Dr. Pendse is Professor and Department Chair in the Department of Chemical and Biological Engineering at UMaine. He completed his graduate studies for both his Masters and PhD at Syracuse University. He is author and co-author of countless publications in leading journals of his field. In his spare time he has taken the lead in securing a National Science Foundation grant to build capacity and infrastructure at UMaine for the emerging forest bioproducts industry. It is this role of Director for FBRI that he joins us tonight to highlight the accomplishments of the past 1½ years and also to describe where we are heading over the remainder of the grant life and beyond. Please welcome Hemant Pendse......



Discovering a Sustainable Bio-Economy THE UNIVERSITY OF MAINE



FBRI's Core Research

From the forest floor to the factory floor, researchers, students, and project partners' goals are to:

Promote

Forest Health for a Stable Bio-Economy

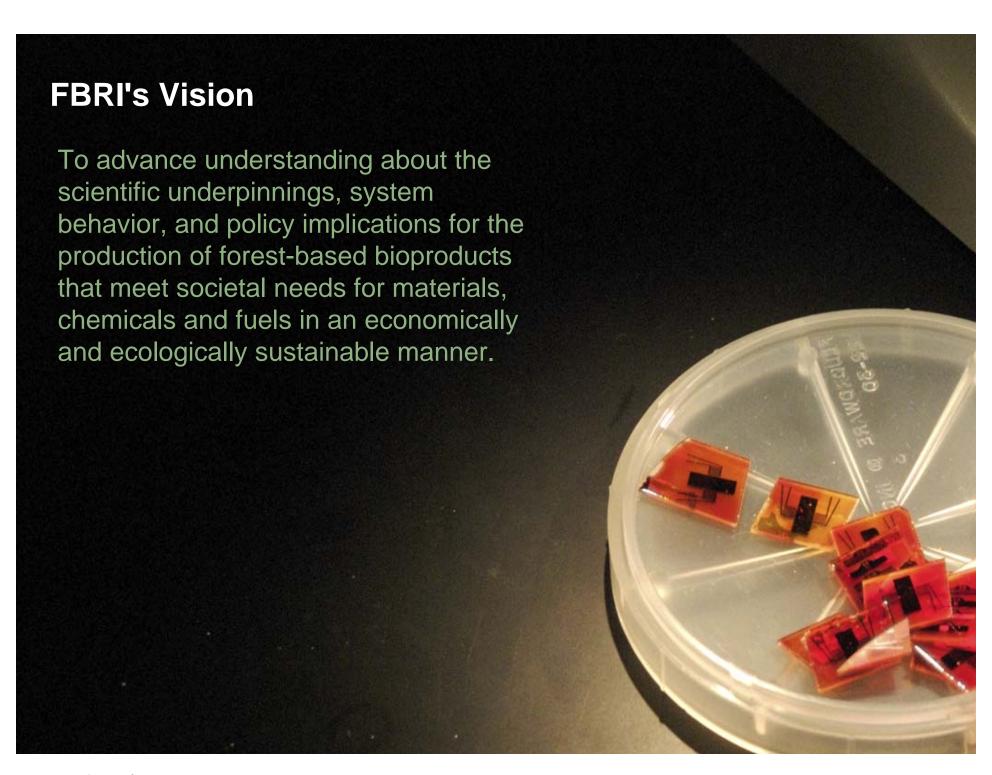
Understand

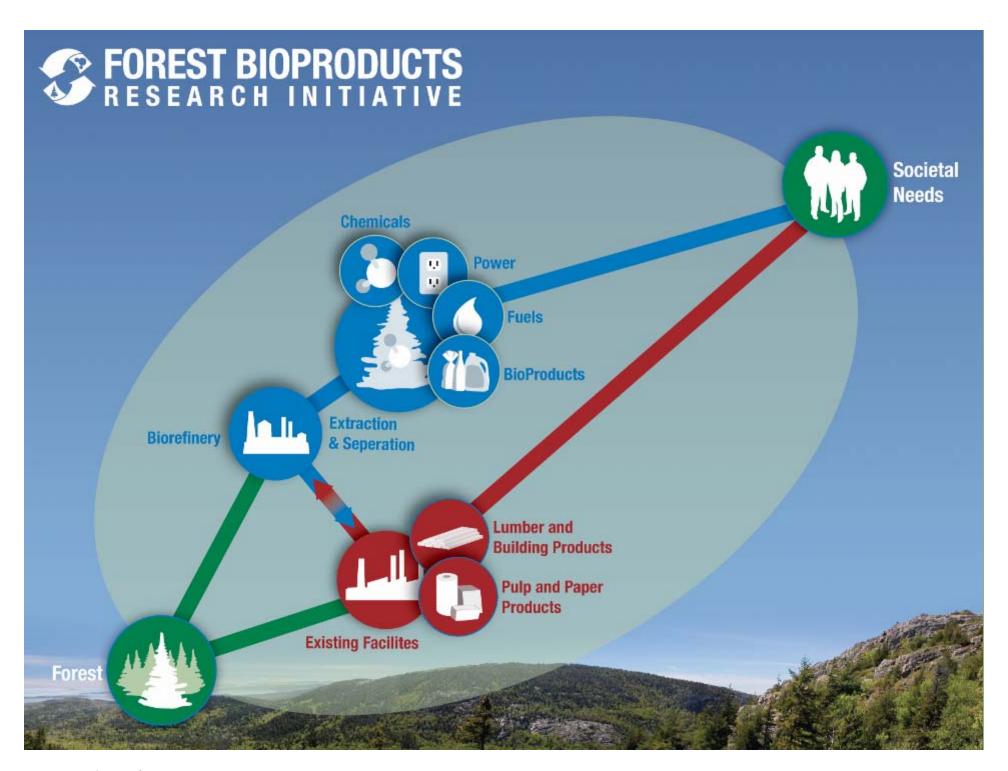
and Separate
Wood Components

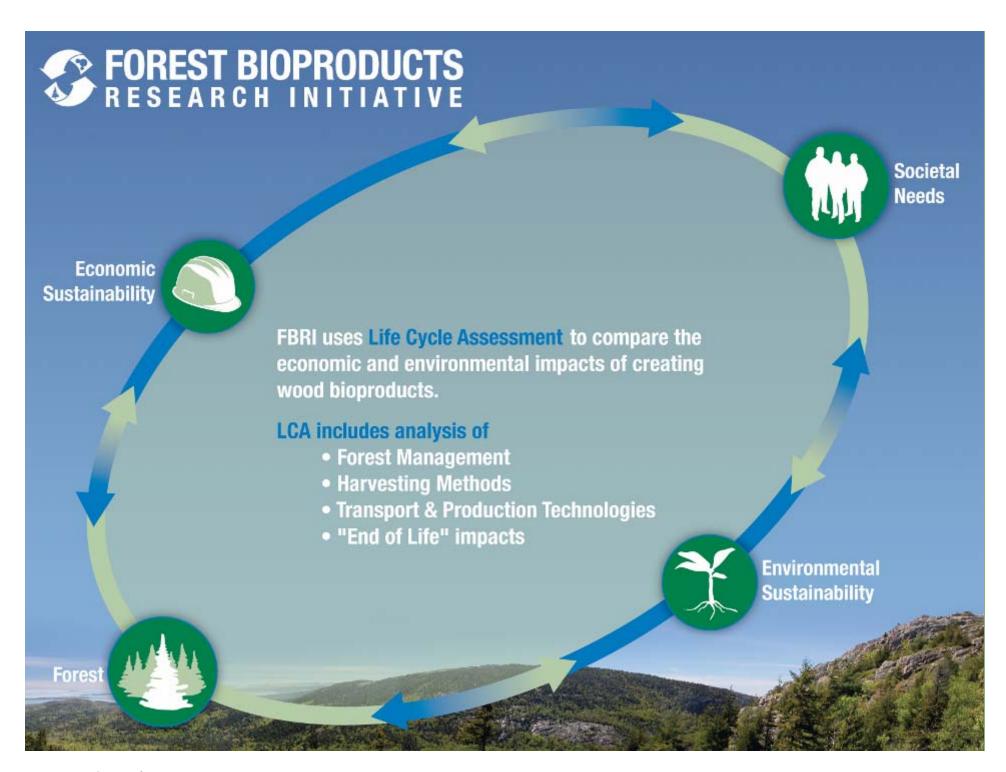
Create

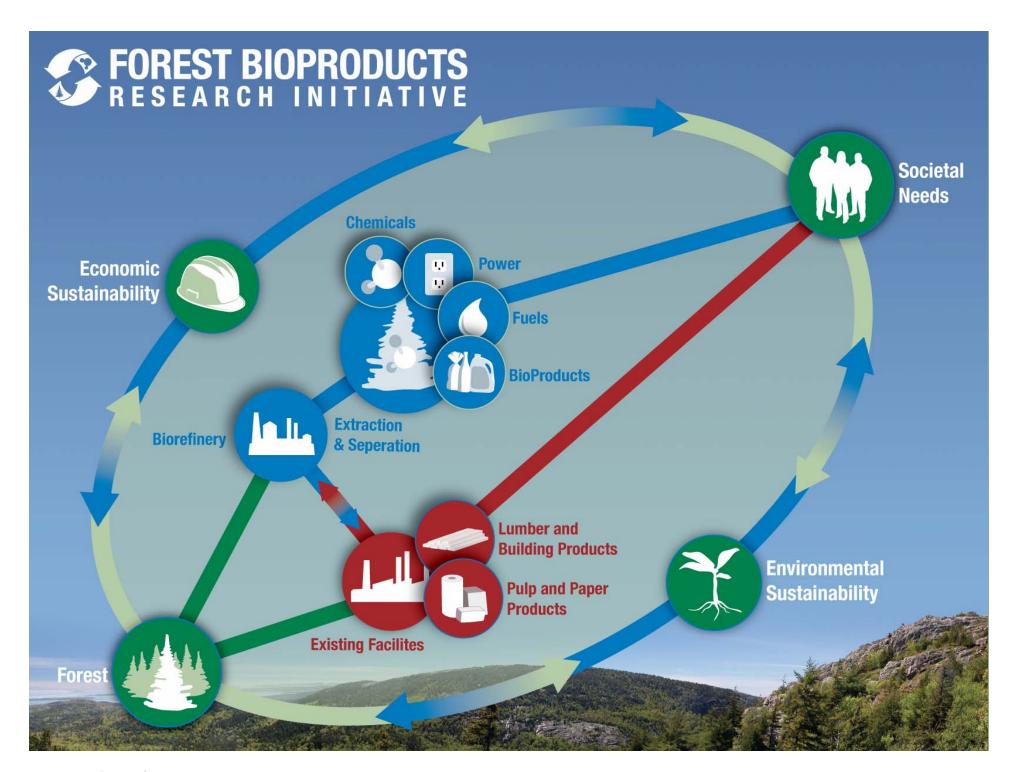
and Commercialize New Bioproducts











Senate Energy Bill June 2007

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S.L.O

Susan M. Collin

AMENDMENT NO	Colondar No
AMENDMENT NO	Calendar No.
development of sustain	research support to facilitate the nable markets and technologies to dy biomass and other low-carbon
IN THE SENATE OF THE UNITED STATES-110th Cong., 1st Sess.	
1	H. R. 6
To By Colle	16. 1502 oping Effi-
	aative
Page	e(s) GPO: 2006 50-772 (Mail)
Referred to the Committee ordered	e on and l to be printed
Ordered to lie on the	he table and to be printed
	be proposed by Ms. Collins to 1502) proposed by Mr. Reid

The Collins biofuels research and development provision, which FBRI wrote, passed the Senate, authorizing \$275,000,000 total over five years for biofuels research and development. This was amendment number 1700

- (e) Authorization of Appropriations.—There
- 2 are authorized to be appropriated to carry out this sec-
- 3 tion—
- 4 (1) \$45,000,000 for fiscal year 2009;
- 5 (2) \$50,000,000 for fiscal year 2010;
- 6 (3) \$55,000,000 for fiscal year 2011;
- 7 (4) \$60,000,000 for fiscal year 2012; and
- 8 (5) \$65,000,000 for fiscal year 2013.





Portland Press Herald Maine Sunday Telegram

Wood ethanol shows that Maine can play

Technology-based industries can thrive here, especially those connected to our resources.

Ice hockey teams notwithstanding, the University of Maine and national prestige don't often run in the same circles. ... Now, university researchers have developed a method for heating and squeezing wood to make ethanol. This research, coupled with commitments from legislators and university leaders to push it forward, could create dynamic energy of its own. ... Innovation here could fuel the university's status as a research institution -- in turn, attracting more bright students -- and create a fertile, renewable economic base throughout Maine.

We urge Mainers to support a November bond that will pump millions of dollars into research and development projects. Coupled with environmentally conscious public policy, people might see past the forests to the trees and come to regard Maine as a player off the ice as well as on. July 2, 2007





FBRI - Building on Our Strengths ...



The AEWC Center

The Advanced Engineered Wood Composites Center







Pulp & Paper Foundation
Orono, Maine



Internatioal Paper Pre-Extraction

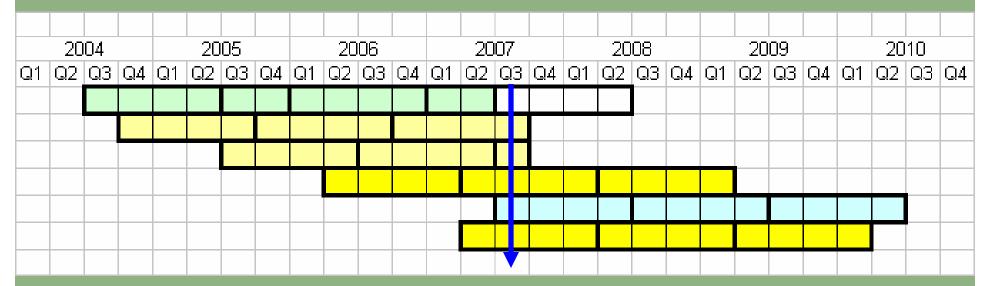
DOE/IoF IFPR

DOE/MTI Mill Residuals

EPSCoR/NSF Forest Bioproducts

DOE/EPSCoR Implementation Award Phase I

NSF/REU Explore It! Sustainable Energy







\$13.2 million and counting ...

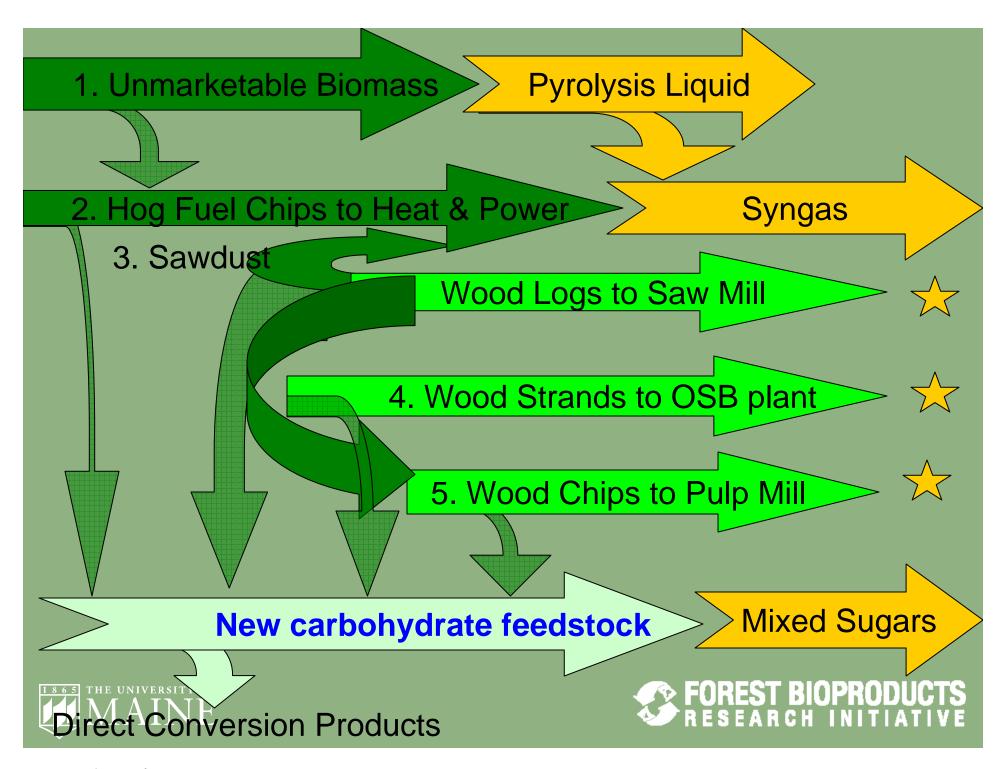


\$8.8 million

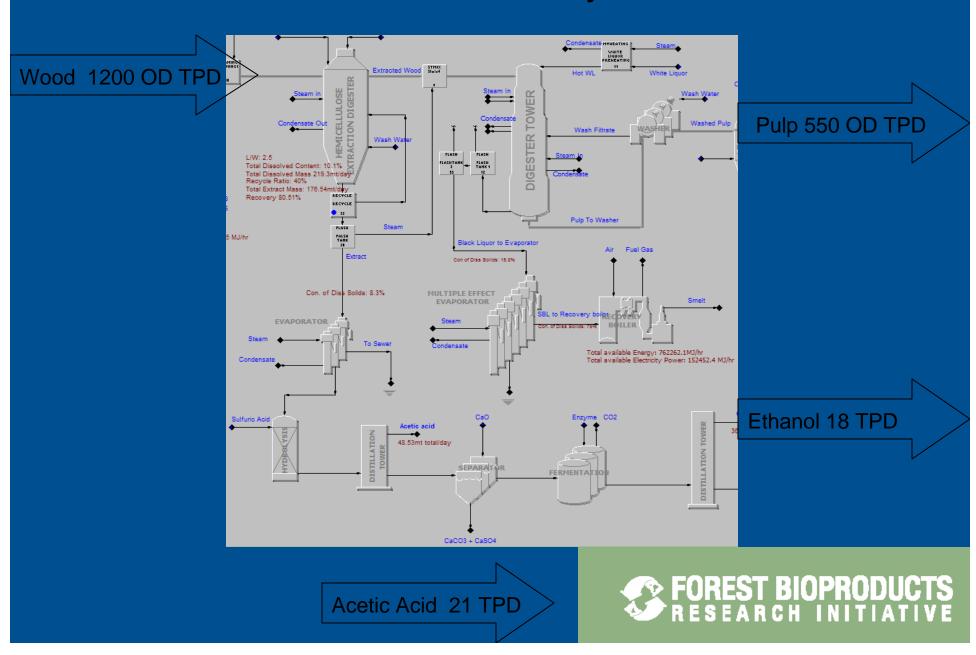


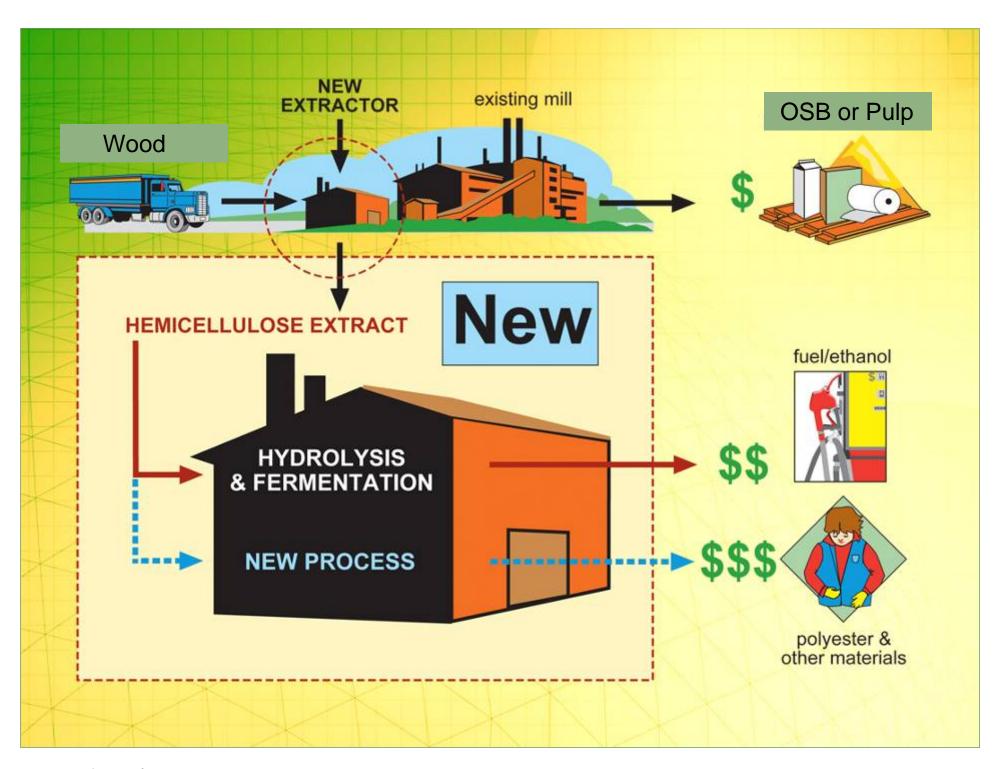
\$4.4 million





Old Town Biorefinery Model





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Create

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