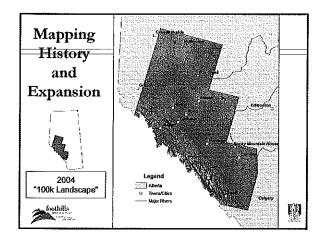
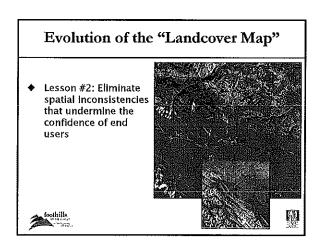


The Need for Accurate and Consistent Multi-Jurisdiction Information The Alberta Vegetation Inventory is the current standard of environmental information in the province's productive forested lands Several different sources Several different versions Inconsistent quality Incomplete coverage Difficult to obtain! National Parks, First Nations reserves, private lands, and other protected areas not covered Total March 2000 AVI Status March 2000 AVI Stat



Cuesson #1: Avoid expensive 'one-off' efforts that are inflexible and incapable of change Do not over—simplify a complex phenomenon Control of the "Landcover Map" Lesson #1: Avoid expensive 'one-off' efforts that are inflexible and incapable of change Do not over—simplify a complex phenomenon Control of the "Landcover Map" Lesson #1: Avoid expensive 'one-off' efforts that are inflexible and incapable of change Control of the "Landcover Map" Lesson #1: Avoid expensive 'one-off' efforts that are inflexible and incapable of change Control of the "Landcover Map" Lesson #1: Avoid expensive 'one-off' efforts that are inflexible and incapable of change Control of the "Landcover Map" Lesson #1: Avoid expensive 'one-off' efforts that are inflexible and incapable of change Control of the "Landcover Map" Control of



Evolution of the "Landcover Map"

Lesson #3: Reduce dependence on nonphysical variables that may not be logical, consistent, or reproducible











Mapping Objectives

- A series of physically-based products that do not over simplify a complex phenomenon
 - Landcover, vegetation structure, phenology, and change
- A flexible information source that is capable of addressing a variety of management objectives
 - · Where possible, produce 'high-level' data products composed of continuous variables that can be recoded and combined to meet the individual manager's needs
- High-quality information that places a premium on consistency
 - Elimination of noise, seam lines, and other inconsistencies

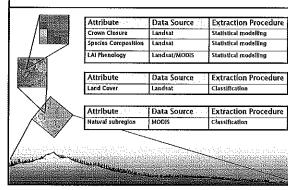


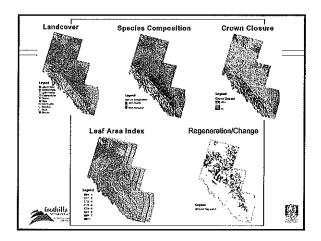
constructed should be enduring"

John Wesley Powell



A Process-Based Approach to Mapping





Land Cover Categorical classification of broad 'stand-level' information classes Overall accuracy 92%

Crown Closure

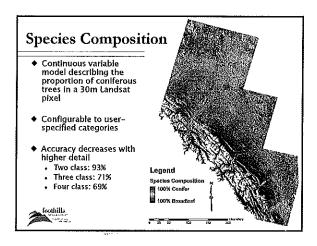
- Continuous variable model of the percentage of ground covered by tree crowns
- Configurable to user specified categories
- Accuracy decreases with higher detail

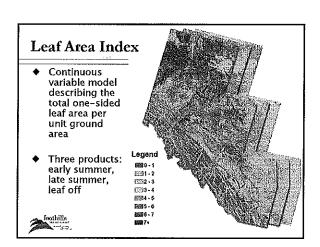
 Two class: 91%

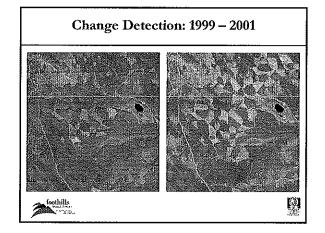
 - Three class: 62%
 - Four class: 52%

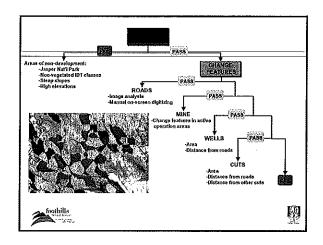


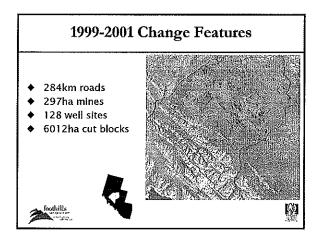


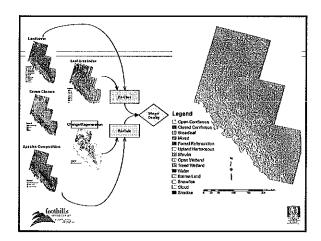


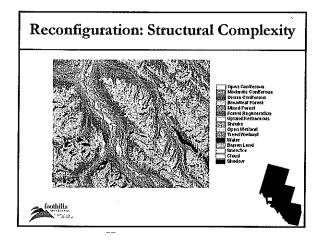


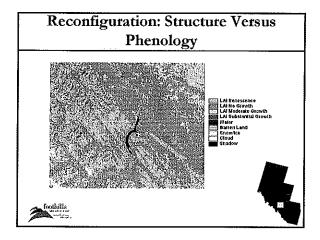


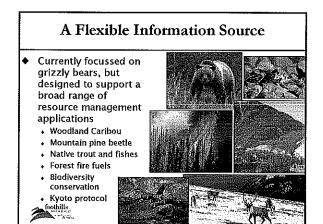












Remote Sensing Team Responsibilities Mapping Expansion – 2004-2009 Goal: All the grizzly bear range in Alberta mapped by 2009

Current Research Activities							
*	Efficient methods fo change detection/m product updates	-					
*	Remote sensing/modelling methods for determining forest and cutover age	(V-0		<i>3</i> .			
*	Assessing new products and technology						