

Anchor Forests



Intertribal Timber Council
Gary S. Morishima

San Diego, CA
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America's Forests Are In Trouble



DEFINE
"DEEP
DOO-DOO"...

Insects and Disease



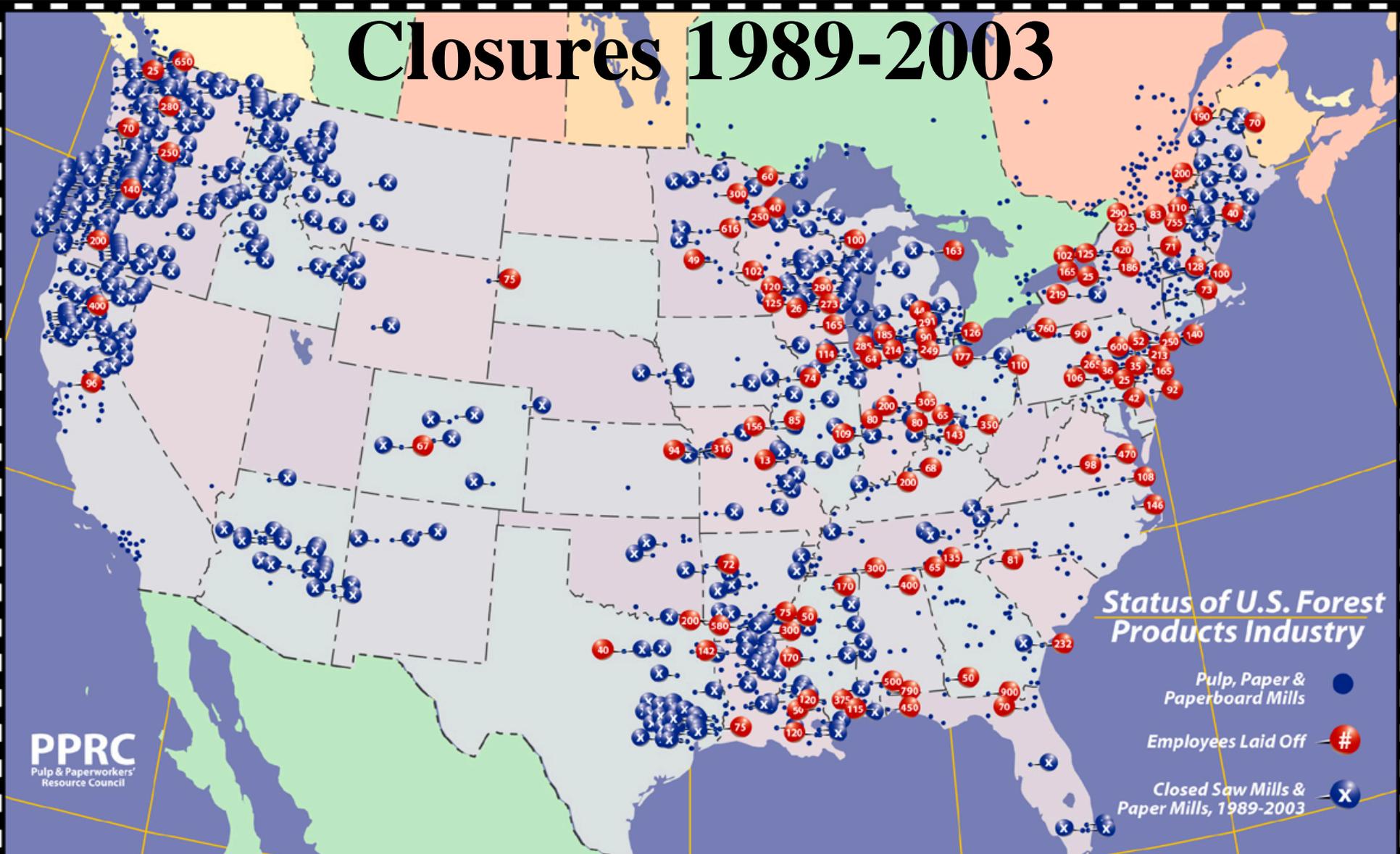
Wildfire



Forest Product Markets



Wood Processing Facility Closures 1989-2003



Job Loss – Forestry Source

Jan 2012

**Absolute full time job losses since 2005 in all wood sectors
(294,000 jobs lost)**



State of Emergency

- Depressed timber-dependent communities
- Forests at risk of loss from wildfire, insects, and disease
- Ecological functions in jeopardy
- Land ownership in flux
- Harvesting, transportation, processing, and management infrastructure rapidly disappearing

Univ of Washington Study

Infrastructure Consequences of Lost Forest Production
from Forest Land Conversion

Over next 3 decades, reduction in WA
forest lands. Compared to 2008 Baseline,

(153MMBF by 2045)

(1038 MMBF by 2080)



**~75% of projected 2080 mill
supply (1402 MMBF)**

WA not Alone

- Since 1978, 20-25% private forest has changed ownership
- 50% of industry-owned private forestland has changed hands since 1996. 20% more in the next ten years.
- USDA estimates 1 million acres/year of forestland converted.
- 44.2 million acres (11% of commercial forestland) will be used for housing developments in the next 30 years.

• Status of Community Based Forestry in the United States.

• U.S. Endowment for Forestry & Communities 2008

Consequences

Higher costs of production



Mills less competitive



More forests converted to other uses

Retention of Forest Lands?

We've Been "Pixelized"

- Confined to property ownership boundaries
- Isolation, fragmentation, compartmentalization
- Amenities gained or lost
- How to keep from falling off the landscape?



Anchor Forests

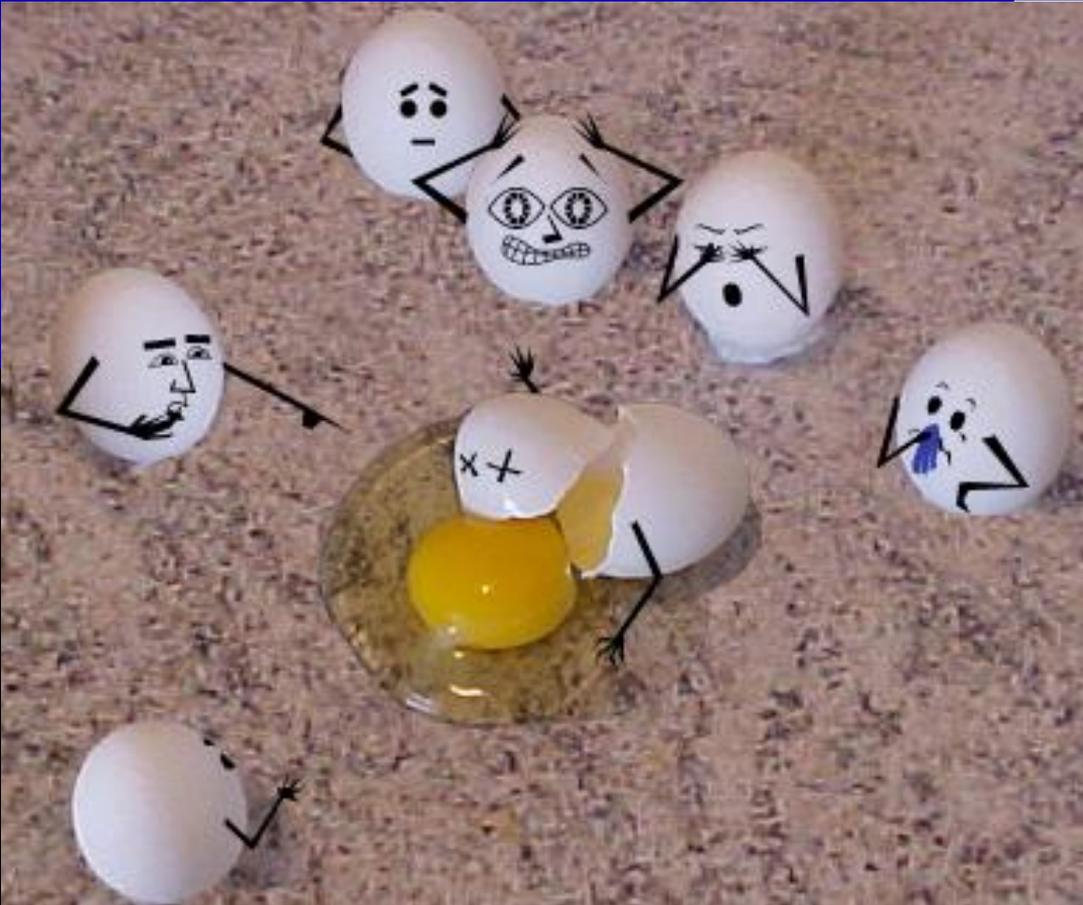
Structure & discipline - evaluate against desired outcomes on the landscape

- Use the right tools, in the right places, at the right times
- Efficiency & Effectiveness

Stove-piped thinking,
lack integration



Hard To Fix





**“How
would you
like your
forests?”**

A photograph of a pine forest with snow on the ground and the word "Green?" overlaid in white text. The forest consists of tall, slender pine trees with green needles. The ground is covered in patches of snow and low-lying vegetation. The sky is clear and blue.

Green?

A photograph of a forest with tall, thin trees and a ground covered in dry grass and fallen leaves. The word "Black?" is overlaid in white text.

Black?



Or Gone?

Call for Action

- **Tribal Community**
 - Intertribal Timber Council
 - National Congress of American Indians
 - Affiliated Tribes of Northwest Indians
- **National Association of State Foresters**
- **Western Governor's Association**

The BIG question

HOW can healthy forests be
sustained and management
coordinated across the landscape?



Anchor Forests



Anchor Forests



Key Questions

- **WHY** do we want healthy forests on the landscape?
 - Economic Contributions
 - Environmental Benefits
- **WHAT** do we need?
 - Viable harvesting, transportation, processing, and workforce infrastructure
 - Coordinated management across landscape

Concept: Use Anchor Forests To:

- Retain healthy, working forests on the landscape
- Develop and implement strategies to support manufacturing, processing, transportation, and management work force infrastructure;
- Restore, maintain, and enhance forest health, ecosystem functions and services; and
- Preserve options to contend with future uncertainties in forest land tenure and climate change.

What Are Anchor Forests?

Large areas of land, expected to remain in forest production

- A reasonable expectation for sustained wood commodity production as a major management objective; and
- Production levels sufficient to support economically viable manufacturing, processing, and work force infrastructure within accessible transportation range; and
- Long-term management plans, supported by inventory systems, professional staff, and geographic information systems; and
- Institutional and operational capacity for implementation.

ECONOMIC: Role of Anchor Forests

Landscape view of anchor forests provides regional expectations of reliable supply

- Needs and opportunities for private investment
 - Modernization
 - New, e.g., Bioenergy

Potential efficiencies

- Sharing information & expertise

ENVIRONMENTAL: Role of Anchor Forests

- **What environmental services can we expect from anchor forests?**
 - Scientific analysis
- **Evaluate what other forests could contribute within the context of the landscape**
 - Outcome-driven assessment of potential contributions to support desired ecosystem functions

What Lands are Suitable For Anchor Forests?

- National Forests?
- Industrial Forests?
- Non-Industrial Forests?
- Washington State Department of Natural Resources?
- Tribal Forests?

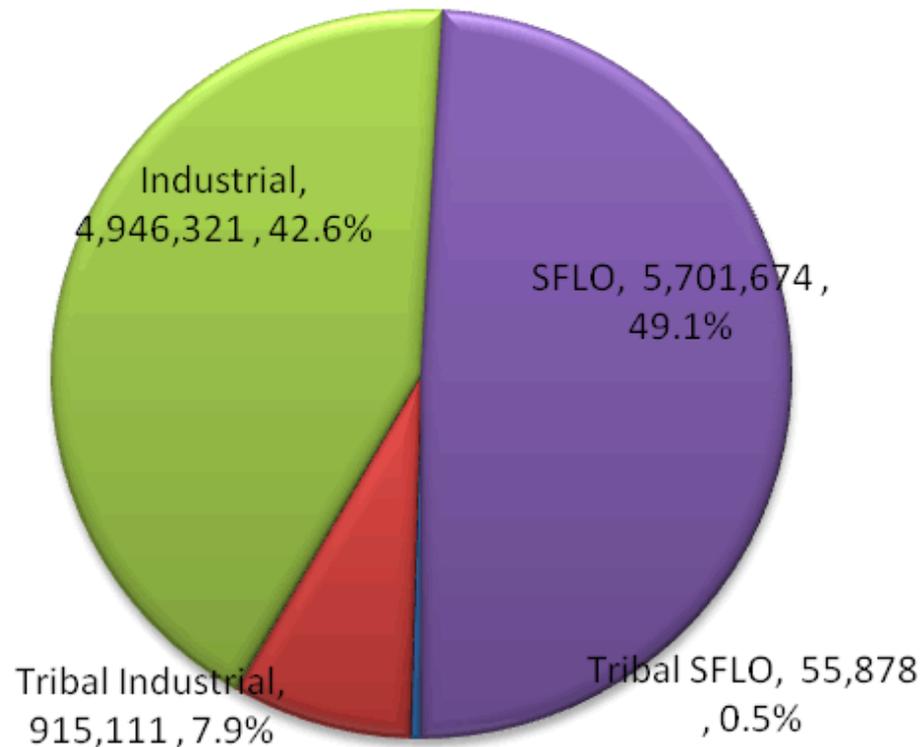
National Forests

- Largest permanent forest land base
- Management for the "Greatest Good"
 - Focus on wildfire, water, and other amenities
 - Many administrative requirements, laws, rules, and regulations
- Maintain forest health
- Budgets for forest management diminishing
- Commodity production "iffy"



From Rural Technology Initiative

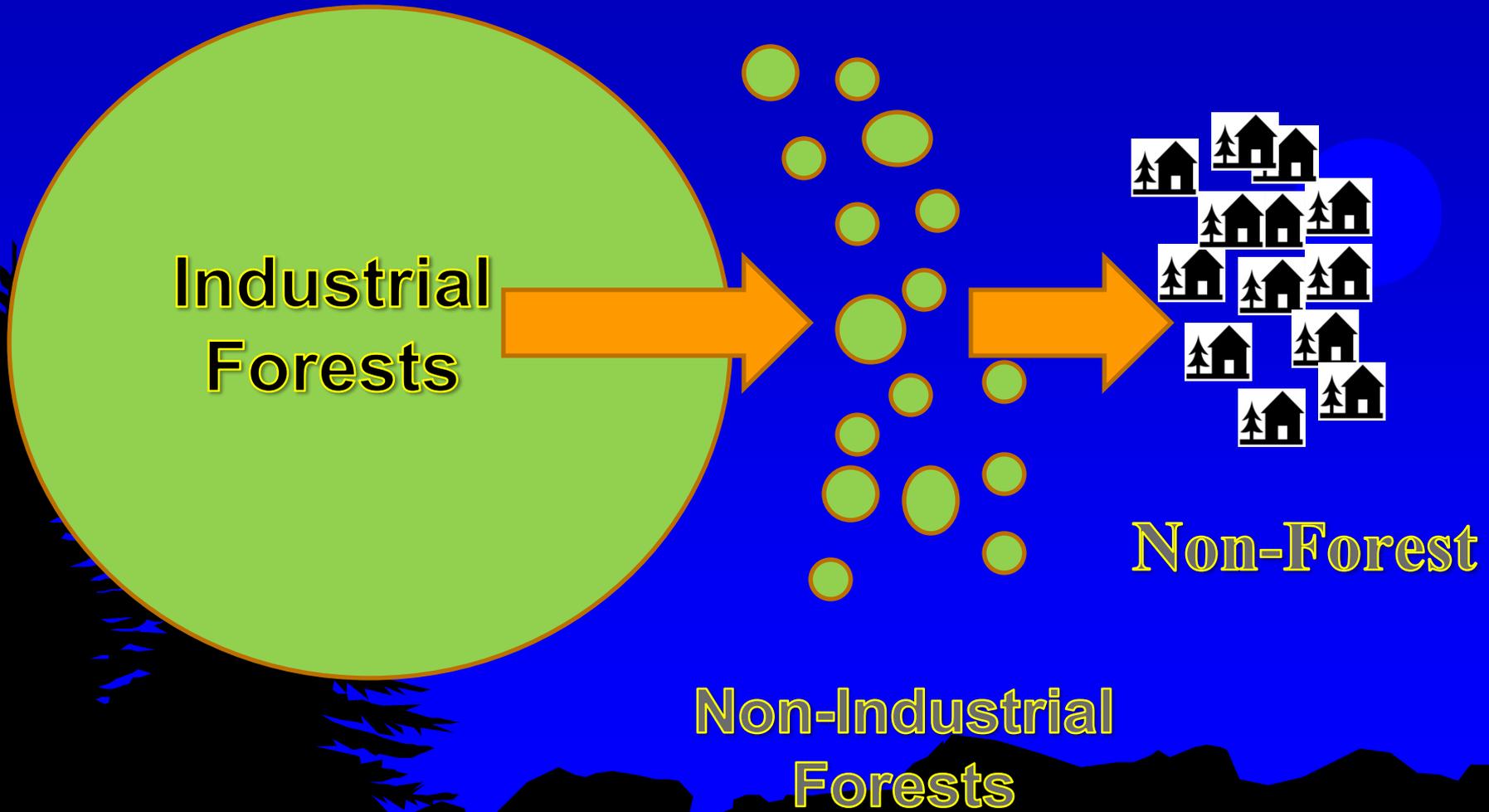
Washington State Private Forestland Ownership Acres by Management Type



Industrial Forest Lands?

- Suitable as anchor forests?
- Uncertain tenure as forestlands
- Ownership becoming increasingly dominated by TIMOs & REITs
 - Short-term time horizons
 - Tenuous commitment to stewardship and communities
 - Driven by ROI
 - Low ROIs suggest increasing pressure to convert to non-forest uses

Forest Land Tenure



Non-Industrial Lands?

- **Small ownerships**
 - Fragmented, by definition
- **Diverse objectives – Tied to Self identity, lifestyle**
 - Commitment to long-term stewardship?
 - Management capacity?
 - Coordination?
 - Predictability?
 - Intergenerational continuity?

WDNR Trust Lands

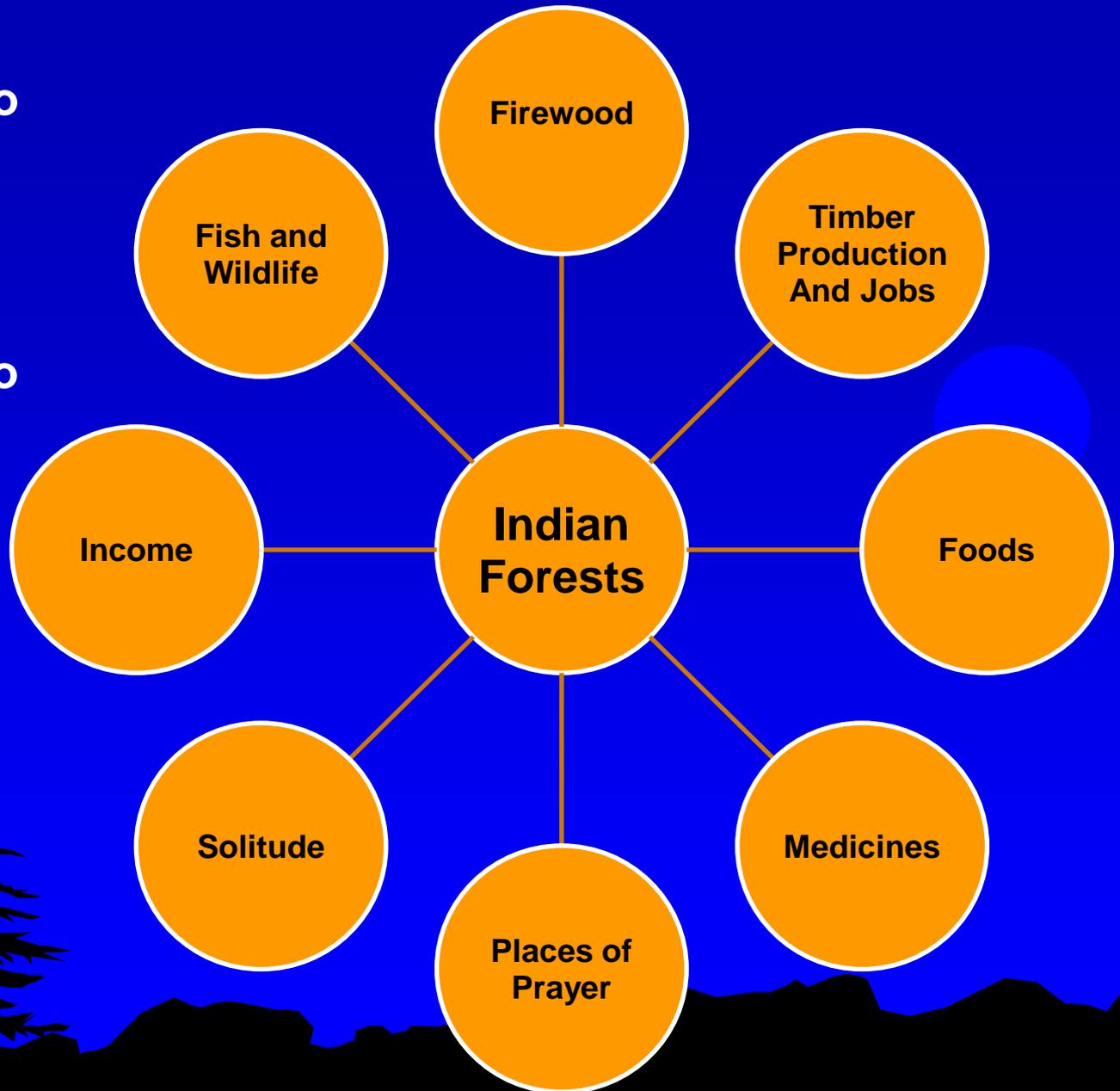
- Income for schools and other beneficiaries
- Recreational opportunities
- Habitat for fish & wildlife (e.g., ESA requirements)
- Management capacity affected by timber receipts

Tribal Forests

- **Permanent land base, strong stewardship commitment**
 - For today & 7 generations from now
 - Responsibility to decide
- **Respect the land by caring for it**
 - Multiple use, focus on ecosystems, not just forests
- **Vertically integrated operations**
- **Income supports tribal government (jobs, economy, services)**

What do Tribal Forests mean to the people?

A sense of responsibility to care for the forest as stewards



Two ways of thinking and knowing

<i>Traditional Knowledge (TK)</i>	<i>Scientific Ecological Knowledge (SEK)</i>
Abstract	Concrete
Qualitative	Quantitative
Inclusive	Exclusive
Intuitive	Intellectual
Holistic	Reductionist
Spiritual (social values)	Clinical ("value free")
Co-existence	Control
Diachronic (long time series, place oriented)	Synchronic (short time series, broad generalities)
People are part of nature (reciprocity)	People apart from nature (competition)
Communal Knowledge Based on insights collected by practitioners (transferred generation to generation)	Individual Knowledge Data collected by specialists/researchers (shared by publication)

Tribal Forests

- Respect \neq Neglect
- Care \approx “Manage”
- Use, not abuse



Tribal Stewardship provides ecosystem services

- Clean Air & Water
- Species Habitats
- Carbon Storage
- And more...
- A Sense of Who We Are



A close-up photograph of a lush green wheat field. The wheat stalks are densely packed and show signs of ripening. A single, vibrant red poppy flower is in full bloom, standing out prominently against the sea of green. The lighting is bright, creating a high-contrast scene.

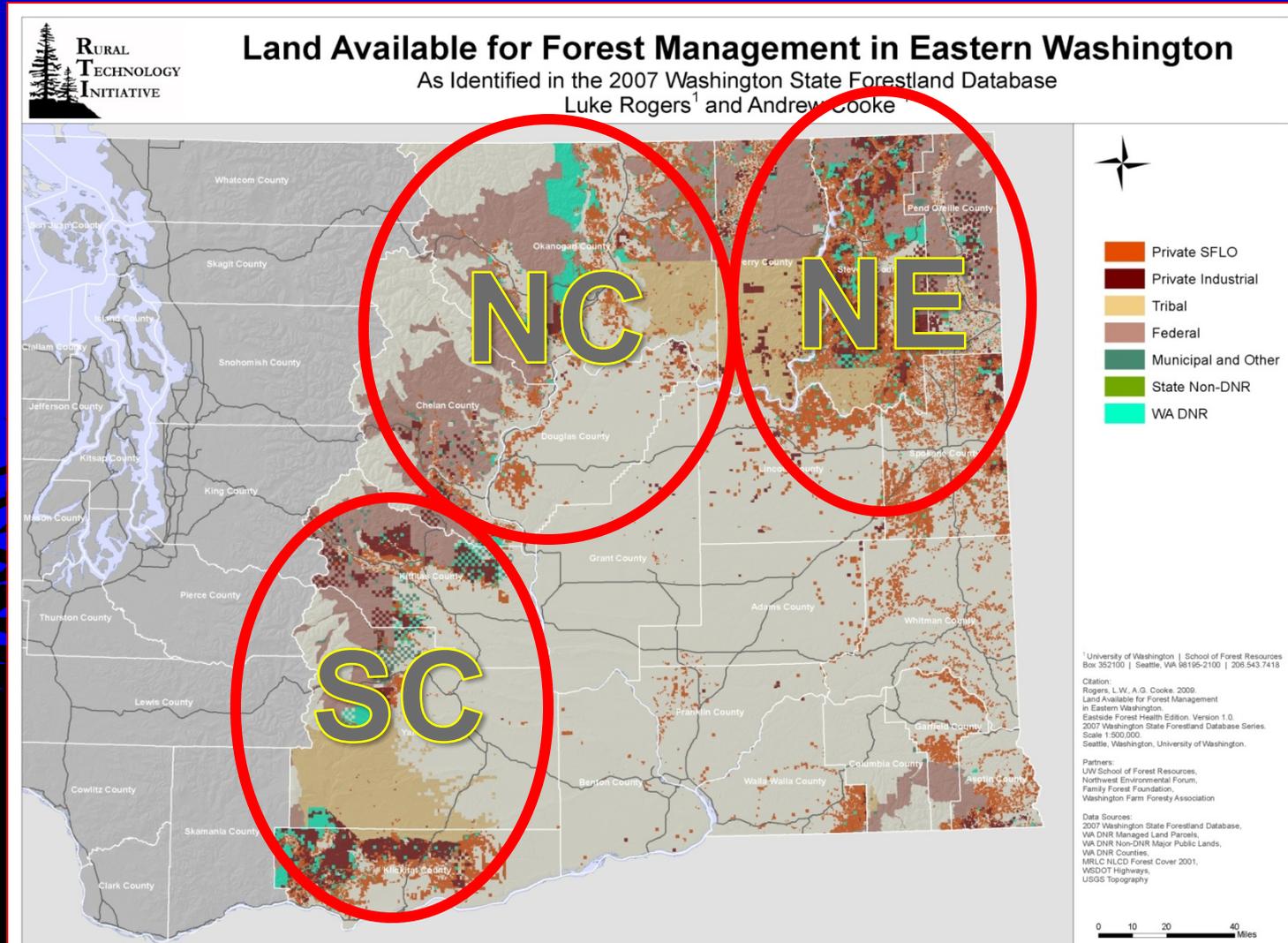
Tribes and Their Forests Stand Out

Is Anyone Else Out There?



Applied Regionally

Capable of sustaining combined annual harvest of ~100 =200 MMBF. Most likely a combination of Tribal, WDNR Trust, and NFS Lands



Approaches For Retaining Forests

- **Lots of agencies & programs**
 - Information & Assistance
 - Improve economics (timber & non-timber)
 - Incentivize forest retention & stewardship
 - Easements, covenants, PES
 - Reform counterproductive policies & subsidies
 - Regulation & pricing
 - **Adequate authorities for industrial forests?**
- **Resources are limited and efforts lack focus**

Role of Anchor Forests

Evaluate utility of linking private forest land with
Anchor Forests – Not all forest lands are equal

- Infrastructure
- Restore, maintain, and enhance forest health, ecosystem functions and services; and
- Preserve options to contend with future uncertainties in forest land tenure and climate change.

Landscape-scale analysis - monitor outcomes

~~E³A T²~~

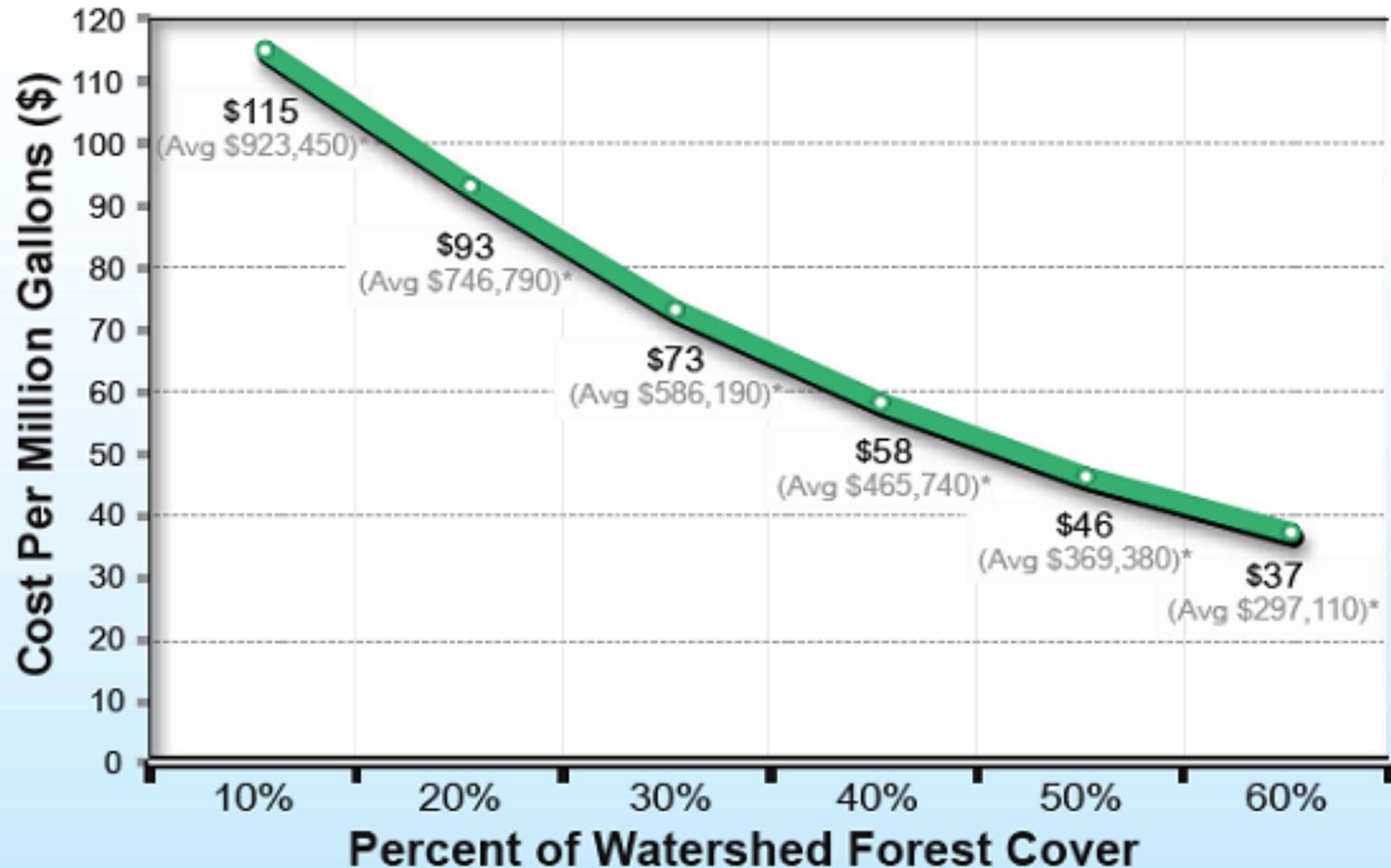
- Not all forest lands are equal
- Can't expect “**E**verything for **E**verybody, **E**verywhere, **A**ll **T**he **T**ime”
- Context for evaluating the potential contributions of private forest lands to advance landscape-scale objectives

USFS Landscape Planning For Water in the East and Midwest

- Evaluate physical and biological factors to produce an index of the ability to produce clean water
- Estimate consumers served by surface water supplies
- Identify critical watersheds with a high percentage of unprotected private forest lands
- Identify greatest development pressures

Opportunity for Win-Win

Relationship Between Forest Cover and Water Treatment Costs



*Average treatment costs are based on a per plant per year average of 8,030 million gallons.

Source: Ernst et al. 2004

Anchor Forests Can Help

Identify needs for public investments (added value)

- Avoid or reduce costs (water, air, soils, energy)
- Support rural communities & maintain infrastructure
- Provide amenities & ecosystem services

Evaluate opportunities for acquisition of forest lands

Provide expertise and assistance to private land owners

Anchor Forests & Community Forestry

- Stakeholder dialogue, know the land, resources, politics
- Determine values to manage for (vision)
- Identify problems & opportunities
- Identify and evaluation options
 - Western science & traditional knowledge bridge
- Craft solutions, actions, & responsibilities (strategy)
- Mount the resources for implementation

Other Potential Contributions of Anchor Forests

- **Forestry Cooperatives**
 - Share costs & income
- **“Keepers of the Land” communities**
 - Share expertise
 - Engender sense of belonging and purpose
 - Political influence
 - Communication

Application of Anchor Forests is a Social Process of Collaboration

C⁴ = **C**ommunication, **C**onnectivity, **C**oordination, **C**ontinuity

Examples:

- Tapash Sustainable Forests Collaborative (SC WA)
- Colville Collaborative (NE WA)
- Lake County Resources Initiative (OR)
- Conservation Transactions
 - Plum Creek-TNC-TPL (MT)
 - Finch Paper (NY)

Lessons Learned – Collaborative, “Community-Based Forestry”

- Established economic infrastructure
- Candid, constructive, and respectful dialogue among stakeholders
- Focus on strategies, visions, and objectives
- Minimize temptations for micro management

Institutional Considerations

Improve Potential For Success

- **Stakeholder involvement (ground up)**
- **Multi-disciplinary science support**
- **Independent facilitation**
- **Communication**
 - Articulate needs & visions
 - Share experience, practical know-how, & lessons
 - Effect changes in policy & law

Anchor Forests



Effectuate natural resource
management across the landscape

Potential strategy to implement Secretary
Vilsack's "All Lands, All Hands" Vision



Transform vision and concepts
into actionable strategies

Anchor Forests Anchor



Development & maintenance of infrastructure

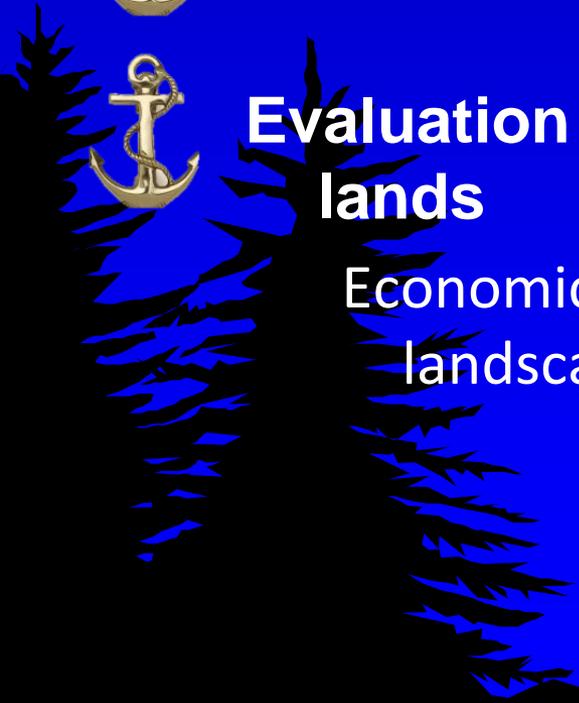


Ecosystem functions



Evaluation of potential contributions of other lands

Economic & Ecosystem benefits dependent on
landscape-scale processes & functions



ENVIRONMENTAL DRUTHERS

Failure of Existing Market Systems

“\$45 billion in protected areas across the world could yield services like carbon sequestration, protection of water sources and protection against flooding worth \$5 trillion annually.”

“We cannot continue our stewardship of this planet if we keep looking at public benefits and public wealth as somehow subordinate to private wealth”

Pavan Sukhdev, United Nations Environment Program

“The Economics of Ecosystems and Biodiversity”

Look Into the Future

Log & lumber markets are changing

**Find New Ways to Generate Revenues to
Maintain Forest Health**

ITC Branding & Marketing Study



**TOM
TOLES**

Are We

View Branding and Marketing as a component of a **broader Tribal strategy**

- **Educate and Inform the public**
- **Increase tribal presence & influence**
- **Maintain & restore vital ecological processes**
- **Cultural and societal continuity**

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AND SEE, IT'S NOT AS
GREAT AS EVERYBODY SAID —

Beyond Logs



Beyond the Res

**Fish, Wildlife, Plants, and Places
that have been vital to tribal
cultures, economies, and lifeways
are disappearing**



IFMAT III

Special emphasis areas

- Infrastructure assessment
- Total Values and Benefits



FS Region 6 Project

- ITC study – focused on Eastern Washington
- Yakama Nation has the need



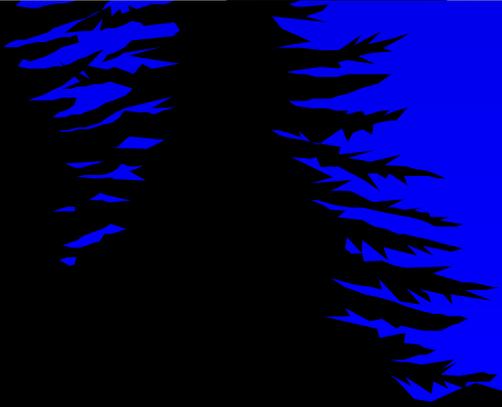
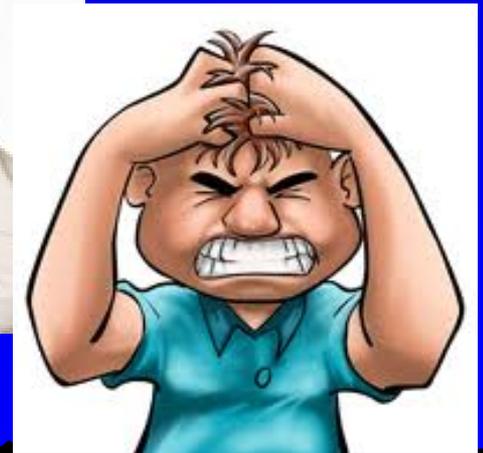
Bystander



"Hey, it's not
my problem"



Frustrated Witness



Helpless Victim?



Or Leader?



At A Crossroads



A photograph of a dense forest with tall, thin trees and a thick undergrowth of green plants. The scene is misty, with sunlight filtering through the trees, creating a soft, ethereal atmosphere. The text is overlaid in the upper center of the image.

**Anchor Forests:
More Than a Bunch of Trees**

They Involve Places



And Communities



And Values Held Dear



Anchor Forests

Useful concept for advancing the development and implementation of an actionable strategy for retaining healthy, working forests on the landscape?

What do you think?

