
Legacy Forest

**A Place to Develop
Knowledge**



Forest Management Must....

- Provide a secure, stable and known supply of wood fibre
- Provide “Room to Grow”
- Provide Ecologically Healthy Forests

Our management must....

- Demonstrate Accountability
- Instill Public Confidence
- Permit Certification
- Maintain or improve costs and productivity

How do we get there from here?

- Solid Principles
- Objectives
- Information/Data
- Knowledge and Tools
- Innovation
- Patience

Focus Areas

- Biodiversity & Landscape Level Management
- Silviculture/ Intensive Forest Management
- Forest Resource Inventory
- Wildlife Habitat Supply
- Operating Methods & Issues
- Water Quality

Biodiversity & Landscape Level Management

- Spatial Modeling
- Biodiversity Assessment
- Forest Edge / Disturbance emulation
- Forest Succession
- Residual Stand Structure
- Criteria & Indicators

Silviculture / Intensive Forest Management

- Intensive Forest Management/Silviculture
- Thresholds
- Silviculture effectiveness
- Mixed Wood Management
- Tree Improvement
- Growth and Yield

Forest Resource Inventory

- Global Positioning Systems
- Remote Sensing
- Growth Models & Yield Curves
- Continuous Forest Inventory Strategy
- Carbon Balance - Climate Change

Wildlife Habitat Supply

- Habitat Supply Models
- Research based habitat requirements
- Effectiveness of Habitat Management
- Strategic approach to determining which species.
- Specific species research.

Operating Methods, Issues & Opportunities

- Riparian Zone Management/Operations
- Utilization
- Training & Technology Transfer
- Debris Management
- Unutilized Fibre - Birch
- Quality and value.
- Other products

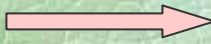
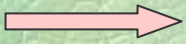
Challenges

- Knowledge Transfer
- Roles and Responsibilities
- Process Grid Lock
- Communications/Public Relations

Knowledge Transfer

Research must be turned into
Knowledge
and
Knowledge into Practice.

Process Grid Lock

- R&D  Knowledge  Practice
- To get into practice needs to be in an FMP
- To be in an FMP needs to be in a Guideline or OMNR approved.
- Guidelines are only reviewed once every five years and takes longer to approve.
- Once we have ten year FMPs how do we improve practice.
- Under this system how does change/innovation happen?

Roles and Responsibilities

- Many organizations and institutions
- Competition for dollars
- No coordination
- Turf protection and Egos
- No common basis for comparative work

What is the Legacy Forest?

- A Foundation for Long-term Multi-discipline Research Related to the Sustainability of Intensive Forest Management
- A place where we can start to define what a forest is and does it change when we manage it more intensely.

The Landbase - over 1.4 million ha

Atikokan



**Quetico
Provincial
Park**

**Dog River-
Matawin
Forest**

Thunder Bay

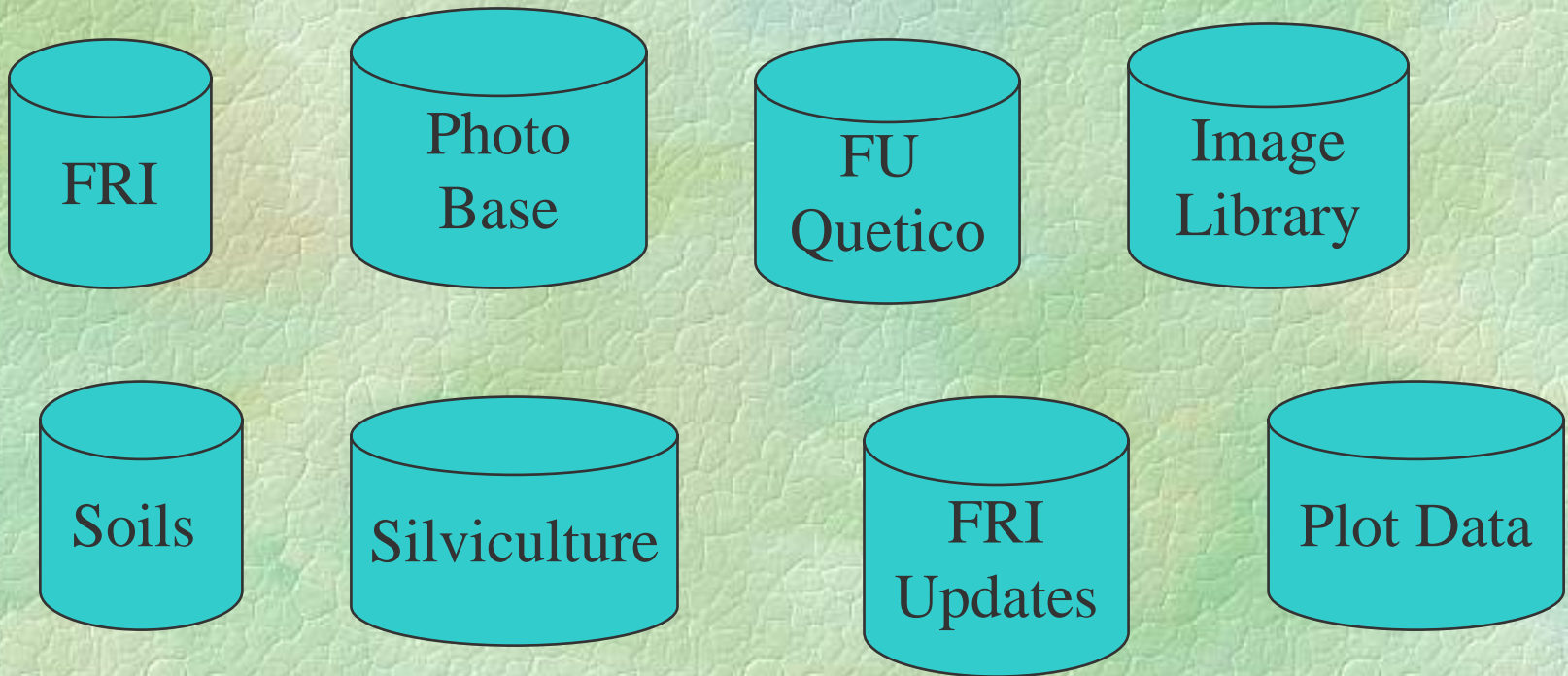


Legacy Forest Partners

- Bowater
- Lakehead University
- Living Legacy Trust
- Federation of Ontario Naturalists
- Canadian Forest Service
- Ontario Ministry of Natural Resources
 - Northwest Science and Information
 - CNFER (Centre for Northern Forest Ecosystem Research)
 - Ontario Parks
- Quetico Centre
- Quetico Foundation

Information Warehouse

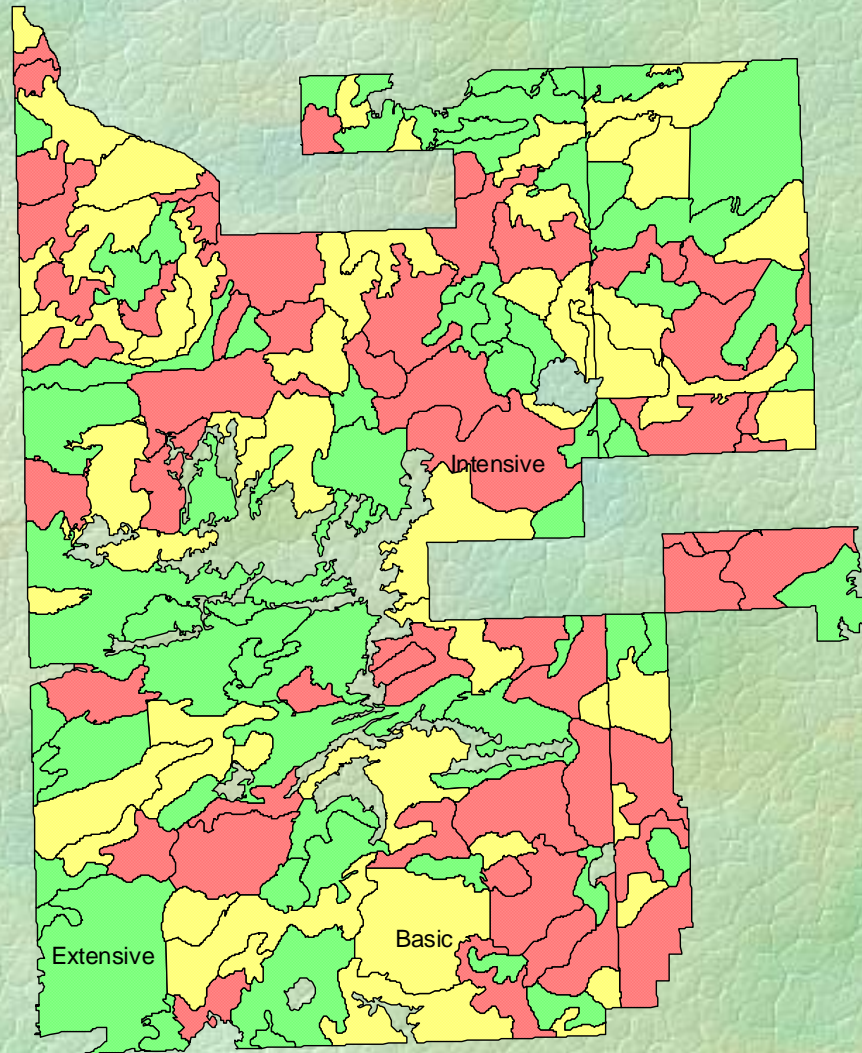
- The warehouse is built



Stratification

- Ontario Land Inventory (OLI) polygons were selected.
- Analysis of WG/OLI combination
- Silviculture history
- Silviculture portfolios
- Allowed for replication and study
- Assignment of portfolios

Preliminary Stratification



Legacy Forest

- Consistent information base
- Landscape level threshold evaluation
- Knowledge building
- Reduced cost of R&D
- Allow us to ask what we don't know.
- Knowledge Transfer

- Think Differently
- Hold to the Plan
- Identify our limits
- Bridge those limits
- Continually grow and improve.
- It will never be perfect

We can get “THERE”