

# ***CONNECTING INTEGRATED LANDSCAPE MANAGEMENT WITH BIOMASS FEEDSTOCK LOGISTICS***

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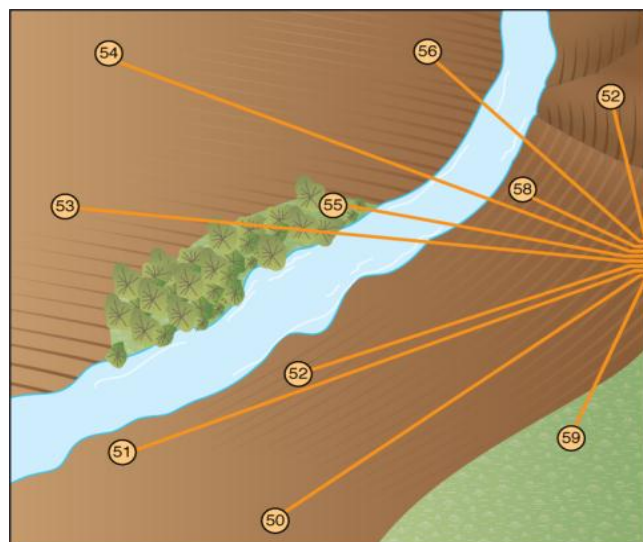
<sup>1</sup>Idaho National Laboratory, U.S. Dept. of Energy



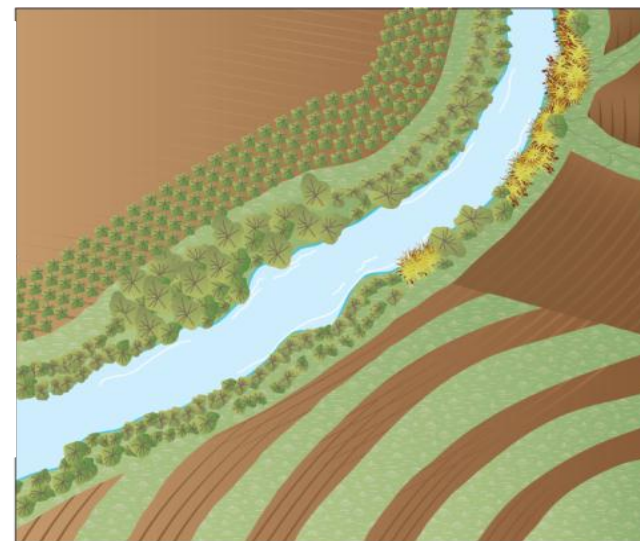
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# Integrated Landscape Decision Making



Integrated  
Landscape  
Management



10-GA50663-02

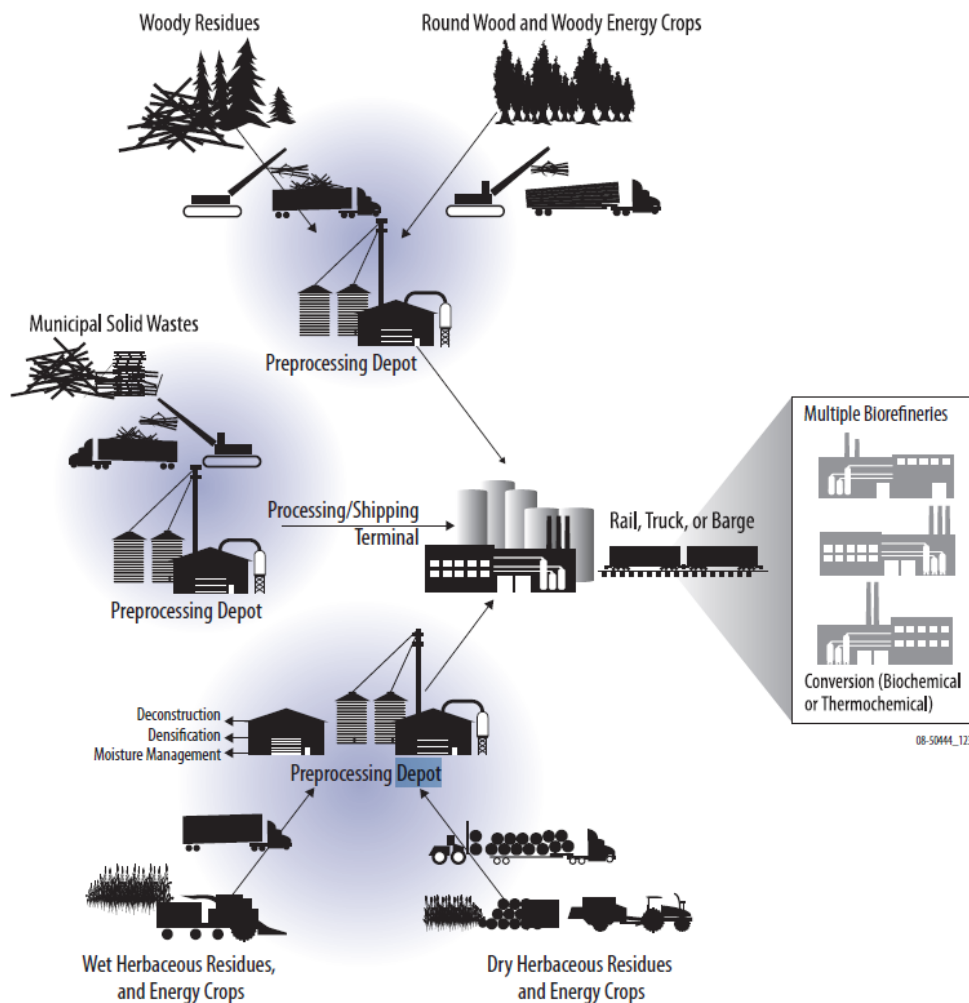
**-Low Diversity**  
**-Large Volume per Area**

Logistical  
Complexity

**-High Diversity**  
**-Multiple Feedstocks**  
**-Low Volumes per Area**

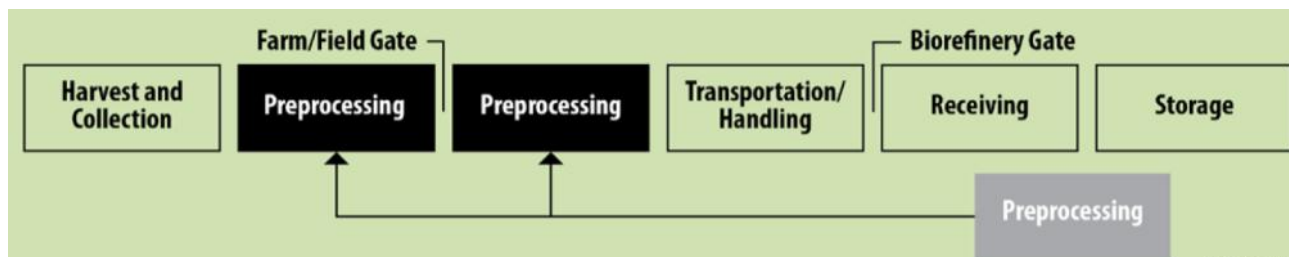
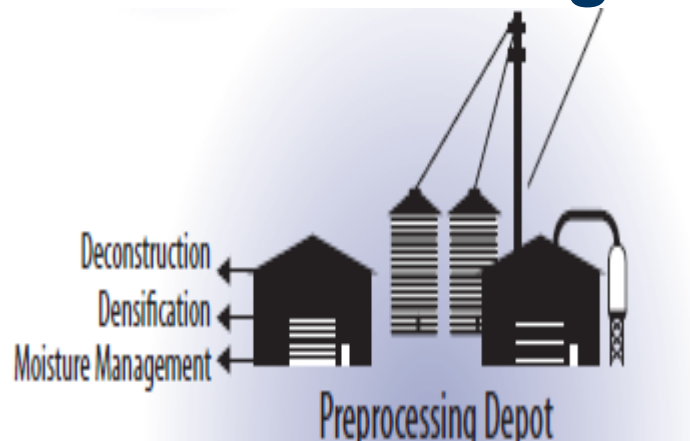
# Advanced Uniform Design

Advanced Uniform Design incorporates many species and types of biomass that are formatted at specialized preprocessing facilities called “depots”.

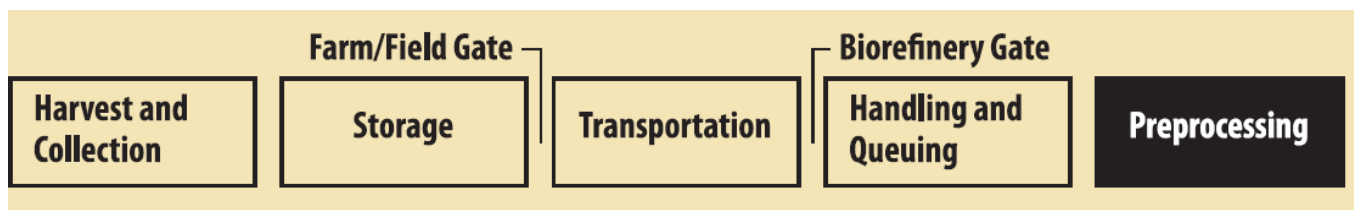


## ***Role of Depots in Advanced Uniform Design***

Depots place preprocessing operations early in the supply chain to engineer feedstocks to be compatible with downstream handling operations.



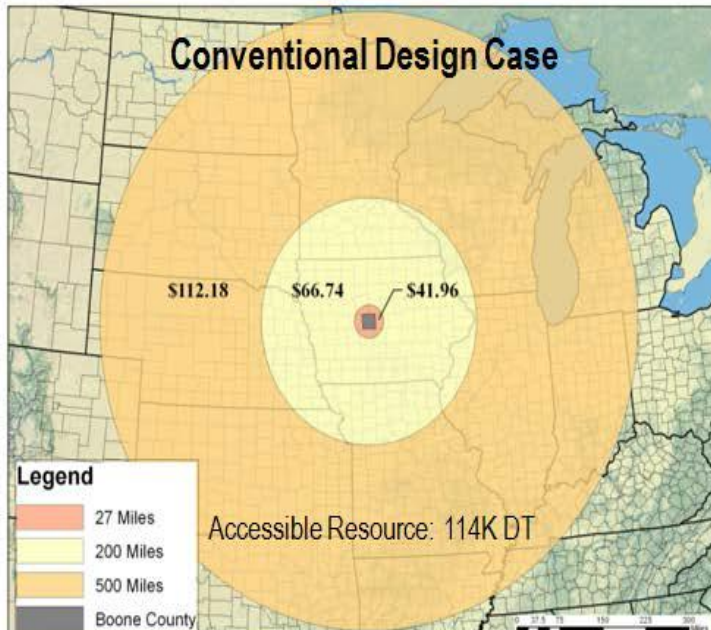
Advanced



Conventional

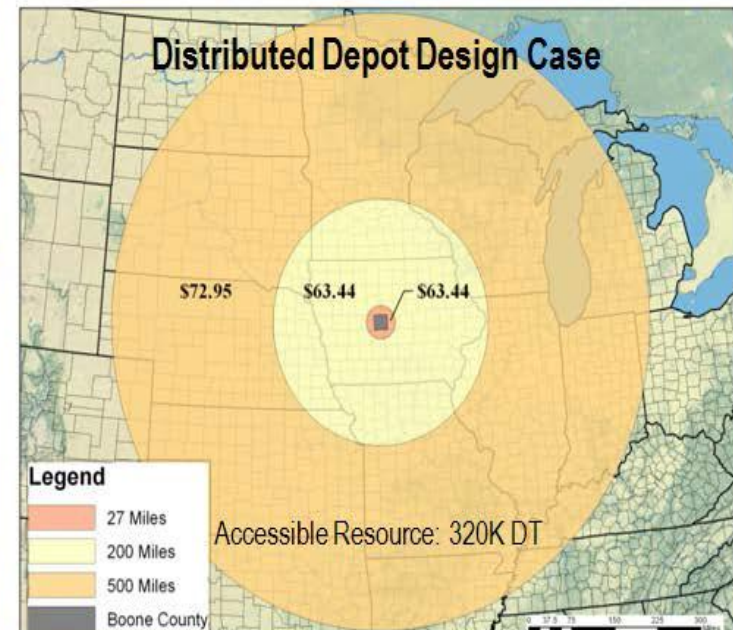


# Other Advantages of Advanced Uniform Design and Depots



## Elevated Risk

- Supply Risk
- Material Quality and Spec Risk
- Cost Risk

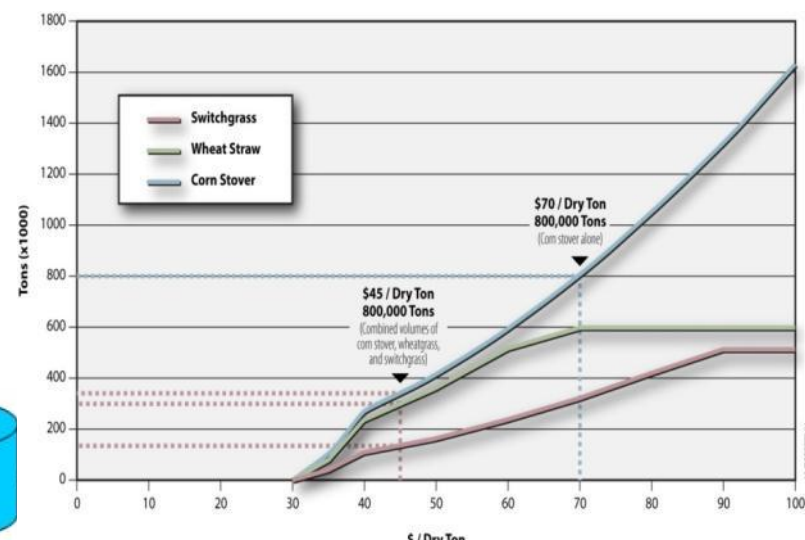
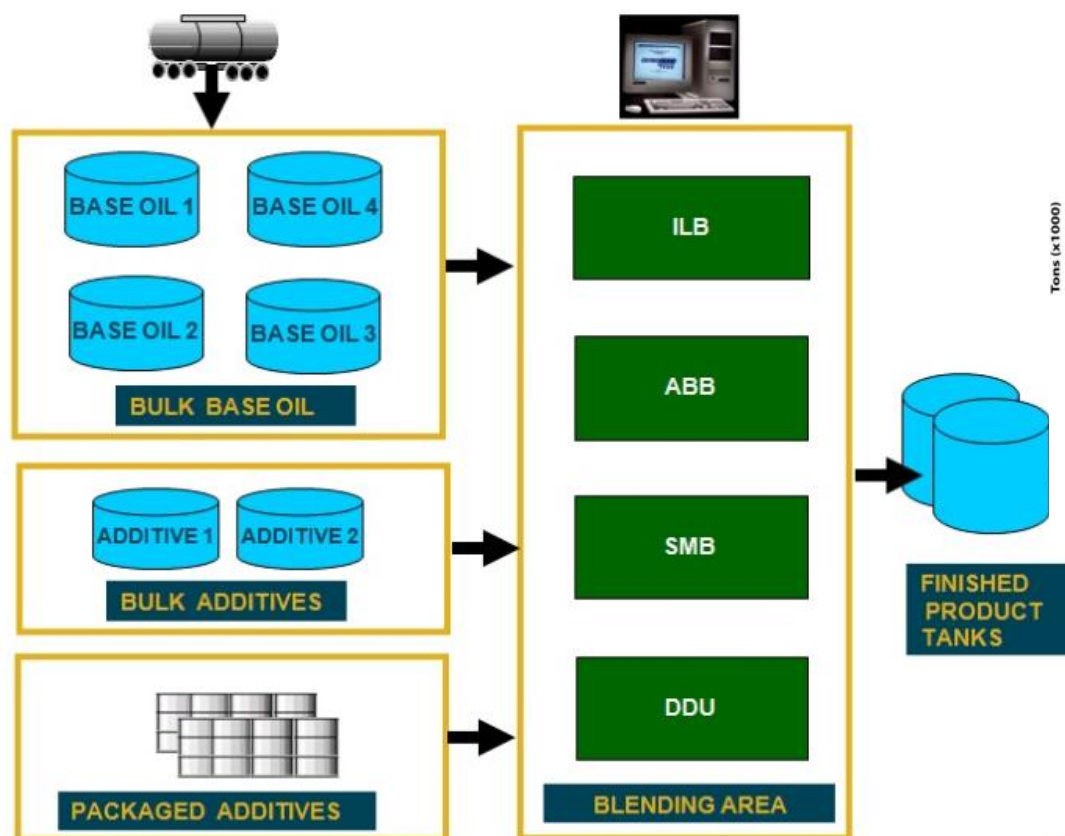


## Stable System

- Supply and Cost Risk Mirror the Grain System
- Material Quality Standards

# Blending/Formulation

## Lube Oil Blending Plant



Blending allows for cheaper, lower quality feedstocks to be used with more expensive high quality to meet specification for more product overall.

# Biomass Logistics Model

- Allows for design development and evaluation of feedstock supply systems.

## Conversion Interface

