



Agriculture activities with climate and sustainable development benefits: the New Zealand livestock experience

Dr Victoria Hatton

10 May 2017

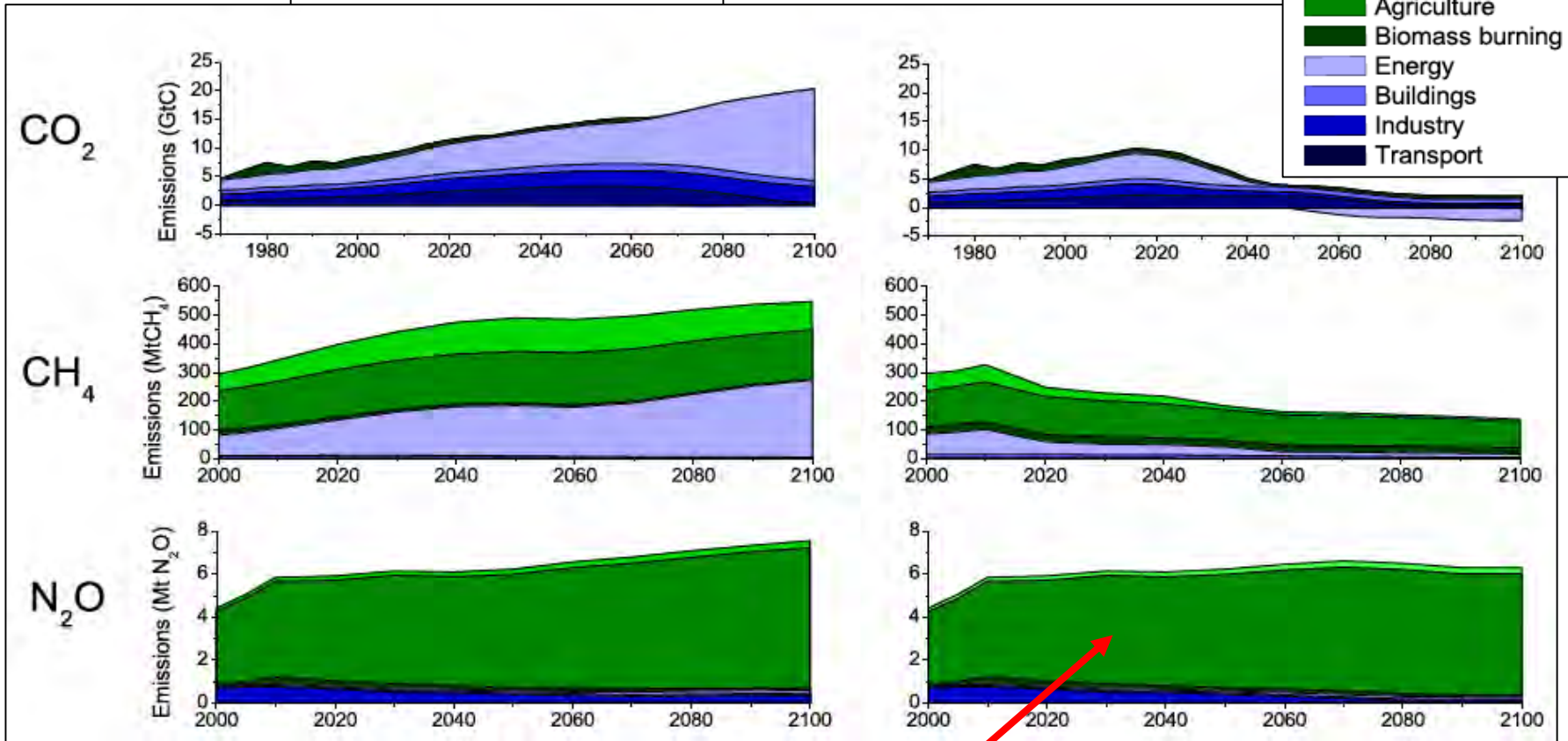
Growing and Protecting New Zealand



New Zealand has shared global challenge

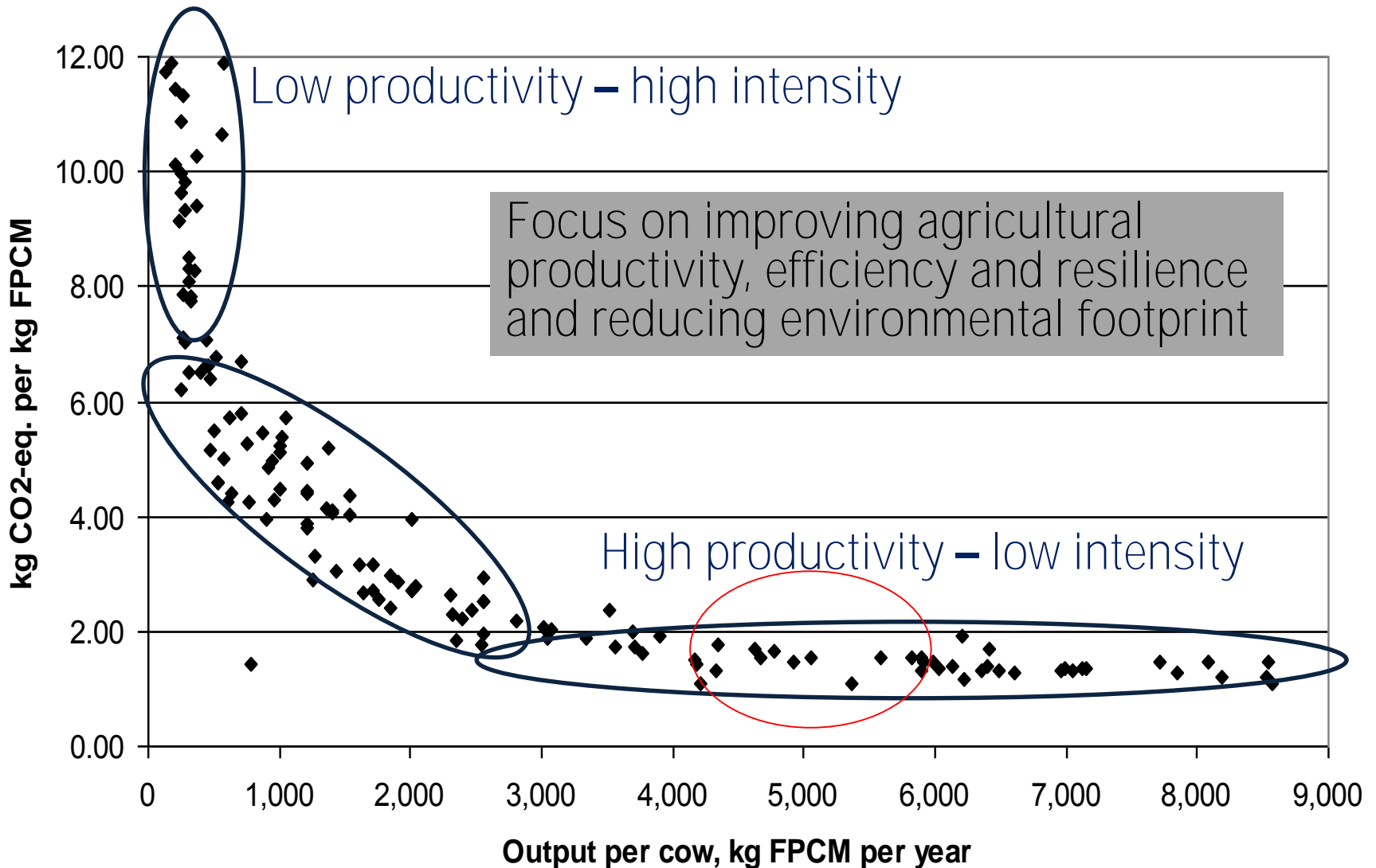
Global baseline emissions

Global agriculture emissions under the 2°C scenario



van Vuuren et al. 2011

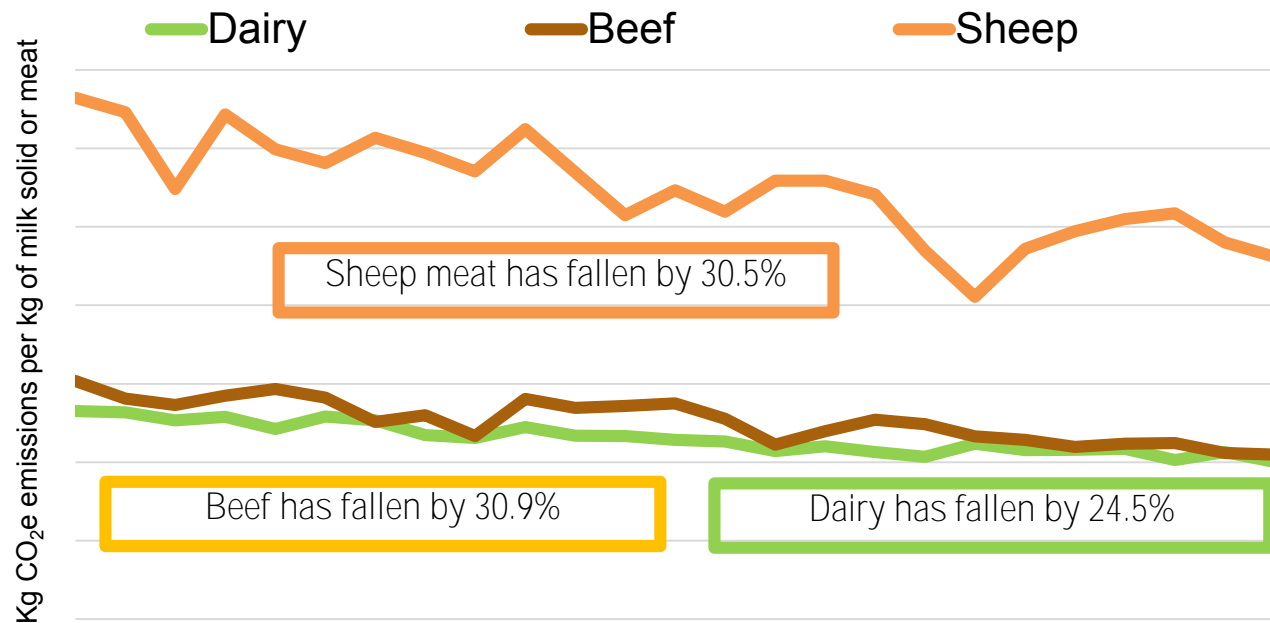
New Zealand at a glance



How is New Zealand balancing the demands?

1. DEFC Sustainable Dairy Water Accord

Emissions Intensity by Livestock Category 1990-2014



- 2.
- 3.
- 4.
- Fencing waterways, 90% of rivers dairy cattle free
 - Tools - OVERSEER

International Initiatives

1. Global Research Alliance
2. Climate and Clean Air Coalition
3. NDC Partnership
4. UNFCCC negotiations



Results?

	Unit	1990	2012
Lambing	%	95	121
Lamb carcass weight	kg	13.7	18.7
Milk solids per cow	kg	256	364
Cows per hectare	# / ha	2.4	2.8
Milk solids / hectare	kg / ha	614	1019
Steer weight	kg	282	314
Heifer weight	kg	204	242
Urea	tonnes	19,000	501,000
PKE	tonnes	0	1.3 million