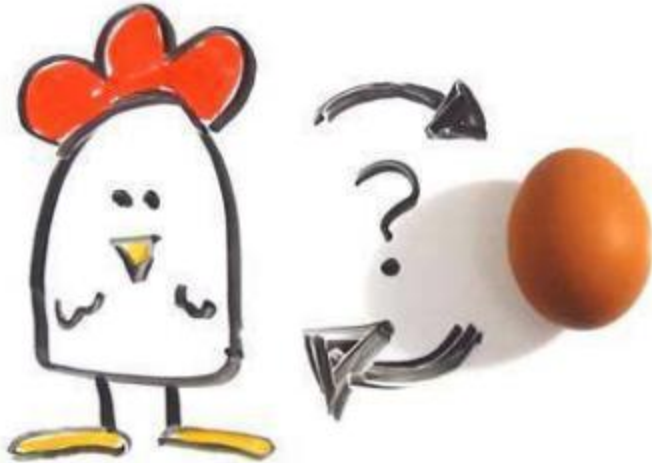


*What comes first?
Conversion or Purpose Grown Feedstock ?*

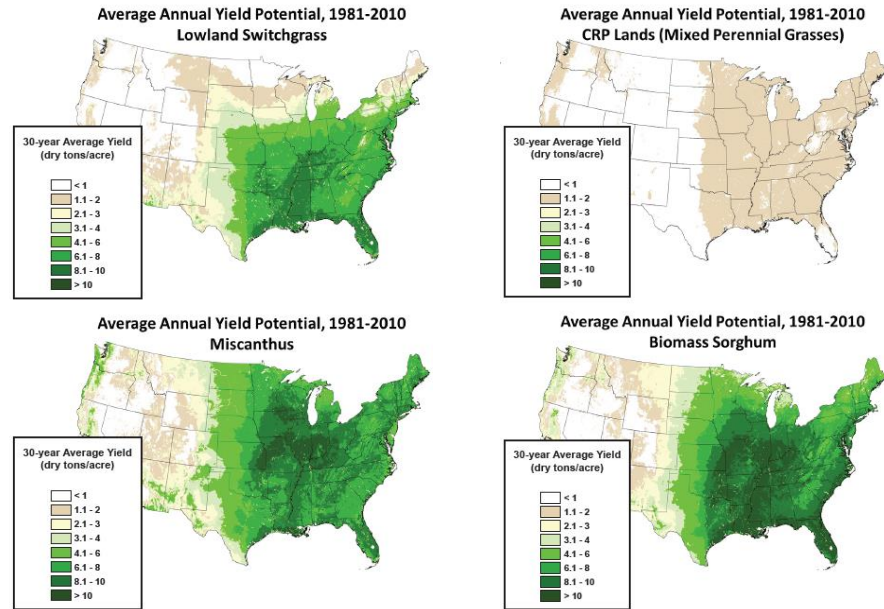


Who will Invest First, The Feedstock
Grower or the Converter?

Zia Abdullah

June 6, 2023

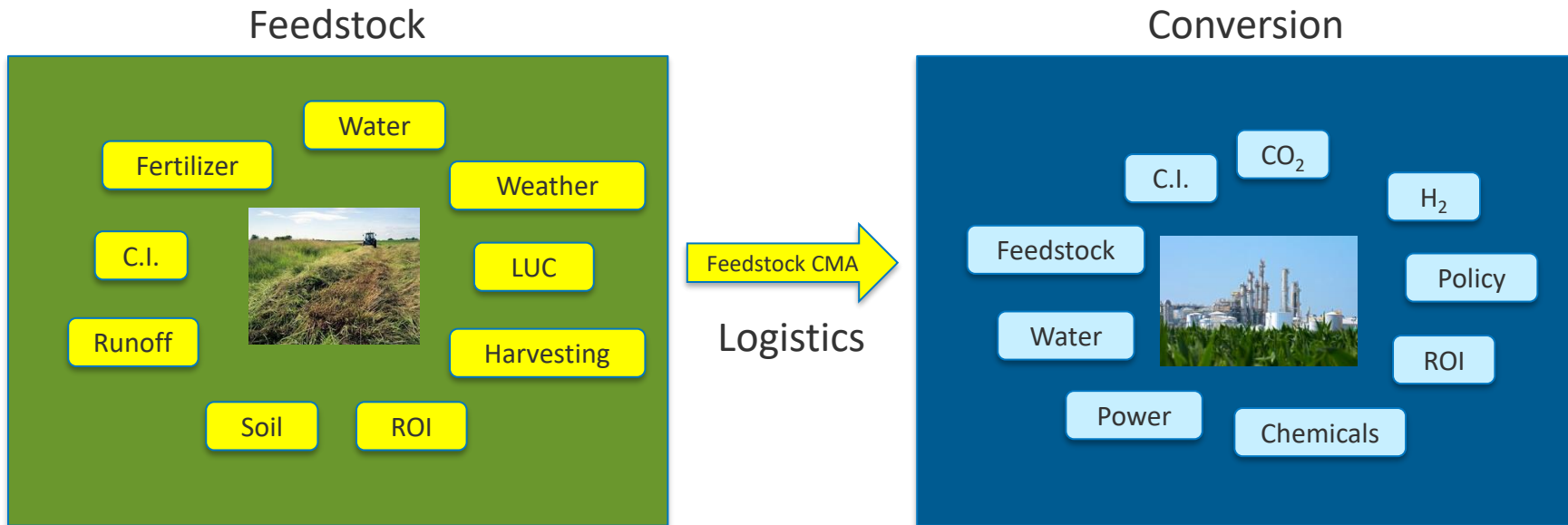
Although The US Has The Flexibility To Grow A Broad Variety of Biomass, There Is No Incentive to Grow It Without Conversion Facilities



US DOE, Sun Grant Initiative. Regional Feedstock Partnership Report – Enabling the Billion Ton vision, July 2016.

But Investors Will Not Build a Conversion Facility Without a Feedstock Supply Agreement!

The Decisions to Grow Feedstock, and to Choose Which Feedstock To Grow May Depend On Co-Consideration With Conversion



The Choice of Feedstock and Conversion May Be Function of Location

There is a Need For Objective Methodologies To Determine Feedstocks, Conversion Technologies and Compelling Business Models

- Purpose grown feedstock and conversion must be considered together
- Fuels and chemicals production requires multiple other inputs in addition to biomass
- What would incentivize growers to grow, and investors to invest in conversion facilities?
- How can we determine 'optimum' business models for the grower and the convertor?
 - What do we optimize?

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