

# Commercializing Cellulosic Biorefining



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**Chief Commercial Officer**

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# Tomorrow's Fuels & Chemicals Today

## ZeaChem

We Create High Margin and Sustainable Alternatives to Petroleum-Based Fuels and Chemicals in Use, *Today*.



Poplar Harvesting  
Boardman, OR

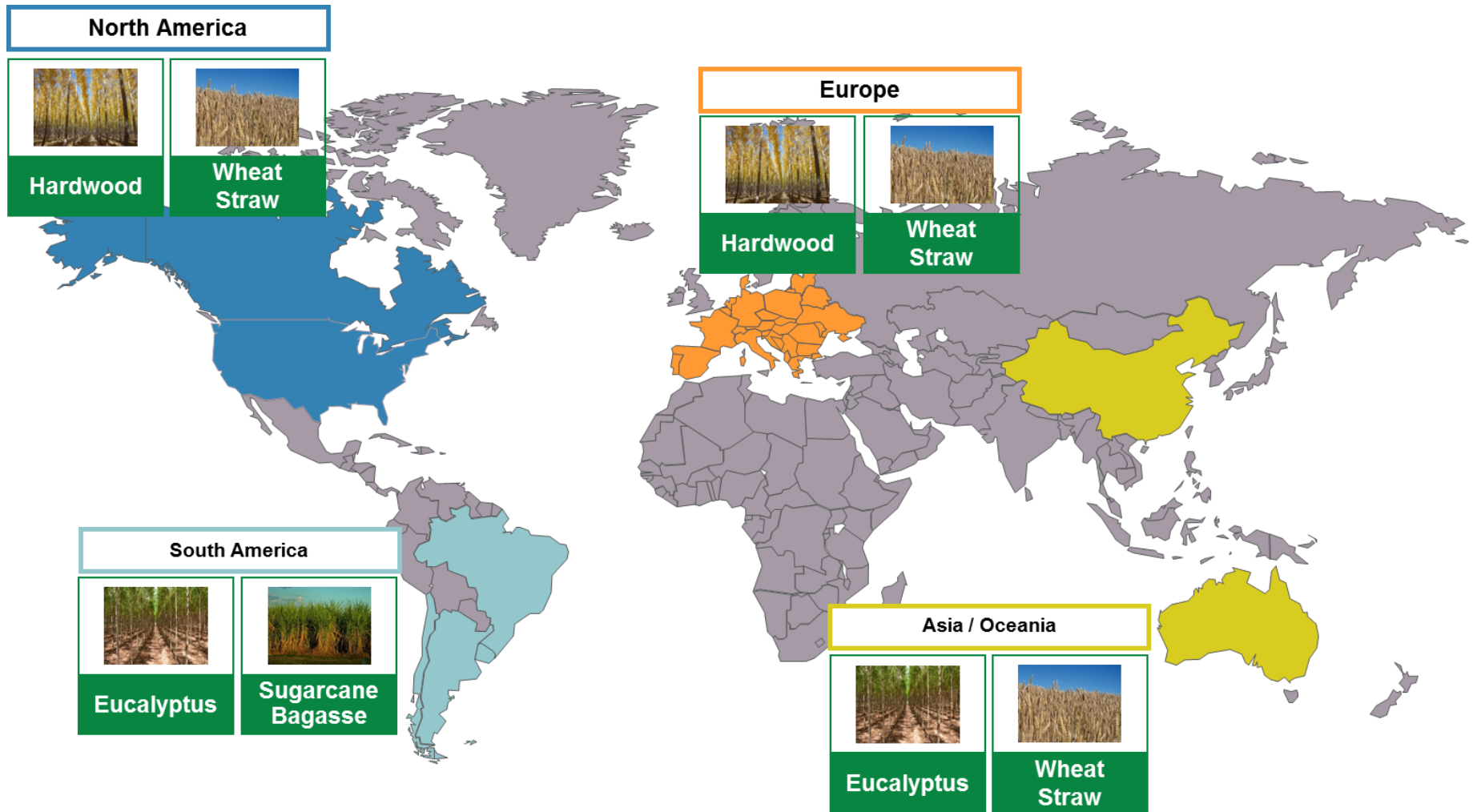


250K GPY Demo Facility  
Boardman, OR



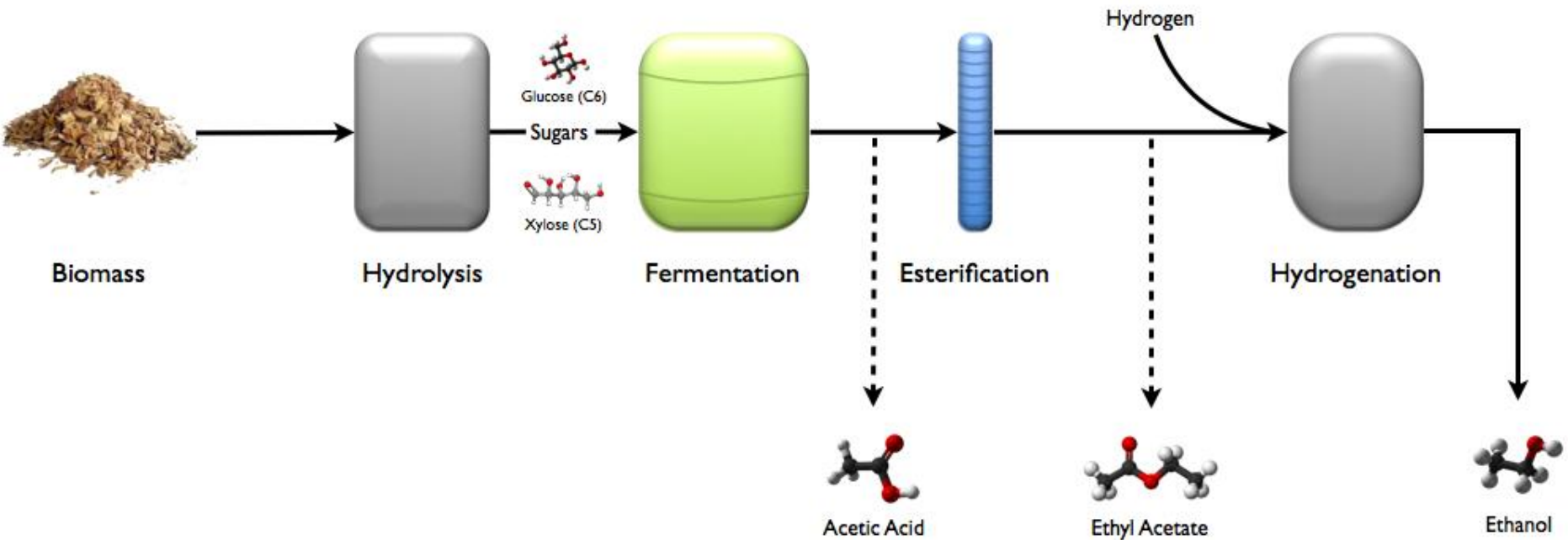
Fuels and Chemicals

# Feedstock Flexible = Globally Replicable



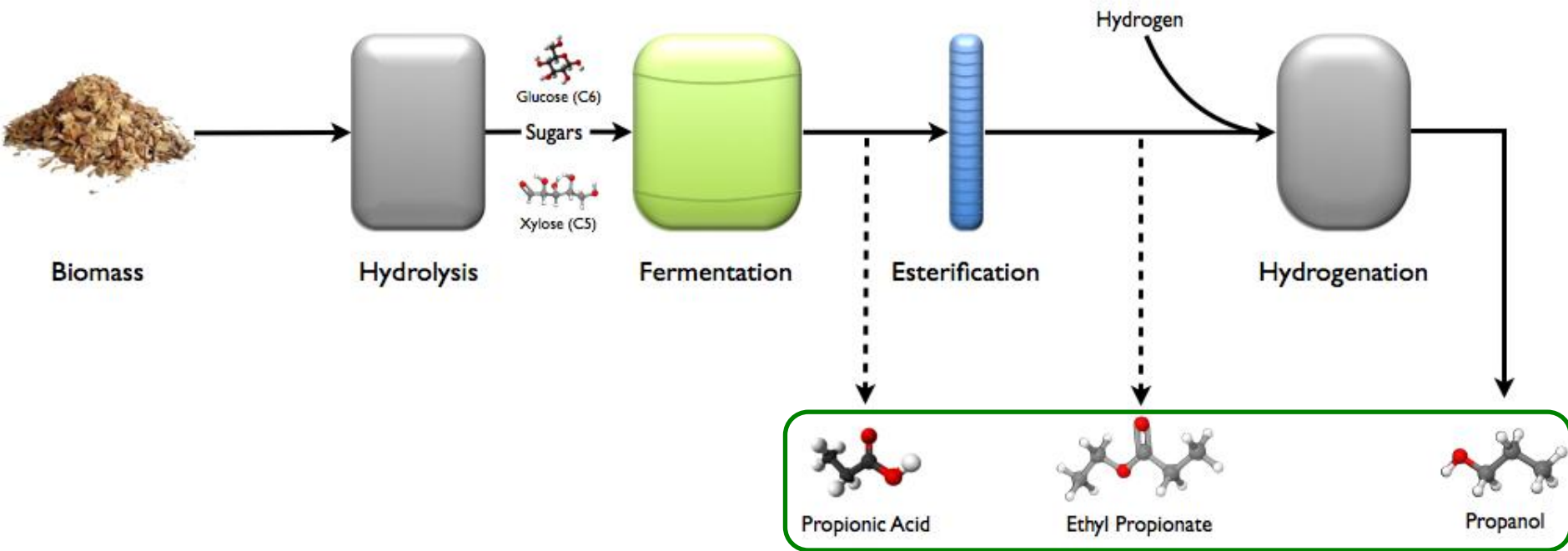
**Co-Locate Biorefineries With Cellulosic Feedstock Supplies**

# ZeaChem's C2 Product Platform



- ✓ Carbon efficient
- ✓ 40% higher yield than other processes
- ✓ >90% green house gas reduction

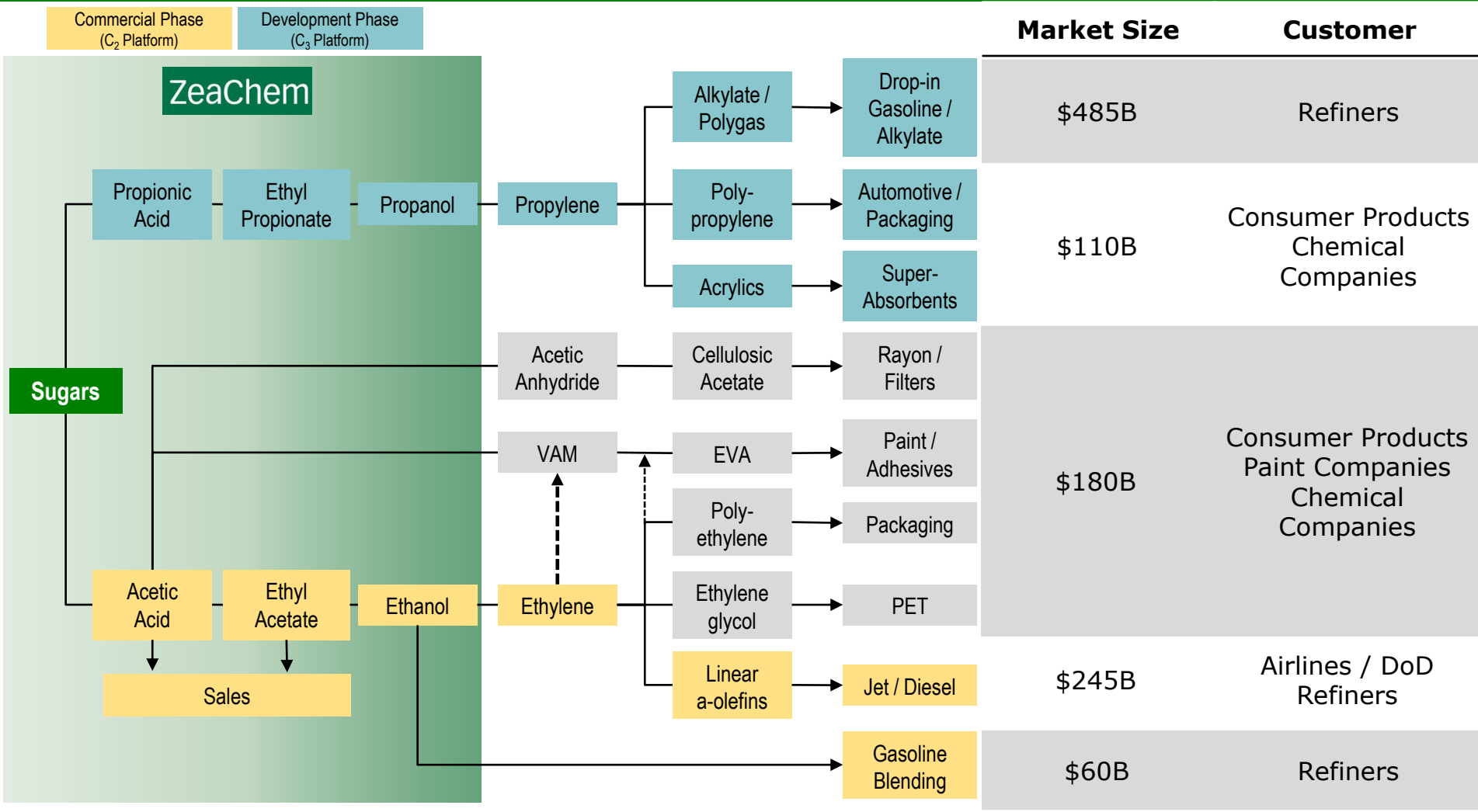
# ZeaChem's C3 Product Platform



- Pivot to C3 platform with a switch of organism
- High carbon yield, natural organism similar to C2

# Multiple, Established Markets

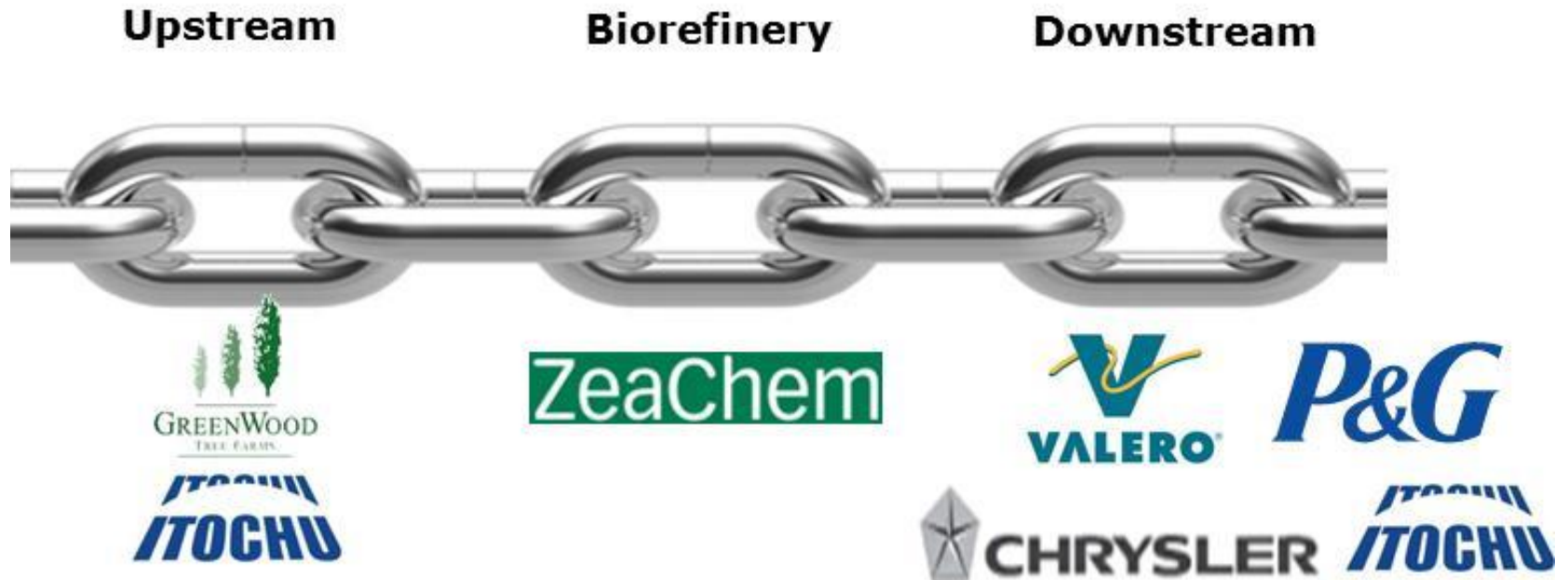
## \$1 Trillion Fuels & Chemicals Market



**Competitive Today On Base Product = Competitive On Downstream Products**



# Linking The Chain



# Company History

## Demonstrated Track Record Of Execution

2002

Founded



- Lakewood, CO
- Company headquarters

2006

Lab



- Menlo Park, CA
- 5 GPY
- Proved out technology at bench scale

2008

Pilot



- Golden, CO
- 50K GPY
- 10,000x scale-up of technology

2012

Demo



- Boardman, OR
- 250K GPY
- Demonstration of integrated process at scale

1<sup>st</sup>  
Commercial



- Boardman, OR
- 25MM+ GPY
- Key development milestones completed
- Co-location further mitigates risk

C3 Platform  
Rollout



- C3 will follow closely behind C2

Successfully Developed Technology From Lab To Demo Scale & Raised 3 Rounds Of Financing



# Demo Plant (250,000 GPY) – Boardman, OR



# Demo Plant (250,000 GPY) – Boardman, OR



# Commercializing

- 1st Commercial
  - USDA LG
  - LT Feedstock Agreements
  - Offtake
  - Financing structure in place
  
- Global Rollout
  - Products
  - Markets
  - Geographies



# Thank You



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