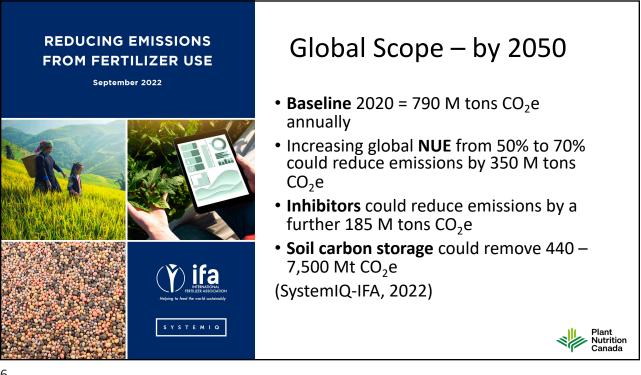
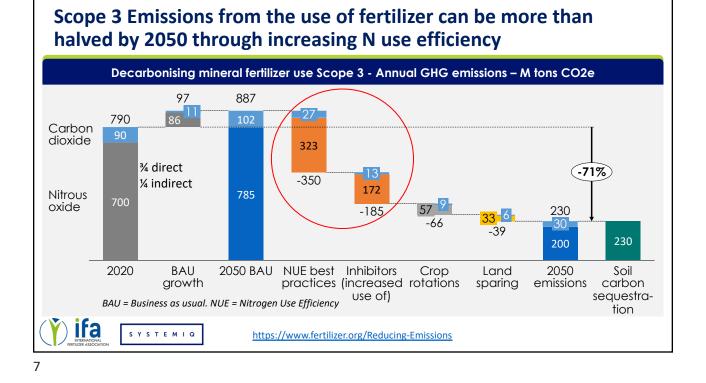
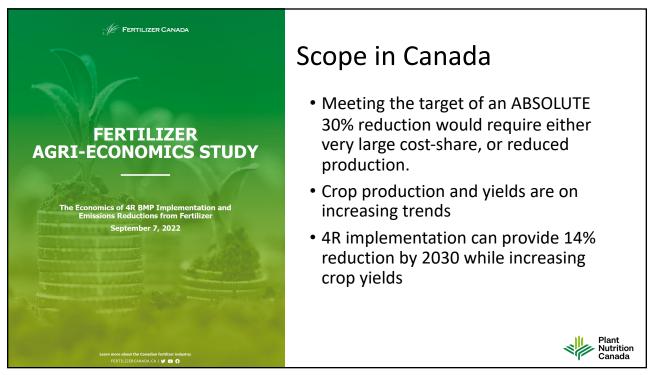
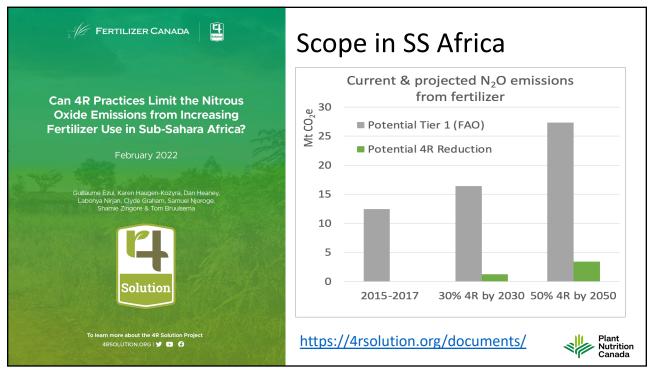


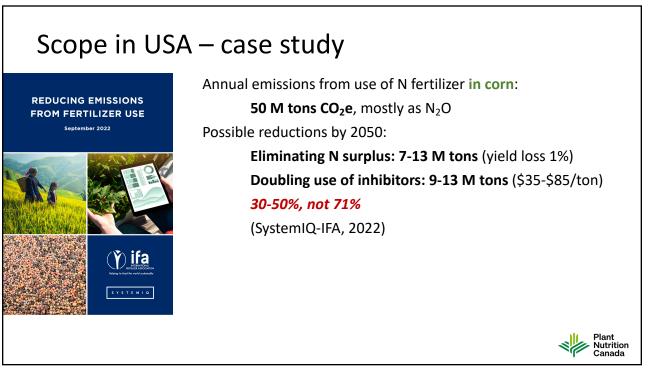
Current (2019-2020) GHG emissions, M tons CO <sub>2</sub> e			
	World	USA	Canada
Total GHG emissions	65,000±7,300	7,300	740
Total N <sub>2</sub> O emissions	3,000±1,800	485	44
N <sub>2</sub> O from agriculture	2,000±1,200	385	26
N <sub>2</sub> O from fertilizer use	700	91	13
Fertilizer N use, M tons	122	13	3

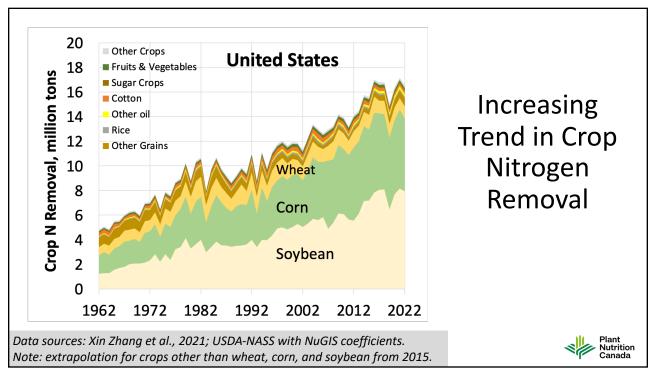




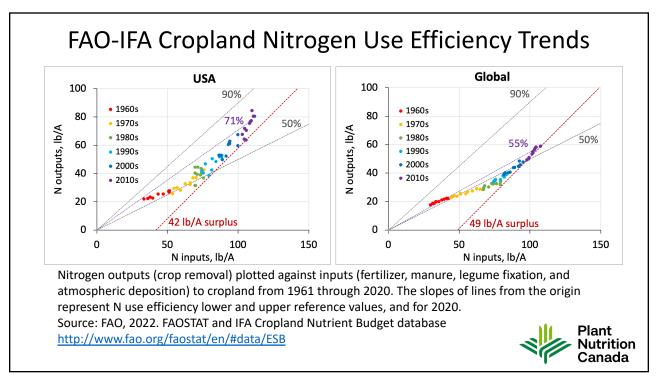


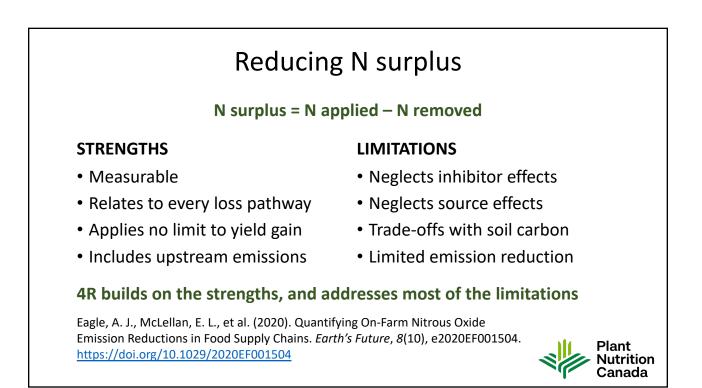


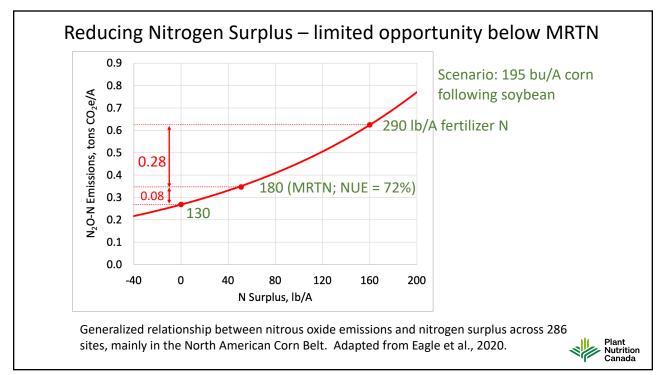


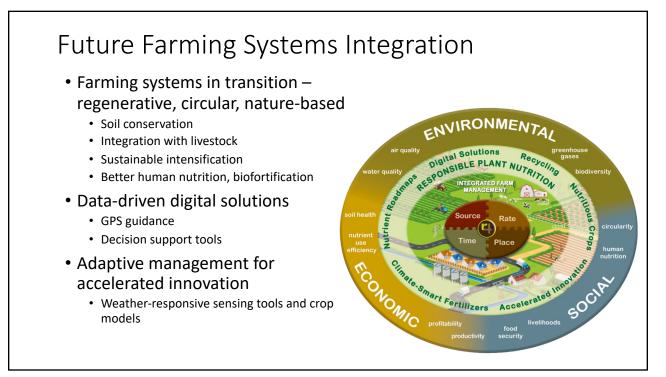








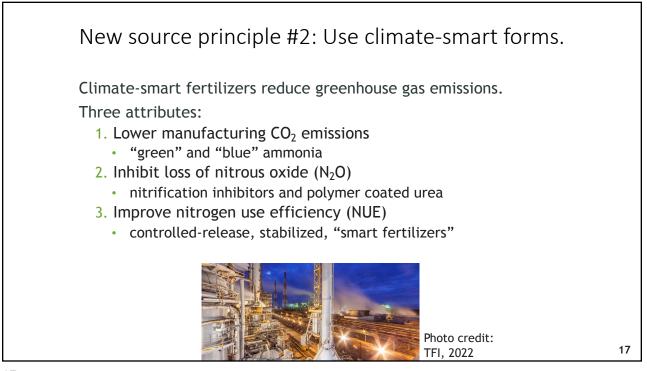


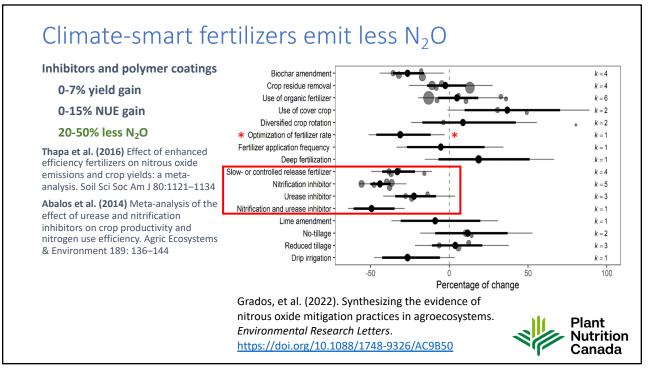




## Core principles for Right Source

- 1. [new] Supply nutrients in quantifiable and available forms.
- 2. [new] Use climate-smart forms.
- 3. [new] Use recycled forms where feasible.
- 4. [new] Consider biological inoculants.
- 5. [original] Suit soil physical and chemical properties.
- 6. [original] Recognize synergisms among nutrient elements and sources.
- 7. [original] Recognize blend compatibility of materials.
- 8. [original] Recognize benefits and sensitivities to associated elements.
- 9. [original] Control effects of non-nutritive elements.





## New Core Principles

RIGHT RATE: Address variability in crop response RIGHT TIME: Address changes through the growing season RIGHT PLACE: Place nutrients to avoid loss

