinking and assessment

Substance	GWP (CO₂ eq)	Example of source
Carbon dioxide (CO ₂)	1	Burning fossil fuels
Methane (CH ₄)	25	Cattle, landfill sites, leaks from disused mines, burning fossil fuels
Nitrous oxide (N ₂ O)	298	Emissions from fertilised soils, burning fossil fuels
Sulphur hexafluoride (SF ₆)	22800	Leaks from electrical and electronics industry
Perfluorocarbons (PFCs)	7390-17700	Electronics industry, fire extinguishers
Hydrofluorocarbons (HFCs)	124-14800	Leaks from air conditioning and refrigeration systems. LPG storage

Carbon Footprint Calculations.. Workshop

- Draw your boundary – what you are going to measure
- Fill in you data for each activity relevant to you
 - Scope 1
 - Scope 2
 - Scope 3
- Calculate using conversion factors on sheet
- Roughly work out where highest emissions are coming from
- Look for reduction opportunities

You will need a calculator!!



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DEAR TOMMY,
NORMALLY I'D LEAVE A LUMP
OF COAL, BUT I'M REDUCING
MY CARBON FOOTPRINT.

SANTA

