

Food, fuel and fiber for billion while maintaining the planet



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Ethanol Summit '11

Population X Consumption ≠ The Planet





Global Food 8,000 years = 40 years

more from less, and then less again

intensify agriculture, sustainably

double productivity for each input

And, we need to shift our thinking from maximizing any one variable (e.g. carbon)

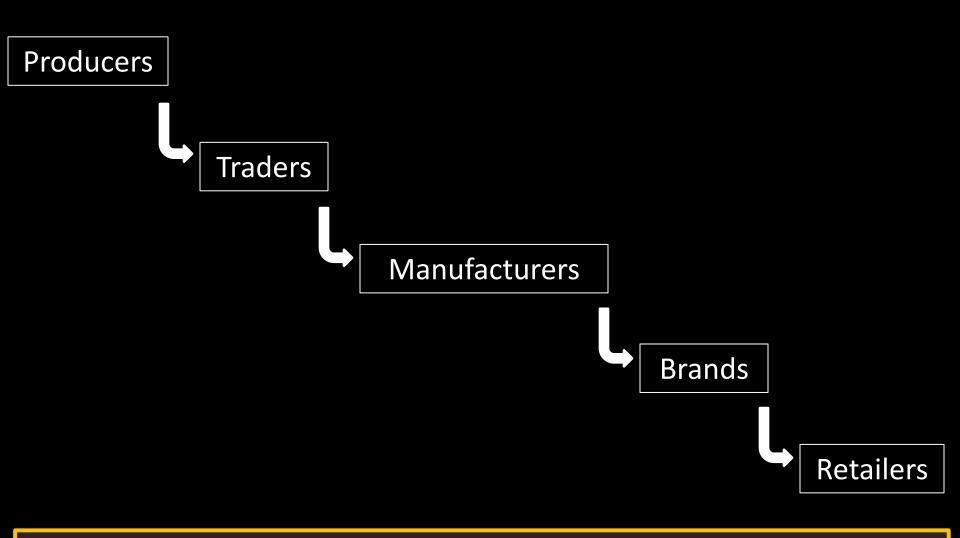
to optimizing several key ones

Should consumers have a choice about sustainable products?

Or, should they pay the real costs?

On a finite planet, it's a B2B issue

sustainability = availability



1. The Consumer Goods Forum— Retailers & brands taking deforestation out of supply chains

The Consumer Goods Forum

The goal: take deforestation out of supply chains by 2020

















METRO Group

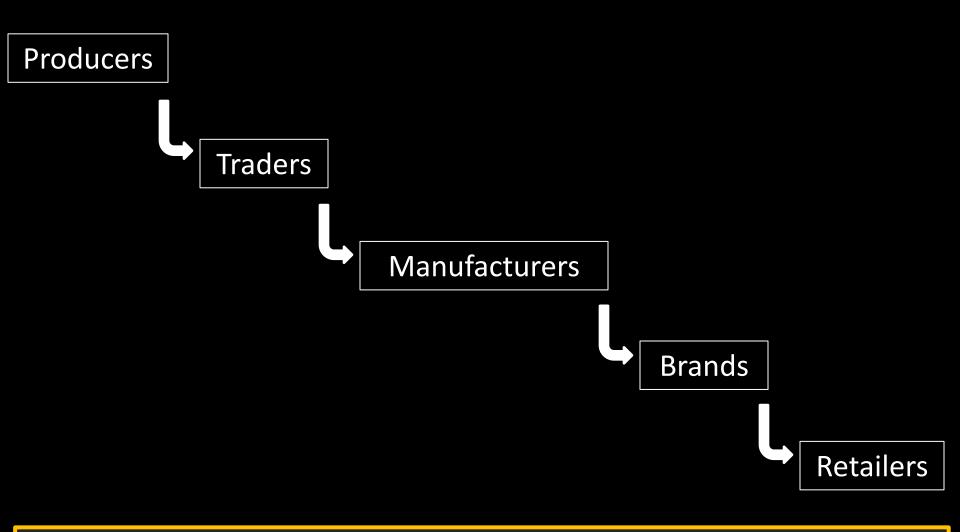












2. UNICA and Ethanol— Producers & millers bringing carbon into supply chains

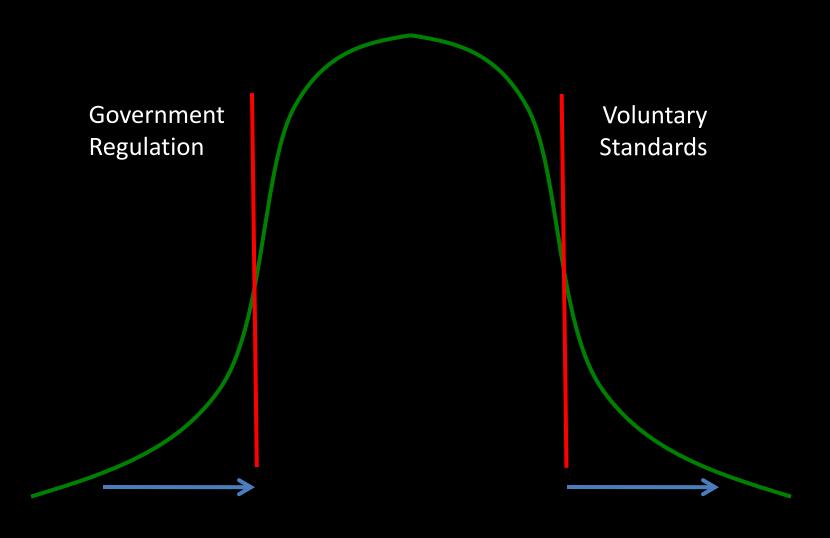
Grams of CO2e/kWh energy by energy source

Sugarcane	39
Anthracite coal	840
Lignite/brown coal	940
Natural gas	370
Crude oil & kerosene	640
Gas/diesel oil	670

Ogorzalek and Quirk (2011) adapted from Rein (2010)

What about sugar, ethanol and bioplastics?

Performance Curve





Who will manage the planet?