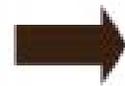




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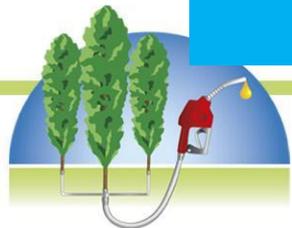
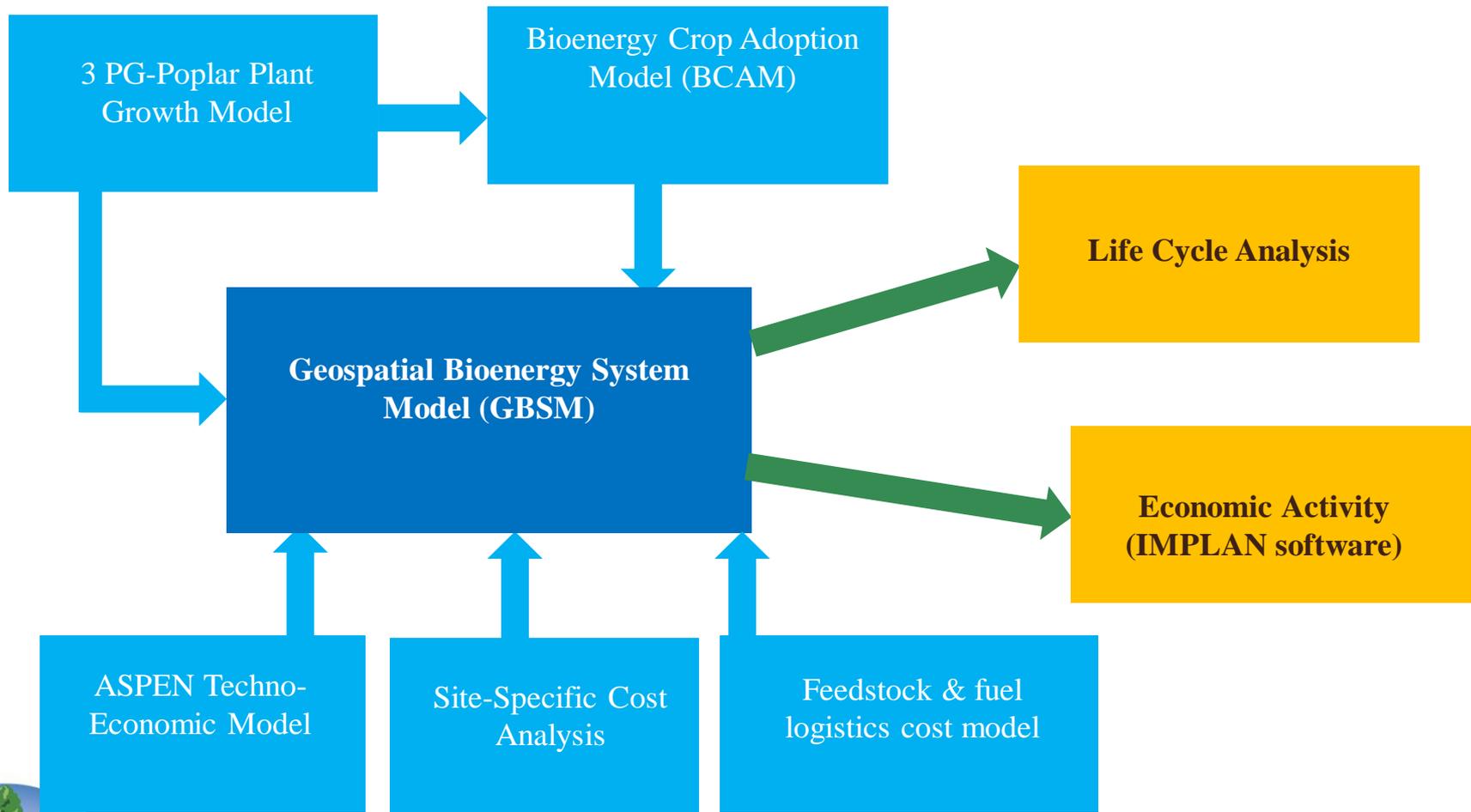
Feedstock Conversion Sustainability Education Extension



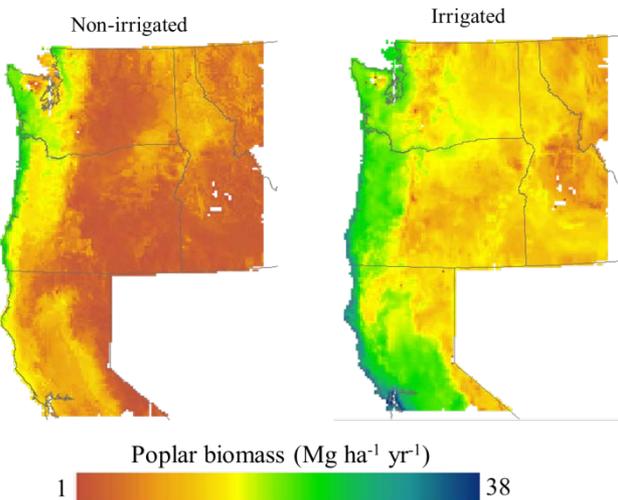
United States Department of Agriculture

National Institute of Food and Agriculture

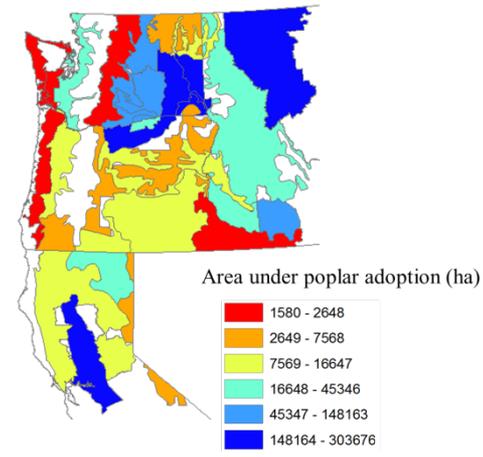
Integrated Bioenergy Sustainability Assessment and Modeling (IBSAM) Framework



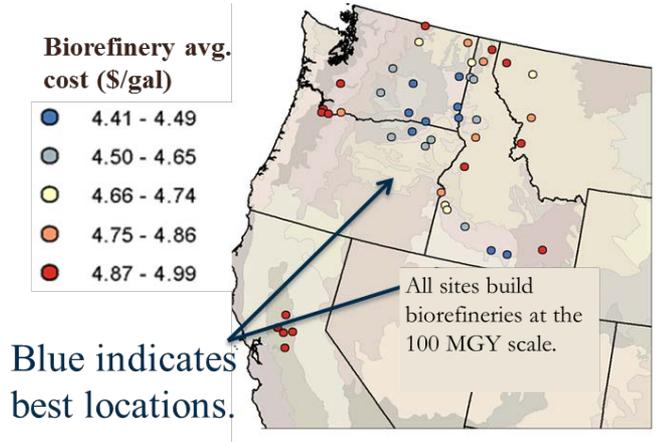
Some Key Results



Poplar biomass estimates

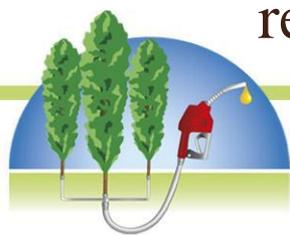


Poplar adoption at \$72/Mg biomass



Locations and average costs for biorefineries that can produce jet fuel for less than \$5/gallon

Integration of spatially differentiated poplar yields and update to the crop adoption model will lead toward more precise recommendations.



Ongoing Activities - Future Plans

- Incorporate spatial variation of poplar yield through updated BCAM runs in GBSM.
- Analyze alternate feedstock logistics systems. We will consider just-in-time harvest, satellite storage, and preprocessing at depots.
- Planning to upscale field scale results on environmental impacts to regional scale by configuring biogeochemical models.

