

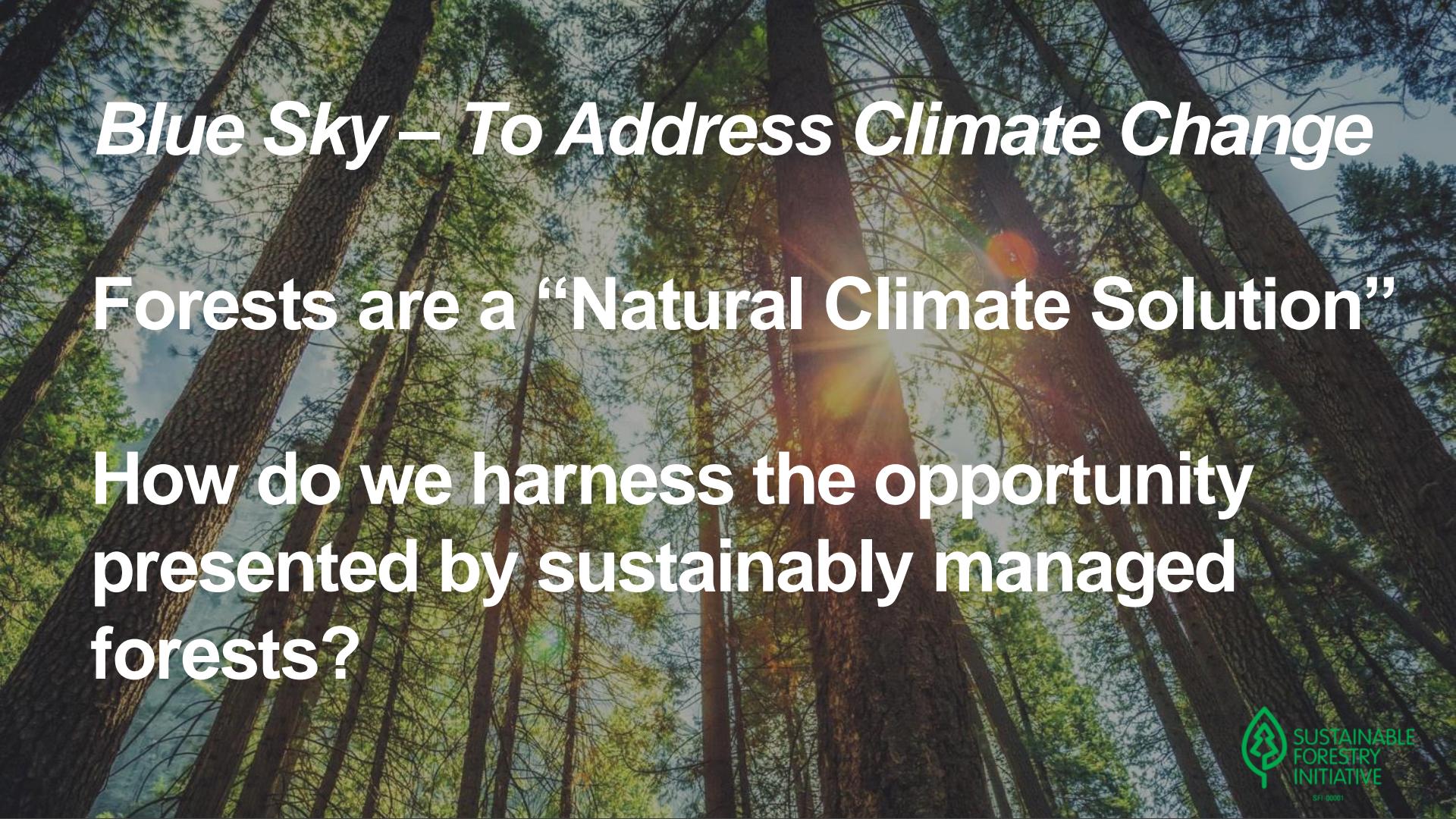


Managing Forests For Climate Mitigation – From Theory to Practice

**Paul Trianosky, Chief Conservation Officer
Sustainable Forestry Initiative**

SFI ADVANCES SUSTAINABILITY THROUGH FOREST-FOCUSED COLLABORATIONS



A photograph of a forest from a low angle looking up at tall evergreen trees. The sun is visible through the branches, creating bright highlights and lens flare. The forest floor is not visible.

Blue Sky – To Address Climate Change

Forests are a “Natural Climate Solution”

How do we harness the opportunity presented by sustainably managed forests?

To Achieve Scale...

- Understand and acknowledge the role of managed forests
- Moving carbon and climate into the “space” of managing for multiple benefits, opens new opportunities
- Facilitates drivers, incentives, compensation





A Few Words About Certification



- Established to ensure accountability and verification of sustainability performance
- Addresses a wide range of sustainability measures and outcomes
- Assuring performance across many topics is an act of “optimization”
- Carbon and Climate were never part of that discussion early on

A scenic aerial photograph of a dense forest covering rolling hills. A dark blue river or lake cuts through the center of the image, reflecting the surrounding greenery. The sky above is a warm, golden color, suggesting either sunrise or sunset.

**We believe that forests – particularly
when sustainably managed – represent
a critical tool in helping positively
address the climate change challenge.**



BETTER
CHOICES FOR
THE PLANET

SFI
SUSTAINABLE
FORESTRY
INITIATIVE

SFI-00001

ASSESSMENT OF CLIMATE BENEFITS OF SFI FOREST CERTIFICATION

- Qualitative study of the climate benefits of SFI Forest Certification.
- 2015-2019 SFI Forest Management Standards
- Various aspects of the SFI Standards effectively promote outcomes consistent with “Climate Smart Forestry”
- But there's more to do....



CONSERVATION IMPACT PROJECTS

- Brand owners need to understand the impact of their sourcing
- Certified Organizations can better understand outcomes relative to practices
- All stakeholders can better understand the value of well managed forests
- Improved understanding facilitates continual improvement on certified forestlands



WATER

BIODIVERSITY



CARBON



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THE FOREST CLIMATE RESILIENCY PROJECT

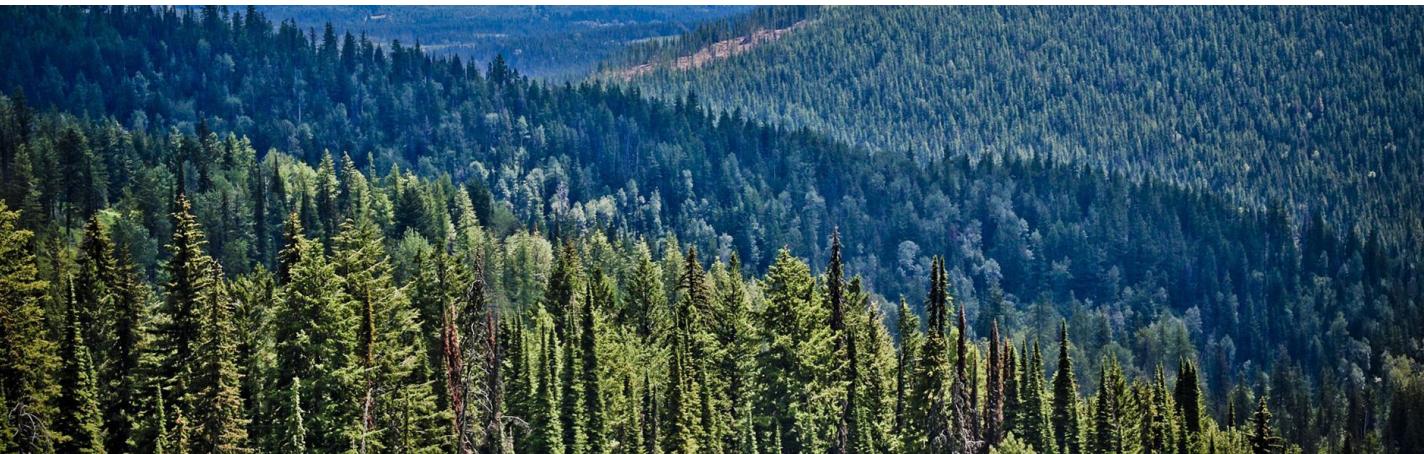
- Developing a simple approach to establishing baseline conditions
- Assessing resilience of forests to a changing climate
- Monitoring the effects of a changing climate over time.



CANADIAN FOREST CARBON ASSESSMENT

WHAT IS IT: Analyses (1990 to present) of carbon stocks and fluxes on certified forestlands in five regions of Canada

WHY IT MATTERS – Reliably estimating carbon stocks and fluxes across SFI's footprint facilitates long-term planning and management

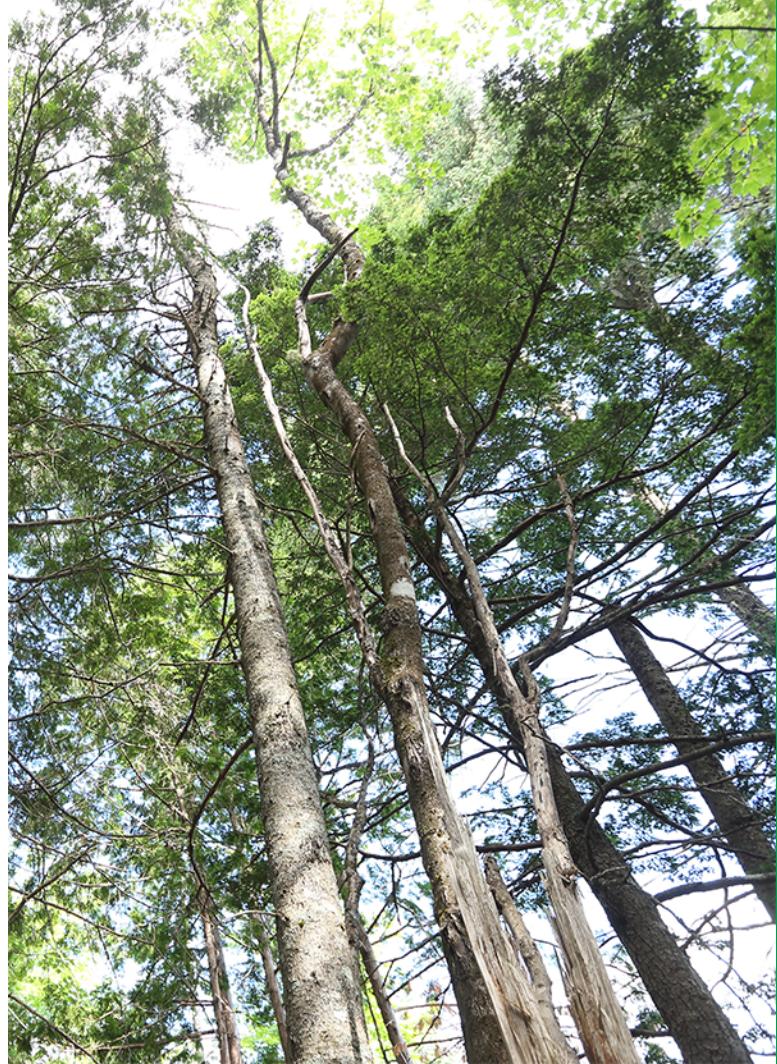




PARTNERING TO IMPROVE CLIMATE CHANGE BENEFITS OF MANAGED FORESTS

Assessing and Monitoring the Influence of Forest Management Practices in the Acadian Forest Region

- Study and improve climate change benefits provided by working forests relative to:
- Soil Productivity
- Carbon Storage
- Conservation outcomes



CHIPOTLE: April 2019 SUSTAINABILITY REPORT

In addition to piloting unique programs to reduce waste like the gloves to bags program, the 2018 Sustainability Report shares Chipotle's 2018 accomplishments towards global sustainability.

Highlights from the report include “100% of the paper in cups were Sustainable Forestry Initiative Certified”.

The screenshot shows the Chipotle Mexican Grill website. At the top, there is a navigation bar with links to HOME, NEWS RELEASES, MEDIA KIT, FEATURED CONTENT, IN THE NEWS, MEDIA CONTACTS, ALERTS, and INVESTOR RELATIONS. Below the navigation bar, a banner headline reads "Chipotle Issues New Sustainability Report And Shares Progress On Waste Diversion Goal Of 50% By 2020". Underneath the banner, a sub-headline says "Transitioning the definition of trash; turning plastic gloves into plastic bags". The main content area contains several paragraphs of text about the company's sustainability efforts, including the "gloves to bags" program and its impact on waste reduction. A sidebar on the right lists various sustainability milestones achieved by 2018, such as 100% of napkins and paper bags made from 100% recycled fiber and 100% of paper in cups being Sustainable Forestry Initiative Certified. At the bottom of the page, a call to action encourages visitors to "By 2020, Chipotle is committing to:



In 2018,

100% OF OUR BAGS

were made with
100% recycled content

100% OF OUR NAPKINS

were made with
100% recycled fiber

100% OF THE PAPER IN OUR CUPS

was Sustainable Forestry
Initiative (SFI) Certified

100% OF OUR
BOWLS & KIDS
MEAL TRAYS
were made with
100% compostable
plant-based fiber

88% OF OUR
RESTAURANTS
HAD A DIVERSION
PROGRAM
recycling and/or
compost for packaging

Our current sustainable packaging goals are to:

- Reduce the amount of plastic in our cutlery by 20% by the end of 2020
- Pilot a recyclable or compostable cup and lid by the end of 2020
- Increase units per case to reduce the amount of boxes (and cardboard) shipped
- Expand the closed-loop glove-to-bag pilot program to include more restaurants
- Offer a diversion program (recycling and/or compost) at 100% of our restaurants by 2020

CLIMATE SMART FORESTRY

New Objective:

- Requires a program to **identify climate change risks** to forest and forest operations and the development of adaptation objectives and strategies.
- And a program to **identify opportunities** to mitigate climate-related impacts associated with forest operations.



Blue Sky – To Address Climate Change

How do we address a range of forest values, which incorporate climate objectives?

How do we harness the interest of the marketplace in sustainability, to motivate “climate smart” forest management?

How do we ensure that the attributes of long-lived forest products are factored in?

It's an exercise in optimization....



CRITICAL ELEMENTS FOR PROGRESS



- Acknowledge that managed forests play a role
- Expansion of the idea of “Sustainability” to include expectations of climate outcomes
- Better measures of climate values in managed forests, including long-lived wood products
- Policies and profit-driven practices that reflect these values – and enable large-scale adoption



QUESTIONS?

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