



The Enhanced FRI, Informing Better Business Decisions

*(Knowing your fibre resource for
decision-making)*



Forest Ecosystem Science Co-op Workshop
"Squeezing value from trees"

Sault Ste. Marie, On
November 1, 2011

Forest Industry Perspectives Workshops

- Announced Sept. 29, 2005 as part of the response to the recommendations from the Minister's Council on Forest Sector Competitiveness
- Two workshops hosted by Tembec and the Forest Research Partnership
- Intended to provide MNR with forest industry perspectives on the enhanced Forest Resources Inventory Program
- Boreal Session – Thunder Bay Nov 2005
- G.L/S.L. Session – CEC Mattawa Jan 2006
- The workshops produced 'attribute' spreadsheets that recorded detailed discussion amongst various workshop breakout groups

Industry Representatives

Boreal Forest

- Abitibi, Bowater, Domtar, Grant Forest Products, Hearst Forest Management, Neenah Paper, Tembec, Timiskaming Forest Alliance, and Weyerhaeuser

Great Lakes/St. Lawrence Forest

- Ottawa Valley Forestry, Algonquin Forestry Authority, Nipissing Forest Resource Management, Westwind Forest Stewardship, Bancroft-Minden, and Mazinaw-Lanark

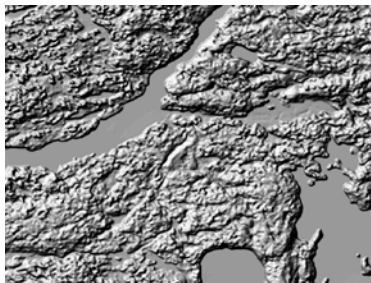
Industry Partners

- R&B Cormier Inc., KBM, M7/Visual Intelligence, MITIG, NRCan/CFS, MNR Southern Science & Information Section, and Forestry Research Partnership

Industry Perspective – Needs & Technology

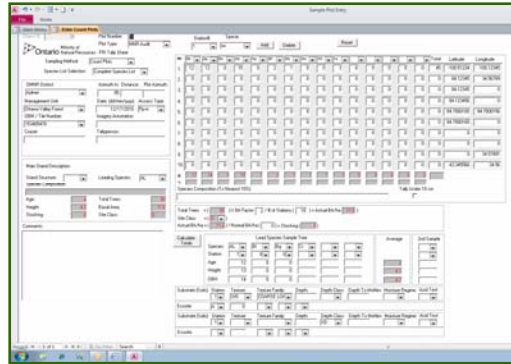
Improve the accuracy of base features including;

- Digital Elevation Model: one meter vertical accuracy
- Spatial Data: one meter horizontal accuracy



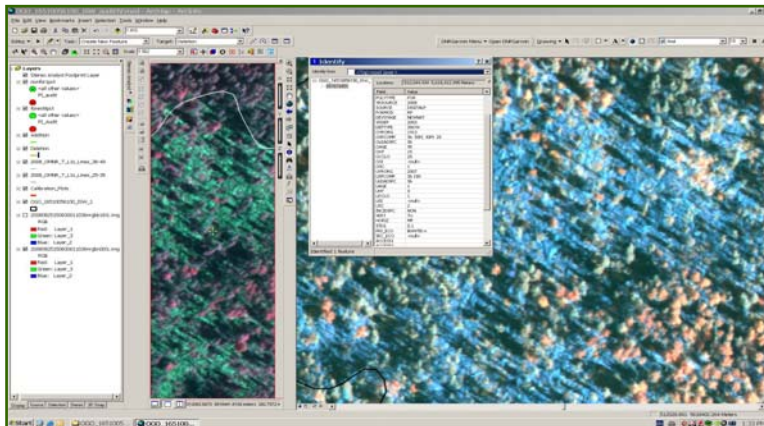
Industry Perspective – Needs & Technology

- Establish procedure for field validation and “truthing”
- Define precision and accuracy for each attribute



Industry Perspective – Needs & Technology

- Establish procedures for incorporating silvicultural activities into the inventory capture cycle (i.e. ftg, depletions, silviculture records)



Industry Perspective – Needs & Technology

- Promote technology automation and ultimately produce an individual tree inventory
- Differentiate products and value (saw logs, pulpwood, veneer)



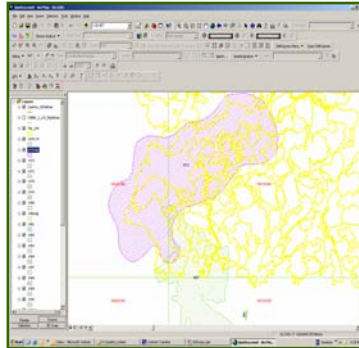
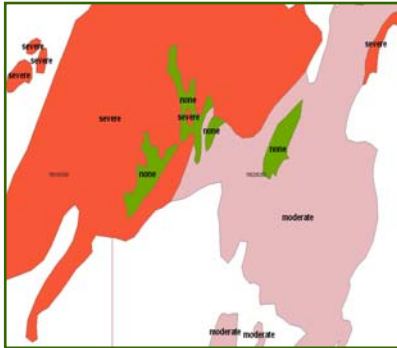
Industry Perspective – Needs & Technology

- Quantify forest structure such as vertical structure, horizontal structure, and downed woody debris

Attribute	Value
POLYTYPE	FOR
SOURCE	DIGITALP
YRSOURCE	2007
FORMOD	RP
STKG	0
DEVSTAGE	FTGNAT
YRDEP	0
INCIDSPC	Ab
VERT	TT
HORIZ	DC
ACCESS1	
ACCESS2	
MGMT CON1	ROCK
MGMT CON2	NGNE
ULEADSPC	5b
OAGE	75
DAGE	19
DHT	70
OCCLD	2
OSI	2
DSC	2
UAGE	30
UHT	8
UCCLD	20
USI	1
USC	11

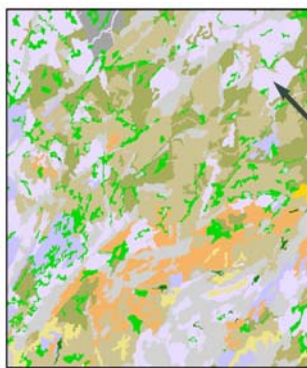
Industry Perspective – Needs & Technology

- Assess forest health and vigor such as budworm, blow down, and other disturbances

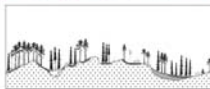


Industry Perspective – Needs & Technology

- Provide basic components with which more complex coded attributes, such as ecosite, can be derived



Ecosite 12 - Jack Pine



Ecosite:
12 - Black Spruce Jack Pine
Very Shallow Soil

FRI Description:
Pj 100%
Site Class 2
Barren & Scattered

Forest Unit:
PJSha - Jack Pine Shallow Soil



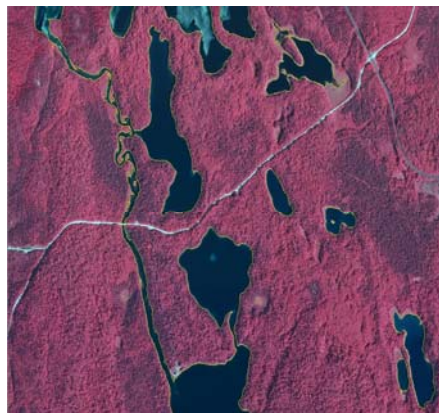
Industry Perspective – Needs & Technology

- Advanced technology; spatially accurate, high resolution, multi-spectral digital imagery
- Enhanced traditional interpretation; use the technology - softcopy, digital imagery, digital elevation models



Industry Perspective – Risk Management

- Certain aspects of automation work are now showing successful results (i.e. base features; roads, water, predictive drainage)



Industry Perspective – Evolution

- Need to continue on the Research and Development path with new technology

