



NREL Industry Growth Forum, 2007

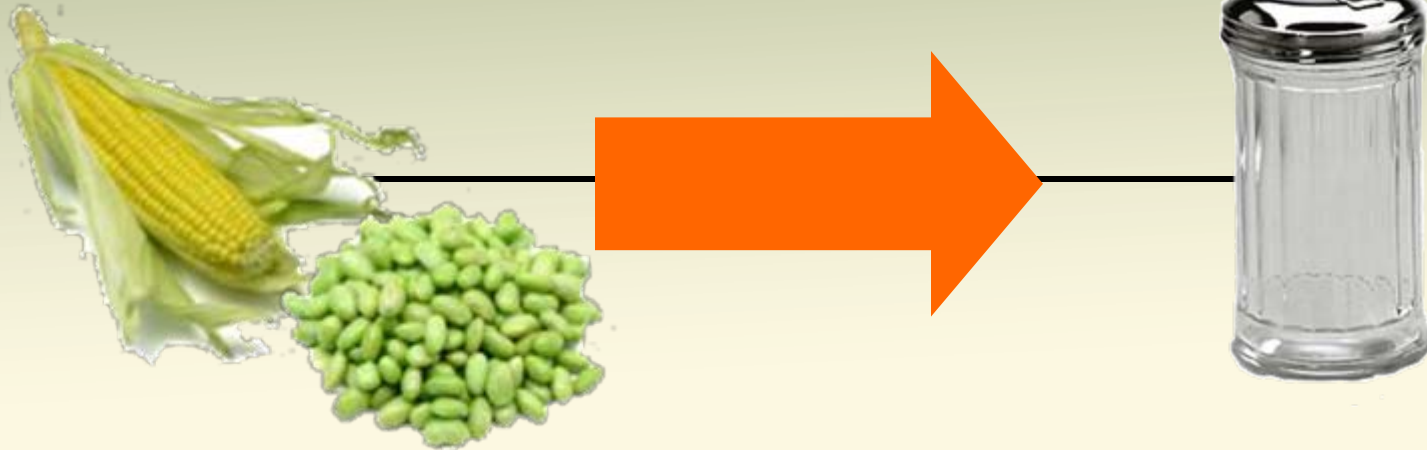


C5•6 Technologies, Inc.

John Biondi, President

C5•6 Technologies

C5•6 develops and markets enzymes that convert agricultural feedstocks to 5 and 6 carbon sugars



C5-6 Enzymes could be the front end of multiple biorefining processes

C5·6's Competitive Advantage

C5·6 has solved one of the fundamental problems in enzyme discovery.

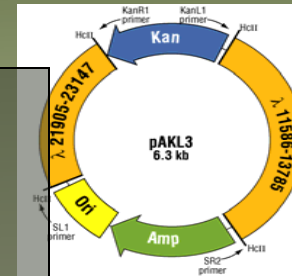
- The entire \$25B enzyme market is based on material generated from less than 1% of the world's microbes
- The remaining 99% cannot be grown in the lab



C5•6's Technology Application

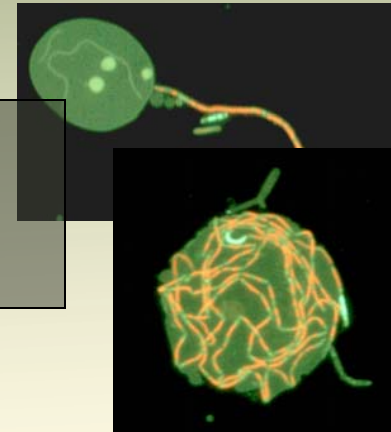
Platform Technology

- Unique Cloning Tools
- Single Cell Genomics



+

Rare Microbes



Enzymes with Targeted Properties

Benefits for Biofuels

C5-6 has the ability to find and produce new enzymes with targeted attributes

- **Developing enzymes to fit the process rather than a process to fit the enzyme**
- **C5-6 Solution: Find natural environments that match the process environment**
 - Dry mill = high temperature, harsh pH
- **Lowest per enzyme cost of discovery**



C5·6 Target Market

Target customer = Dry Mill Producers

C5-6 Opportunity, Dry Mill, U.S. only

	<i>2007</i>	<i>2015</i>
Production volume	7 B gallons	15 B gallons
Enzyme value/gallon	\$0.035	\$0.07
Total Market	\$250 million	\$1 billion

Total 2015 C5-6 U.S. Market Potential:

Enzymes = \$1 billion Services = \$500 million

Ethanol = \$30 billion

C5•6 Technologies Management Team

David Mead, Ph.D. – Founder & CEO

20 yrs biotech R&D & management; 4 patents

John Biondi, MBA – President

30 yrs business leadership experience; 5 start-ups

Phil Brumm, Ph.D. – Chief Scientific Officer

20 yrs management in industrial enzymes; 7 patents

Rick Remeschatis, MBA, CFA, CPA, – CFO

30 yrs private & public companies



C5•6 Technology Roadmap

Improve Production
10-12%



Most Profitable
Ethanol Process



Lowest Cost Biomass
Conversion



One enzyme technology, three feedstocks



Technical Platform: High Temperature Enzymes



Dry Mill Process



	Corn	Soy	Cellulosics
Problem Solved	15% wasted due to enzyme limitations		
Value Proposition	\$10M annual savings for typical plant (no capex required)		
Revenue Sources	Enzyme sales		
Intro Date	Q3, 2008		



Technical Platform: High Temperature Enzymes

Dry Mill Process

	Corn		ulosics
Problem Solved	15% wasted due to enzyme limitations	“A process delivering an extra 10% margin in the corn ethanol market without capital investment is huge—and exactly what the industry needs right now.” <i>Bob Sather, Chairman ACE Ethanol, RFA Board member</i>	
Value Proposition	\$10M annual savings for typical plant (no capex required)		
Revenue Sources	Enzyme sales		
Intro Date	Q3, 2008		



C5•6 Soy Process Technology



Technical Platform: High Temperature Enzymes

Dry Mill Process

	Corn	Soy	Cellulosics
Problem Solved	15% wasted due to enzyme limitations	Conversion of soy meal carbohydrate	
Value Proposition	\$10M annual savings for typical plant (no capex required)	Two high value co-products <ul style="list-style-type: none">• Ethanol• Concentrated protein	
Revenue Sources	Enzyme sales	Licensing Enzyme sales Services sales Plant production revenues	
Intro Date	Q3, 2008	2010	



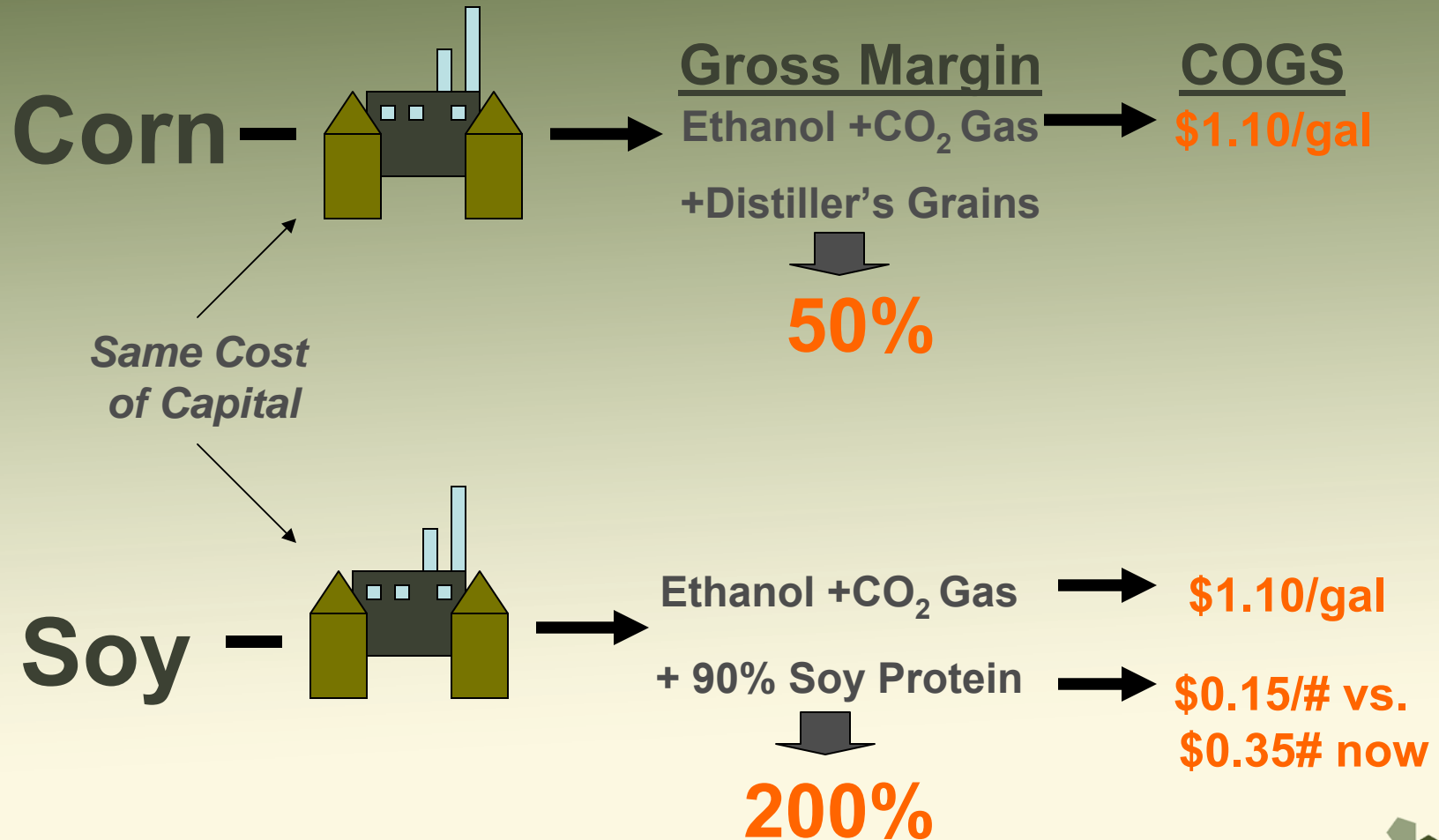
National Level Validation

C5-6 Science validated at the highest national levels

- DOE/USDA grant--\$1.3 million
 - Only known significant U.S. grant for work in soy
 - Patent field open as well



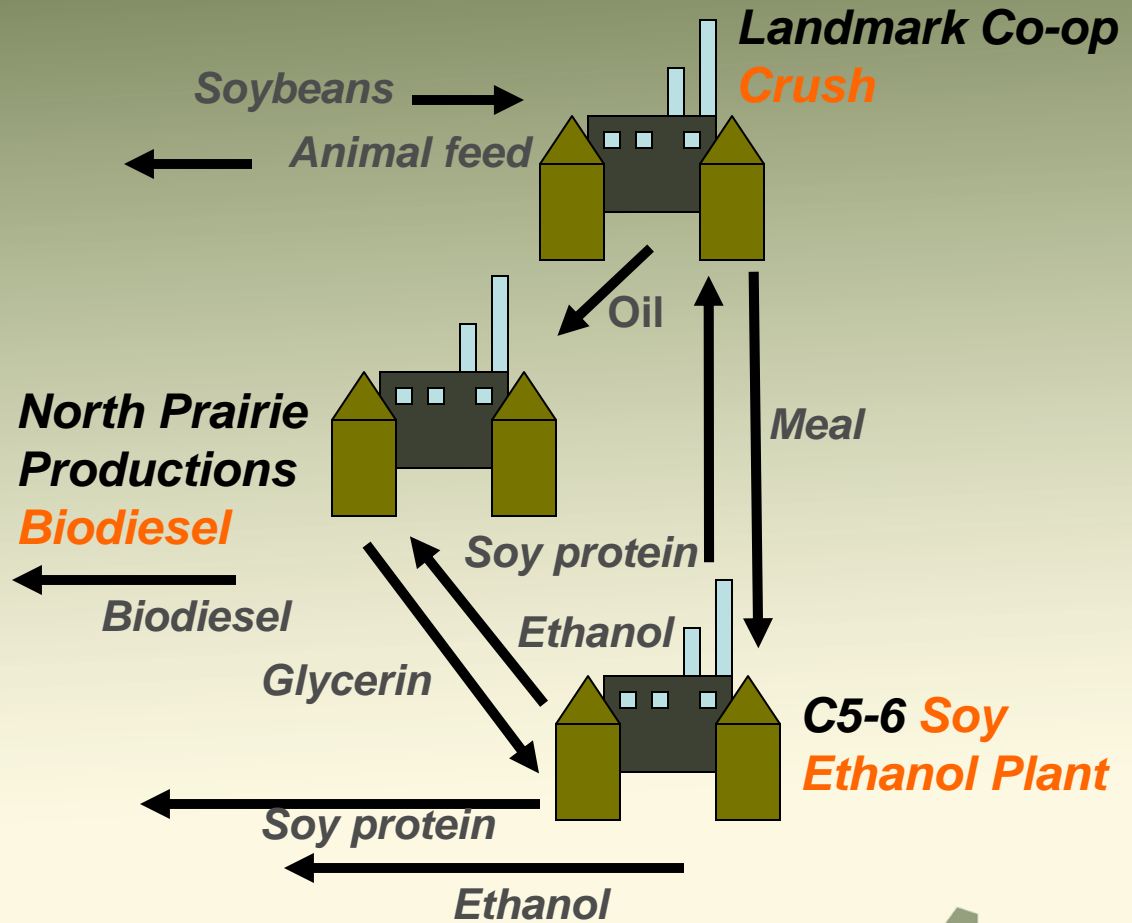
C5•6's Soy Process-Market's Most Profitable



Pilot Plant Project in Planning

“C5-6’s soy process will allow us to take in soybeans to our Evansville facility, have them converted to two fuels and share co-products across fuel, food and feed for the first time in the world.”

*John Blaska, Chairman
Landmark Co-ops*



Technical Platform: High Temperature Enzymes



Dry Mill Process

	Corn	Soy	Cellulosics
Problem Solved	15% wasted due to enzyme limitations	Conversion of soy meal carbohydrate	Conversion of Biomass
Value Proposition	\$10M annual savings for typical plant (no capex required)	Two high value co-products <ul style="list-style-type: none">• Ethanol• Concentrated protein	Lowest cost of capital for any cellulosic conversion process
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Intro Date	Q3, 2008	2010	2013



National Level Validation

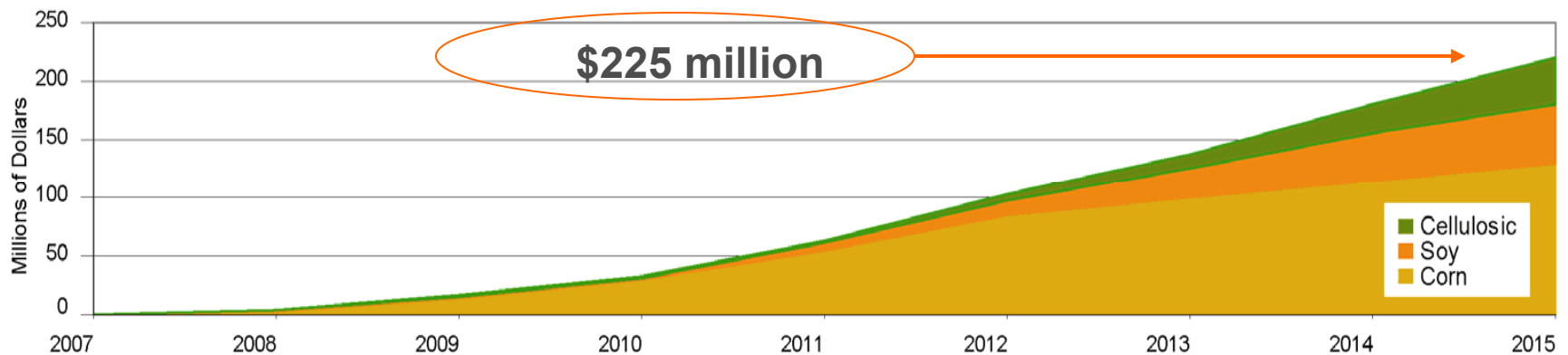
C5-6 Science validated at the highest national levels

- One of three DOE Bioenergy Research Center Grant
 - Grant = \$125 million over 5 years
 - Only award recipient that is not a DOE lab
 - C5-6 portion = \$400k/year for 5 years
 - Access to large troves of new genetic material



C5•6 Results of Operations: Three Business Units, Multiple Revenue Streams

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Value Proposition	\$10M annual savings for typical plant	Two high value co-products <ul style="list-style-type: none"> • Ethanol • Concentrated protein 	Lowest cost of capital for any cellulosic conversion process
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