

Fall 2017



# ESW BIOFUELS

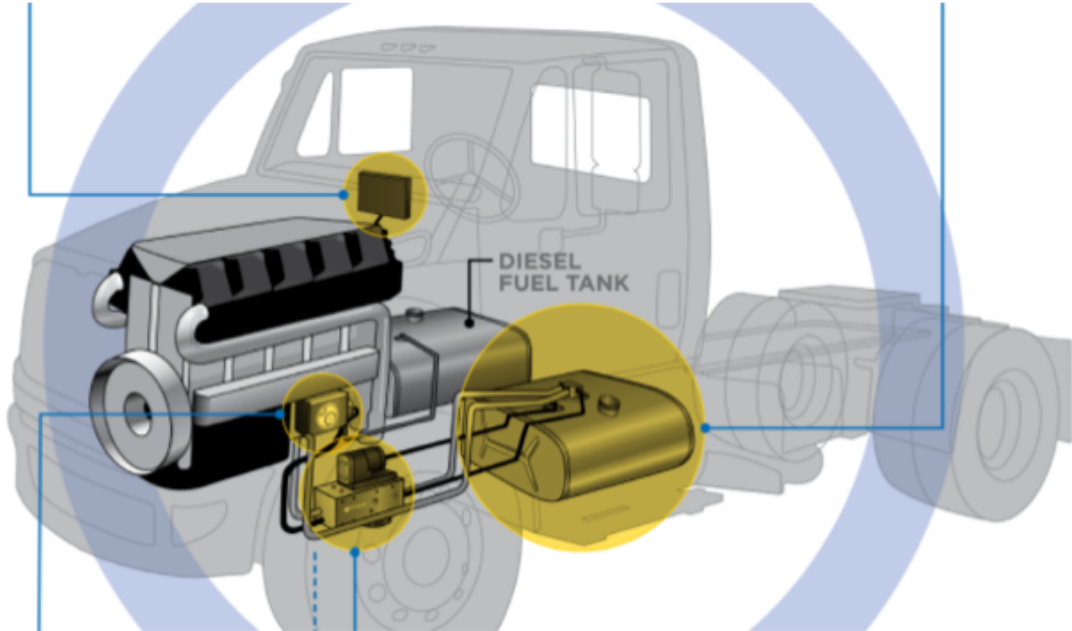
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Biodiesel Engine Project  
Gregory Brumberg & Manisha Kunala

# Optimus Technologies



Optimus Technologies Vector System enables medium- to heavy-duty vehicles to run on **B100 biodiesel**



# What Is Our Plan?

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- Pilot Study funded by Dr. John Swanson
- Optimus Technologies would install engines
- Biodiesel sourced from soy or used cooking oil
- Trucks or Tractors?



# Goals

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- Feasibility
- Environmental Impact
- Education/Living Laboratory

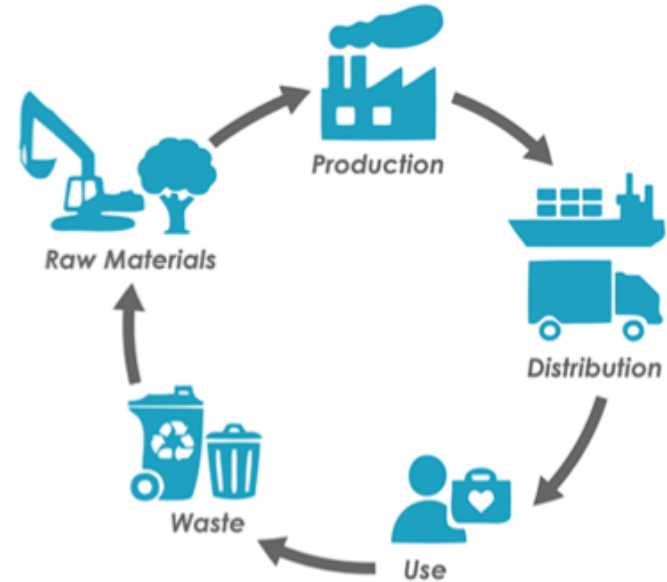
# What We've Done So

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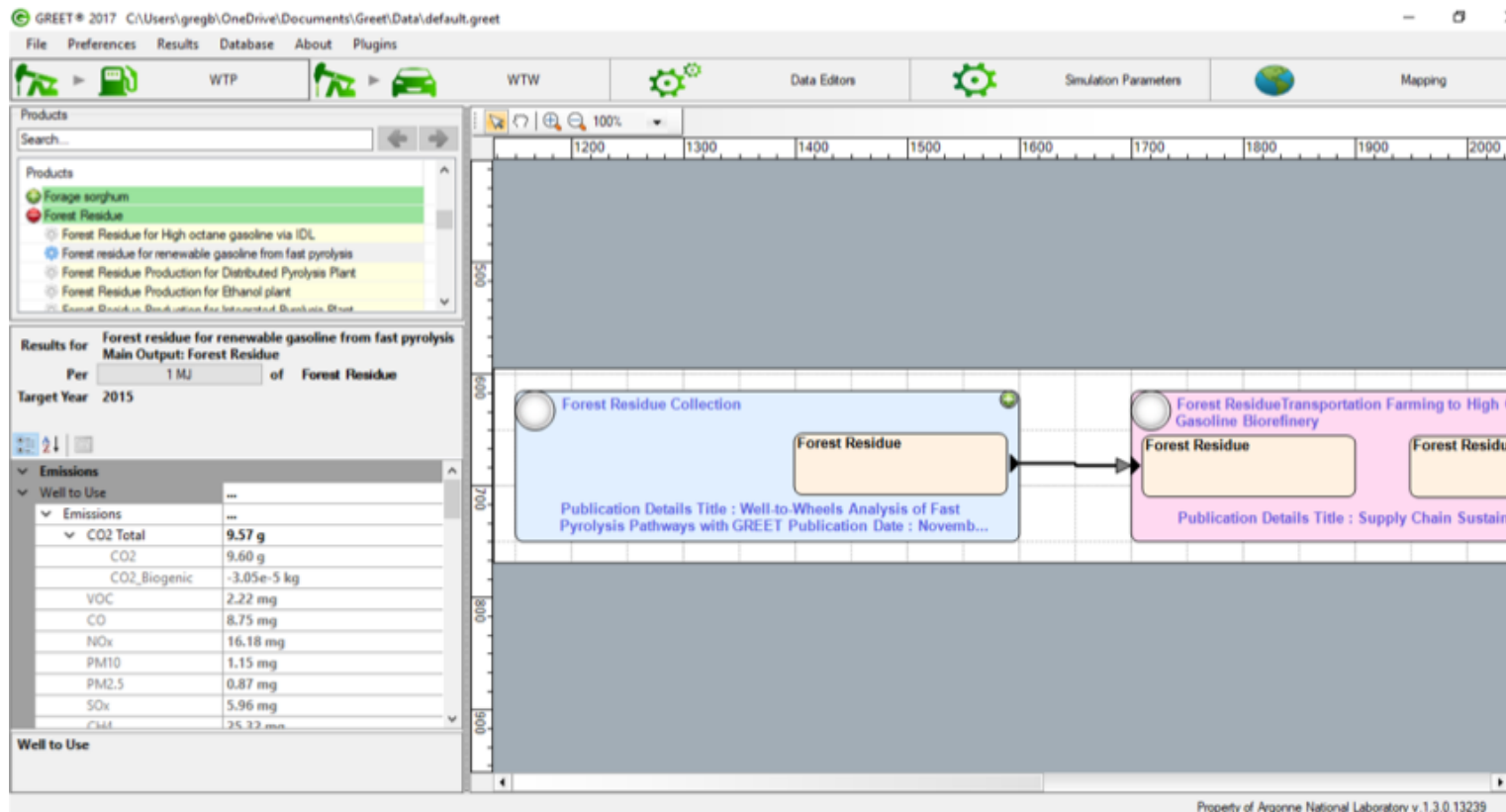


## Far

- Life Cycle Analysis
- Written Report Outline
- Lab-scale Biodiesel Production
- Interdepartmental Communication



# GREET



# Homemade Biodiesel

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# Next Steps

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- Logistics
- Community Cooperation
- Determine whether to install
  - Result Analysis
  - Recommendations



# Challenges

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- LCA Calculations
- Uncertainties
- Interdepartmental



# Thank you!

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