



Forestry's Role in World Business Council for Sustainable Development Vision 2050

Bob Ewing Western Forest Economists Meeting May 5, 2009







- World Business Council on Sustainable Development (WBCSD) Vision 2050
- Forests / Forestry Role
- Framework for Valuation













2050 Process

Pathways



Vision Elements

Resources, Energy and Environment



People and Values

Economy



Inclusive economy Green economy Sound financial system









- Forests comprise 30% of world land area
 - 84% publicly owned
- Forest area has declined by 225 million hectares since 1980 – contributing 17% of global CO₂



Forest Area



Forest Products & Services

cts	Industrial Round Wood Production 2010 2050					
	Forest Biomass – Energy Production			0050		
	2010			2050		
	Fuel Wood Production					
Recreation and Aesthetics						
Carbon Sequestration						
Soil and Water Conservation, Hydrology						
Resiliency						
PRIMARY	Μ	ODIFIED	PLANTE)		
ORESTS	N	ATURAL	PRODUCTI	VE		
	F	ORESTS	FOREST	S		





Planted Productive Forests

- Shift production from modified natural forests to planted forests by:
 - Expanding planted forest area by ~70 million hectares
 - Increasing management intensity to double planted forest yields by 2050

Planted Forest 3.0 Vision 2050 History 2.5 **3illion Cubic Meters** 2.0 1.5 0.5 0.0 1995 2000 2005 2010 2020 2030 2050 2040

Industrial Roundwood Harvest by Forest Type

Modified Natural Forest





Forest carbon sequestration

- Forests can fix 1.1 trillion tons of carbon
 - Avoided deforestation
 - Restoring degraded areas
 - Managing for carbon





Next Steps



2050 – Soft launch in October, 2009



World Business Council for Sustainable Development

Mission Statement

Our mission is to provide business leadership as a catalyst for change toward sustainable development, and to support the business license to operate, innovate and grow in a world increasingly shaped by sustainable development issues

The World Business Council for Sustainable Development (WBCSD) is a CEO-led, global association of some 200 companies dealing exclusively with business and sustainable development



Ecological Footprint



- Natural capital accounting in biophysical units – global hectares
- Area of land and water required to produce resources
- $I = P \times A \times T$
- Complement to an economic perspective



- Forest values are derived from product prices
 - Rent as limiting factor of production
- Discounted cash flows with interest







- Putting a price on nature what are people willing to pay?
- Forming markets and clarifying property rights

Human population and industrial economy footprint

В	io	S	p	h	e	re	
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	Price of CO ₂ (Dollars)
Afforestation	
Management	
Biofuels	



- Operating an economy within ecological constraints
- Wealth is real and physical
- Laws of thermodynamics are primary





Forests as Solutions



- Global "stresses" open the door for forestry
- Emergence of new clients and partners
- Monetizing products, services and "ecosystem states"
- What valuation methods are appropriate?

