

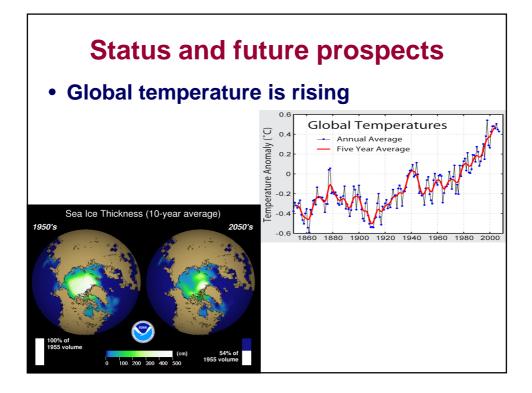


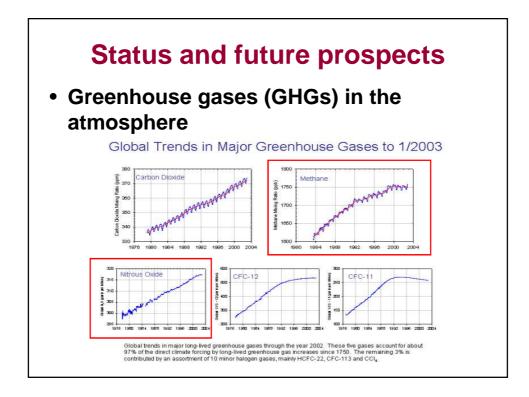
Greenhouse gas emissions from ruminant production – mitigation strategies

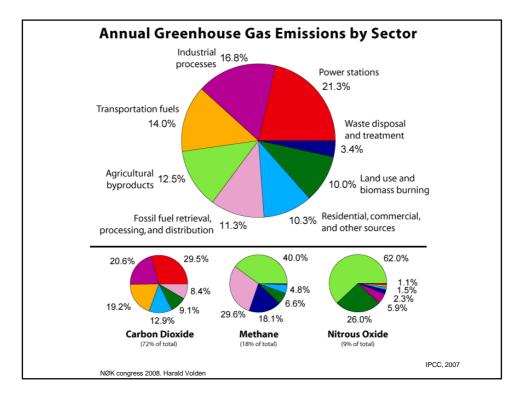
NØK congress 2008

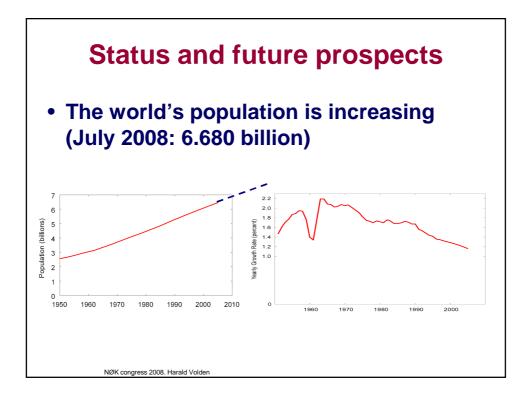
Harald Volden^{1,2} ¹TINE Rådgiving ²Norwegian University of Life Sciences

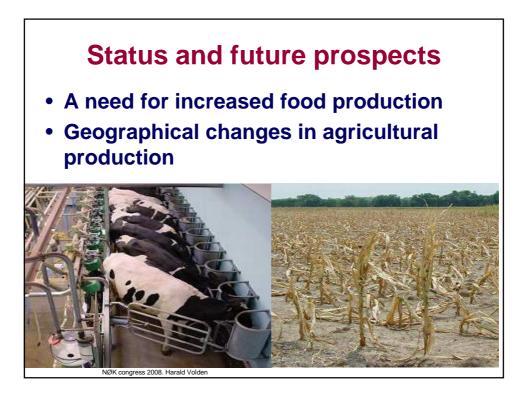
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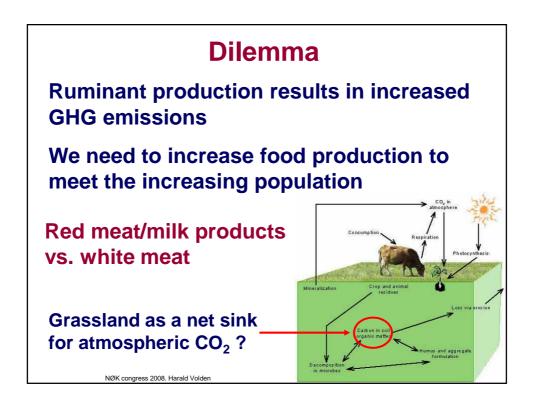


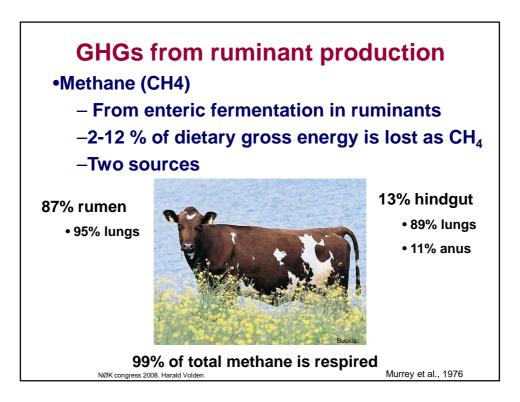






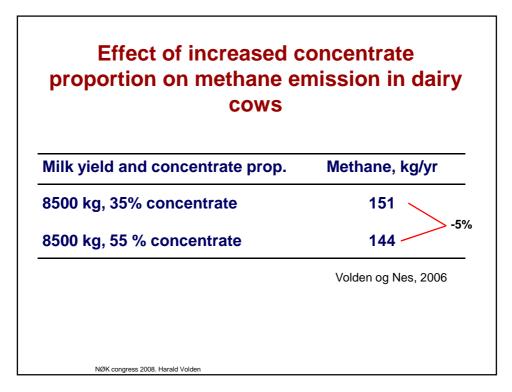


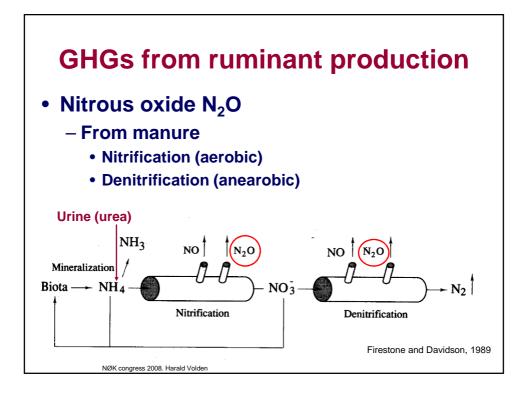




Estimated reduction potentials of targeted CH4 abatement strategies from animal agriculture (modified from Boadi et al, 2005; Beauchemin et al., 2008)

Strategy	Reduction potentials, %
Increased dietary concentrate level	25
Increased dietary fat level	25-30
Increased forage and pasture digestibility	20-25
Increased proportion of maize silage in grass silage based diets	15 ?
Improved animal productivity	25-30
Ionophore supplementation (e.g. monensin)	11-30
Protozoa inhibitors (in vitro)	20
Plant secondary compounds (e.g., condensed tannins and saponins (in vitro)	2-12
Animal breeding/increased feed efficiency	21
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abatement strategies from animal agriculture (modified after de Klein and Eckard, 2008)		
Reduction potentials, %		
N ₂ O	Urinary N	
	\frown	
	(10-45)	
5-10	\bigcirc	
	9-59	
30-60		
	3	
2-13		
(50)		
7-11		
57-59		
	Eckard, 2008) <u>Reduction</u> N ₂ O 5-10 30-60 2-13 50 7-11	

