



**BC Ministry of Forests Lands and  
Natural Resource Operations**

***Forest Stewardship Action Plan  
for  
Climate Change Adaptation***

**Future Forest Ecosystems Scientific Council  
Closing Conference**

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Competitiveness and Innovation Branch





# Today

## Forest Stewardship Action Plan for Climate Change Adaptation

1. Genesis
2. MFLNRO's adaptation commitment
3. How do FSAP actions relate to FFESC recommendations? (Examples)
4. What's Next



# 1. Genesis: Background and Context

## Forest Stewardship Action Plan for Climate Change Adaptation

### BC's [Adaptation Strategy](#) (MOE)

- Build knowledge and skills to prepare
- Make adaptation part of Gov't business
- Assess risks: implement priority actions

### FSAP uses early results

#### Future Forest Ecosystems Initiative

- *Ecological resilience and complexity*

#### Canadian Council of Forest Ministers - Climate Change Task Force

- *Vulnerability of Canada's Tree Species*



***What are management options for adaptation?***

***What are the Opportunities?***

# Forest Stewardship Action Plan for Climate Change Adaptation

## Target: *Resilient* Forests

Aims to:

- reduce risks, capture opportunities
- improve the ability of BC forests to withstand the full amplitude of climate change and variability.



Congruent with Forest Sector Strategy

- Links to many initiatives

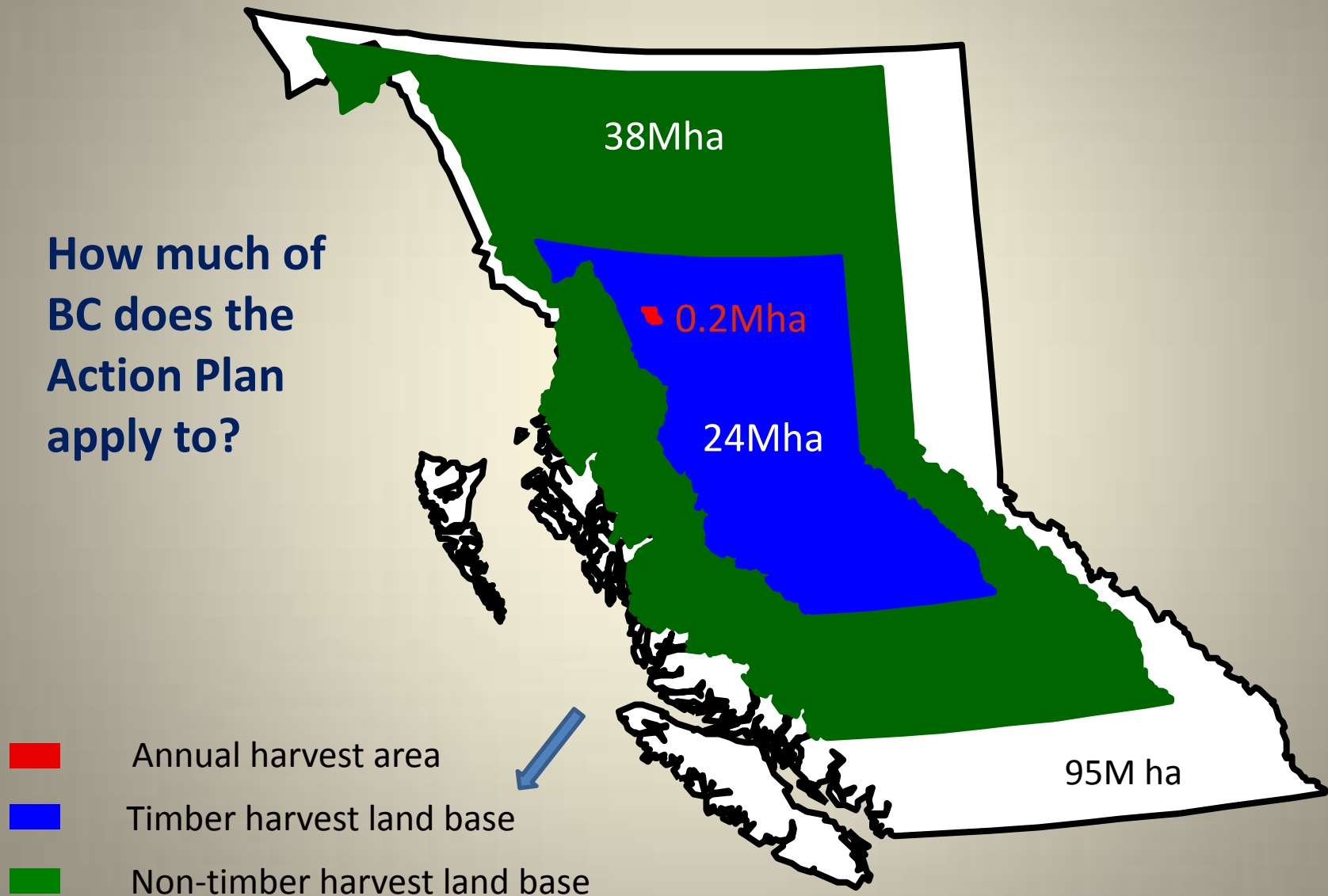
Adaptation is necessary to succeed with government priorities

- (e.g. mid term timber supply, cumulative effects, carbon)



# Forest Stewardship Action Plan for Climate Change Adaptation

How much of  
BC does the  
Action Plan  
apply to?



## 2. MFLNRO's Adaptation Commitment

### Forest Stewardship Action Plan for Climate Change Adaptation

#### Vision

BC's forests provide a **broad suite of goods and services** that benefit society now and in a changing climate.

#### Management Goal

- *By 2017, BC's forest management policy framework fully accounts for a changing climate.*

#### Intent

- Set an agenda now for resilient forests
- Phase in over 5 to 20 years



# Forest Stewardship Action Plan for Climate Change Adaptation

- Sets out goals, objectives and MFLNRO actions
- Modular framework
- Build as we go



## Goals and Objectives

### Three Goals:

### Objectives:

#### Goal 1

FOSTER RESILIENT FORESTS

- ANTICIPATE AND MANAGE FOR A CHANGING CLIMATE
- MAINTAIN AND ENHANCE DIVERSITY

#### Goal 2:

MAINTAIN FUTURE OPTIONS  
AND BENEFITS

- MANAGE AND PROTECT RESOURCES AND VALUES
- MANAGE RISKS AND CAPTURE OPPORTUNITIES

#### Goal 3

BUILD ADAPTIVE CAPACITY

- DEVELOP AND APPLY KNOWLEDGE AND TOOLS
- INCREASE EXTENSION AND COLLABORATION
- ENSURE GUIDANCE AND COORDINATION

### 3. FFESC Recommendations inform FSAP

#### Goal 1: Foster Resilient Forests

#### ANTICIPATE AND MANAGE FOR A CHANGING CLIMATE

##### FFESC Recommended:

- Develop a climate based seed transfer system
- Ensure future seed supply
- Priorities for seed collection match projections for species most suited to future conditions

##### FSAP Actions

- *Plan for and develop a climate-based seed transfer system*
- *Assisted migration adaptation trial*



# Goal 1 (cont'd): Foster Resilient Forests

## MAINTAIN AND ENHANCE DIVERSITY

### FFESC Projects Recommended:

- Promote tree species and genetic diversity at landscape and stand scales
- Establish landscape targets for species diversity



### FSAP Actions

- *Develop, communicate and implement Chief Forester policy on tree species diversity*
- *Communicate status reports on our current diversity levels*
- *Include tree species diversity objectives and forest health strategies in TSA level strategies*

# Goal 2: Maintain Future Options and Benefits

MANAGE AND PROTECT RESOURCES AND VALUES

MANAGE RISKS AND CAPTURE OPPORTUNITIES

## FFESC Projects Recommended:

- Use silviculture strategies to develop resilient forest landscapes
- Develop /update forest health strategies
- Assess projected fire hazard to focus actions on community hazards

## FSAP Actions

- *Develop TSA level silviculture strategies*
- *Strengthen the content of Forest Health Strategies*
- *Build fire-resilient landscapes*



Brent Bye



Lyle Gawalko

# Goal 3: Build Adaptive Capacity

DEVELOP AND APPLY KNOWLEDGE AND TOOLS

INCREASE EXTENSION AND COLLABORATION

ENSURE GUIDANCE AND COORDINATION

## FFESC Projects Recommended:

- Develop a webpage that provides users easy access to the relevant decision support tools
- Develop a catalogue of decision support tools
- Develop a comprehensive plan for extension and training

## FSAP Actions:

- *Chief Forester adaptation 'knowledge and tools' website*
- *Provide forest managers with science, data, methods and decision tools*
- *Climate change training for forest managers*

# Benefits & Limitations of the FSAP

## Benefits

- Helps reduce risks, enhance future productivity, and value
- Strengthens links and synergy
- Shares science and best practices: learn together

## Limitations

- Tree and forest focus
- Ambitious vs. current capacity



## 4. Next Steps



### *Implementation:*

- Chart a path to the 2017 Goal
- Initiate / continue projects that are resourced
- Seek partnerships and additional resources
- Identify ways to integrate FFESC results
  - MFLNRO Climate Change Adaptation Steering Committee
  - (Paul Knowles et al)

### *Monitoring*

### *Manage expectations*

# Contacts & Websites

## Forest Stewardship Action Plan for Climate Change Adaptation

- [Kathy.Hopkins@gov.bc.ca](mailto:Kathy.Hopkins@gov.bc.ca)
- <http://www.for.gov.bc.ca/het/climate.htm>

## Future Forest Ecosystems Scientific Council

- [Kristine.Weese@gov.bc.ca](mailto:Kristine.Weese@gov.bc.ca)
- [http://www.for.gov.bc.ca/hfp/future\\_forests/council/](http://www.for.gov.bc.ca/hfp/future_forests/council/)



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# *With Appreciation to:*

## **Executive Sponsors**

Jim Snetsinger

Dave Peterson

Tom Ethier

## **Steering Committee**

- Paul Knowles et al

## **Action Plan Team**

- Christine Fletcher
- Dave Spittlehouse
- Deb MacKillop
- Don Morgan
- Frank Barber
- James Sandland



- Kathy Hopkins (lead)
- Katharine McCallion
- Leslie McAuley
- Ralph Winter
- Rein Kahlke
- Rob Bowden

## **And:**

- Workshop participants
  - (Nanaimo, PG, Kam, Creston)
- Branch Directors and Staff



- Provincial Forestry Forum
- Minister's Practices Advisory Council
- Operational Issues Forums

**Forest Stewardship Action Plan for Climate Change Adaptation**

A photograph of a forest with tall, slender trees. Sunlight is streaming through the canopy, creating a bright starburst effect in the upper right. The forest floor is covered in green moss and ferns.

*Thank you*  
*Questions?*