



**Forest Products Laboratory  
USDA - U.S. Forest Service**



# Forest Products Laboratory

## Madison, Wisconsin

- Est. in 1910 on University of Wisconsin campus
- 200 employees – annual budget of \$16 million
- Today's research focus and outreach is on
  - Advanced Structures
  - Advanced Composites
  - Bioenergy/Biorefining
  - Small-Diameter Utilization




# State & Private Forestry

## Technology Marketing Unit

- TMU emphasis—focus on small-diameter tree and biomass utilization to improve economics of forest fuels reduction and land restoration projects
- Woody Biomass Utilization Grants program:  
[www.fpl.fs.fed.us/tmu/](http://www.fpl.fs.fed.us/tmu/)

*SmallWood 2002*

*Community and Economic Development Opportunities in Small Tree Utilization*

A photograph of several hot air balloons of various colors (red, yellow, blue, orange) floating in a blue sky with light clouds.

April 11–13, 2002  
Albuquerque Convention Center  
Albuquerque, New Mexico

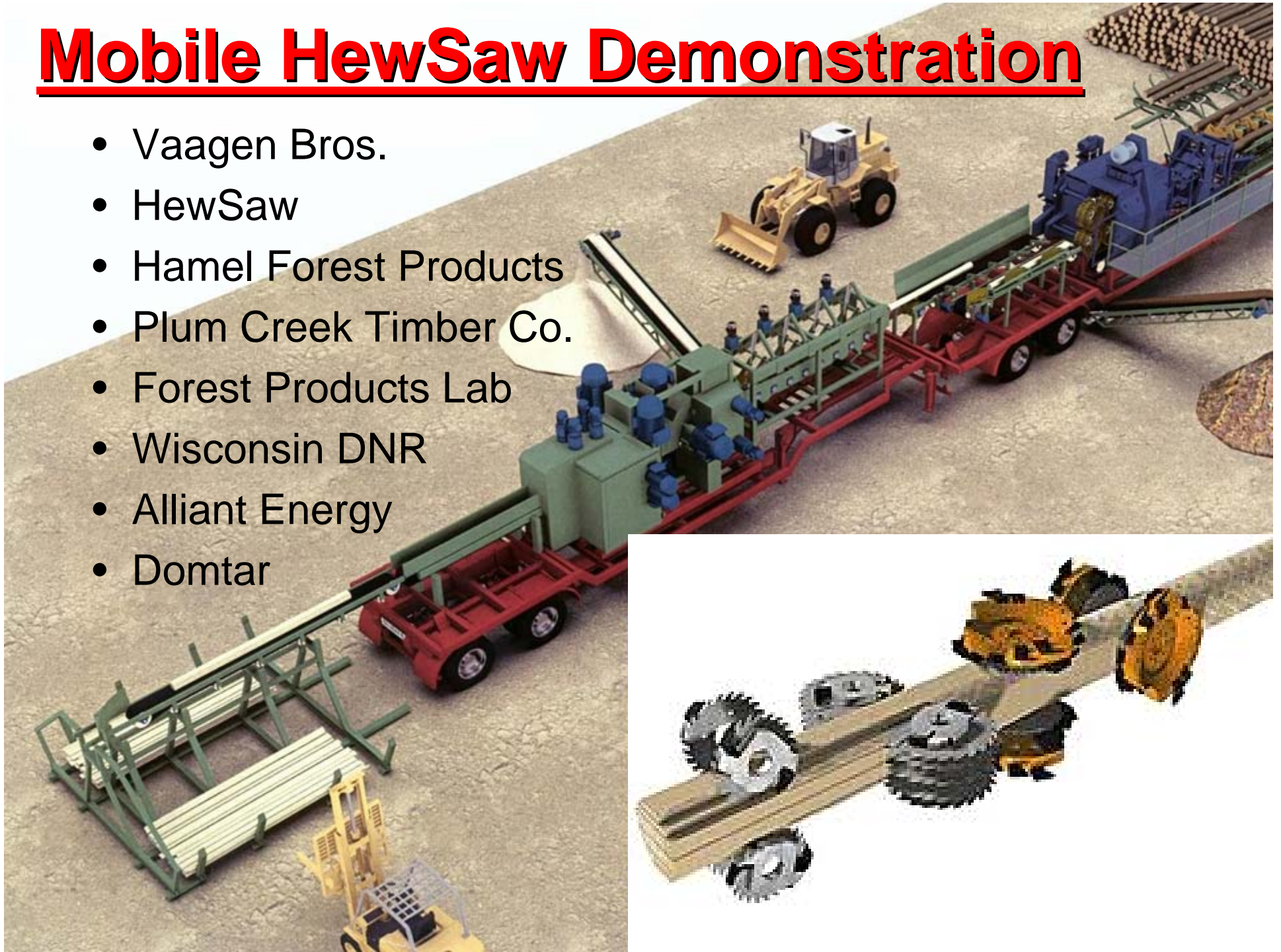
SmallWood  
2002

# Sawmill Technical Assistance

- Small log processing
- Lumber size control
- BOF sawing simulation
- Hardwood grade sawing
- Lumber recovery & grade yield
- Log Sort Yards
- Preliminary Feasibility Analysis (UW-SP)
- Website: <http://www.fpl.fs.fed.us/tmu/>

# Mobile HewSaw Demonstration

- Vaagen Bros.
- HewSaw
- Hamel Forest Products
- Plum Creek Timber Co.
- Forest Products Lab
- Wisconsin DNR
- Alliant Energy
- Domtar



# Critical Factors for Success

- Resource supply—what & how much is available?
- Products—what can you make from the resource?
- Markets—can you sell those products?
- Processing—what is the appropriate technology?
- Management—do you have what it takes?
- Financial—can you make money doing this?
- Environmental, health, safety—concerns?

(Adopted from “Harmony of a Project,” Gene Davis, International Resources Unlimited)