

# CLIMATE ACTION, FOREST MANAGEMENT AND YOUR COMMUNITY RESILIENCE



**UBCM CONFERENCE**

SEPTEMBER 19, 2023 *VANCOUVER, BC*



Ministry of  
Forests

# OPENING REMARKS



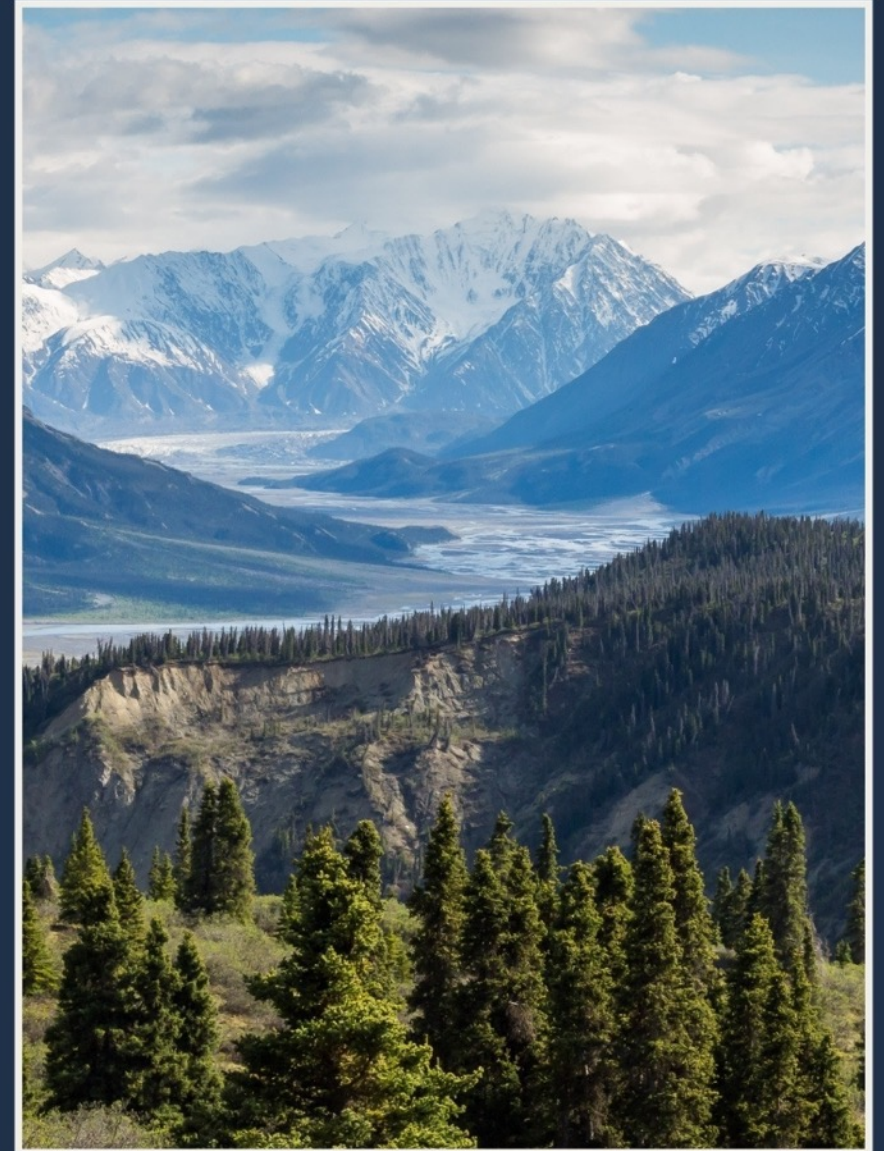
**EAMON O'DONOGHUE**

*ASSOCIATE DEPUTY MINISTER*



**SHANE BERG**

*CHIEF FORESTER  
ASSISTANT DEPUTY MINISTER*



# RESPONDING TO THE CLIMATE CRISIS IN BC'S FORESTS

**COLIN MAHONY** *PHD RPF*

Research Climatologist & Team Lead

Future Forest Ecosystems Centre

[Colin.Mahony@gov.bc.ca](mailto:Colin.Mahony@gov.bc.ca)



Area Burned  
(hectares)

1,800,000

1,500,000

1,200,000

900,000

600,000

300,000

Area Burned  
(hectares)

1920

1930

1940

1950

1960

1970

1980

1990

2000

2010

2020  
Aug-23

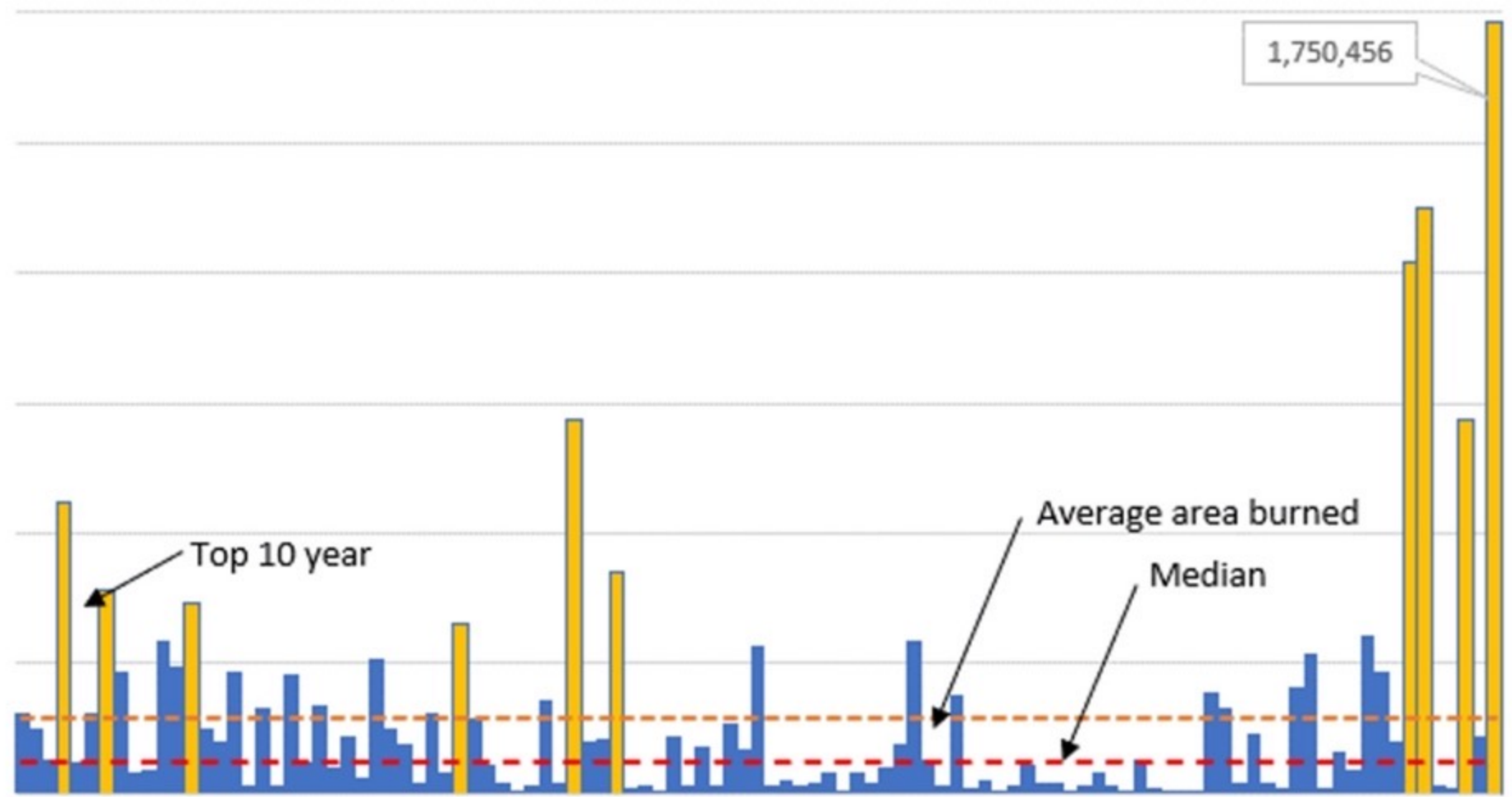
Year

1,750,456

Top 10 year

Average area burned

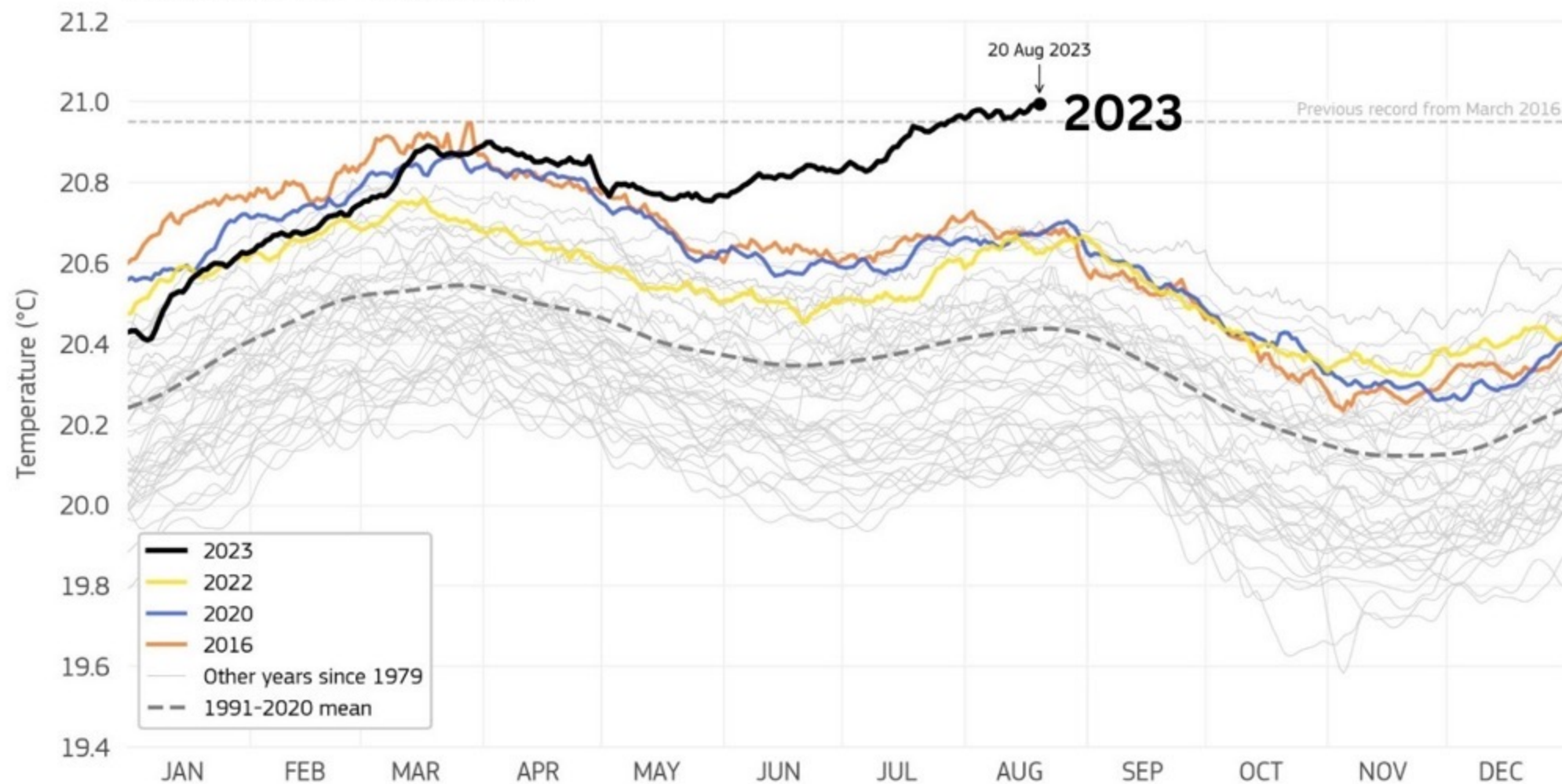
Median



# DAILY SEA SURFACE TEMPERATURE

Extrapolar global ocean (60°S–60°N)

Data: ERA5 1979–2023 • Credit: C3S/ECMWF



PROGRAMME OF  
THE EUROPEAN UNION



“We’re seeing 100% bleaching. That’s crazy. If this doesn’t wake people up, I don’t know what will.”



*Ian Enochs,  
Head of NOAA  
AOML Coral Program, Miami*



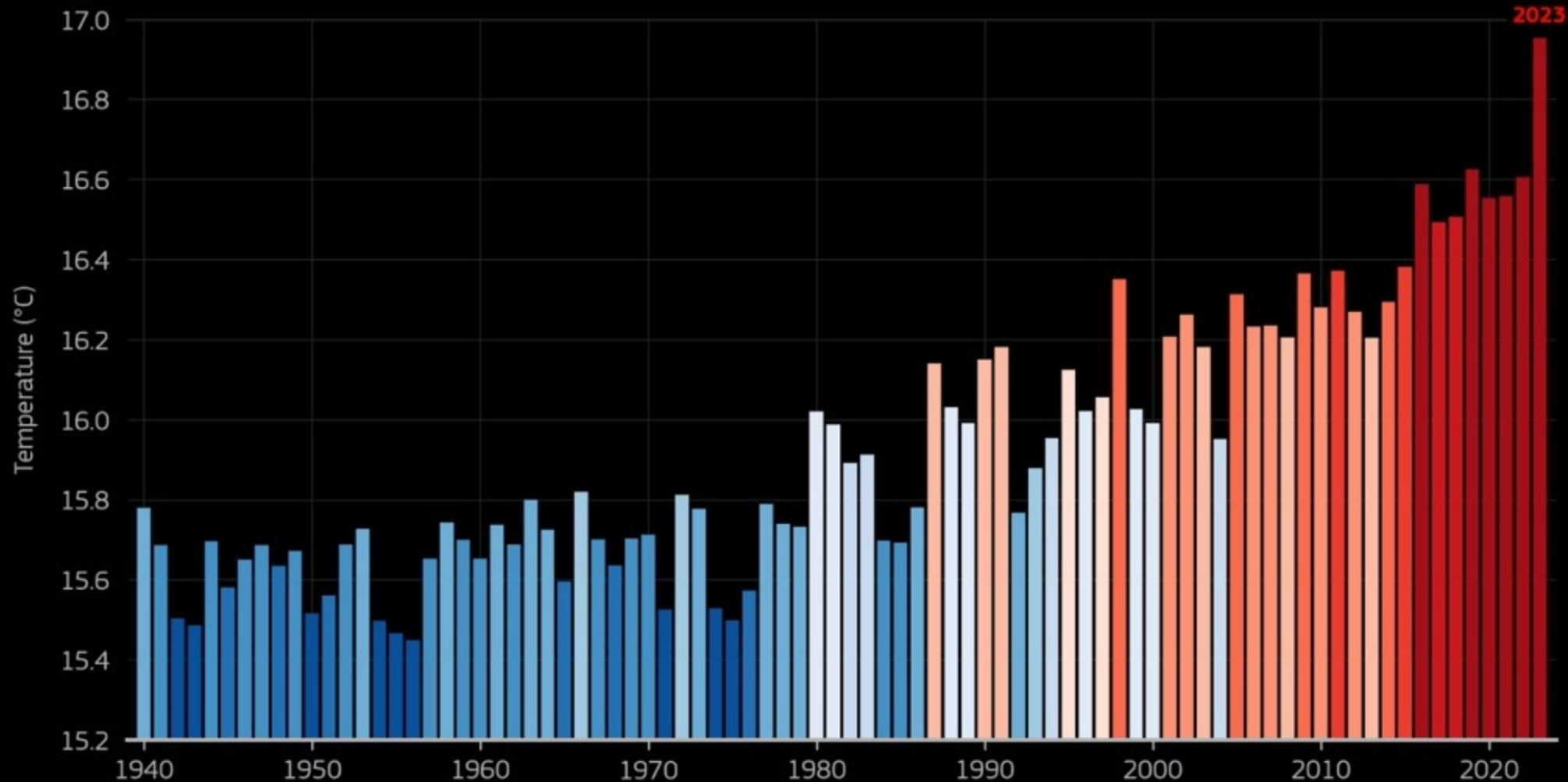
# GLOBAL SURFACE AIR TEMPERATURE • JULY

Data: ERA5 1940–2023 • Credit: C3S/ECMWF



Climate  
Change  
Service

[climate.copernicus.eu](https://climate.copernicus.eu)



PROGRAMME OF  
THE EUROPEAN UNION



IMPLEMENTED BY  
ECMWF

“I'm afraid the careless summers, as we knew them ... will cease to exist. From now on, the coming summers are likely to be ever more difficult.”

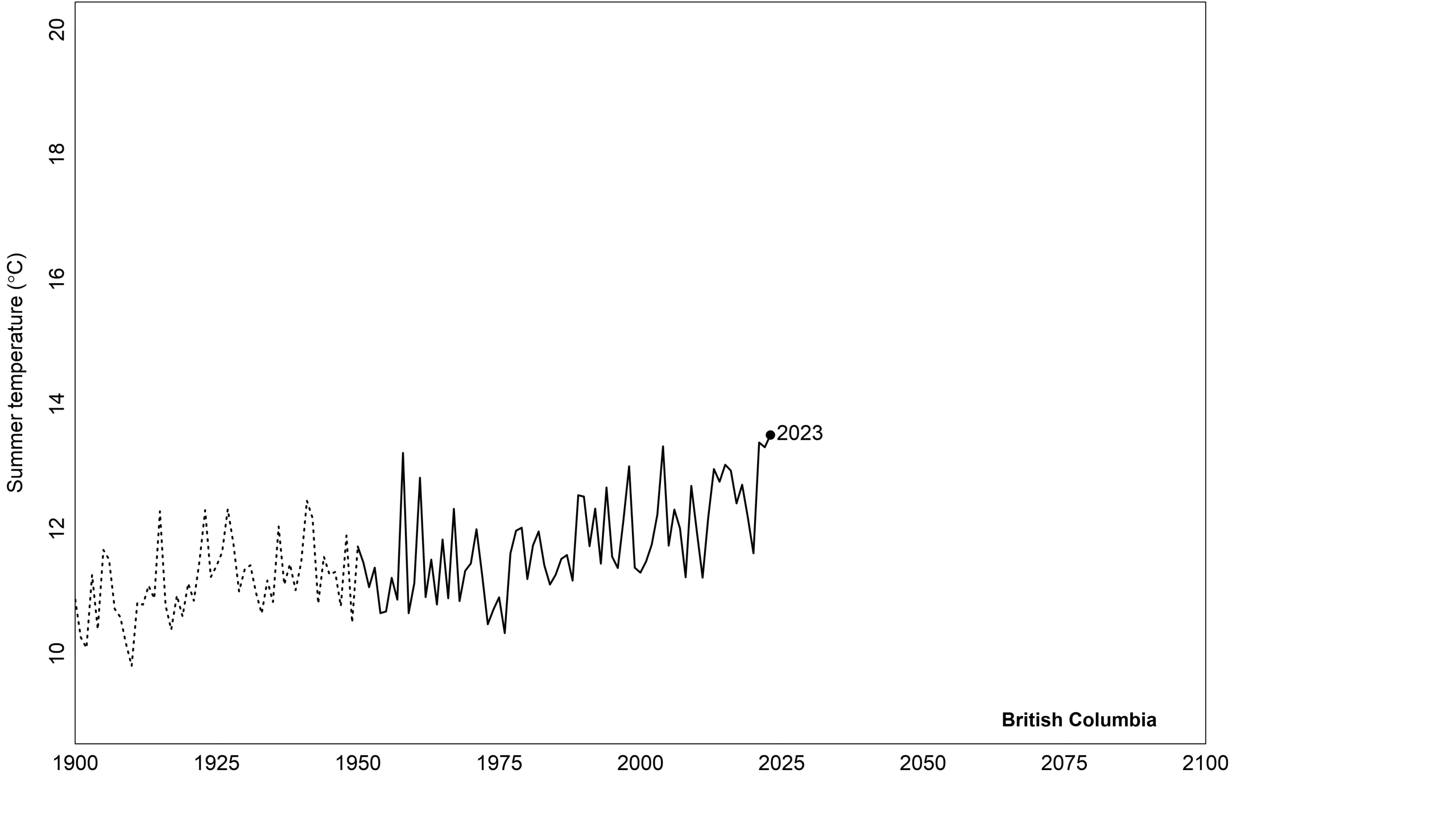


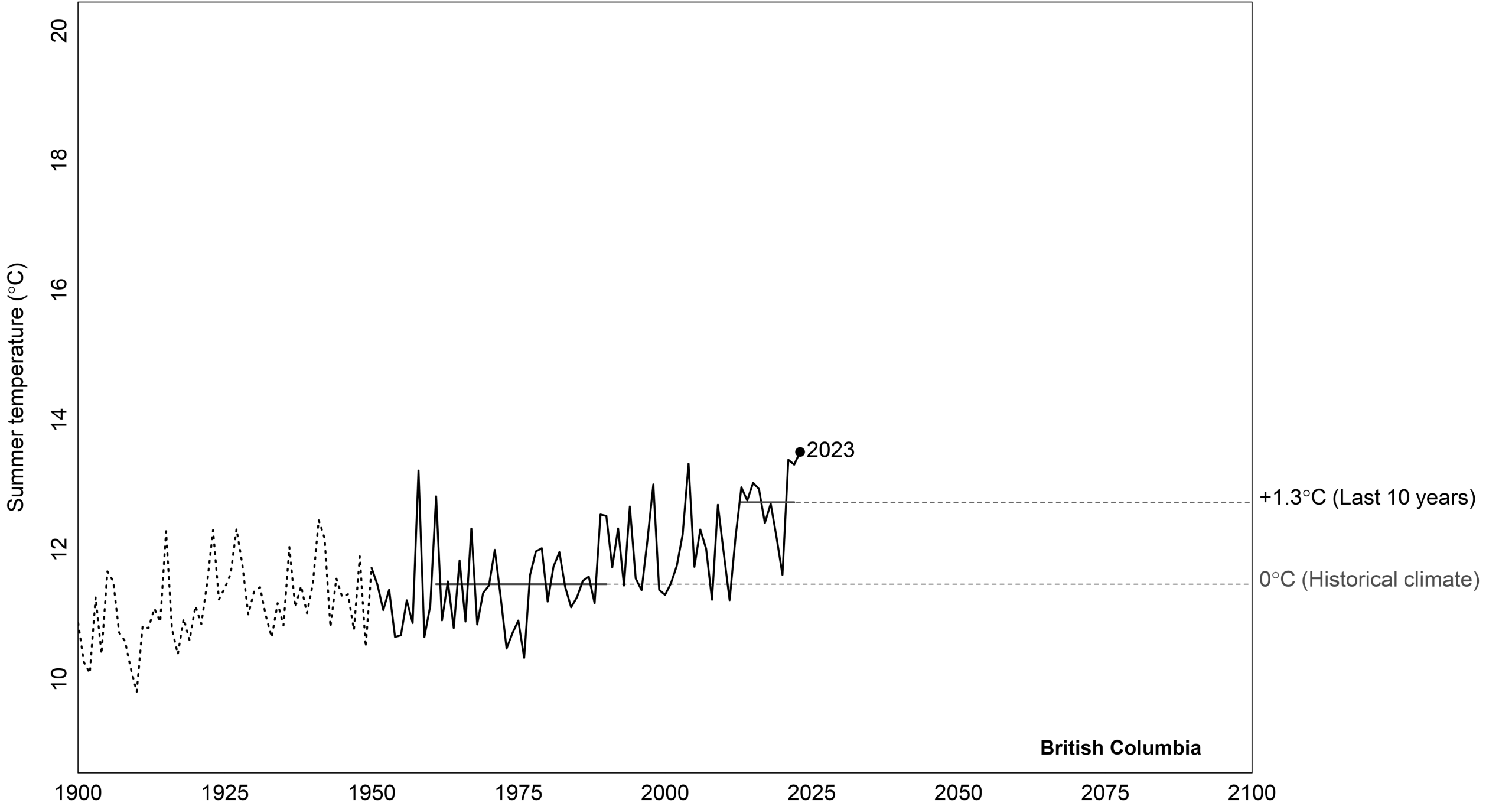
Greek Prime Minister  
Kyriakos Mitsotakis

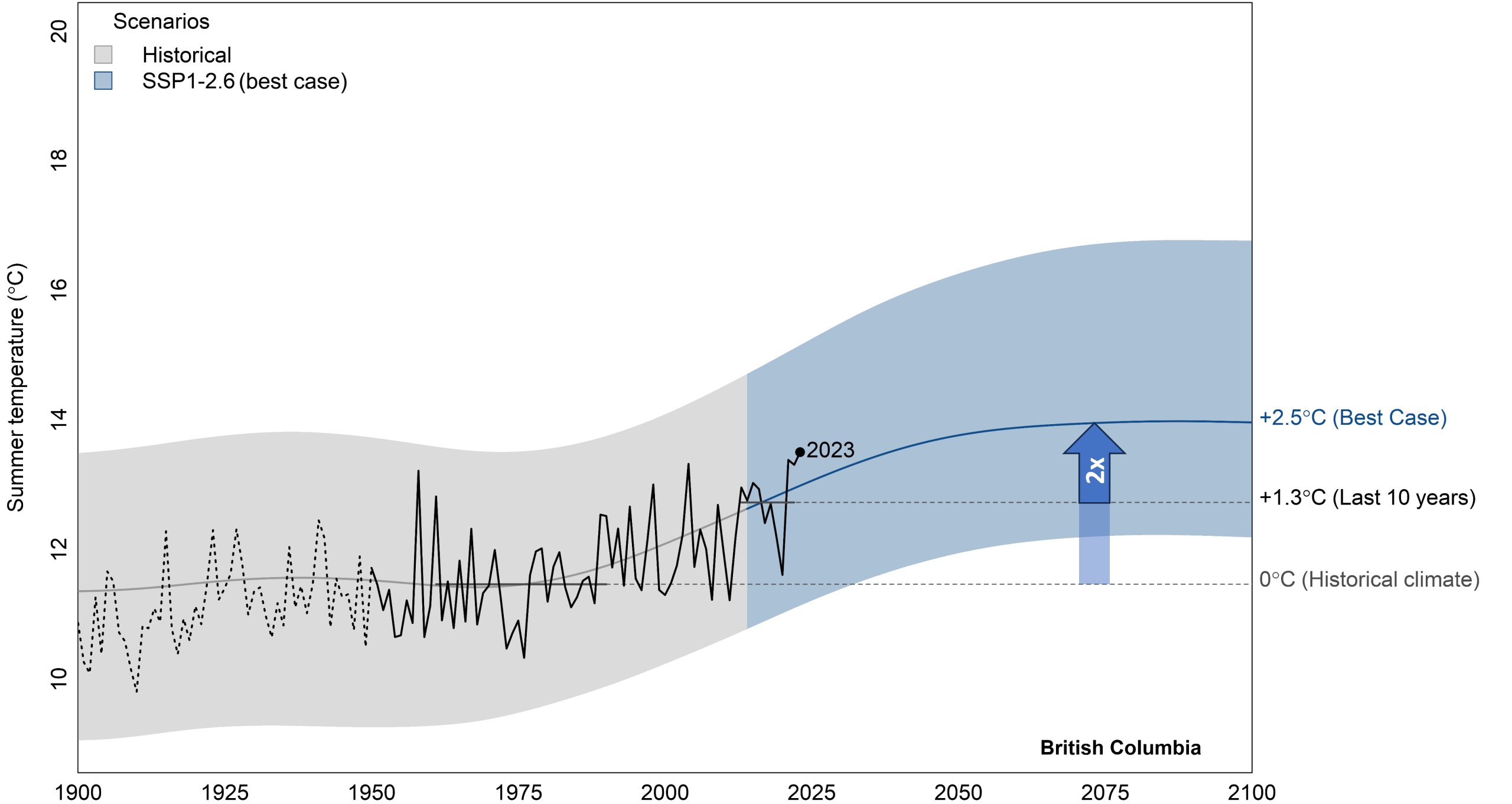


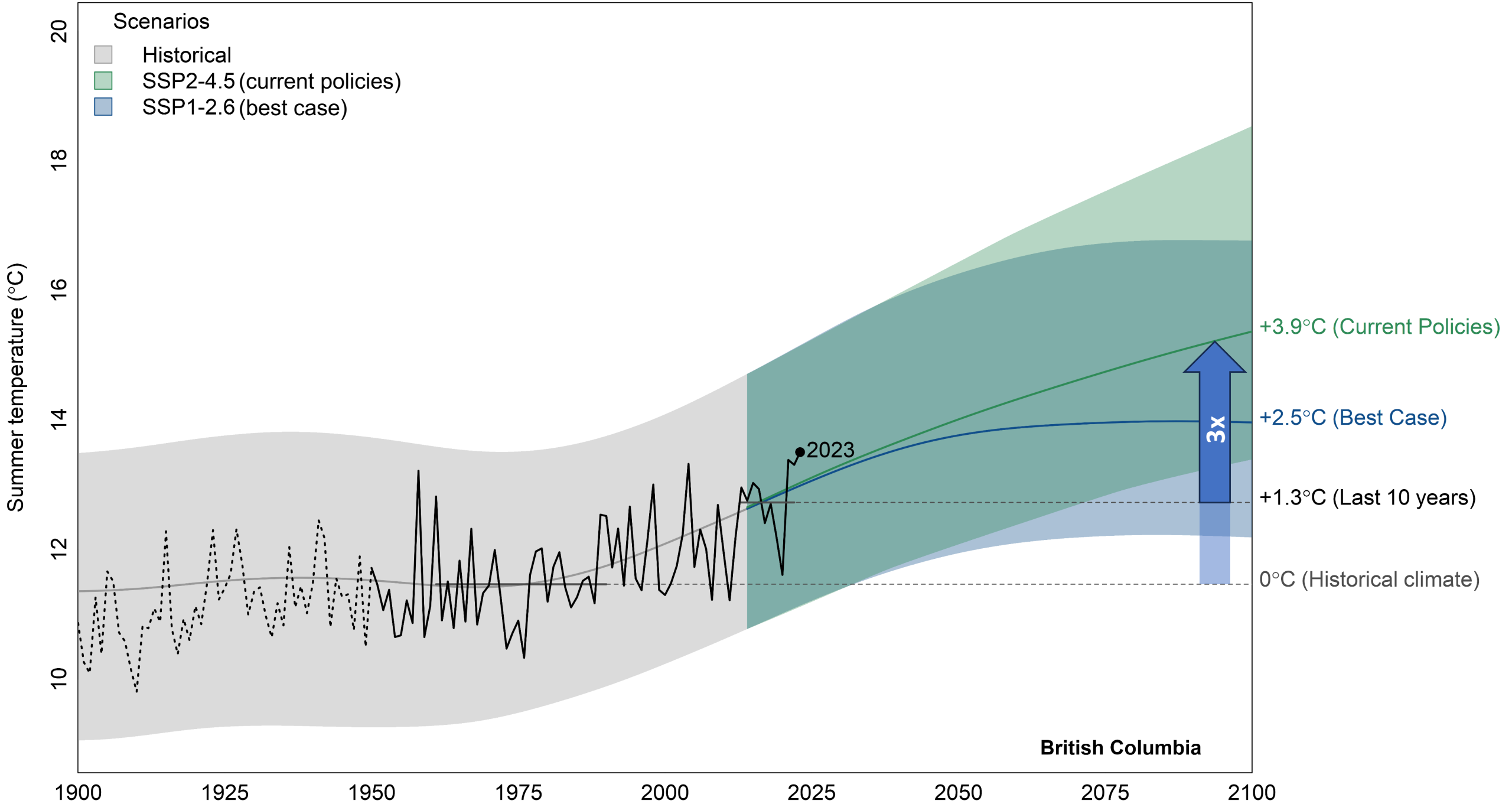


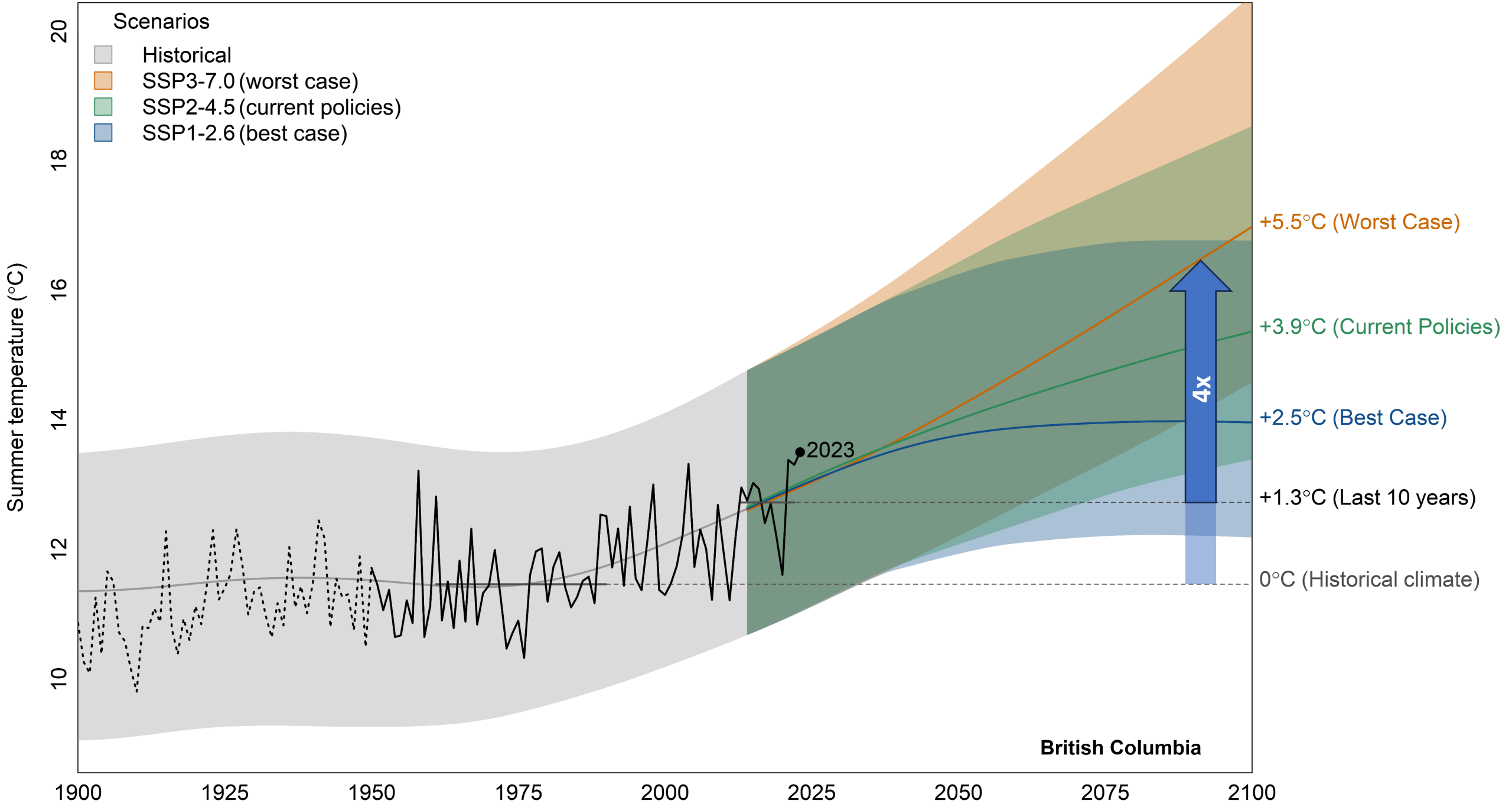


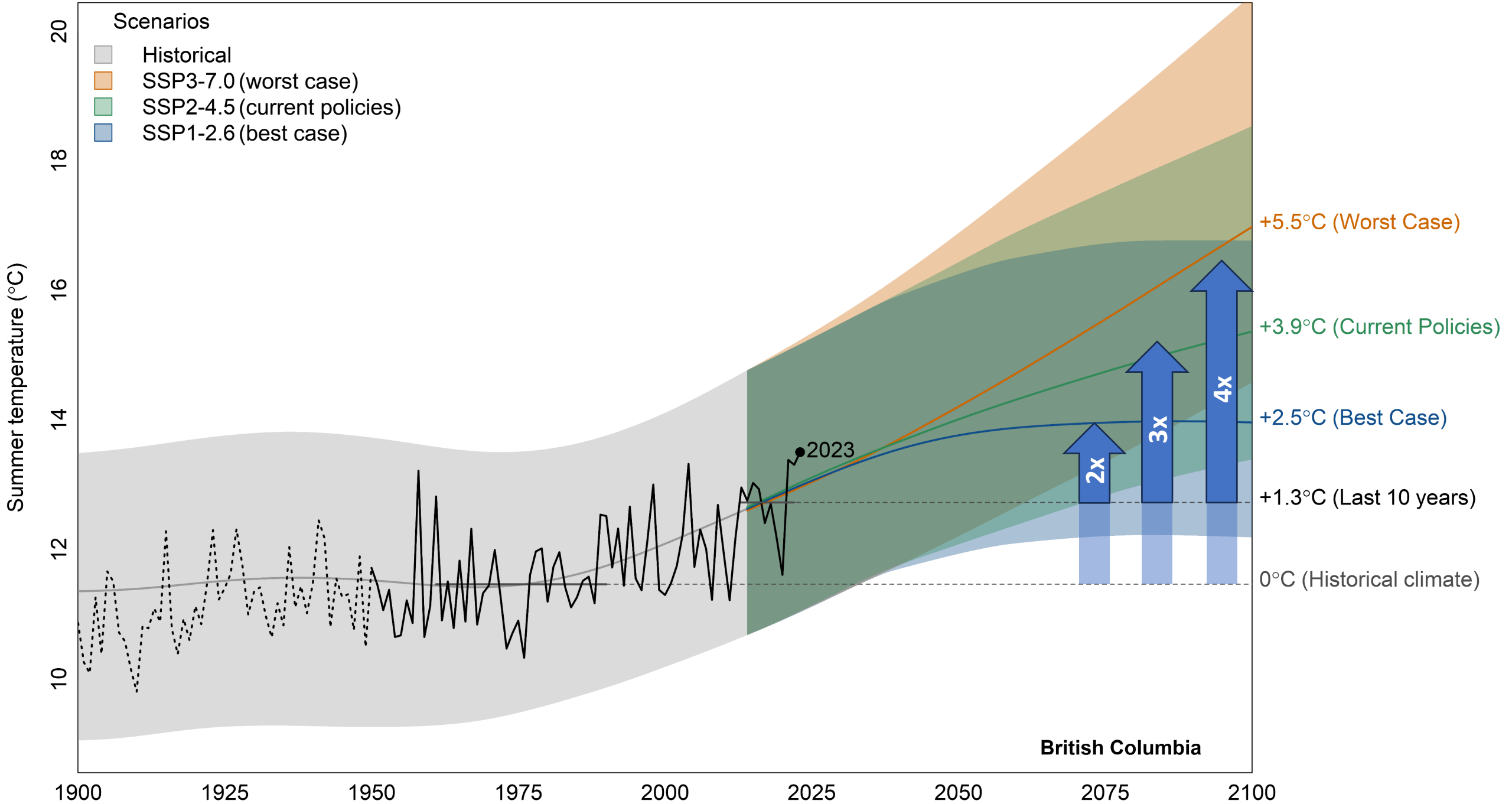




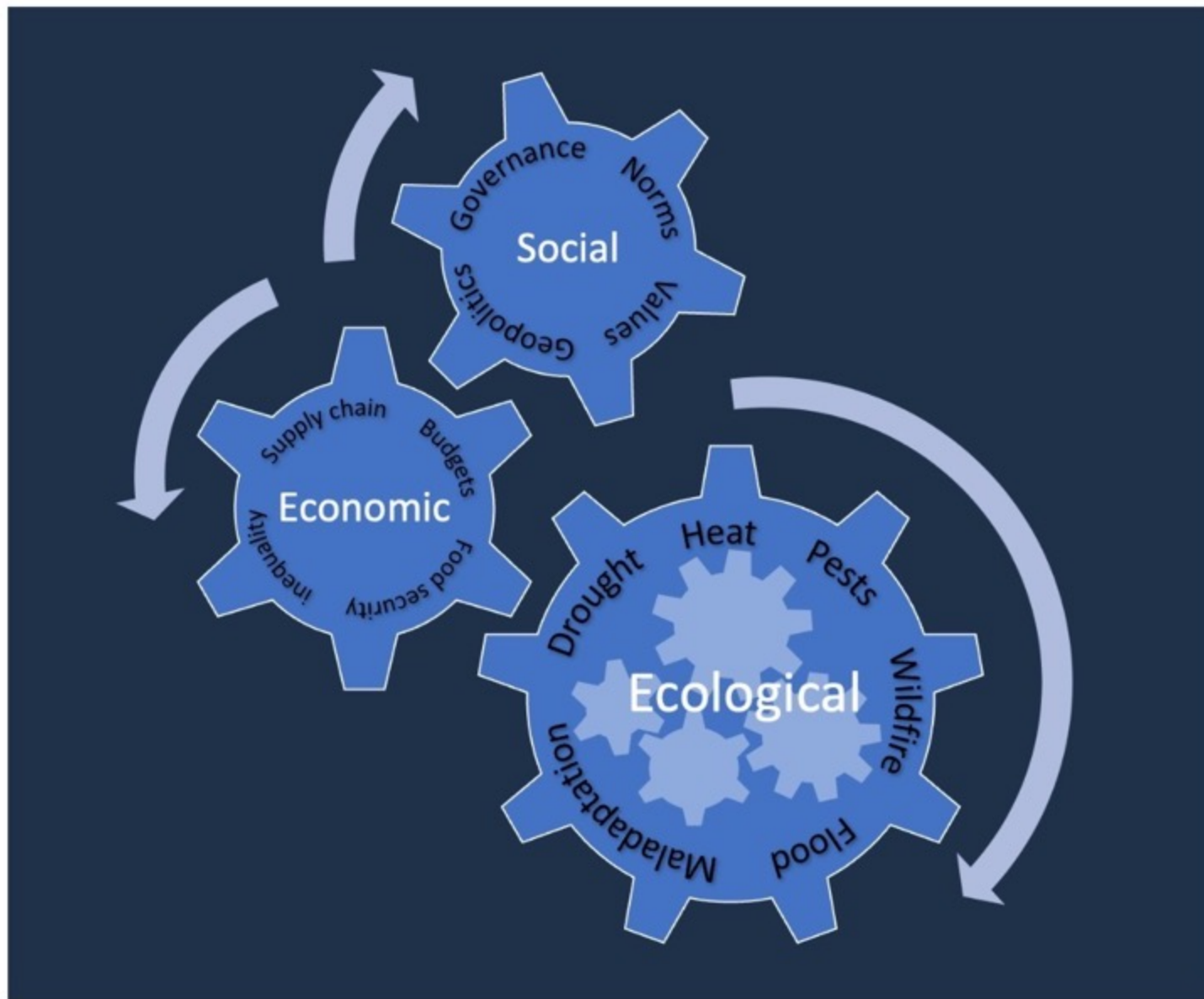









# COMPOUNDING IMPACTS



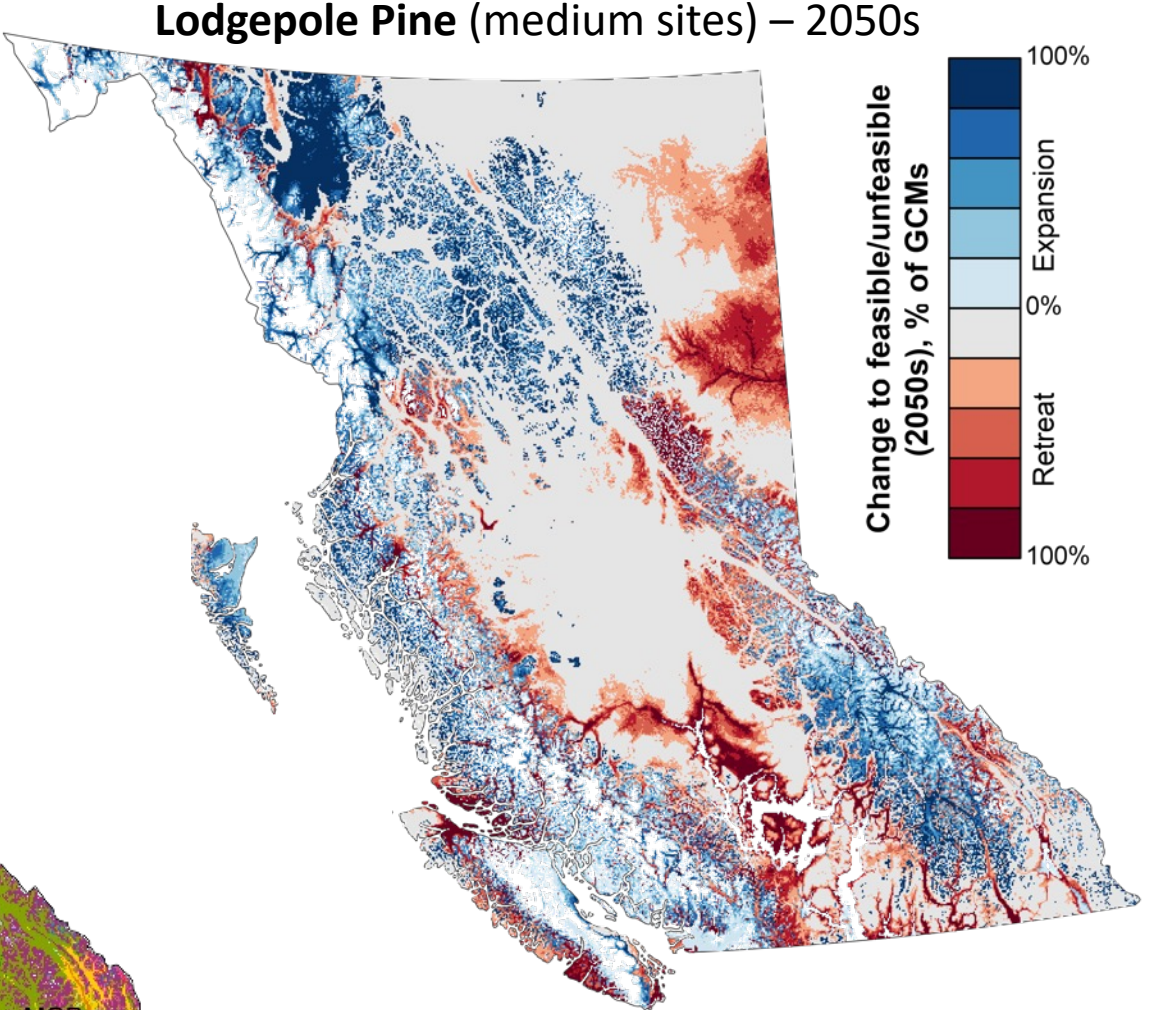
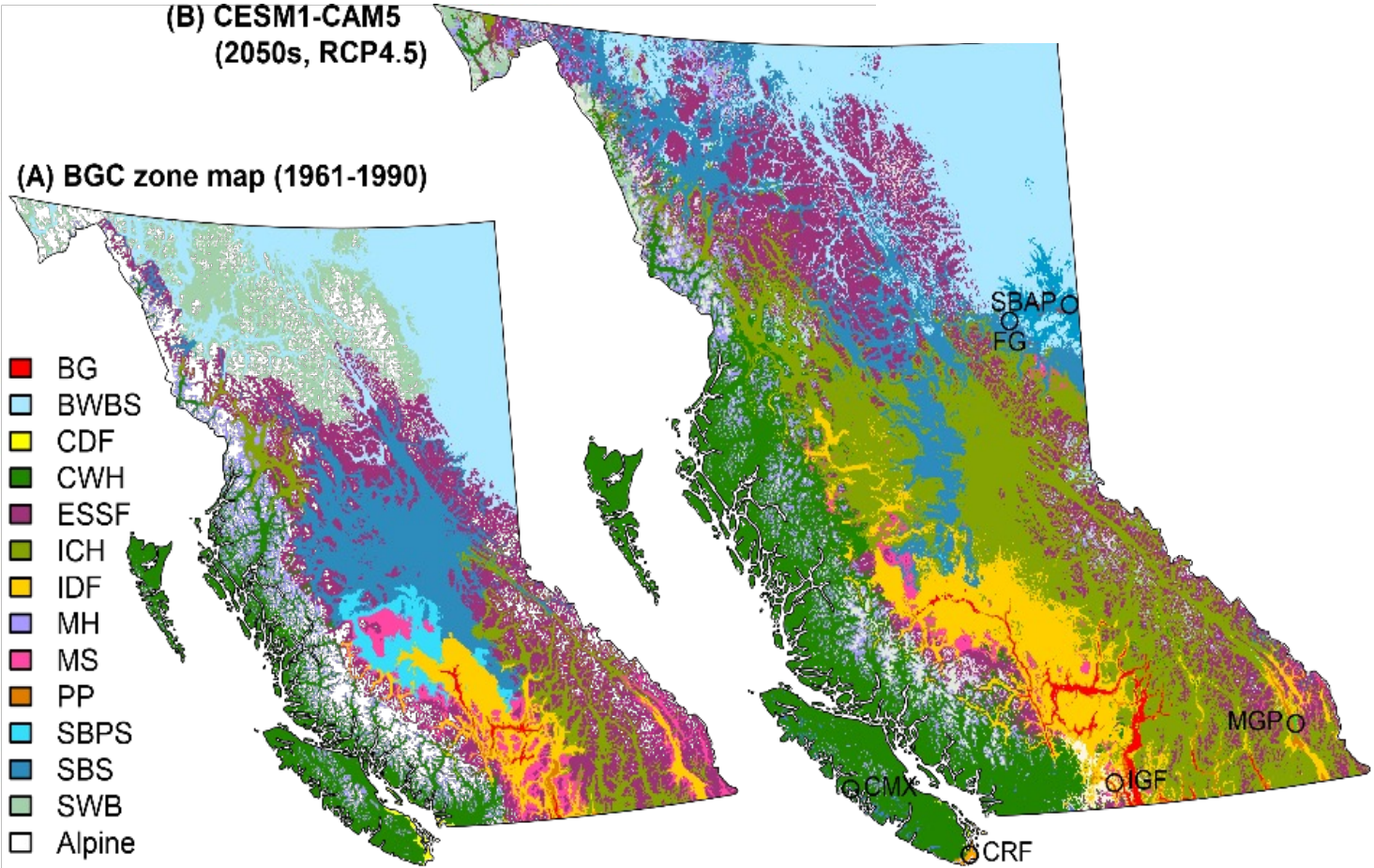


A landscape photograph showing a range of mountains in the distance, partially obscured by a thick, hazy atmosphere. The sky is a pale, yellowish-tan color, suggesting a hazy or overcast day. The foreground is a soft, out-of-focus green, likely a field or forest. The overall mood is serene and contemplative.

**CAN WE ADAPT?**

# Adapting in the climate crisis

Translating climate model projections into guidance for tree species selection



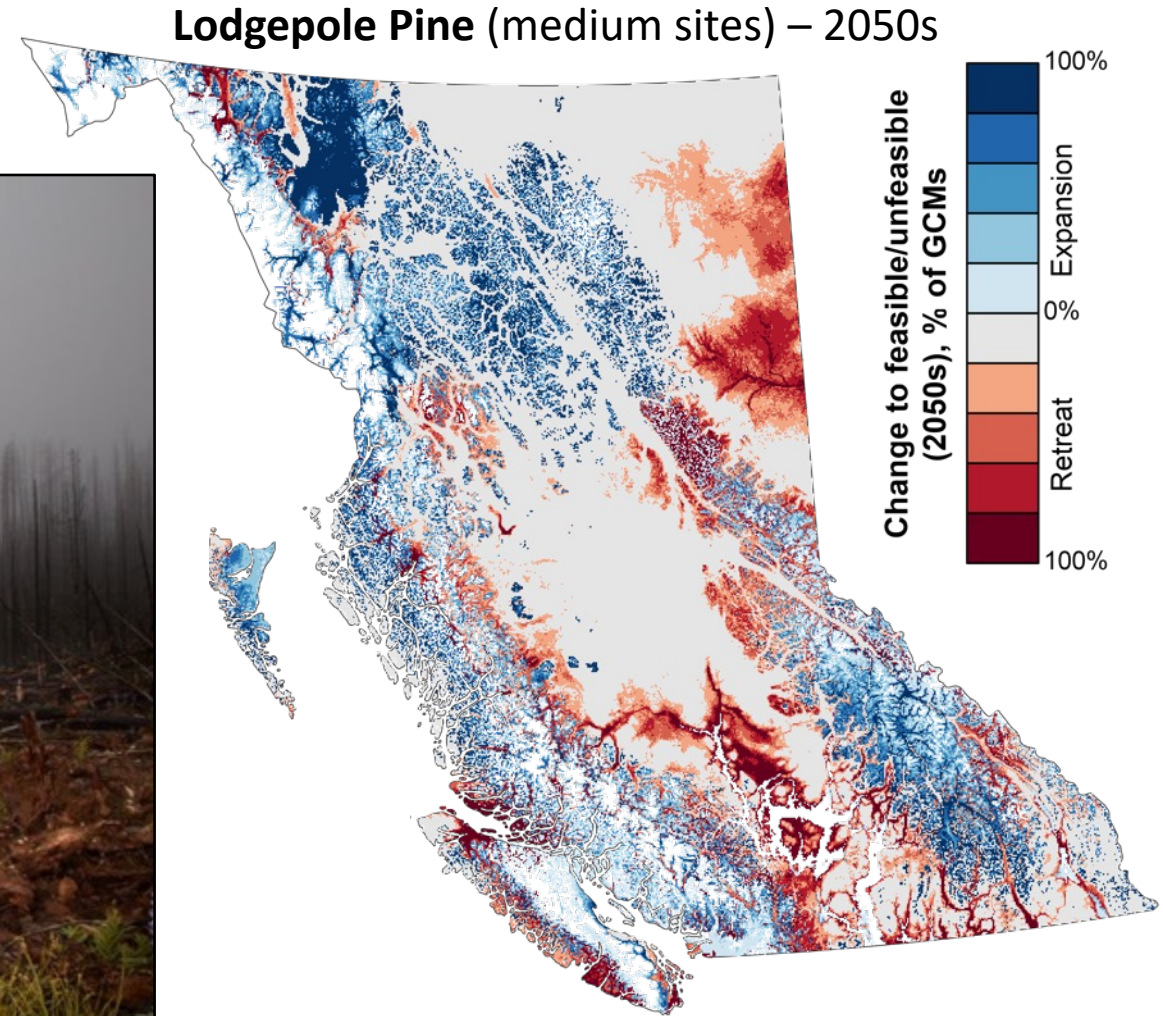
MacKenzie, W.H. and C. R. Mahony 2021. *An ecological approach to climate change-informed tree species selection for reforestation*. *Forest Ecology and Management* 481:118705

# ADAPTING IN THE CLIMATE CRISIS

Translating climate model projections into guidance for tree species selection



Photo: Rita Leistner



MacKenzie, W.H. and C. R. Mahony 2021. *An ecological approach to climate change-informed tree species selection for reforestation*. *Forest Ecology and Management* 481:118705

# FOREST AND FIRE MANAGEMENT IN BC: TOWARD LANDSCAPE RESILIENCE

SPECIAL REPORT

JUNE 2023





Forest  
Practices  
Board

BC'S INDEPENDENT WATCHDOG FOR  
SOUND FOREST AND RANGE PRACTICES


## DESIRED FUTURE LANDSCAPE CONDITION




 Wildland Urban Interface  
(WUI)

 Recently Harvested

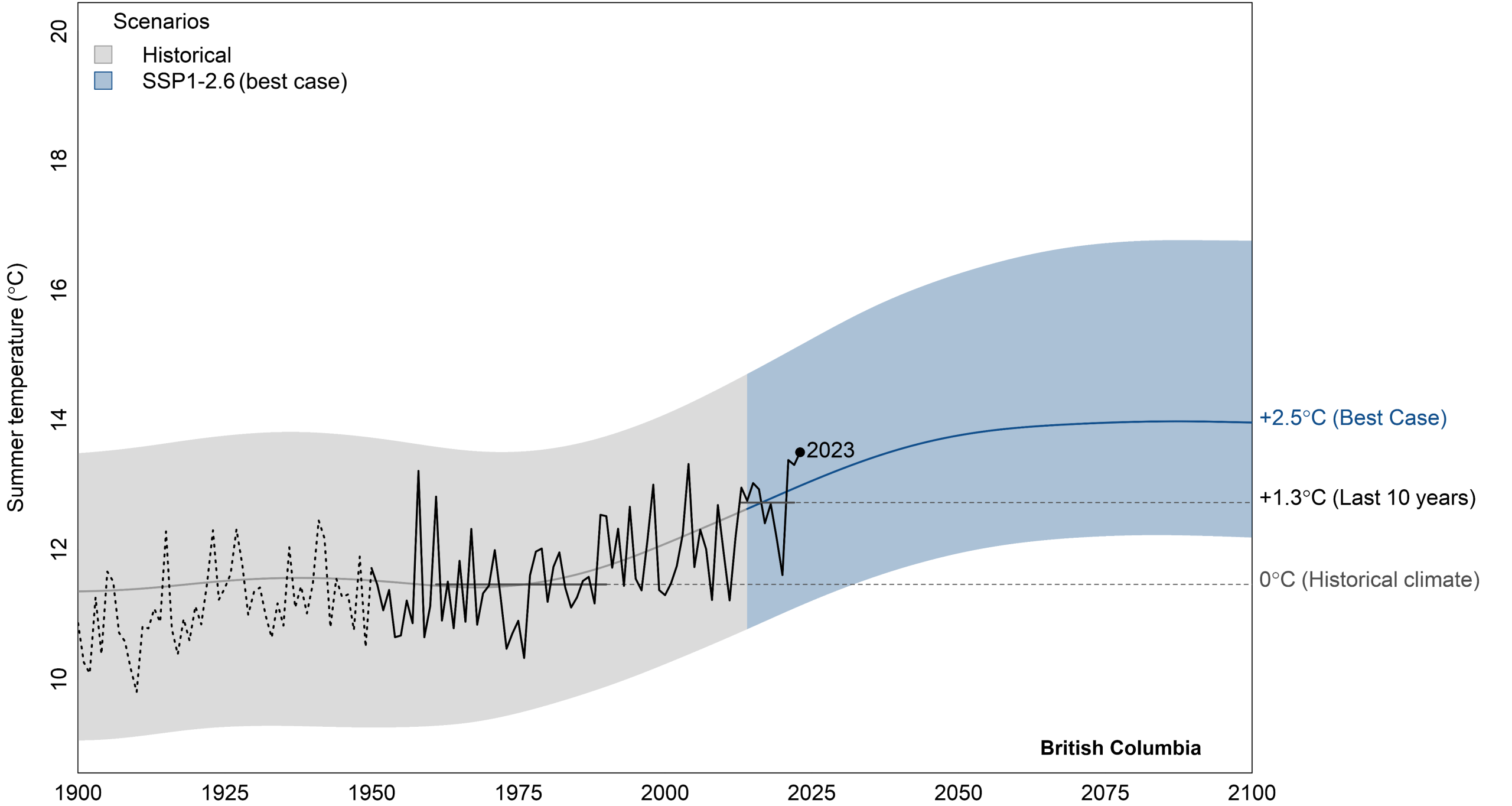
 Recently Burned

 Natural Low Fuel Corridors  
(river/lake, meadow)

 Treated Low Fuel Corridors  
Fuel breaks (e.g. utility lines,  
roads, targeted harvesting)

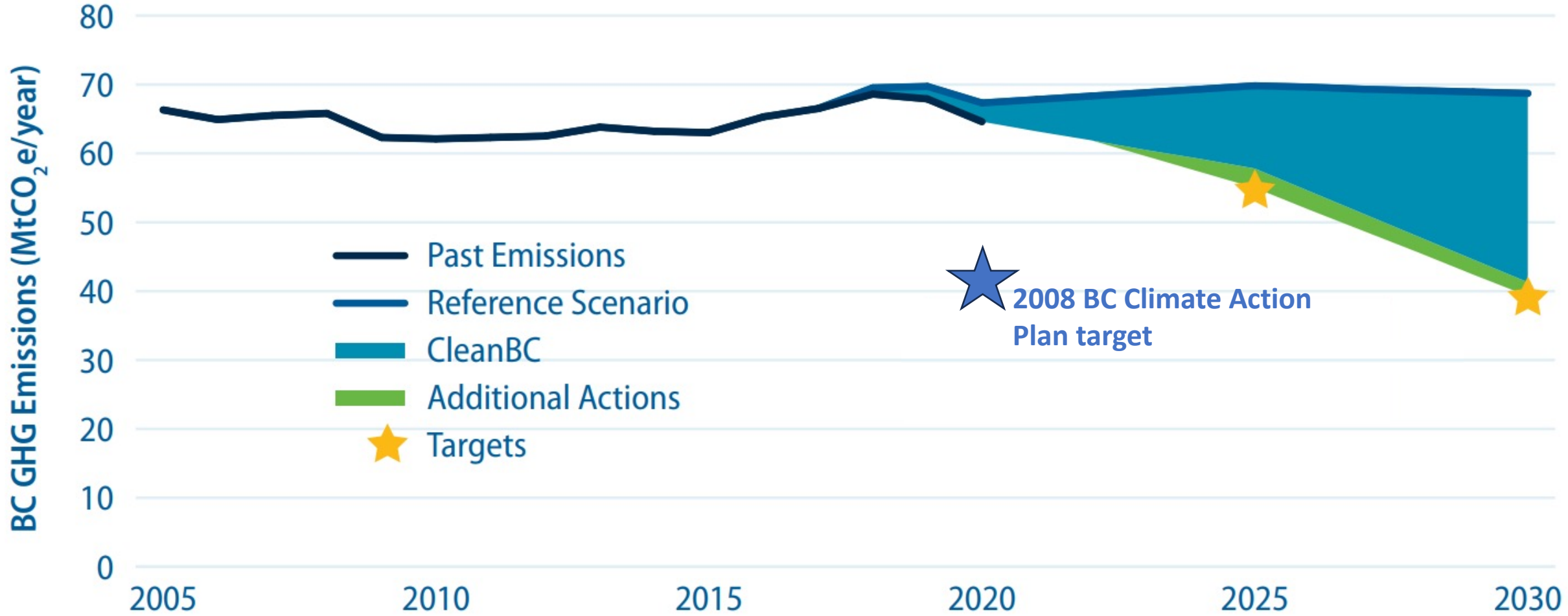




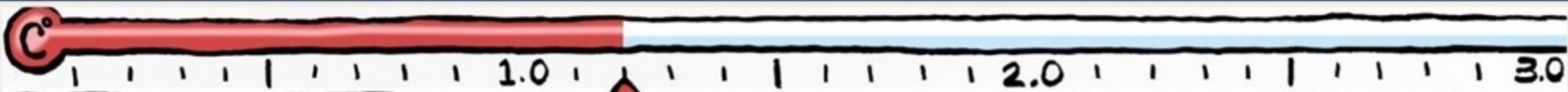


# CleanBC Projections to 2025 and 2030

## Pathway to Meeting B.C.'s 2025 and 2030 Targets







**X**  
**SOLD OUT!**  
BY FOSSIL FUELS

**STABLE CLIMATE**

PROVEN TO WORK  
FOR 10,000 YEARS



**!!!**  
**ACT NOW!**  
OFFER CLOSES SOON

**LIVEABLE EARTH**

CLEAN UP ENERGY  
REDUCE WASTE  
PROTECT NATURE



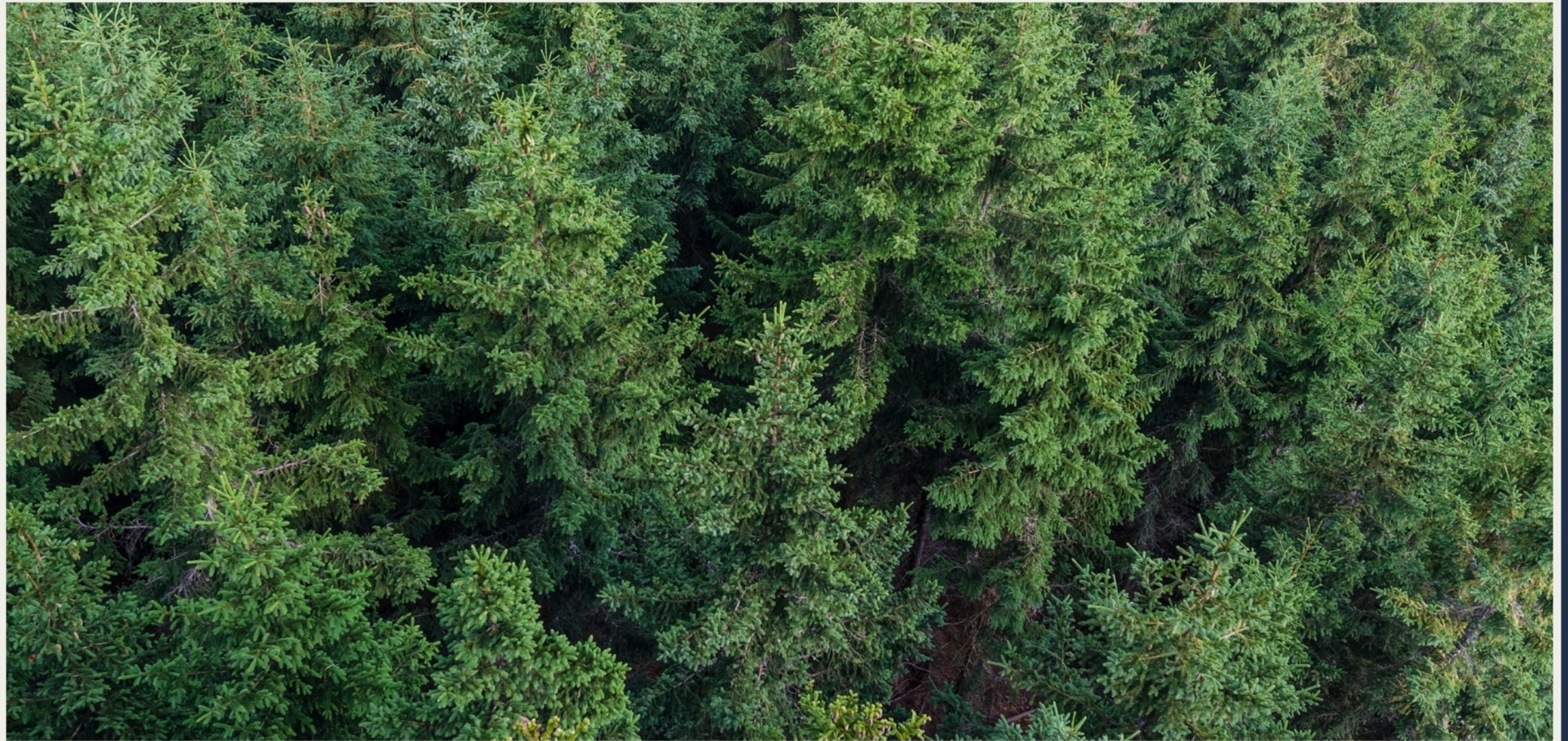
**☆☆☆**  
**PAY LATER**  
HOW BAD COULD IT BE?

**HELL KNOWS!**



SLANE  
GARTON.COM  
CC BY NC ND

# QUESTIONS?



# THE OLD GROWTH ACTION PLAN



**NORAH WHITE** *RPF, EXECUTIVE DIRECTOR, PROVINCAL OLD GROWTH STRATEGY*

# OLD GROWTH ACTION PLAN

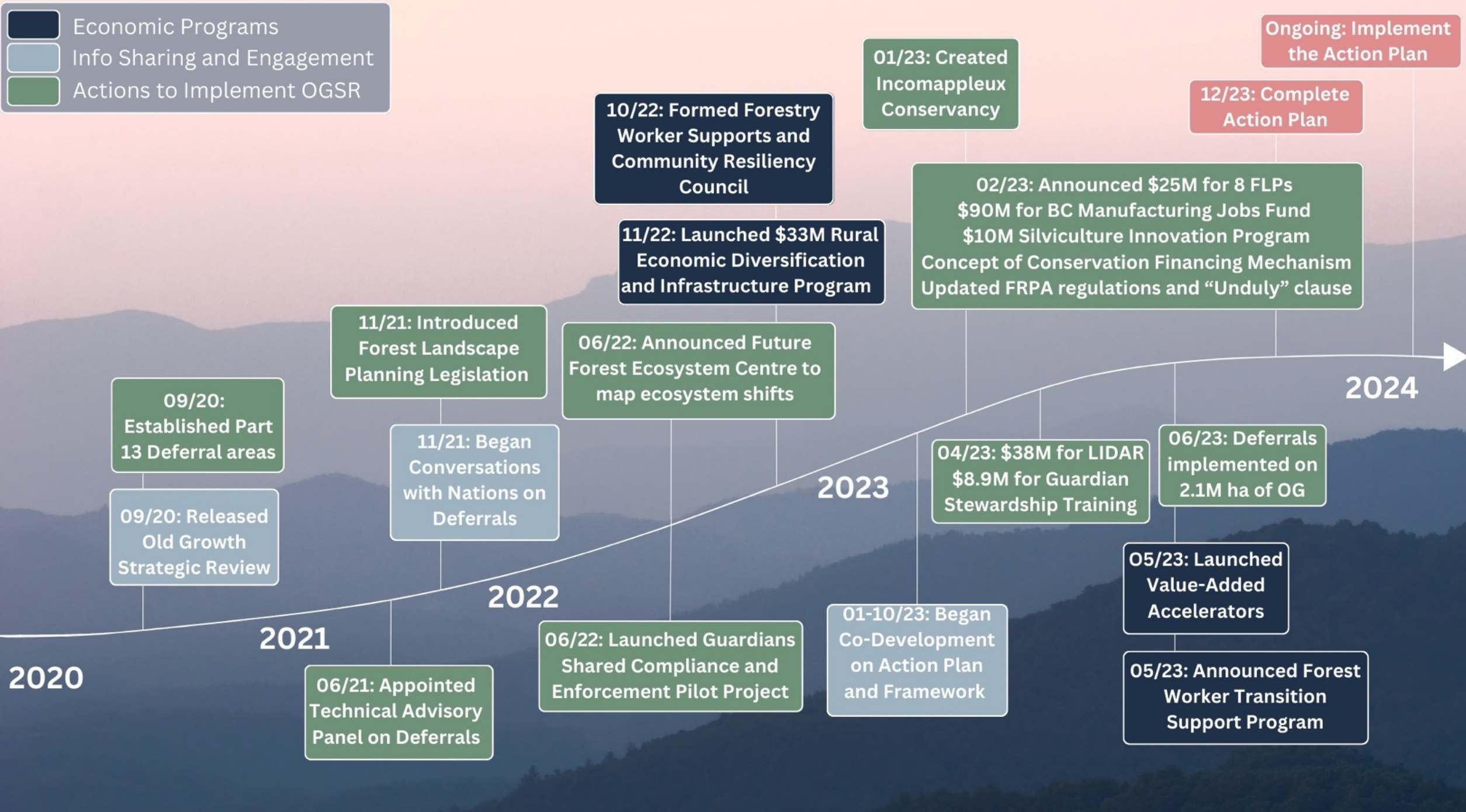


## A NEW FUTURE FOR OLD FORESTS

A Strategic Review of How  
British Columbia Manages for  
Old Forests Within its Ancient  
Ecosystems



- Economic Programs
- Info Sharing and Engagement
- Actions to Implement OGSR



# DEVELOPING THE ACTION PLAN



*120 Nations*

**First Nations**



*40+ Communities*

**Communities**



*17 Organizations*

**ENGOS**



*97 Forest Related Participants*

**Forest Sector**

# THE ACTION PLAN: OUR 3 GOALS



**Co-Governance**



**Ecosystem Health  
and Resilience**



**Smooth Transitions**

# BIODIVERSITY AND ECOSYSTEM HEALTH FRAMEWORK



The aim of the Framework is to build resilience in B.C. for our shared future, in the face of uncertainty and the response to a changing climate. The Framework will provide a vision and the tools to help facilitate the enabling conditions to achieve a healthy and resilient economy, and a healthy and resilient environment all while advancing reconciliation.

By:

- building on the great work that is already underway in broader society, including the work of local governments;
- bringing everyone together, combining our efforts;
- providing support where needed and
- addressing gaps and barriers



# QUESTIONS?

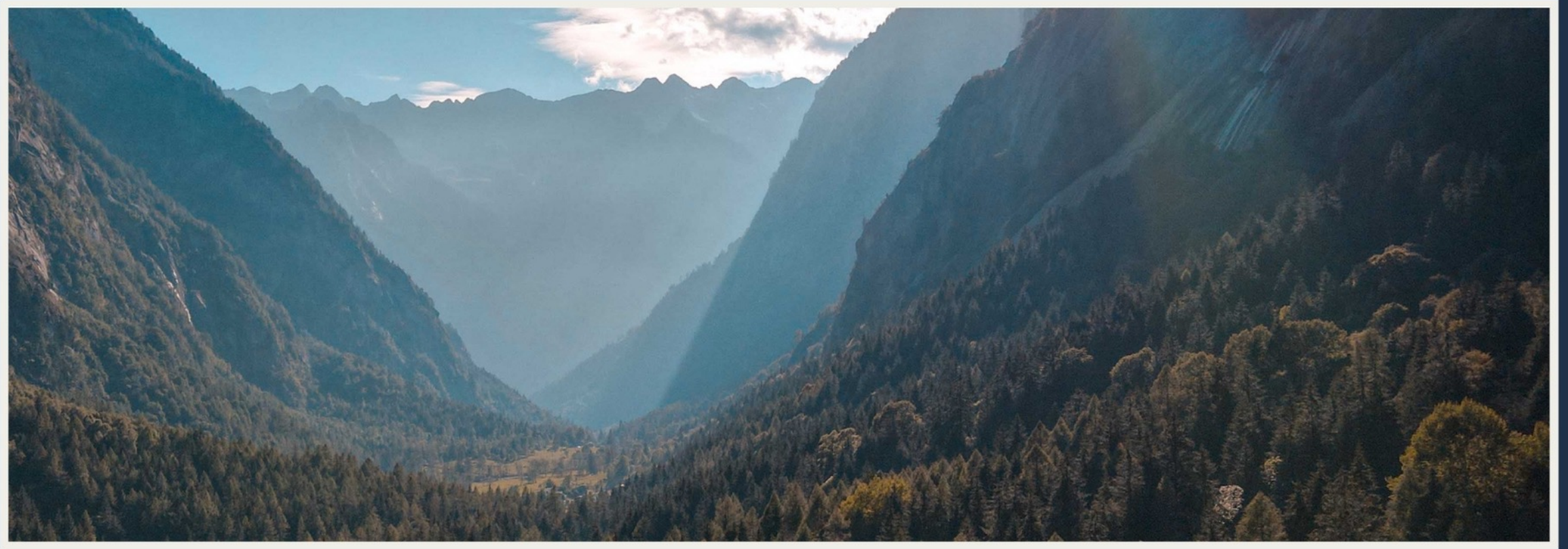


# FOREST LANDSCAPE PLANNING: MANAGING FOR RESILIENT FORESTS



**DEREK LEFLER** *RPF, DIRECTOR, FOREST SCIENCE PLANNING AND PRACTICES BRANCH*

# FOREST LANDSCAPE PLANNING OUTLINE



- **What is Forest Landscape Planning**
- **How FLPs can support for forest health and resiliency**
- **Current FLP projects**
- **How communities can engage in FLP**

# WHAT IS FOREST LANDSCAPE PLANNING?

## Strategic Land Use Planning

Sets legal direction under a cabinet approved land use plan



### Strategic Scale

- Is conducted in partnership with Indigenous governments
- Engages local governments, stakeholders and the public in the planning process

**NEW**

## Forest Landscape Planning

Sets direction under the *Forest and Range Practices Act (FRPA)*  
Must be consistent with an approved Strategic Land Use Plan



### Tactical Scale

- Is conducted in partnership with Indigenous peoples and in collaboration with forest and range license holders under *FRPA*
- Enables deeper engagement & greater transparency with local governments and stakeholders

## Operational/Site-level Planning

Must follow an established Forest Landscape Plan or propose variances to the plan for government approval



### Operational Scale

- Promotes cooperation with forest and range licence holders
- Provides the opportunity for all stakeholders and the public to comment on road and cutblock locations

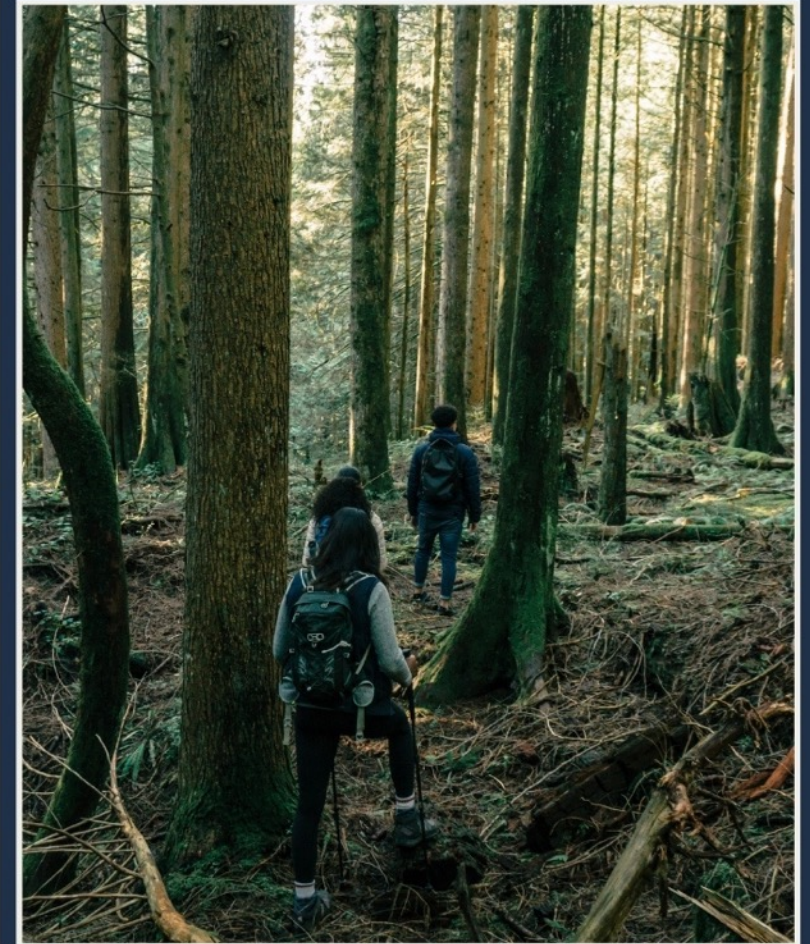
# WHY FOREST LANDSCAPE PLANNING?



**Support reconciliation  
with Indigenous Peoples**



**Address landscape level  
forest management  
challenges**



**Address changing societal  
values and integrate  
direction for multiple values**

# FLP VISION

Working collaboratively with Indigenous Nation partners, FLPs seek to enhance forest resiliency by;



Create guidance for ecosystem health and resilience while aiding the Old Growth Strategy.



Incorporate community values into forest management and enhance community resilience.



Set a 10-year plan to achieve a long-term forest vision.

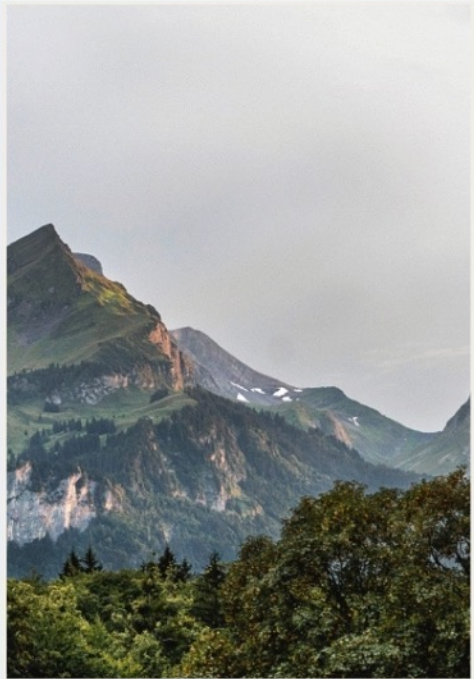


Provide clear details about where and how harvesting and other forest activities will take place.



Provide certainty for the forest sector.

# FOREST LANDSCAPE PLANNING FRAMEWORK



**Set landscape and stand level direction for forest activities Implemented by Forest Operations Plans**



**10 year plan that can be amended as local conditions change**



**Developed in partnership with Indigenous Nations, with engagement from licensees, stakeholders & local communities**

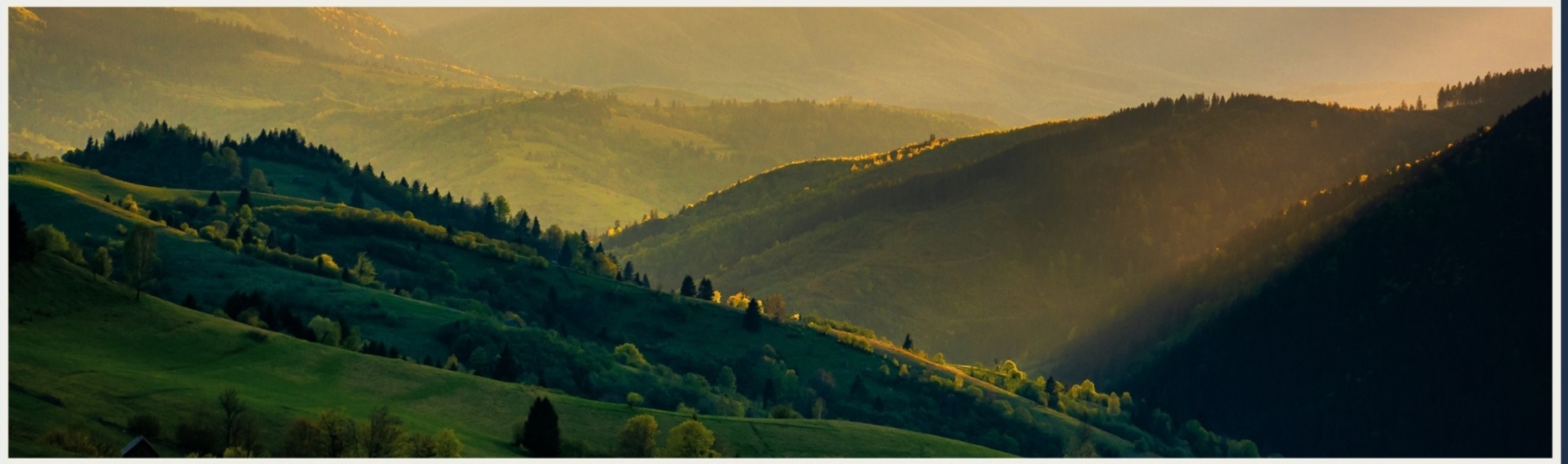


**Apply to volume-based tenures in Timber Supply Areas, area-based tenures, or combination of these**



**Requirement to report to the public on plan performance every 5 years**

# FLP OBJECTIVES



- **Managing the values placed on forest ecosystem by Indigenous Peoples**
- **Managing the values placed on ecosystems by local communities**
- **Supporting the protection and conservation of the environment**
- **Supporting production and supply of timber in the forest landscape area**
- **Preventing, mitigating, and adapting to impacts caused by significant disturbances to forests and forest health**



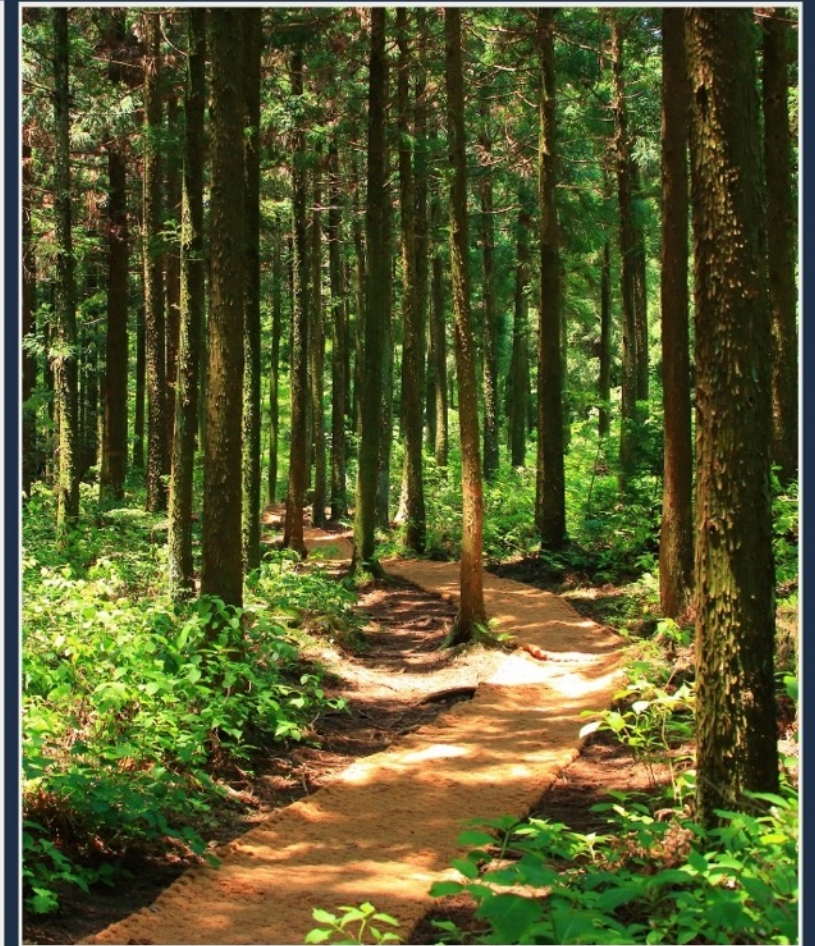
# MANAGING FOR ECOSYSTEM RESILIENCE



**Assess forest health and ecosystem risks associated with climate change**



**Consider climate change projections and implications**



**Identify management strategies to adapt to and mitigate climate risk**

## Access wildfire risk across the landscape



## Identify strategies to mitigate wildfire risk

- Design landscape fuel breaks
- Spatial and temporal planning of cutblocks and roads
- Reduce forest fuels
- Selecting fire resistant species
- Mitigate risk to forest values
- Extend wildland urban interface management to landscape

# IMPLEMENTING THE OLD GROWTH STRATEGIC REVIEW WITH FLPS



- Collaborative management with Indigenous Nations
- Prioritize forest ecosystem health and biodiversity
- Identify forest management zones
- Implement innovative silviculture systems
- Monitor and report on old growth, adaptive management

# FOREST LANDSCAPE PLAN PROJECTS



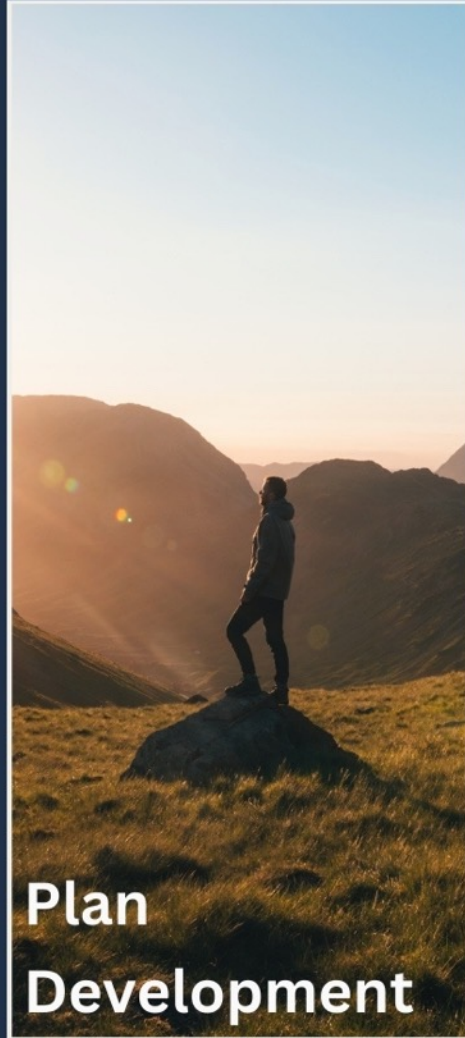
## 4 Pilot Projects Underway

- TFL 37 – Namgis Nation
- Sunshine Coast TSA
- Quesnel TSA
- Lakes TSA Resiliency Project

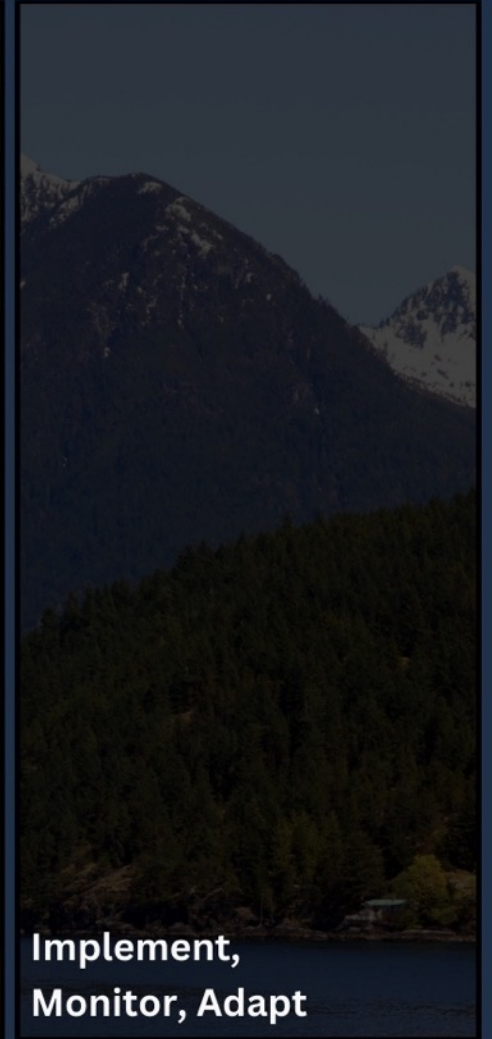
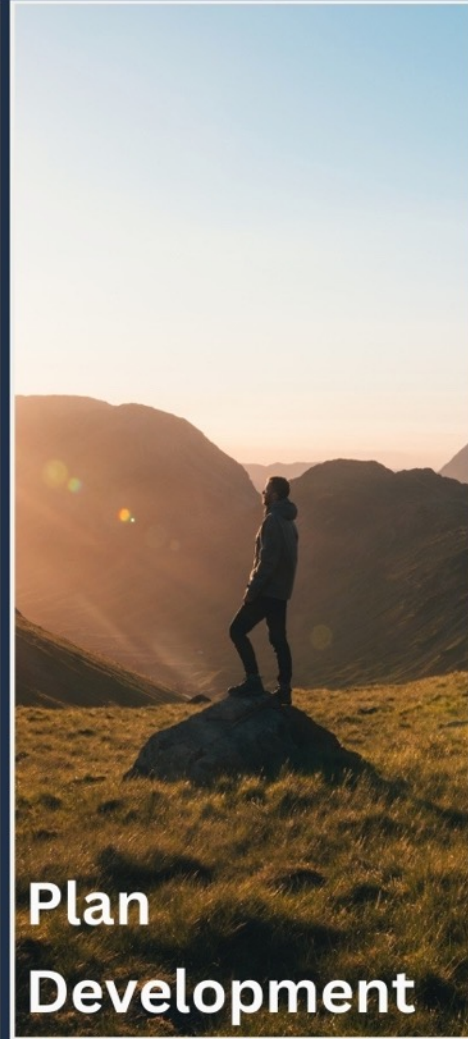
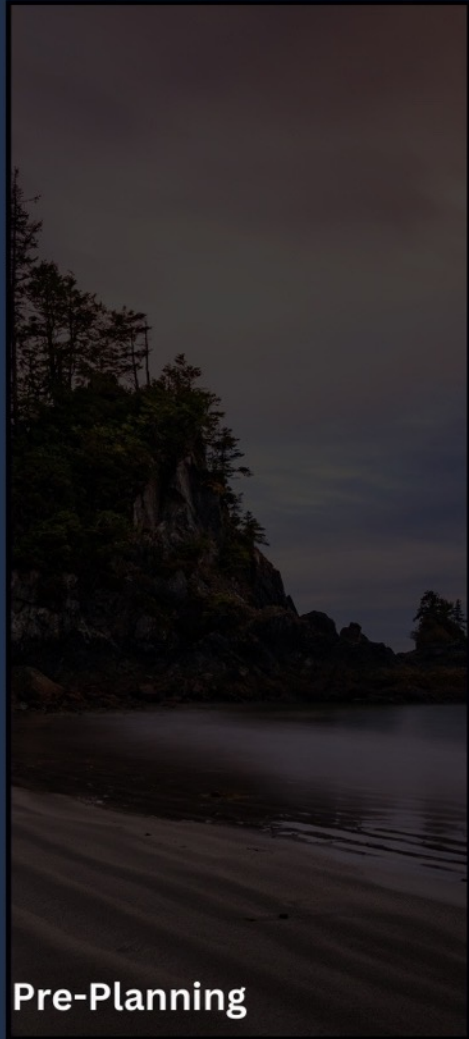
## 8 New FLP's - scoping underway

- \$25M over 3 years

# FOREST LANDSCAPE PLANNING PROCESS



# COMMUNITY ENGAGEMENT IN FLP



# COMMUNITY ENGAGEMENT IN FLP



- Identify community values, interests and priorities in each plan area
- Review and provide input on current conditions and desired future conditions
- Review and provide input on draft management scenarios, and draft plan
- Ensure local community interests are reflected in FLPs

# FOR MORE INFORMATION



[Home](#) > [Farming, natural resources and industry](#) > [Forestry](#) > [Forest Stewardship](#) >

- ▶ Timber Supply Review and Allowable Annual Cut
- ▶ Sustainable Forest Management Practices
- ▶ Forest Inventory
- ▶ Forest health
- ▶ Soil Conservation
- ▶ Old Growth Forests
- ▶ Forest Stewardship Plans
- ▶ Wildfire Management
- ▼ **[Forest Landscape Plans](#)**
  - Sunshine Coast Forest Landscape Planning Pilot Project
  - Quesnel Forest Landscape Planning Pilot Project
  - Tree Farm Licence 37 Forest Landscape Planning Pilot Project

## Forest Landscape Plans

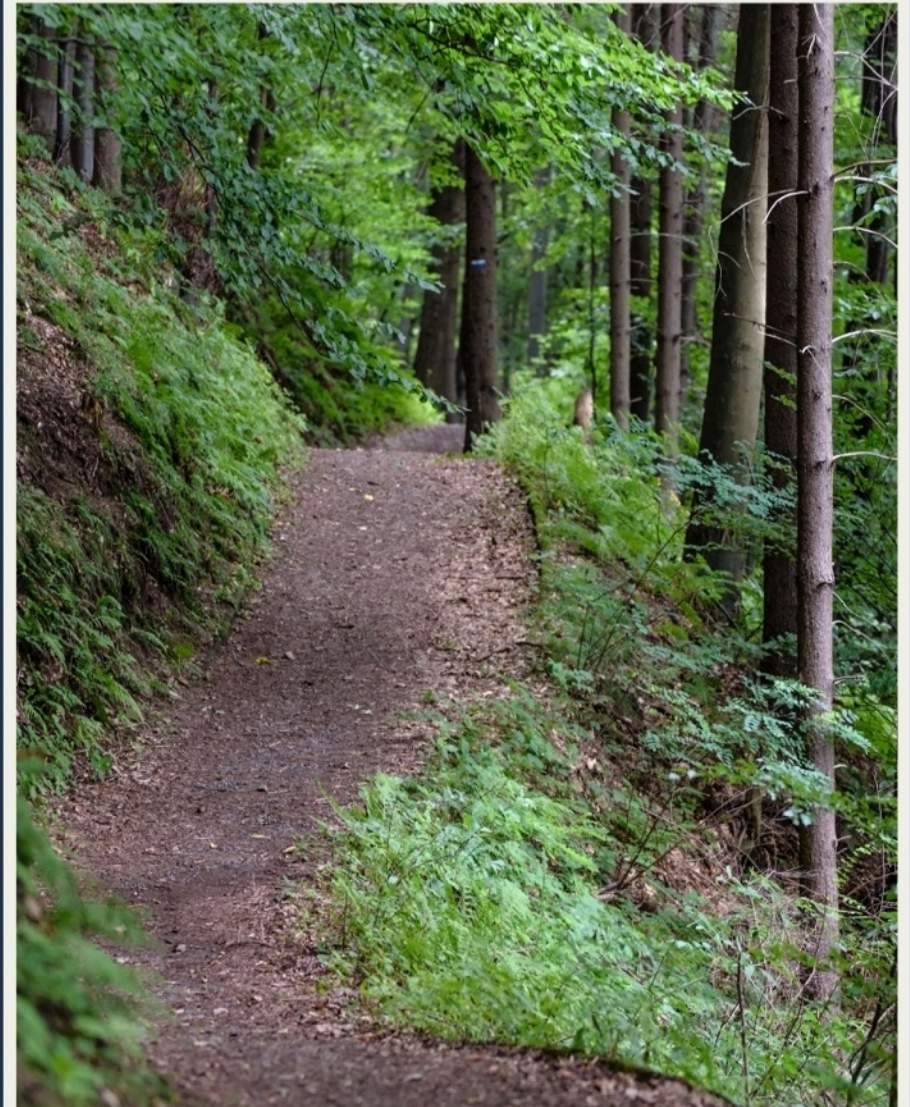
Forest Landscape Planning is the process of establishing clear objectives and outcomes for the management of forest resource values over an area. Forest Landscape Plans will replace the current Forest Stewardship Plans as part of changes to British Columbia's forest management including the [Forest and Range Practices Act \(FRPA\)](#).

### On this page:

- [Forest landscape plan process](#)
- [Stakeholders and forest landscape plans](#)
- [Forest landscape planning framework](#)
- [Working in collaboration and cooperation with Indigenous communities](#)
- [Forest landscape planning pilot projects](#)

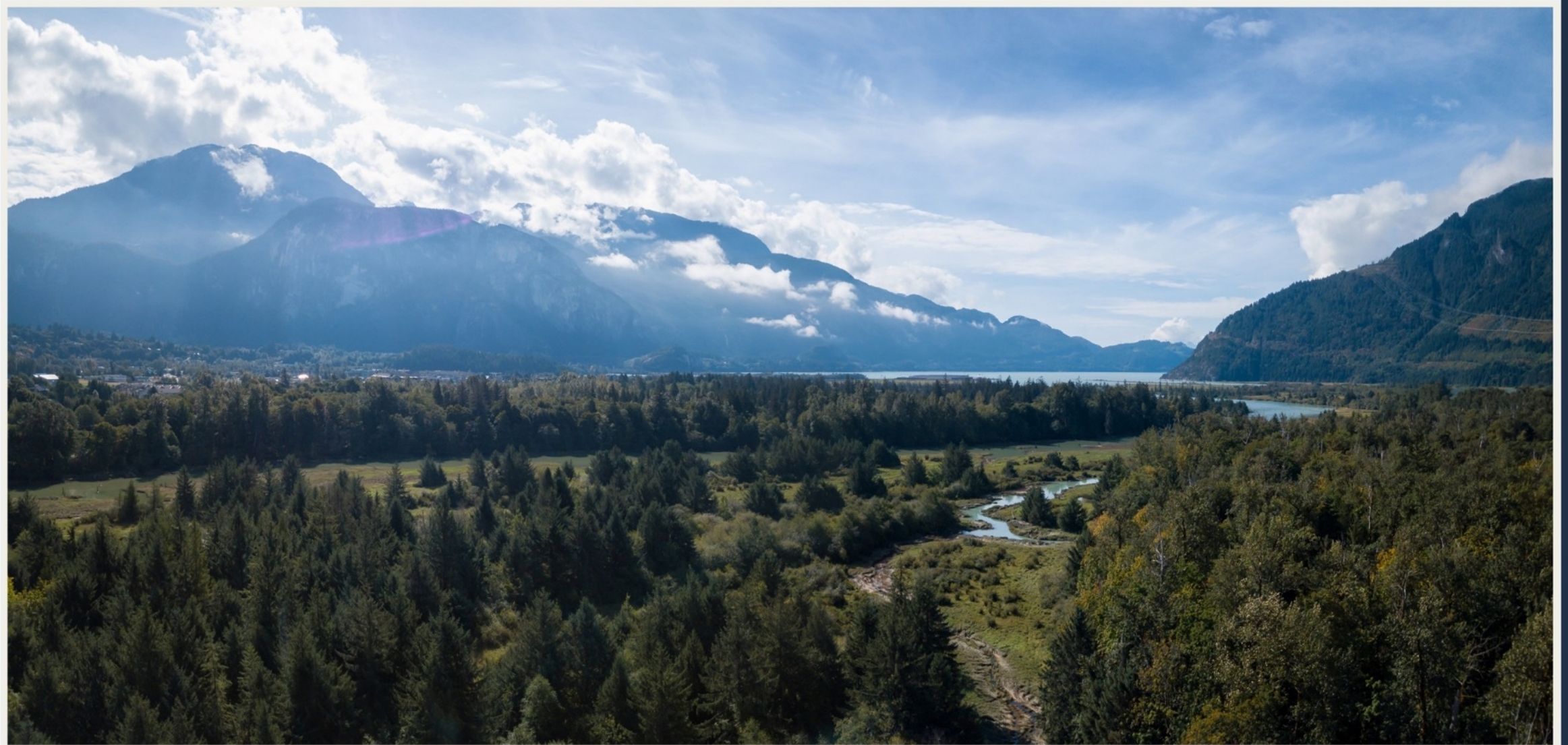
## Forest landscape plan process

Forest Landscape Planning will help translate high-level strategic landscape planning direction to specific forest management areas. They will





# QUESTIONS?





## PANELISTS

**Eamon O'Donoghue**

*Associate Deputy Minister*

**Shane Berg**

*Chief Forester, Assistant Deputy Minister*

**Colin Mahony**

*Research Climatologist,  
Forest Carbon and Climate Services*

**Norah White**

*Executive Director,  
Provincial Old Growth Strategy*

**Derek Lefler**

*Director, Forest Science,  
Planning and Practices Branch*

## MODERATOR

**Julie MacDougall**

*Executive Director, Strategic Initiatives*