

Mitigation in the Land Sector: Challenges and choices

Andy Reisinger, Deputy Director, NZAGRC E-Mission Possible Roundtable, 8 December 2017



How big's the problem? How might we choose to respond? How could we get there?

Providing knowledge, technologies & practices to grow agriculture's ability to create wealth for New Zealand in a carbon-constrained world

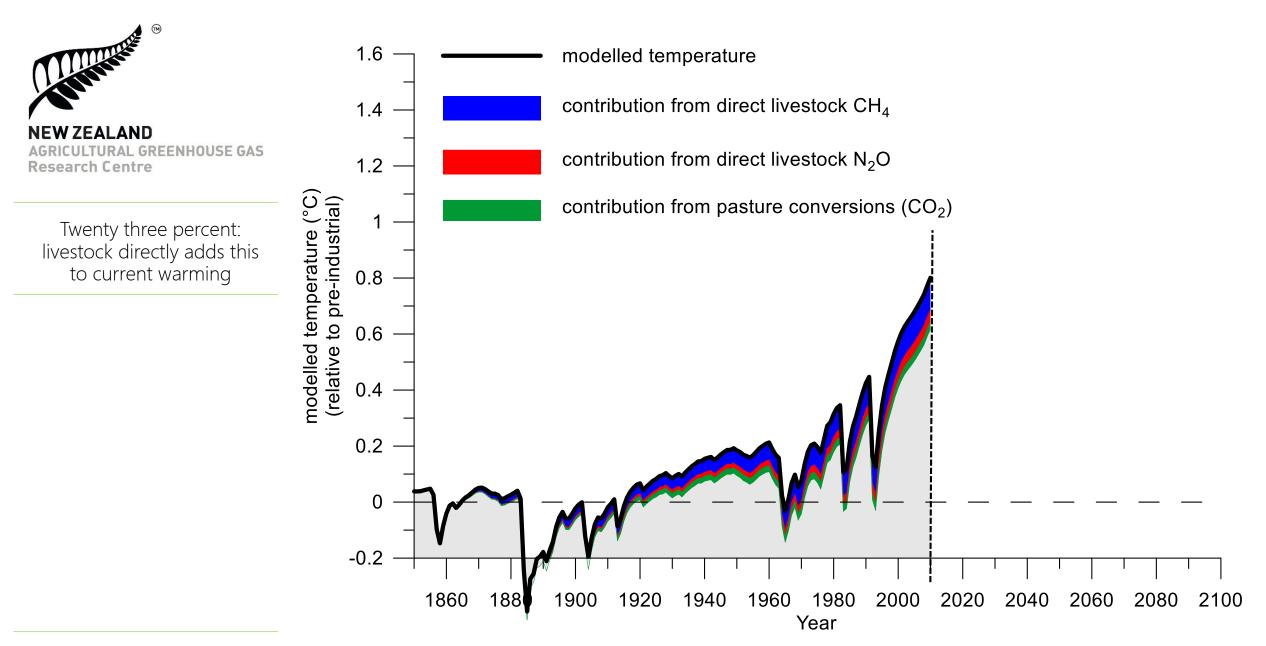


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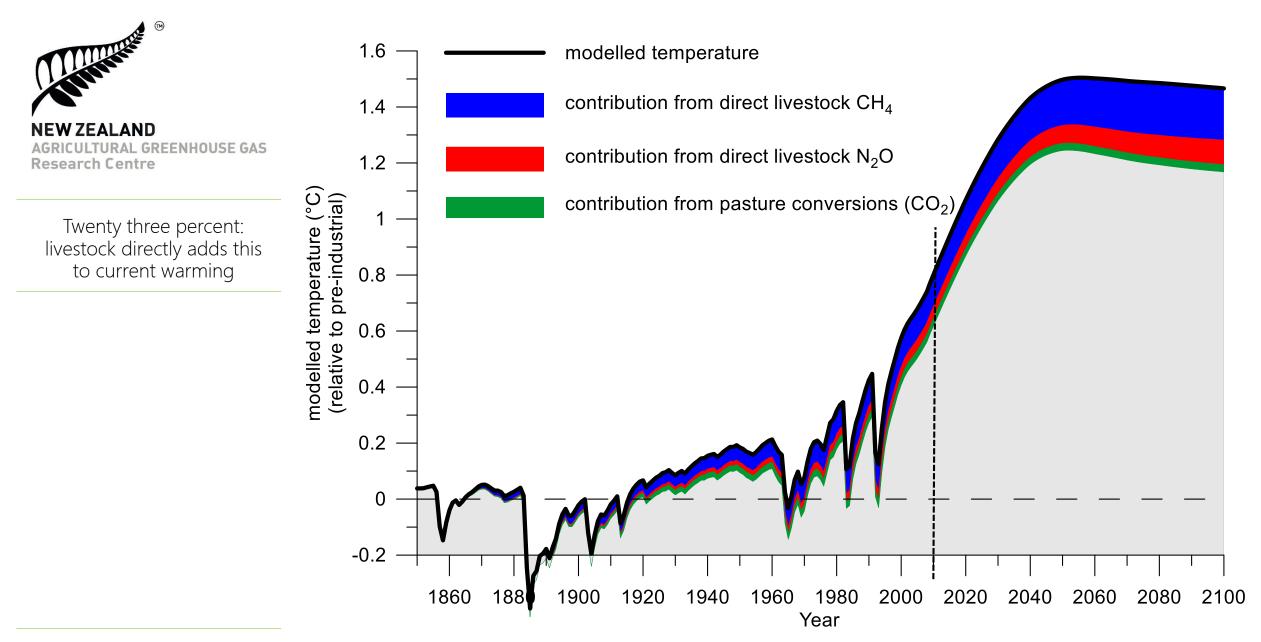
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Twenty three percent: livestock directly adds this to current warming

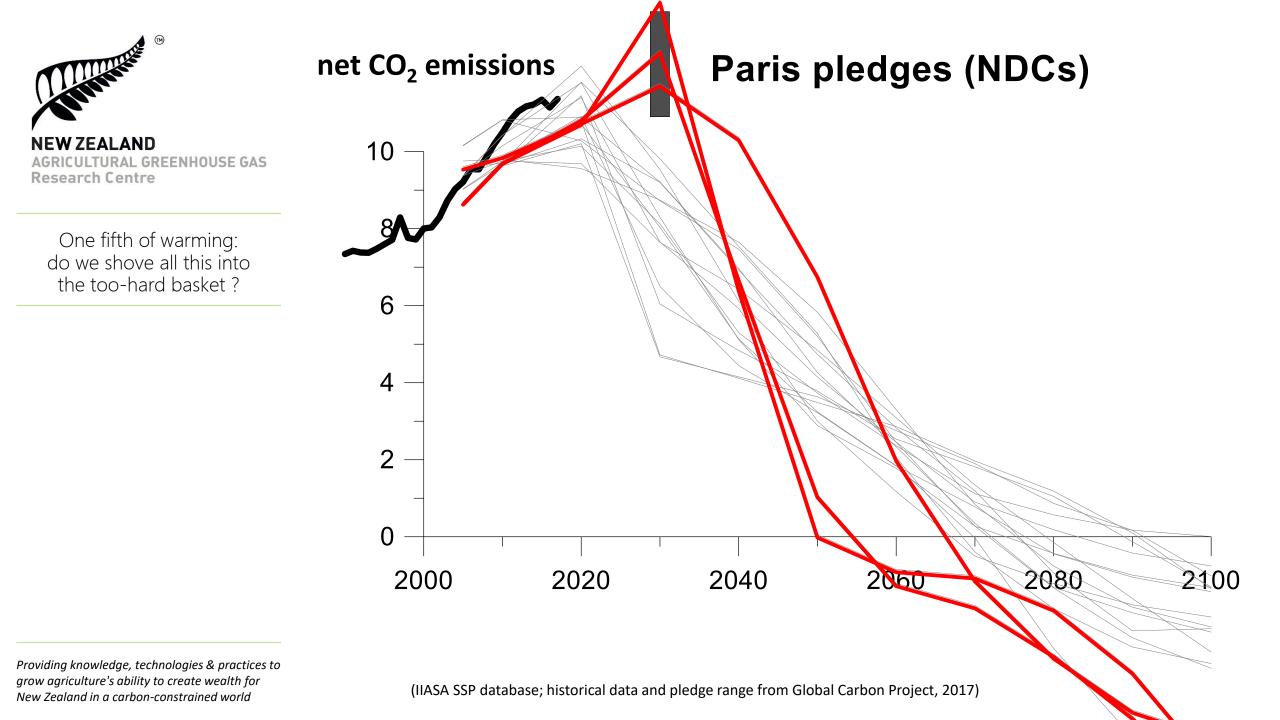


(Reisinger & Clark, 2017)





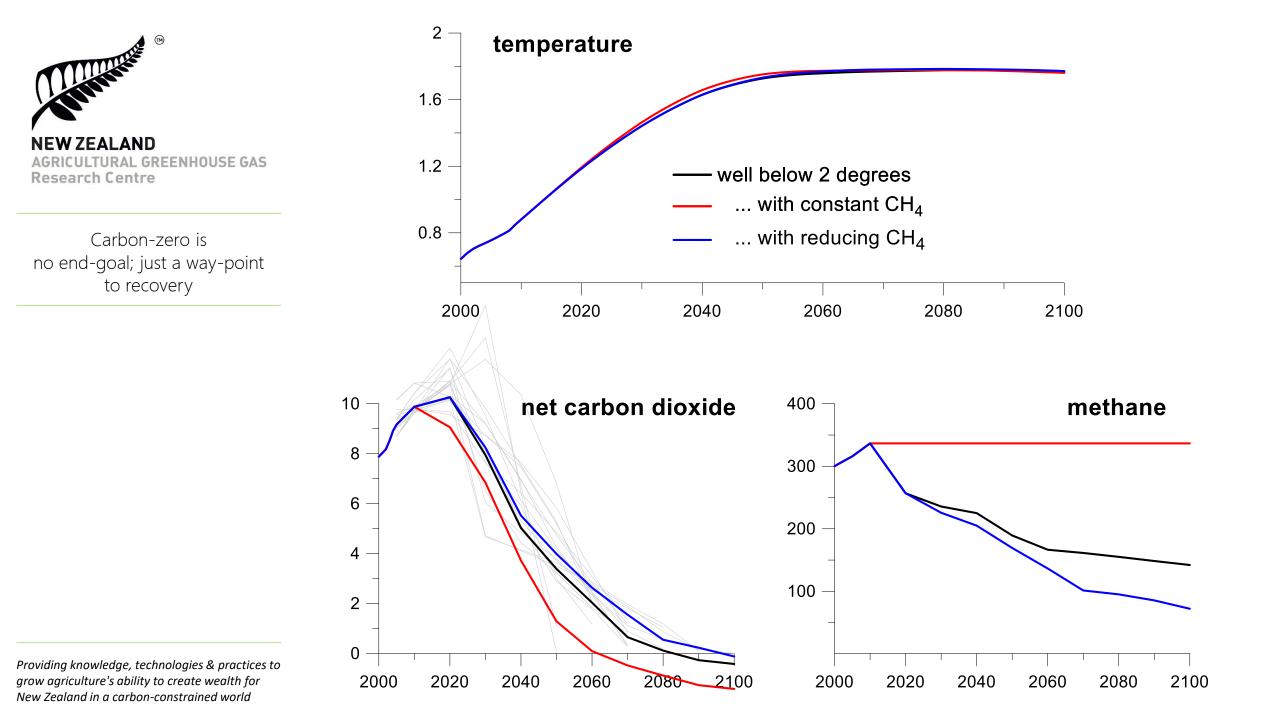
One fifth of warming: do we shove all this into the too-hard basket ?





Carbon-zero is

no end-goal; just a way-point to recovery





Reducing methane and removing CO₂: the same for climate



1) How big's the problem?

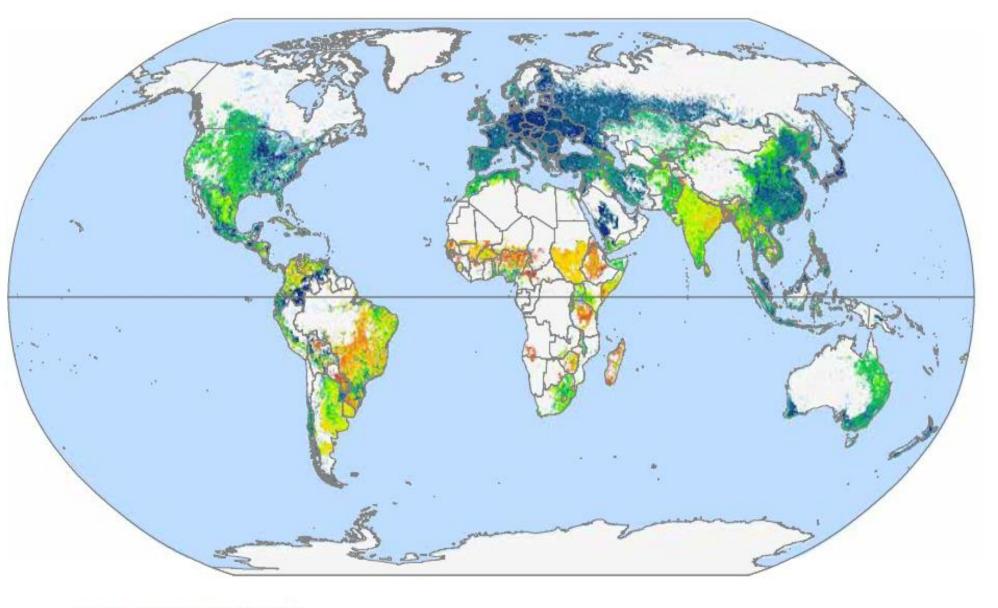
2) How might we choose to respond?3) How could we get there?



People need to eat, we grow food efficiently, is there a problem ?



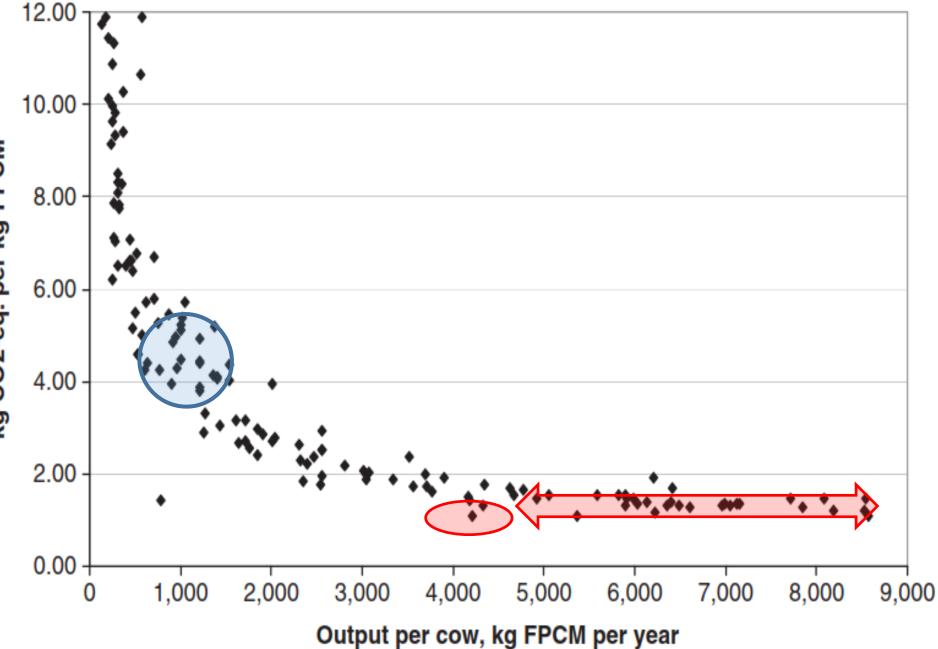
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Kg of CO, equivalent per kg of edible protein









If you contribute to a problem, but could change: why keep doing it ?



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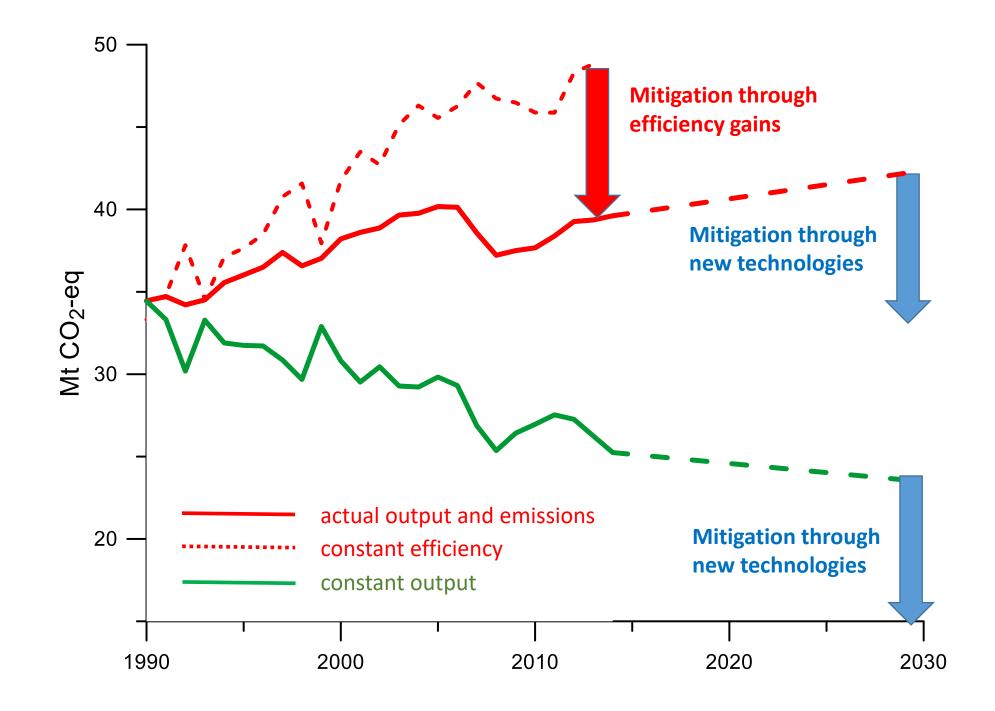


Productivity New Technology / Practice Output / Land-use change



1) Productivity

- 2) New Technology / Practice
- 3) Output / Land-use change





All change is painful without shared reasons or goals. Talk, listen, decide.



Thank you !

The NZAGRC is a partnership of nine New Zealand organisations,

dedicated to providing knowledge, technologies and practices to grow agriculture's ability to create wealth for New Zealand in a carbon-constrained world



Disclaimer: any views expressed in this presentation are my own and not necessarily those of NZAGRC partners individually nor collectively

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