

Fall 2017



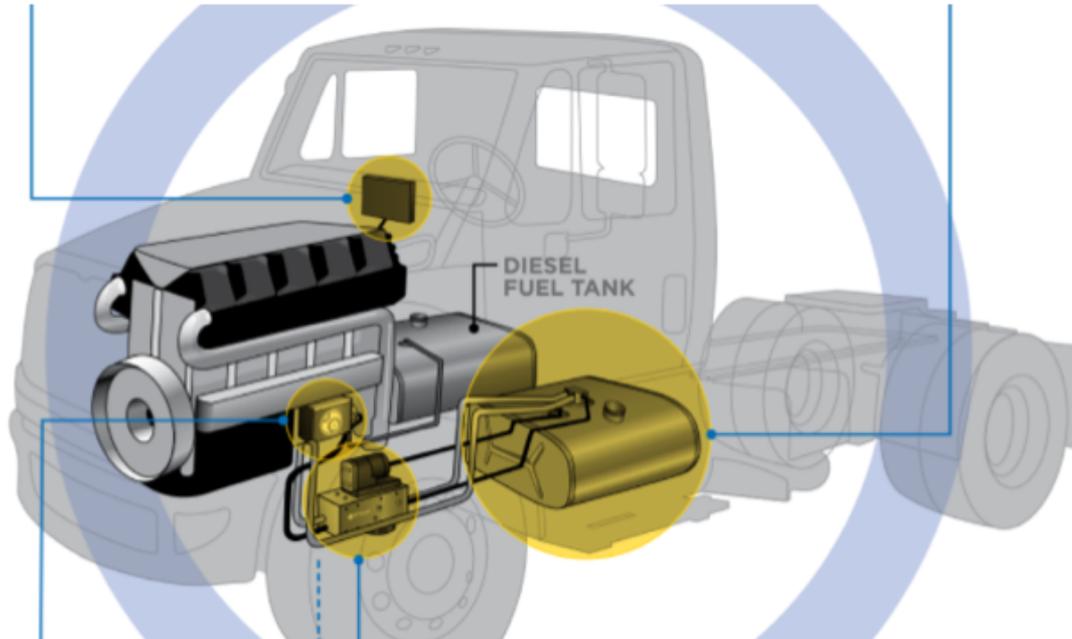
ESW BIOFUELS

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?



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



Goals



- Feasibility

- Environmental Impact

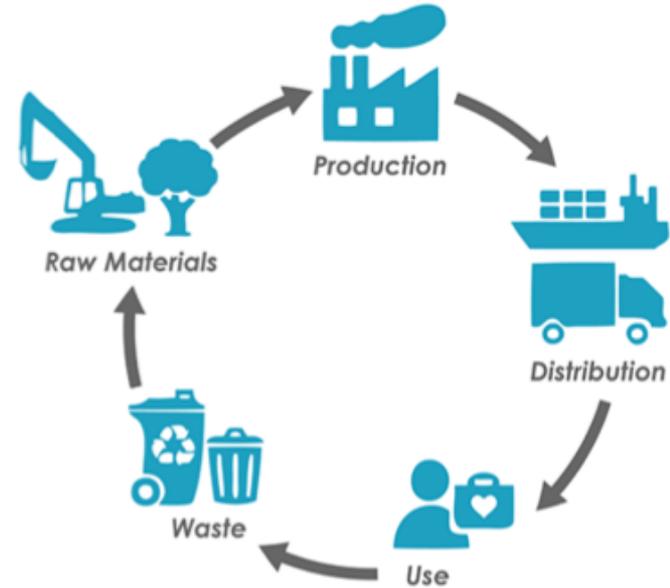
- Education/Living Laboratory

What We've Done So

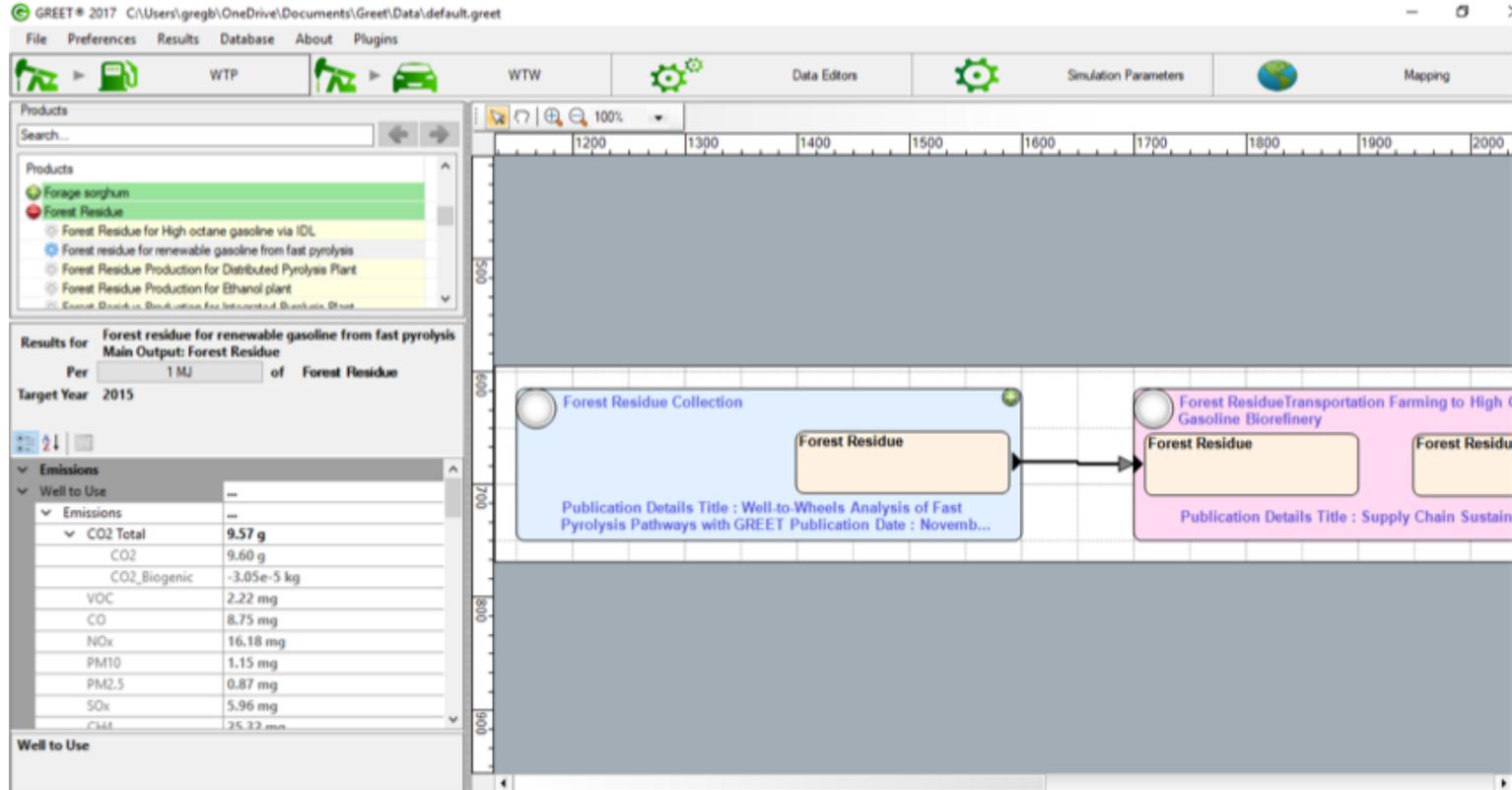


Far

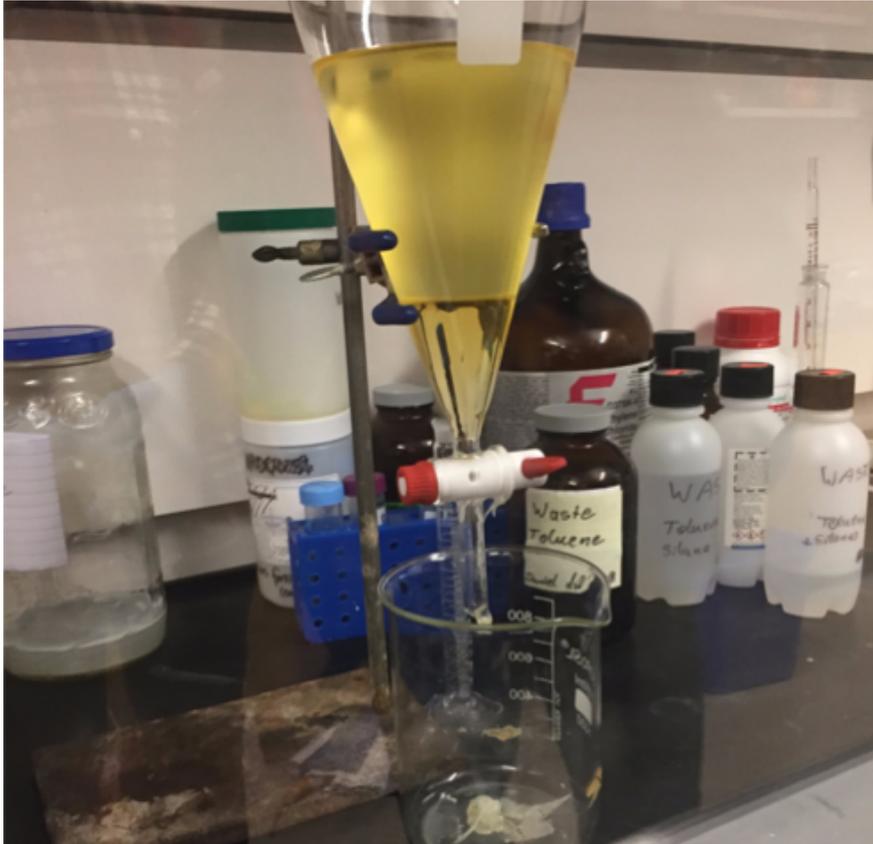
- Life Cycle Analysis
- Written Report Outline
- Lab-scale Biodiesel Production
- Interdepartmental Communication



GREET



Homemade Biodiesel



Next Steps



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

Challenges



- LCA Calculations
- Uncertainties
- Interdepartmental



Thank you!

