TAKACHSR

Small-scale, decentralized biomass upgrading

Presented by Kevin Kung, Ph.D. Cyclotron Road Entrepreneurial Fellow info@takachar.com

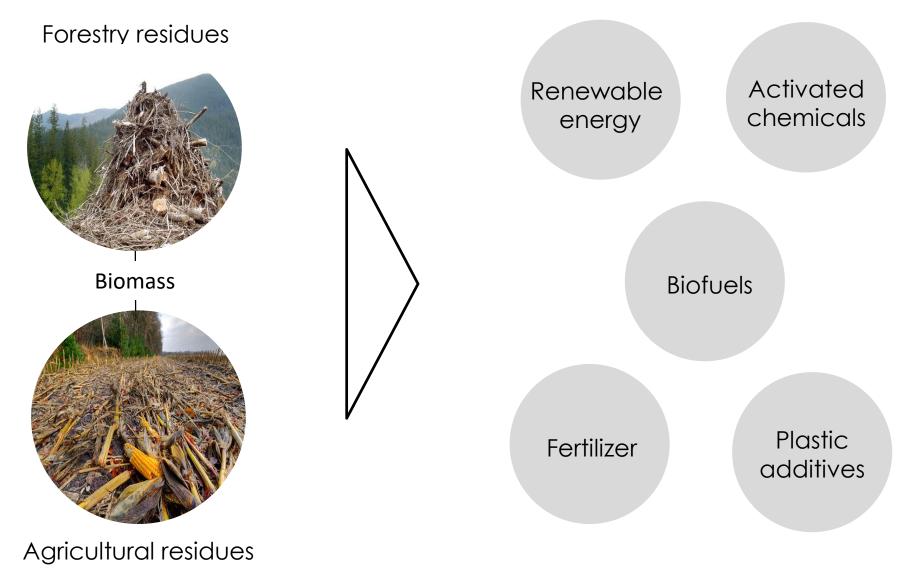
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Current paradox

Biomass serves as the feedstock to many important industries



Logistical challenge
Biomass is loose, wet, bulky, and expensive to transport.





Our solution

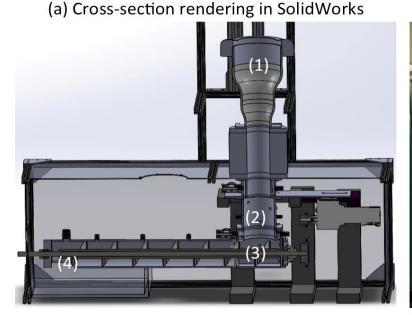


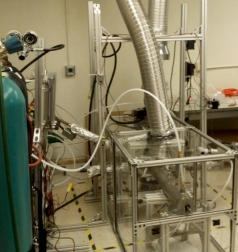
Low-cost, small-scale, portable systems to convert biomass at source



- Latched onto tractors, trailers, or shipping containers
- Requires no external heat/fuel (autothermal)

Raw Biomass	Densified Biomass	
Loose and bulky	Volume reduction by 600%	
Costly to transport	Reduces transport cost by 40%	



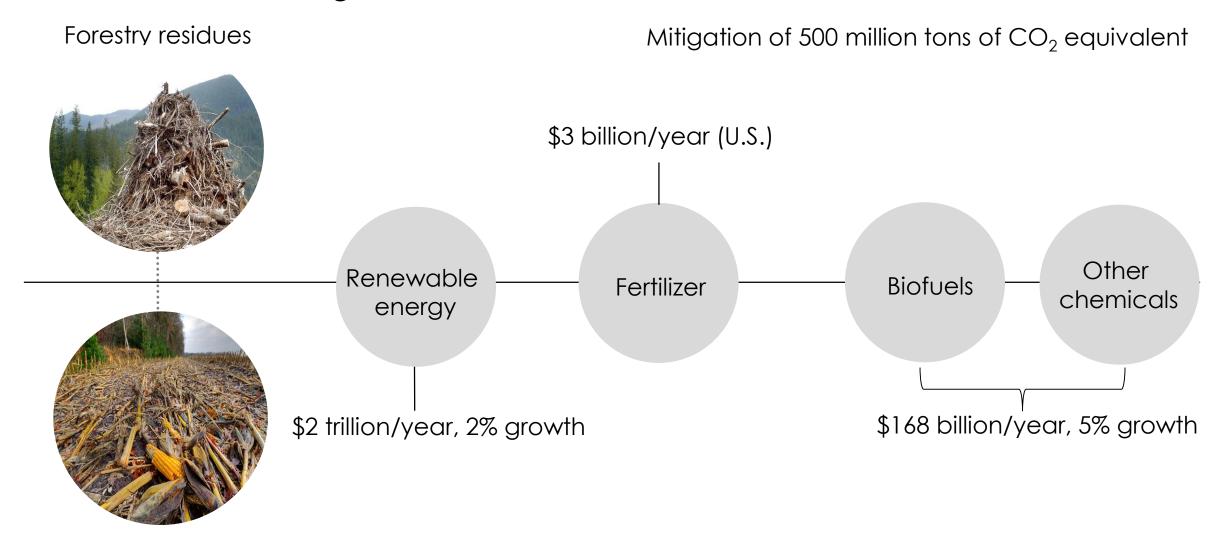


(b) Actual test reactor

Competitive advantage Our design simplifies the reactor design and makes it flexible

Requirements	Competitors	Takachar system
Gas reactant	Heated special gases	Room temperature air
Gas handling	Scrubbing, drying	None

Building the bioeconomy We serve biomass generators and consumers worldwide



Agricultural residues

Supporters

cyclotronroad













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