
Mission TREEING 2030: Our Long-Term Vision

**Announcing the formation of a forestry fund
aimed towards decarbonization and biodiversity conservation**

Toshiro Mitsuyoshi
President and Executive Officer
Sumitomo Forestry Co.

Today's Agenda

Part 1: Our Long-Term Vision

- **Mission TREEING 2030**
- **Updates**

Part 2: Our forestry fund

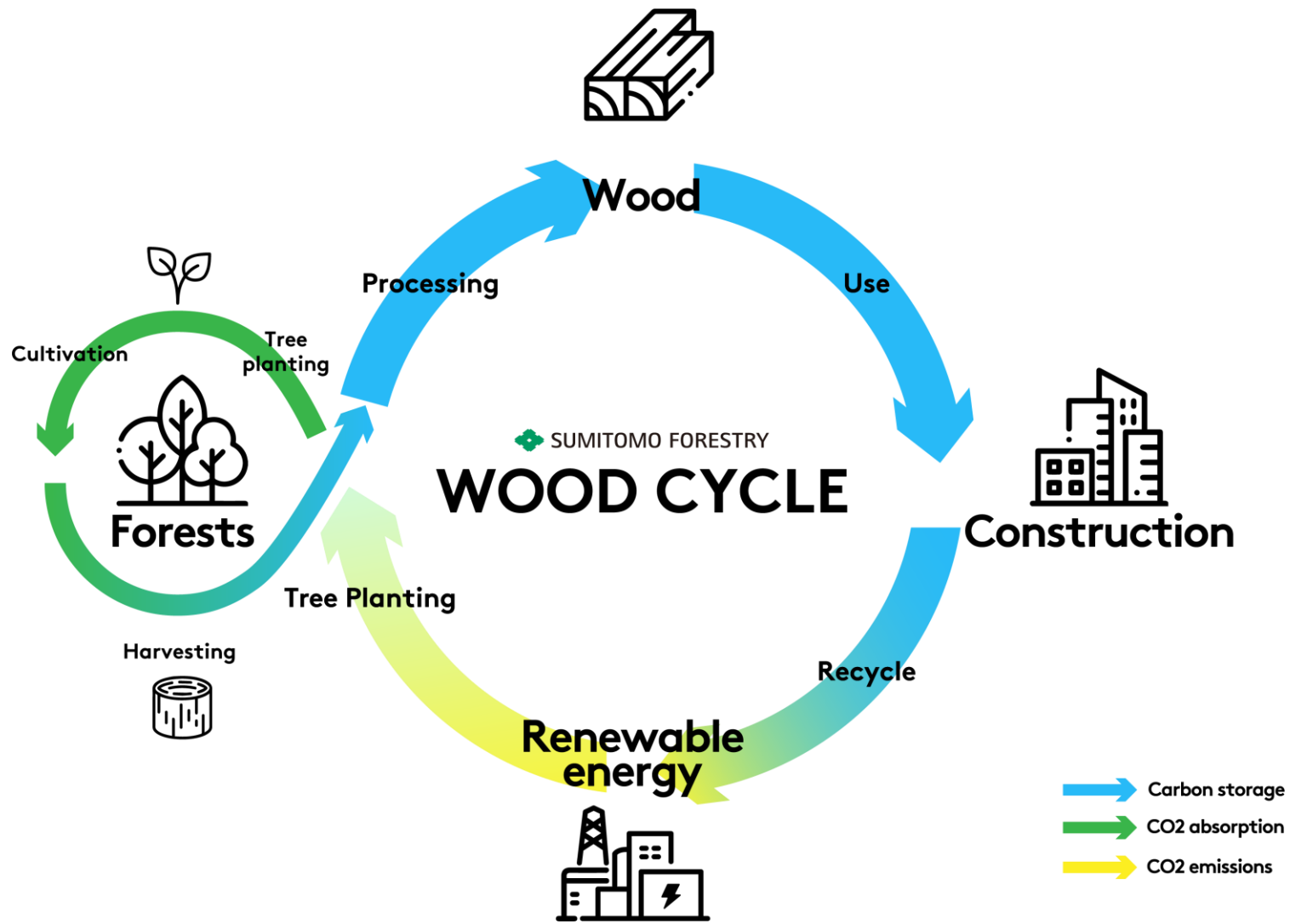
- **Background**
- **Overview and details**
- **Summary and future goals**

Part 1

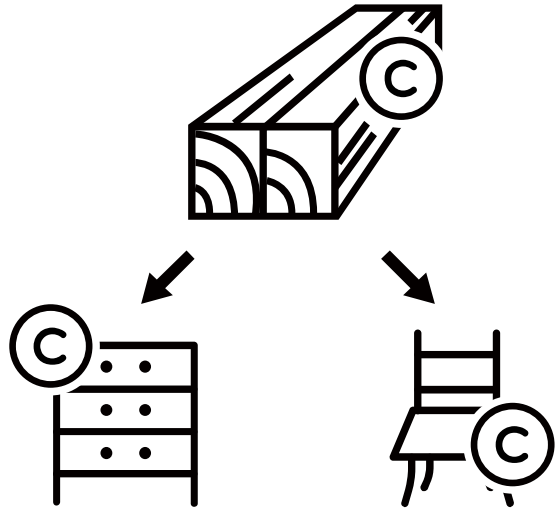
Our Long-Term Vision

Part 1: Our Long-Term Vision

Mission TREEING 2030



Carbon sequestration



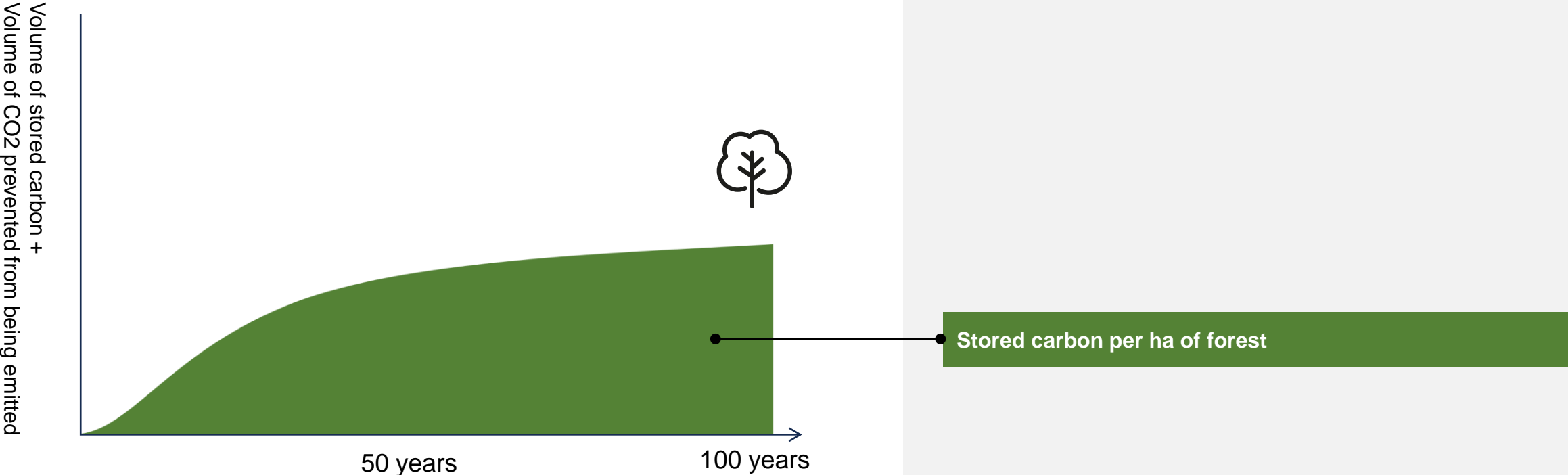
Carbon sequestration refers to a tree's ability to capture CO₂ and store it inside as carbon. By utilizing harvested wood in buildings, furniture, and other wood products, we can prevent the carbon from releasing into the atmosphere for a long period of time.

We can also limit fossil fuel-based CO₂ emissions by constructing more buildings from wood—a process that emits few CO₂ emissions compared to other types of construction—and promoting the use of wood for generating bioenergy.

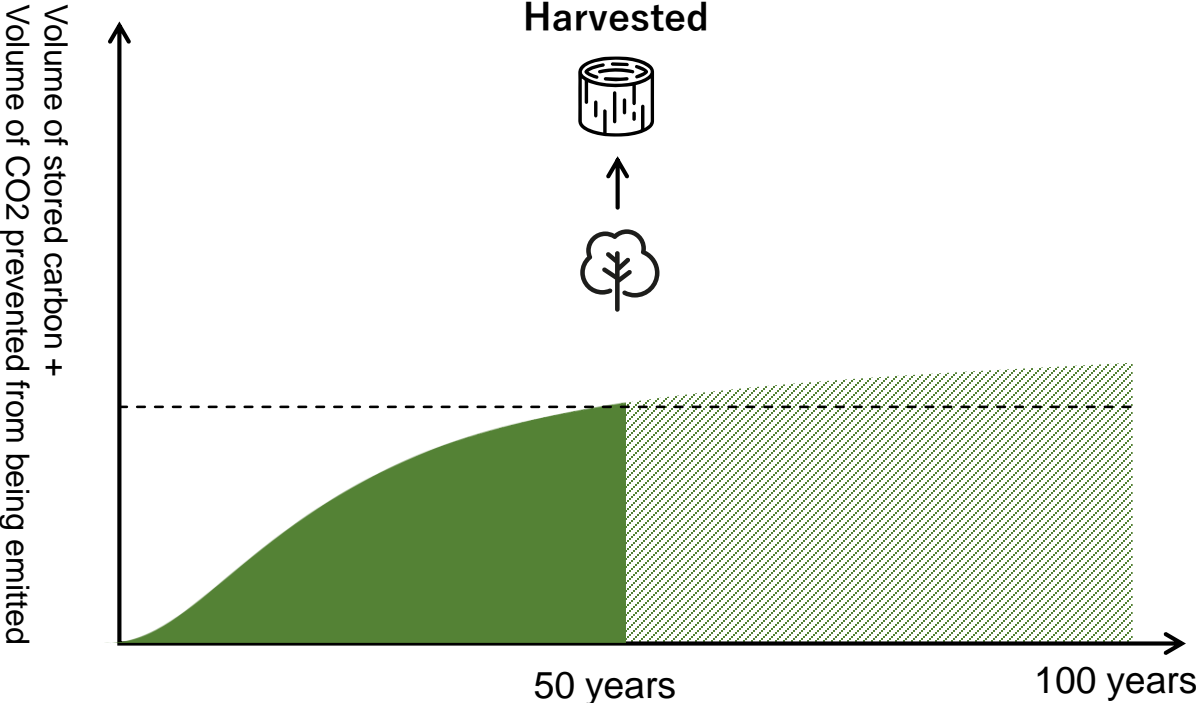
In other words...

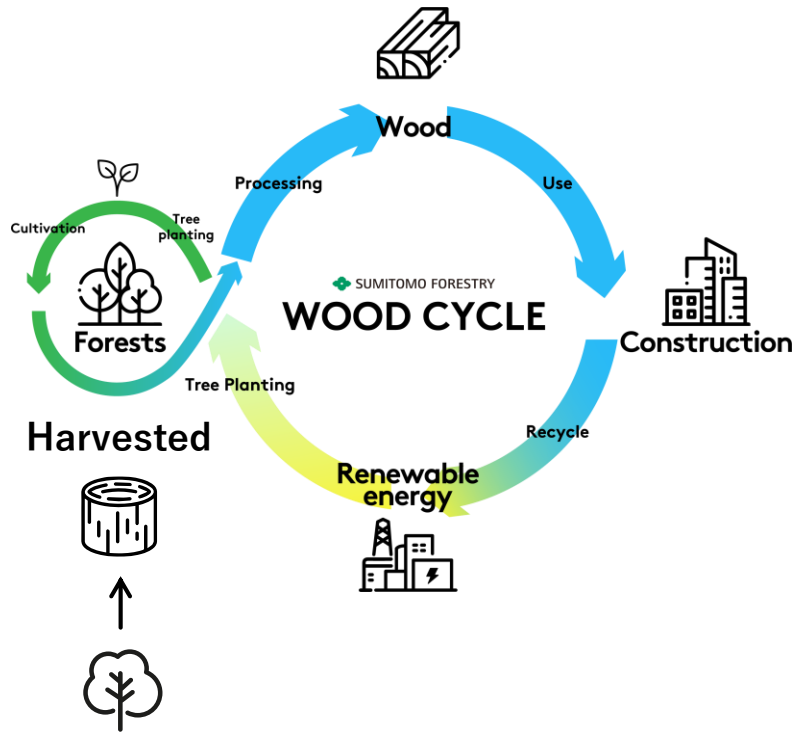
By harvesting trees, replanting trees, and using the harvested wood, we can increase the global volume of stored carbon and contribute to decarbonization.

A single cypress tree stores less additional carbon after maximizing the volume of CO2 it can capture.

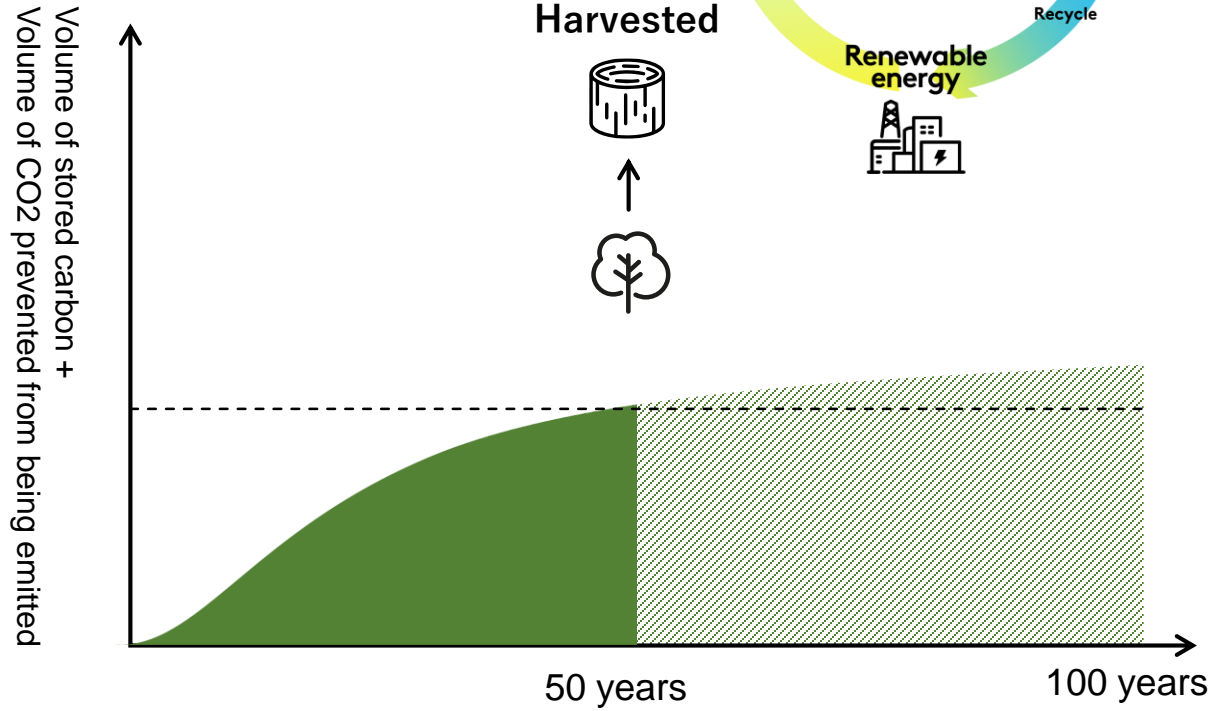


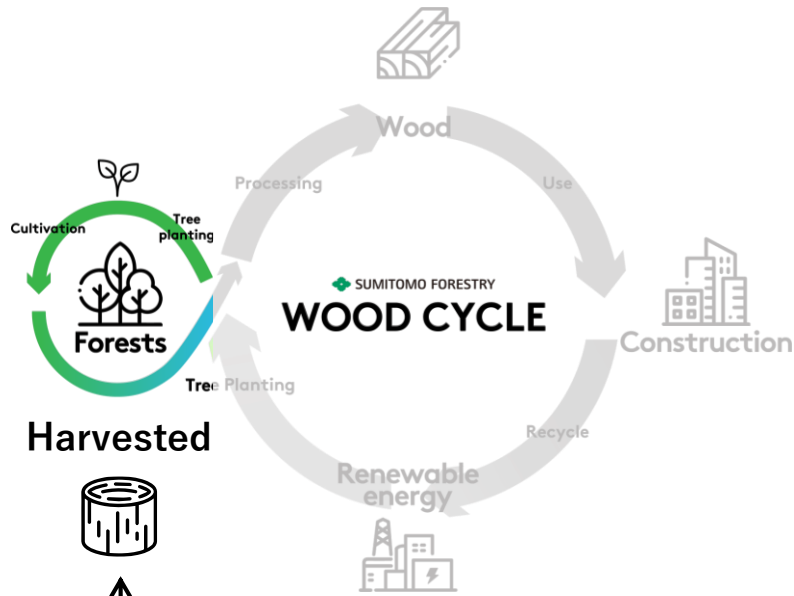
On first glance, harvesting a tree may appear to cause the volume of stored carbon to decrease.



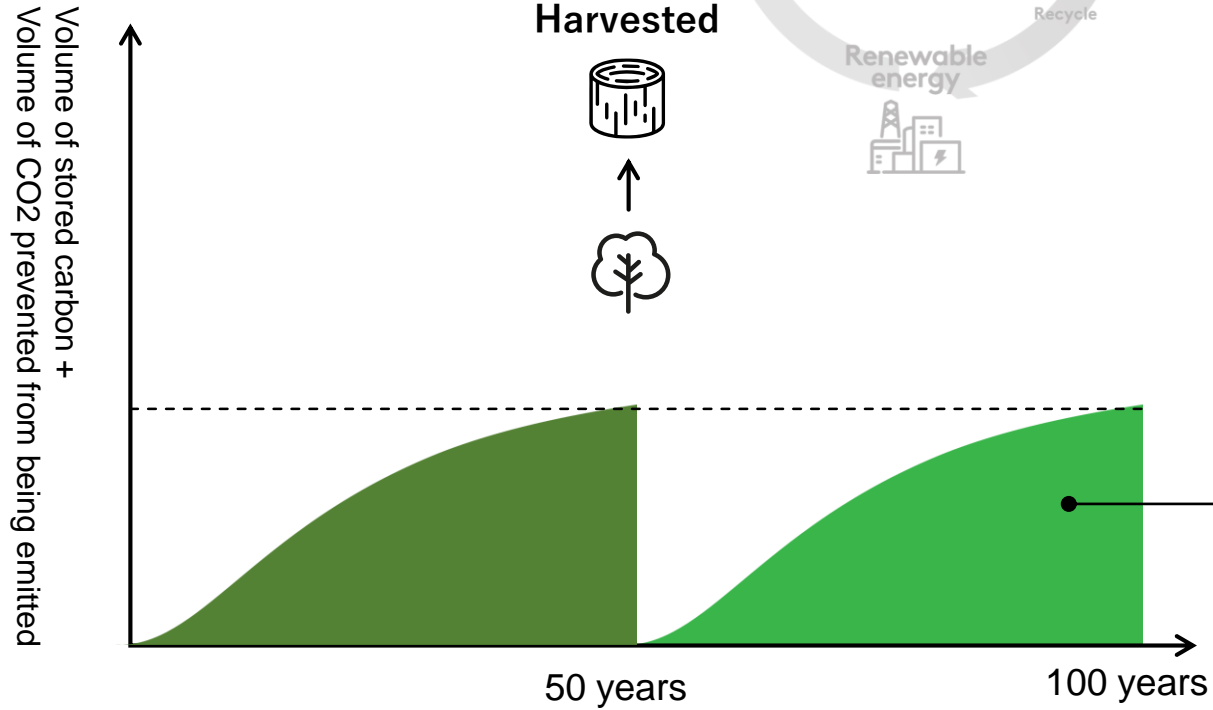


However, after harvesting the wood, we replant trees and use the wood for a variety of purposes.

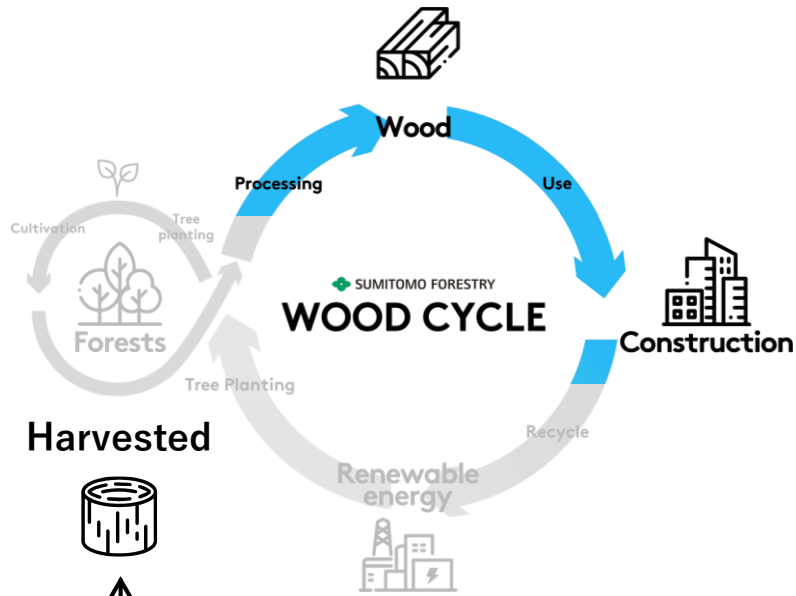




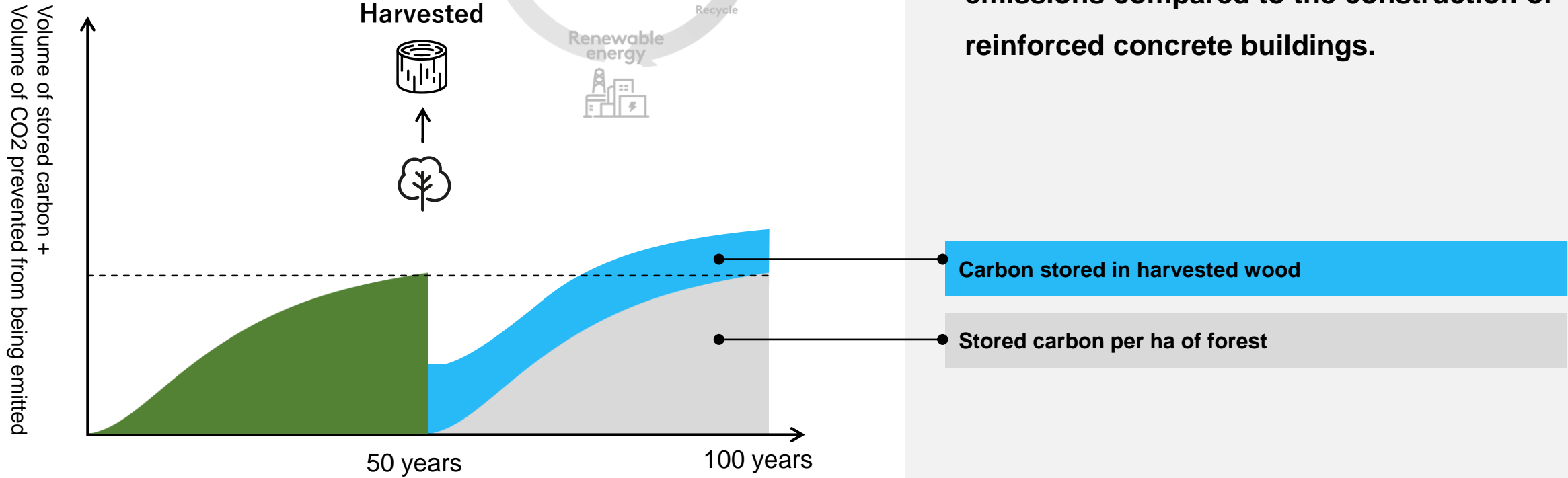
The young, replanted trees capture CO2 at a rapid pace, increasing the world's volume of stored carbon.

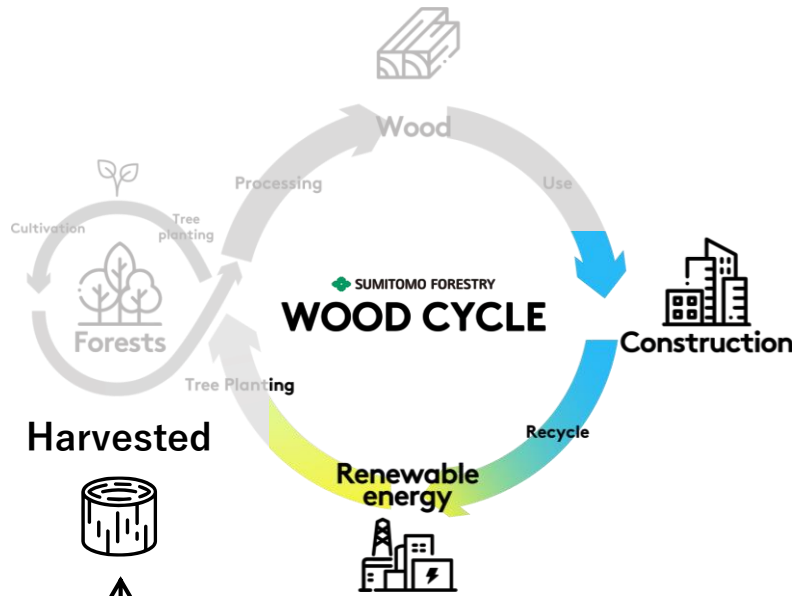


Stored carbon per ha of forest

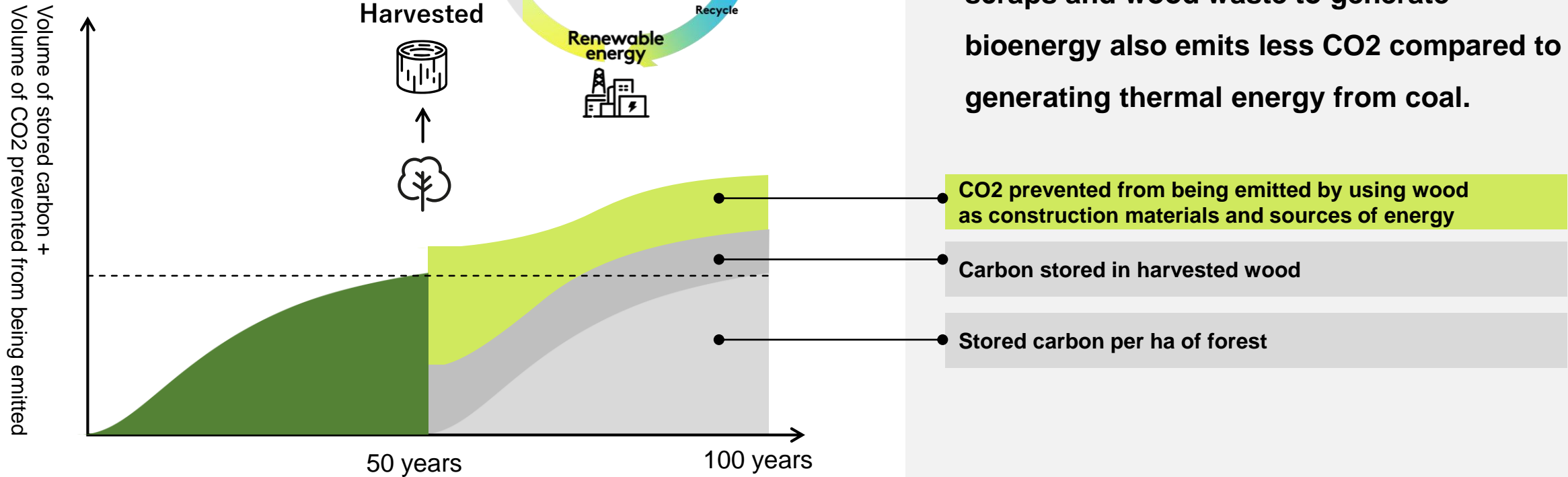


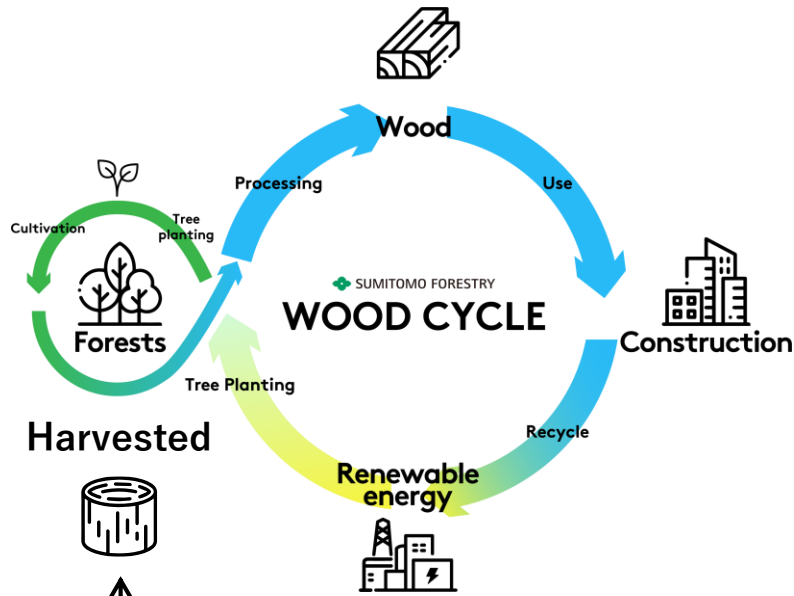
Then, by using the carbon-containing wood in buildings and furniture, we keep the carbon stored while also reducing CO2 emissions compared to the construction of reinforced concrete buildings.



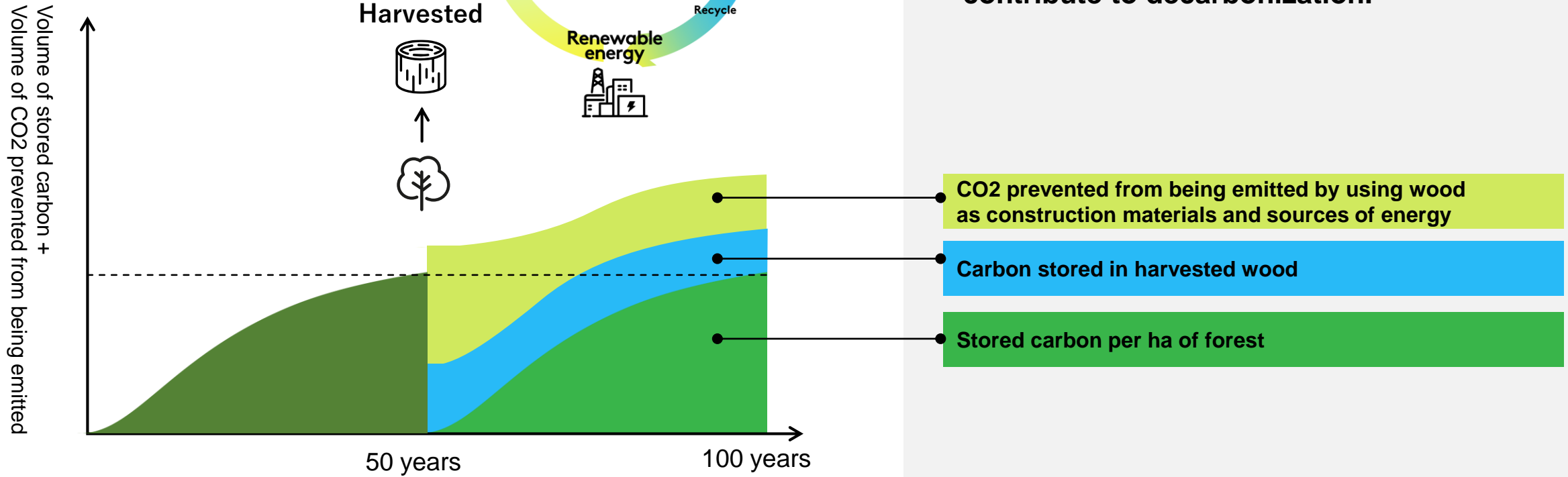


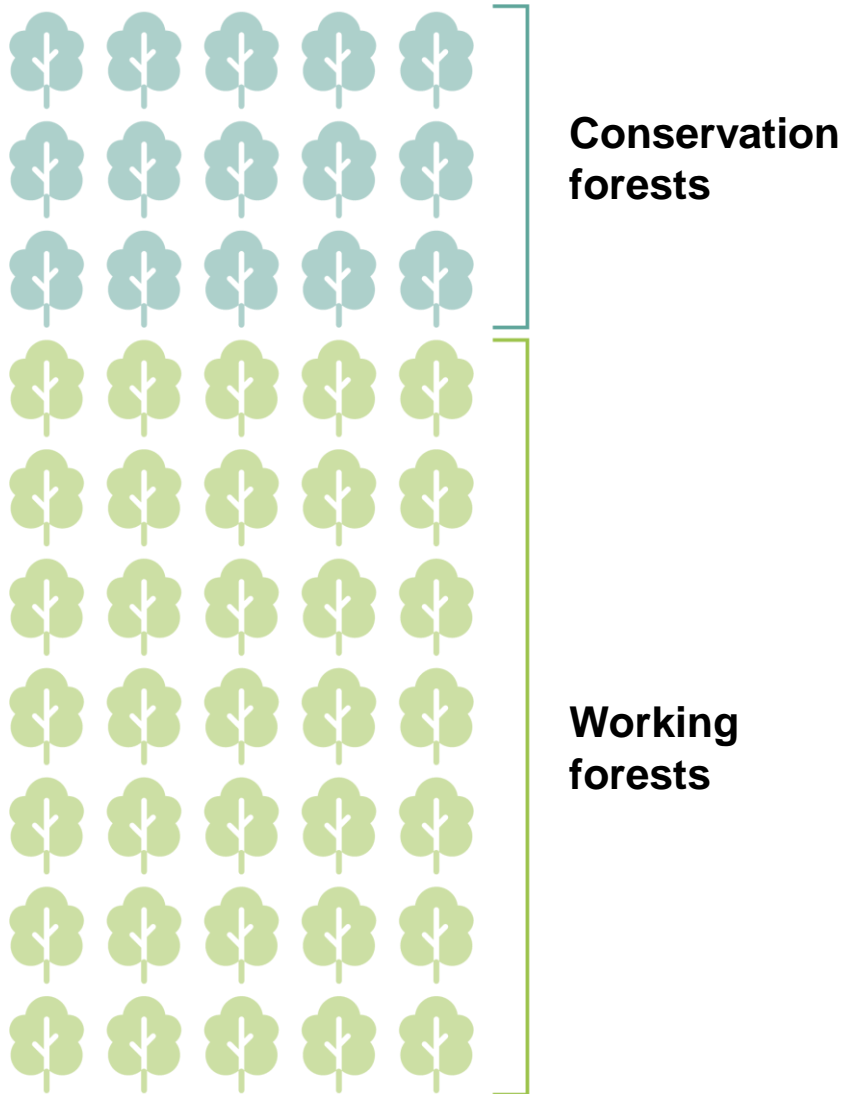
Constructing wood buildings emits much less CO2 compared to constructing reinforced concrete buildings. Using wood scraps and wood waste to generate bioenergy also emits less CO2 compared to generating thermal energy from coal.





By harvesting wood in a controlled way, replanting trees, and promoting the use of wood throughout society, we can contribute to decarbonization.





We do not harvest and replant all our forests. Instead, we zone forests into conservation forests intended for expanding our conservation efforts and working forests intended for wood production.

Conservation forests

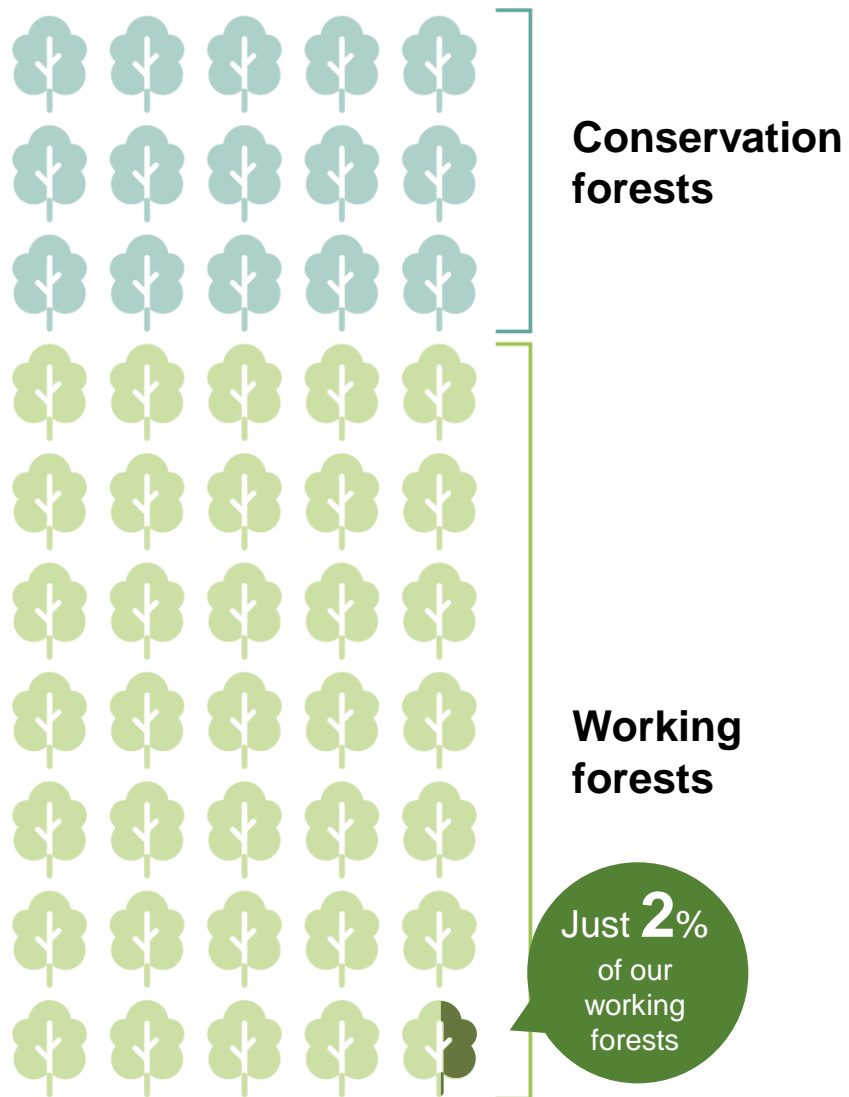


Forests prized for their shared benefits, such as biodiversity conservation, preventing landslides and contributing to our culture of wellbeing

Working forests



Forests harvested and replanted to provide stable wood production for construction and furniture making



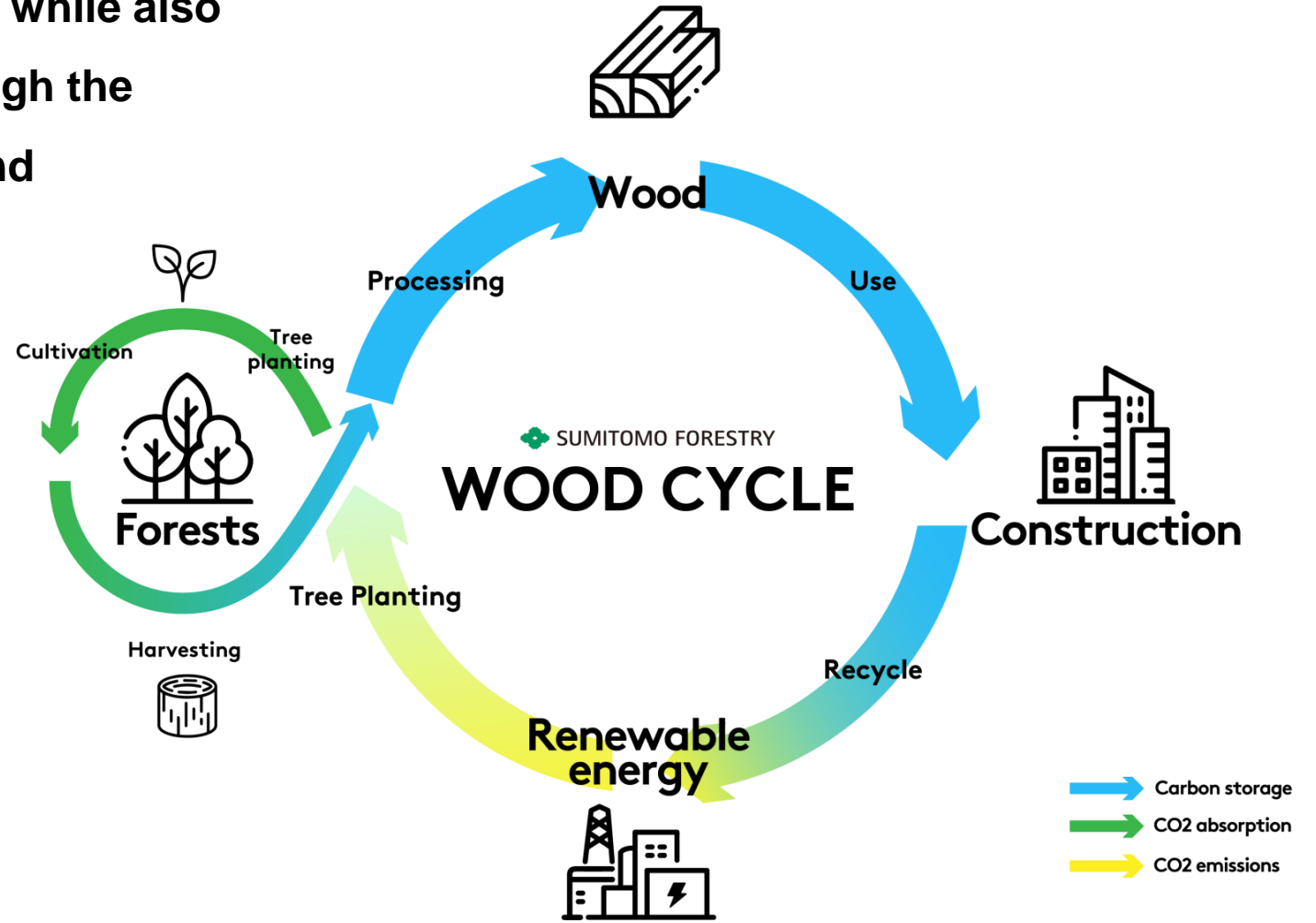
✓ Rejuvenating our Japanese cedar forests over the course of 50 years will allow us to consistently increase the total volume of captured CO₂.

✓ We set aside just 2% of our working forests per year for harvesting and replanting.



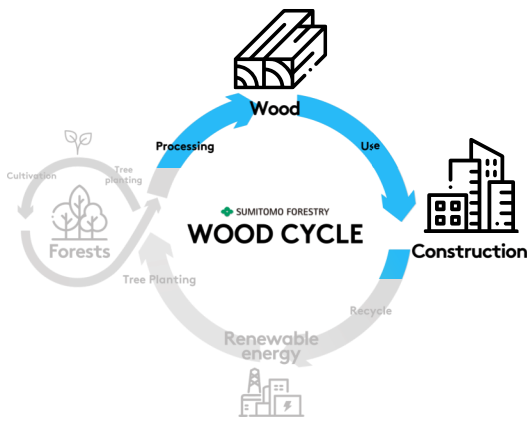
Rejuvenating our forests while protecting their ecosystem in order to increase the total volume of absorbed CO₂ (Sustainable forest management)

In this way, we ensure our forests are harvested and replanted in a controlled manner, while also contributing to decarbonization through the promotion of wood in construction and renewable energy.



Part 1: Our Long-Term Vision

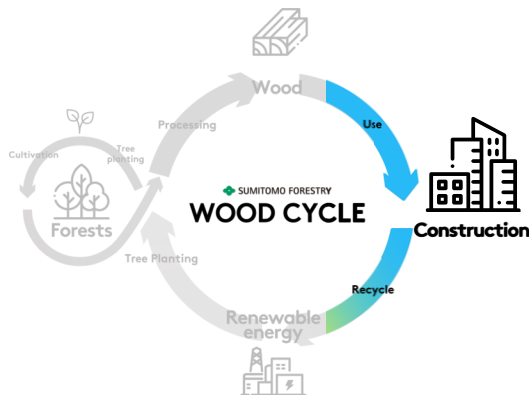
Updates



Promoting green building through a Japanese version of One Click LCA

We localized One Click LCA into Japanese, and it is now being used at large construction firms and architectural offices across Japan. The software visualizes the volume of carbon dioxide emitted during construction and will help promote green building throughout the Japanese construction industry.





Non-residential buildings that contribute to decarbonization

We are building wood office buildings in Melbourne and Dallas. By reducing CO2 emissions through the use of wood instead of steel or concrete, the buildings are contributing to decarbonization.

■ Melbourne (15-story wood office building)



Completion date
Volume of stored carbon



Artist's rendering

: September 2023
: 2,300 t-CO2eq

A net-zero carbon building

■ Dallas (7-story wood office building)



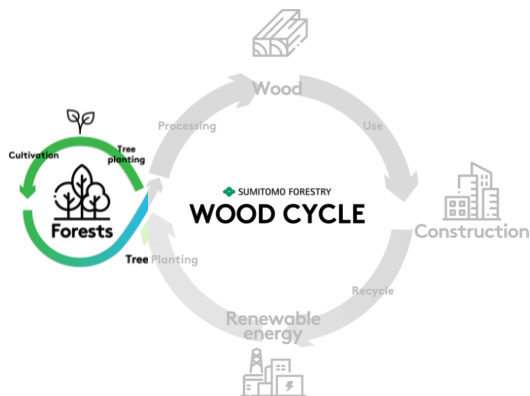
Completion date
Volume of stored carbon



Artist's rendering

: October 2023
: 3,800 t-CO2eq

Much lower CO2 emissions than typical construction



Developed AI model for monitoring tropical peatlands

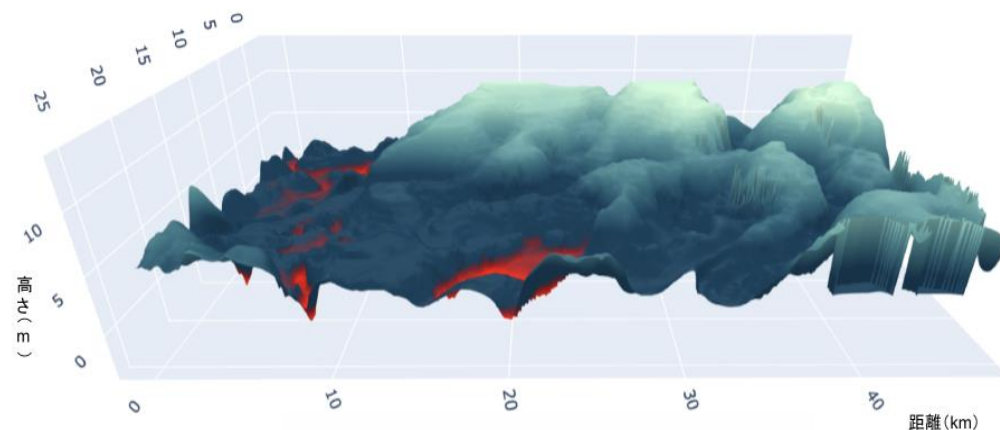
NeXT FOREST, a joint venture with IHI, has developed an early AI model for monitoring tropical peatlands. By predicting underground water levels, the model can help the world control CO2 emissions from tropical peatlands.

What are tropical peatlands?

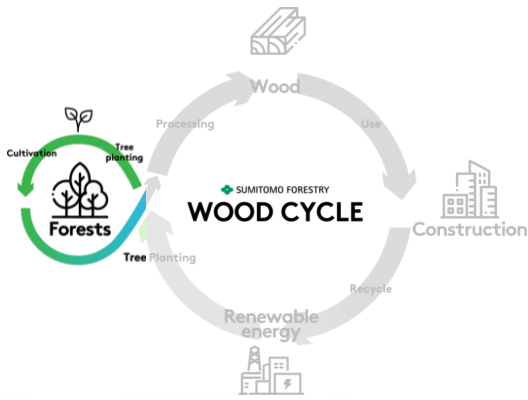
Tropical peatlands are composed of layers of organic deposits formed from dry vegetation. They are **a rich source of water and carbon**.

The world's tropical peatlands are believed to be storing a combined 89 billion or more tons of carbon—**10 times the world's carbon emissions** in 2017.

- A 3D topographical map reflecting underground water levels forecast by the AI



NEXT
FOREST



Launched a new project to conserve Indonesian mangroves

By managing Indonesian mangroves as conservation forests, we hope to reduce the CO2 emissions. Our goals are to protect the mangrove ecosystem and generate blue carbon credits.*1

*1: Carbon credits related to carbon stored in marine ecosystems.



An aerial shot of a mangrove we own and manage

Mangrove acreage involved in project
9,738ha

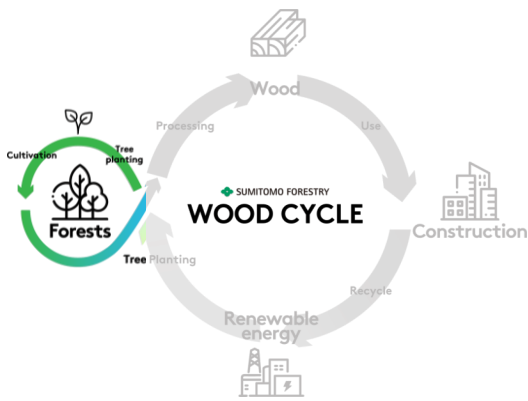


Acreage of owned / managed forests

Currently **Approx. 290,000** ha



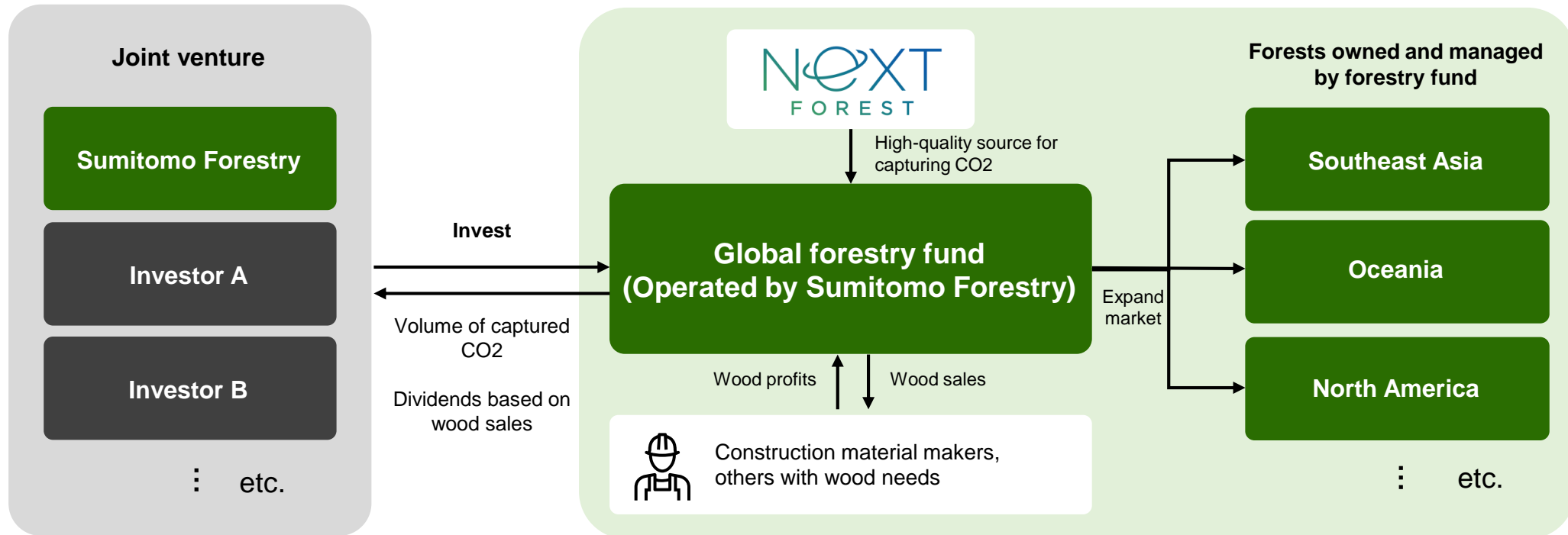
2030 Goal **500,000** ha



Framework of large-scale forestry fund for decarbonization

We have established a large-scale forestry fund in the United States to promote decarbonization. It is being funded by 10 Japanese companies.

* More details to come later on in the presentation.



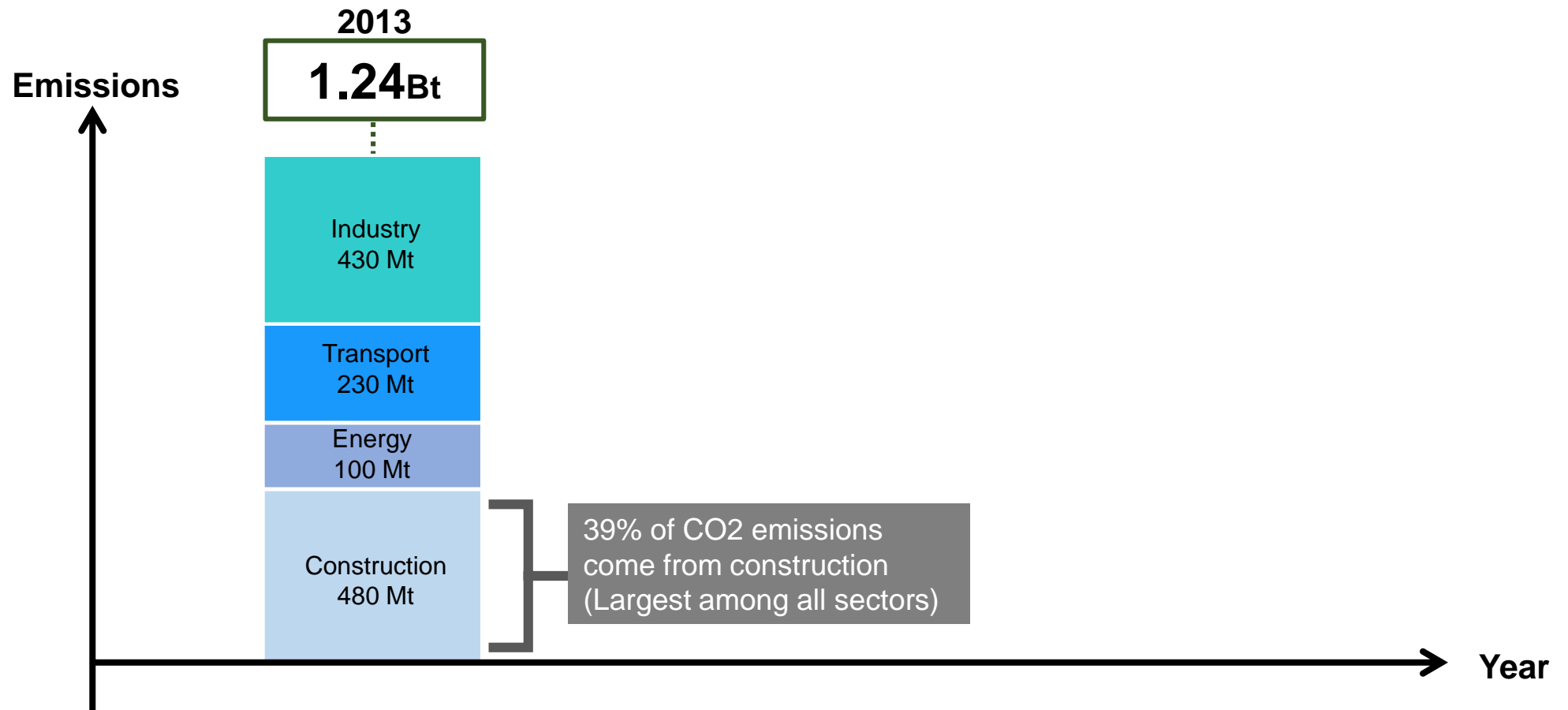
Part 2

Our forestry fund

Part 2: Our forestry fund

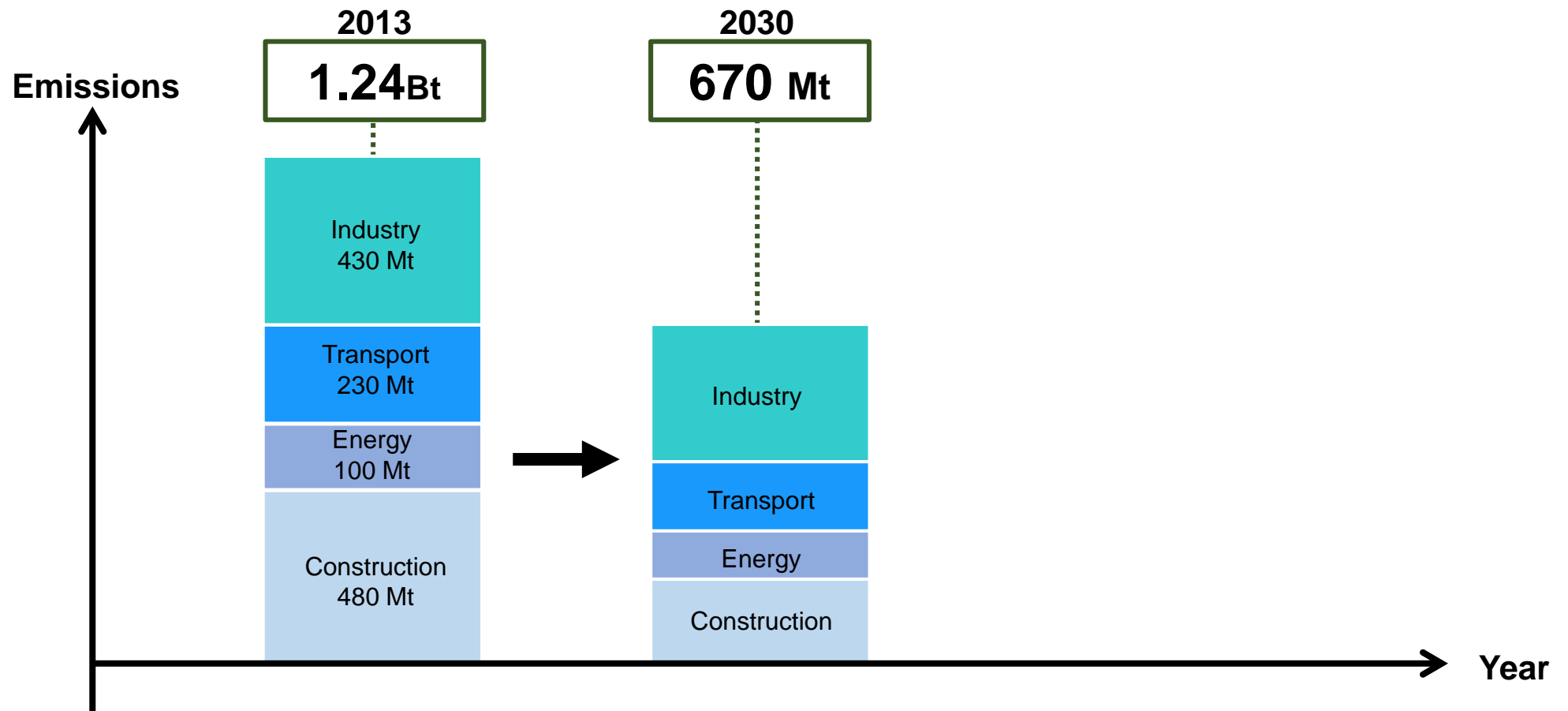
Background

CO2 emissions in Japan



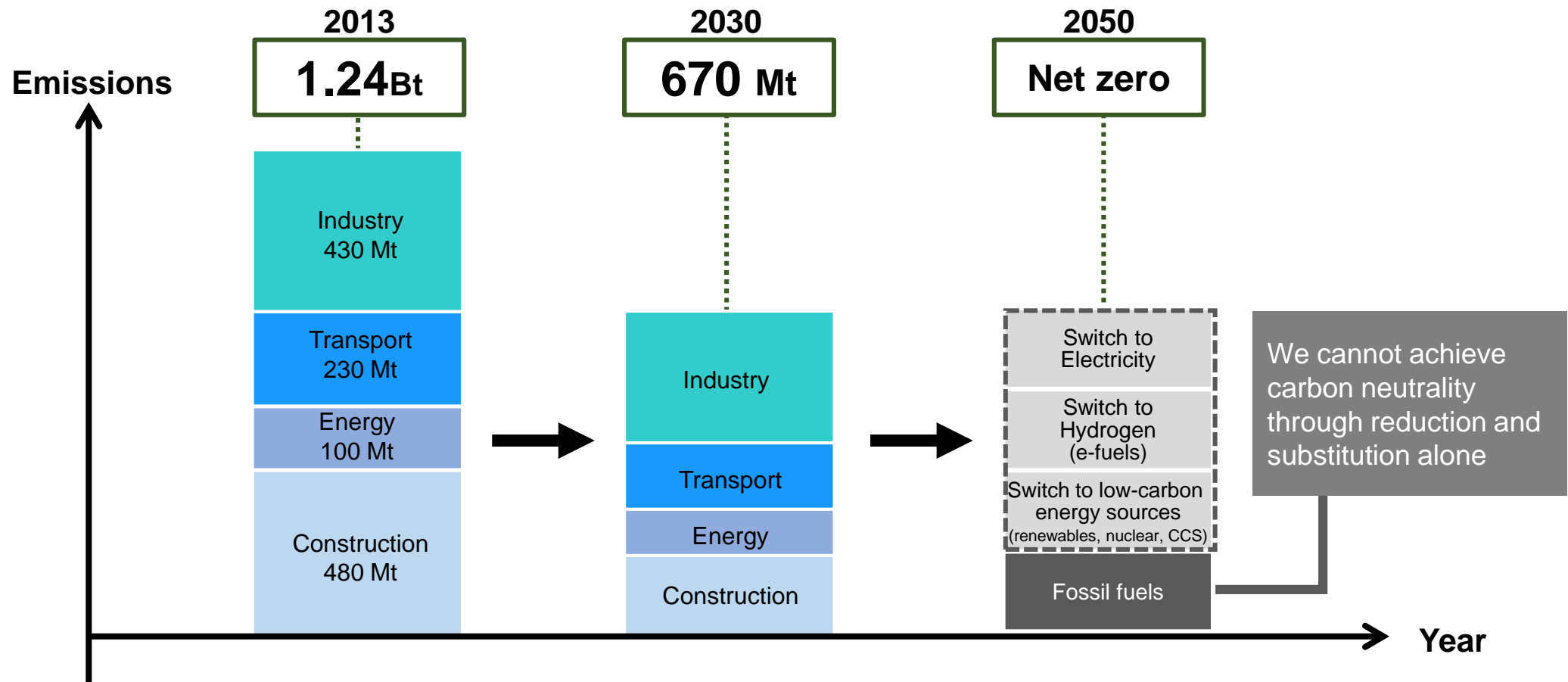
Sources: “Realization of Carbon Neutrality in 2050” diagram in “Green Growth Strategy Through Achieving Carbon Neutrality by 2050,” published by the Ministry of Economy, Trade and Industry; “Greenhouse Gas Targets/Criteria for Each Category” in the Climate Change Adaptation Plan approved by the Cabinet on October 22, 2021.

CO2 emissions in Japan



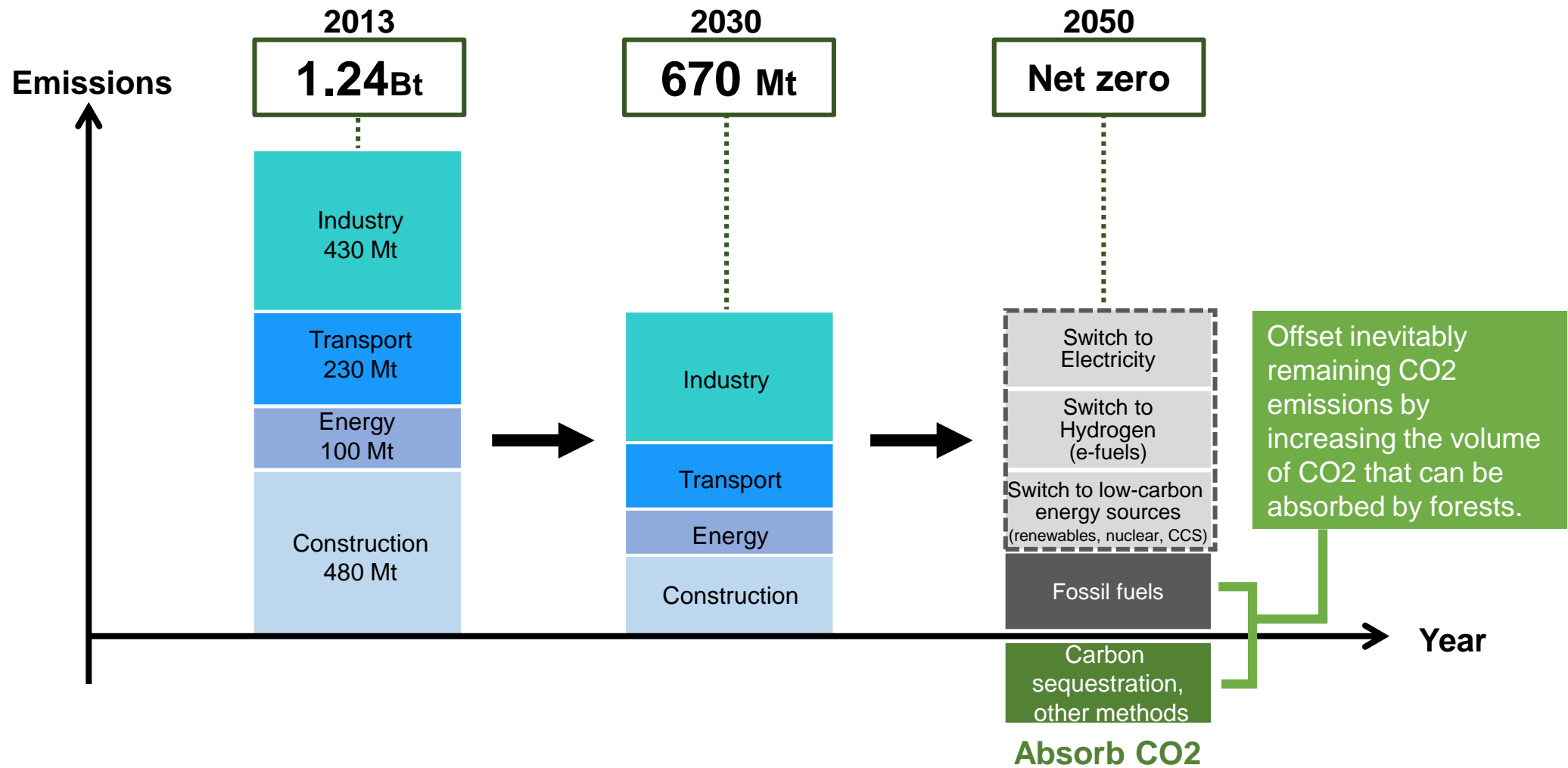
Sources: "Realization of Carbon Neutrality in 2050" diagram in "Green Growth Strategy Through Achieving Carbon Neutrality by 2050," published by the Ministry of Economy, Trade and Industry; "Greenhouse Gas Targets/Criteria for Each Category" in the Climate Change Adaptation Plan approved by the Cabinet on October 22, 2021.

CO2 emissions in Japan



Sources: “Realization of Carbon Neutrality in 2050” diagram in “Green Growth Strategy Through Achieving Carbon Neutrality by 2050,” published by the Ministry of Economy, Trade and Industry; “Greenhouse Gas Targets/Criteria for Each Category” in the Climate Change Adaptation Plan approved by the Cabinet on October 22, 2021.

CO2 emissions in Japan

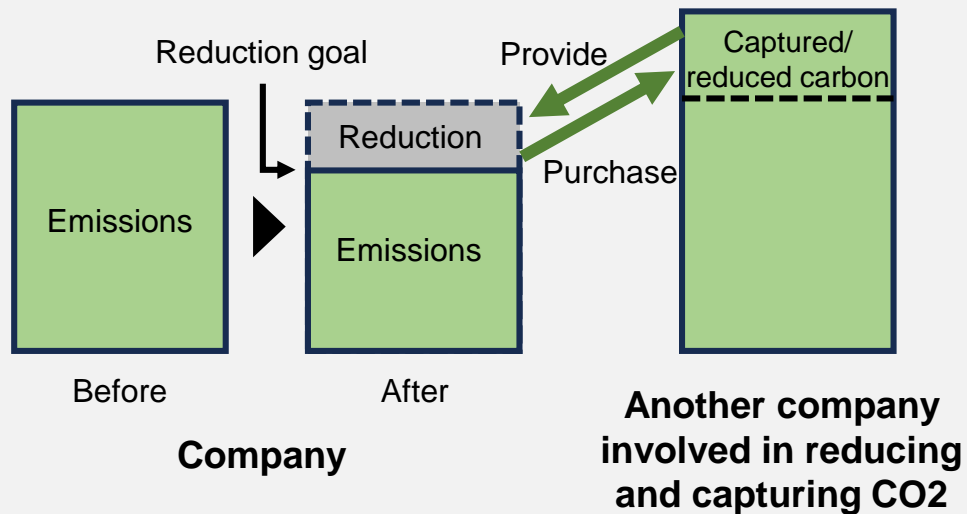


Sources: “Realization of Carbon Neutrality in 2050” diagram in “Green Growth Strategy Through Achieving Carbon Neutrality by 2050,” published by the Ministry of Economy, Trade and Industry; “Greenhouse Gas Targets/Criteria for Each Category” in the Climate Change Adaptation Plan approved by the Cabinet on October 22, 2021.

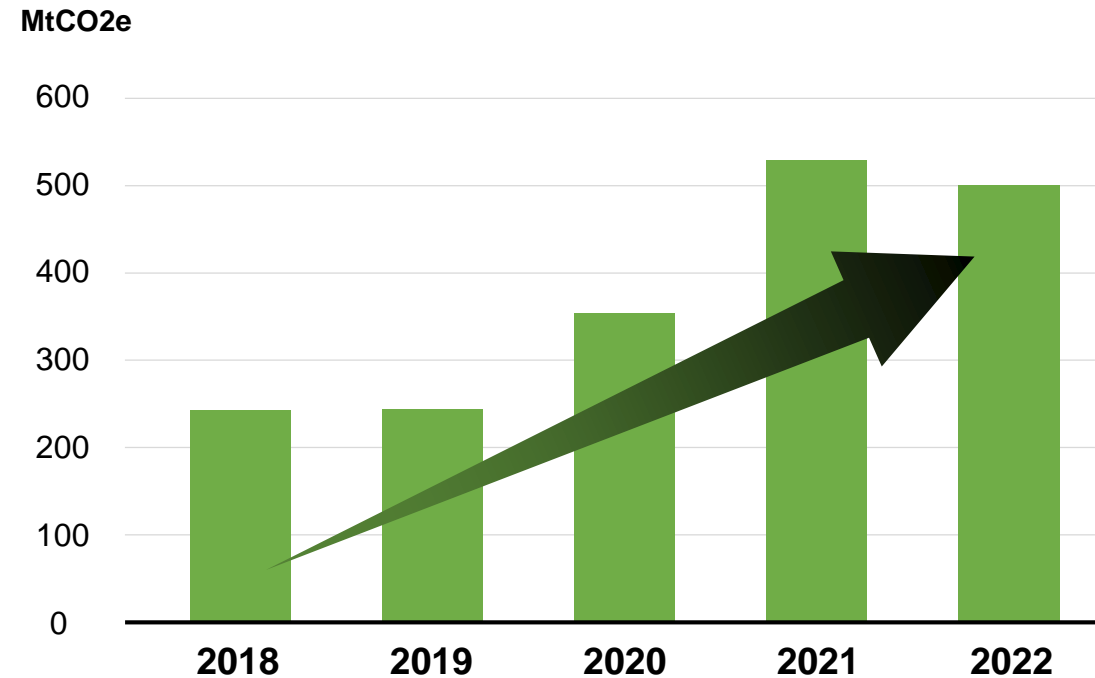
From a corporate perspective, carbon credits are becoming attractive

Carbon credits

Companies that cannot reduce their carbon dioxide emissions in spite of their best efforts can offset these emissions by “purchasing” the carbon reductions and captured carbon of another company.



Carbon credits issued around the world



Source: A graph published in the World Bank’s “State and Trends of Carbon Pricing 2023”

How carbon credits are generated and issued

■ How credits are generated

Capture / Storage	NbS (Nature based)	<ul style="list-style-type: none"> • Forest management • Planting / replanting • Grassland conservation
	TbS (Technology based)	<ul style="list-style-type: none"> • DACCS* • Biocoal • BECCS**
Avoidance / Reduction	NbS (Nature based)	<ul style="list-style-type: none"> • Forest conservation • Peatland management
	TbS (Technology based)	<ul style="list-style-type: none"> • Renewables • Energy-cutting • Fuel substitution • Increased transport efficiency

* DACCS: Directly capturing CO2 in the atmosphere and storing it

** BECCS: Biofuels + CCS

■ How credits are issued

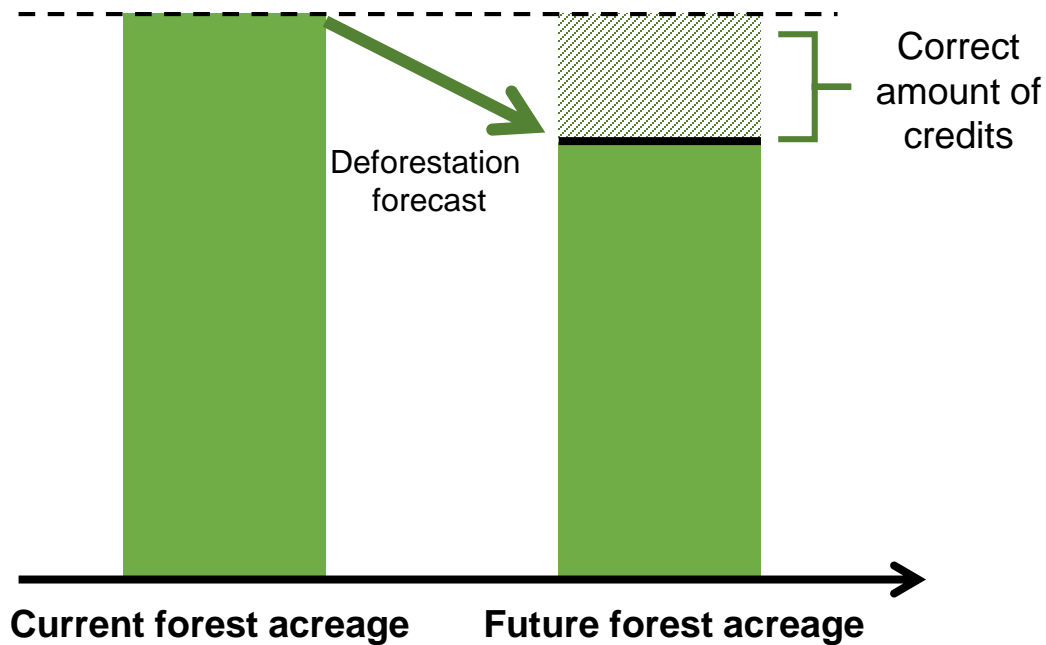
UN / Government	<p>CDM, JCM, J-Credits, etc.</p> <p>↓</p> <p>Strictly regulated, but have high integrity</p>
Private	<p>VCS, ACR, Gold Standard, etc.</p> <p>↓</p> <p>No legal regulations, but quality harder to guarantee</p>

Source: "Carbon Credit Report," published by the Ministry of Economy, Trade and Industry

But there is debate on what type of credit one should buy. There are reports of credits that don't reflect factual data.

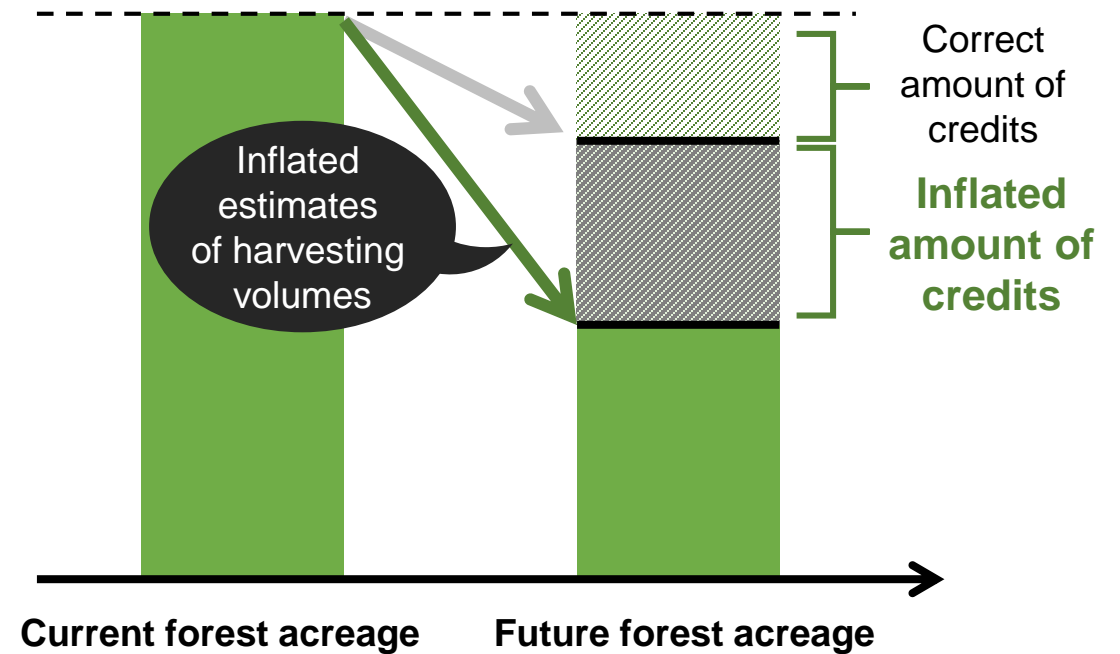
■ How forest conservation businesses may inflate data for credits

● Issuing credits correctly



* Assuming acreage is maintained through forest conservation

● Issuing credits based on inflated data

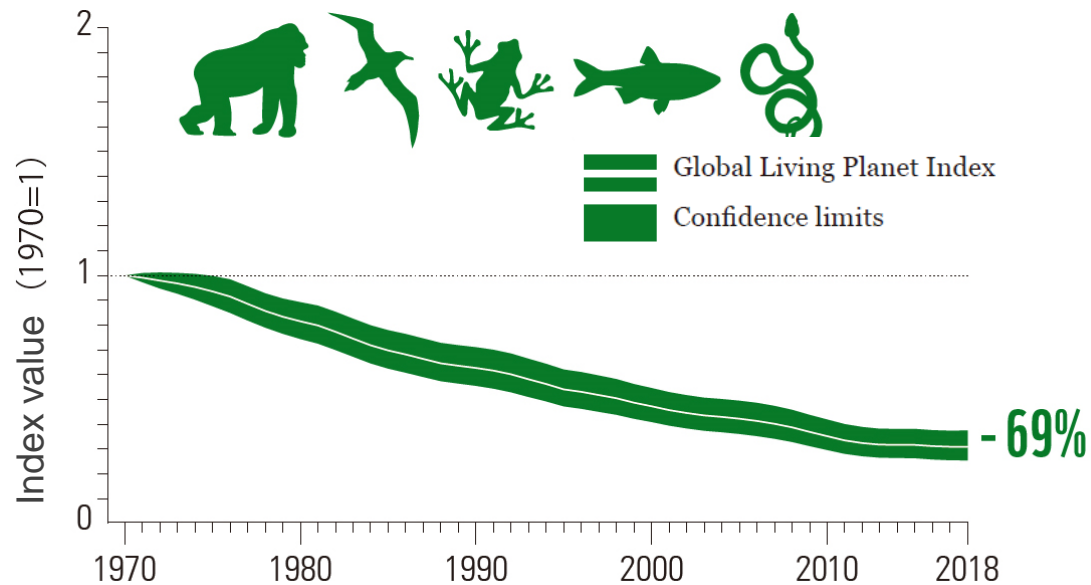


* Assuming acreage is maintained through forest conservation

Forests are also being increasingly valued for functions that shared benefit (e.g., biodiversity conservation and water supply purification)

■ Living Planet Index (LPI)

The LPI indicates the state of nature and biodiversity. From 1970 to 2018, biodiversity has dropped 69% in richness.



Source: “Living Planet Report 2022,” published by the WWF

■ “National Strategy for Biodiversity, 2023-2030” (Ministry of the Environment)

Key points

Fundamentally transforming society towards nature positivity

Preserving healthy ecosystems and maintaining or recovering nature’s gifts

Promoting socioeconomic activities that protect natural capital

Source: “National Strategy for Biodiversity, 2023 – 2030,” published by the Ministry of the Environment

Environmental issue



We cannot achieve decarbonization without carbon sequestration conducted by forests.

Corporate issue



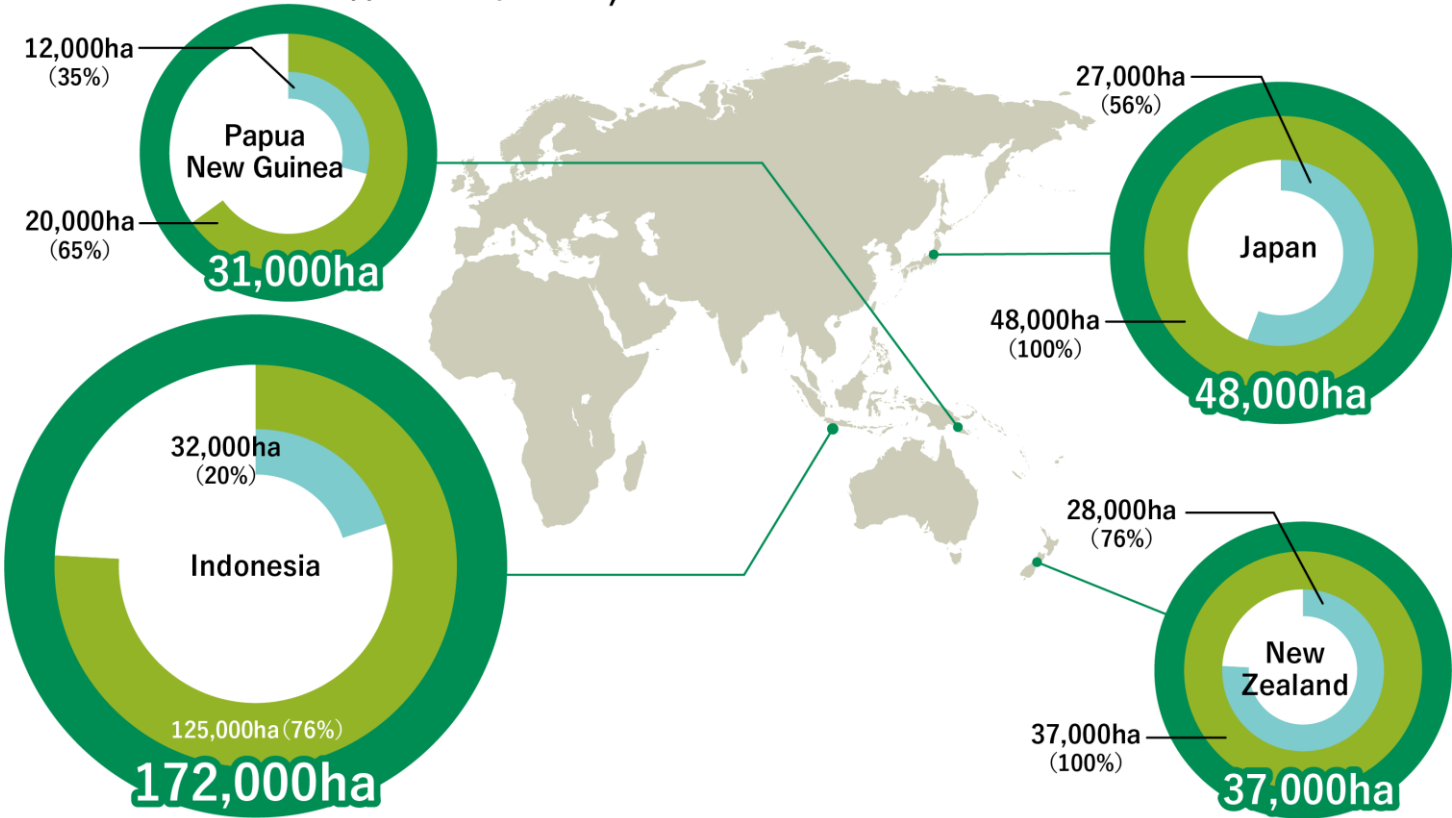
We must generate and use high-quality credits related not just to capturing CO₂, but also to preserving ecosystems.

Cyclical forest management across the world conducted by Sumitomo Forestry

Our forestry businesses across the world

Total area: Approximately **288,000**ha
 Certified forest area: Approximately **229,000**ha

Managed Area Certified Area
 Operations Area



288,000 ha
 Acreage of owned / managed forests

369,000 t
 Volume of CO2 we absorb annually

66.37 Mt
 Total volume of stored carbon
 (As of December 2022)

To spread this kind of cyclical forest management more widely in order to
accelerate decarbonization efforts across the world,
we established a global forestry fund with other Japanese companies

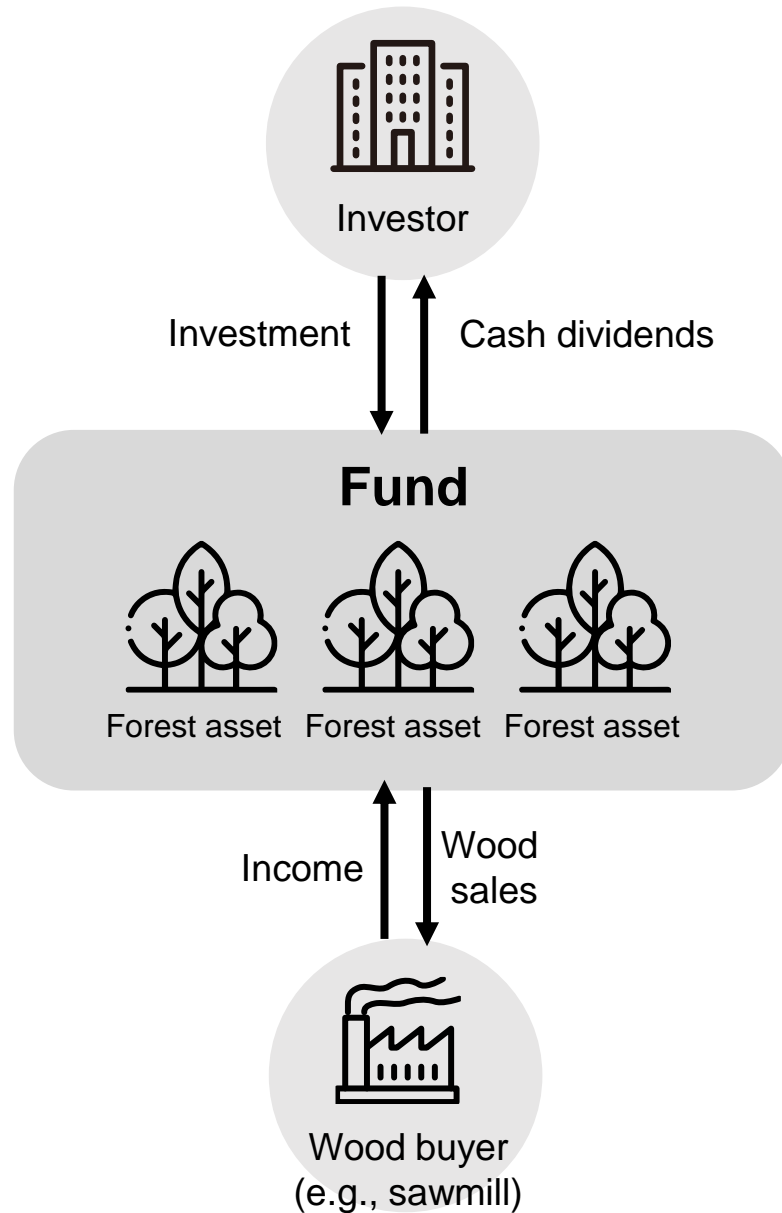
Part 2: Our forestry fund

Overview and details

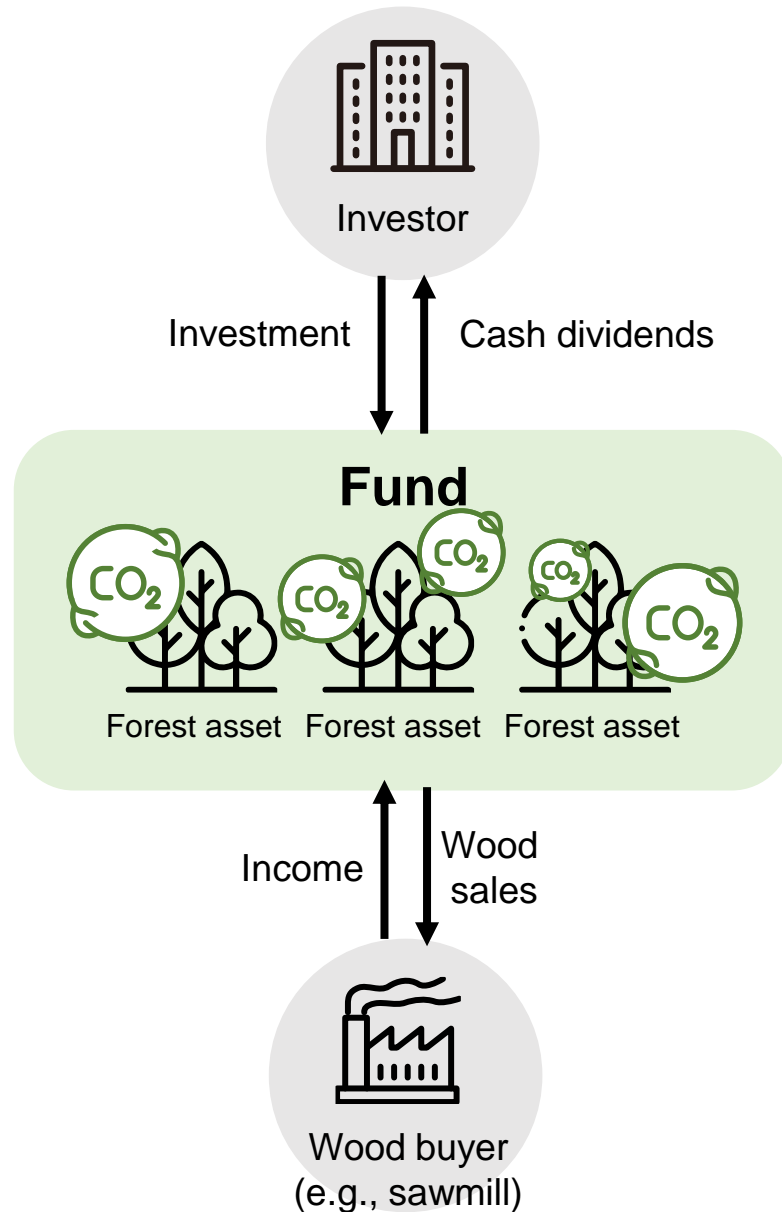
An aerial photograph of a vast, lush green forest valley. A river winds through the center of the valley, and a dirt road follows its course. The forest is dense and vibrant green, covering rolling hills and valleys. The sky is a pale, hazy blue, suggesting a clear day. The entire image is framed by a thin white border.

Eastwood Climate Smart Forestry Fund I

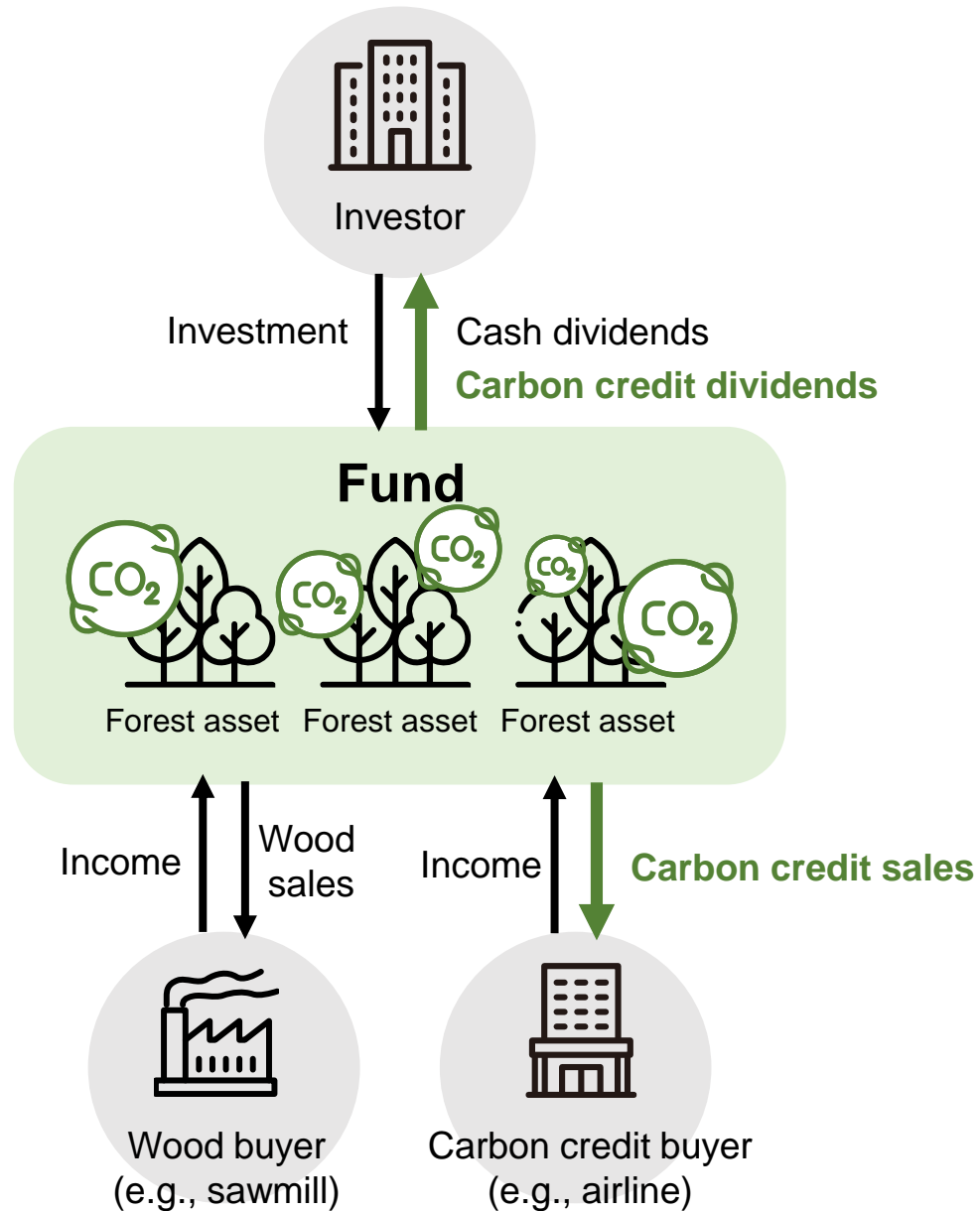
A large-scale forestry fund for promoting decarbonization



Generally speaking, a forestry fund involves gathering funding from investors to purchase and manage forests for the purpose of producing wood for sale.



Our fund involves properly managing the forests we purchase to increase the amount of absorbed CO2 while also preserving the health of these forests in terms of biodiversity and their ability to purify the water supply.



By increasing the volume of absorbed CO₂, we can issue **carbon credits** to investors and other companies to help them offset their CO₂ emissions.

Investors

Total investment
Approx.

60 billion JPY

*As of July 2023



Fund summary

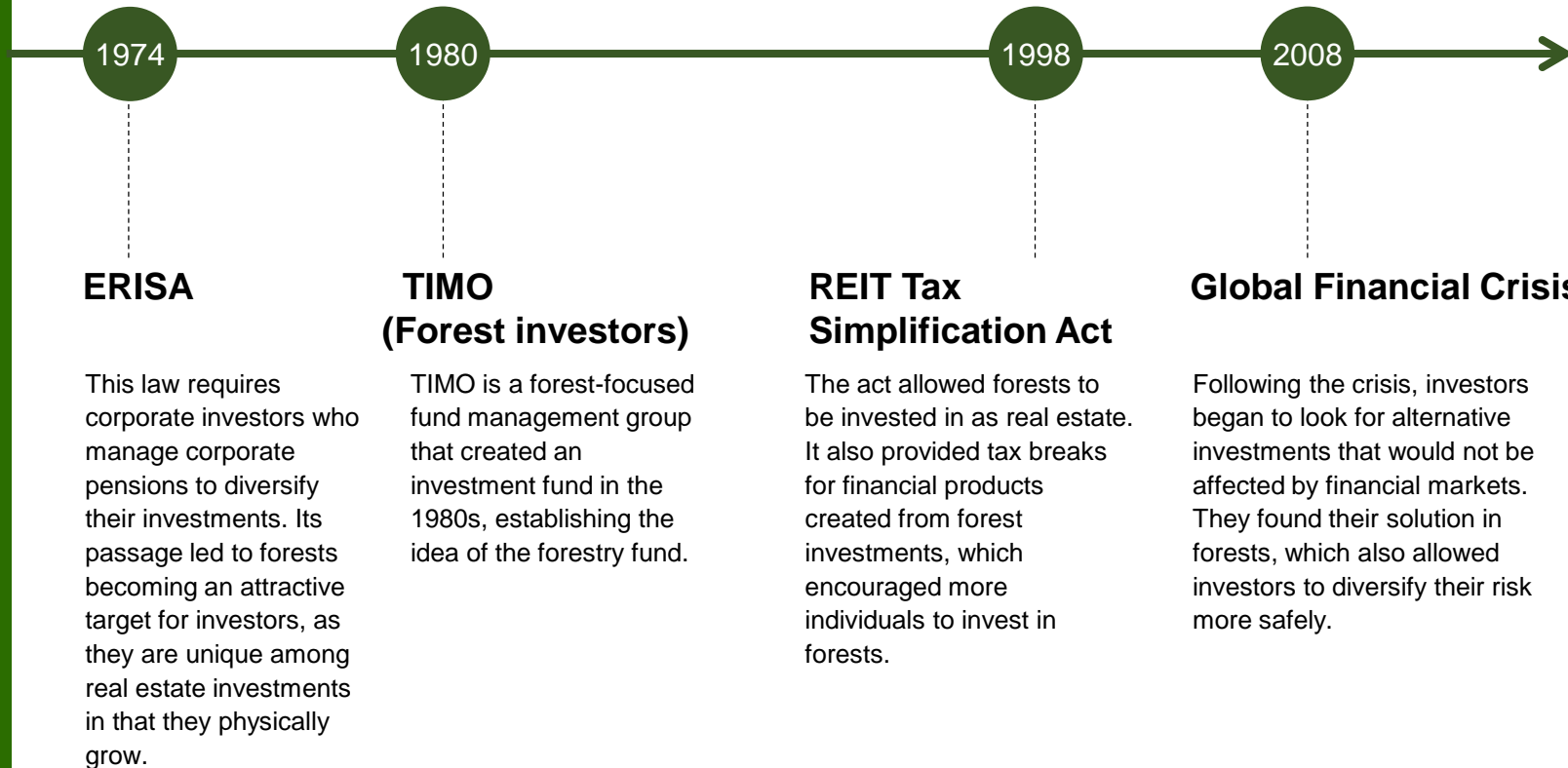
Name	Eastwood Climate Smart Forestry Fund I
Size	Approx. 60 billion JPY (415 million USD; based on exchange rate of 144.46 JPY to USD recorded on July 3, 2023)
Assets	Mainly forests in North America
Duration	15 years
Management	Eastwood Forests Co., Ltd (Sumitomo Forestry Group) SFC Asset Management, LLC(Sumitomo Forestry Group)
Established	June 2023
Investors	Eneos Corp., Osaka Gas Co., Tokyo Century Corp., Japan Post Co., NYK, Fuyo General Lease Co., Sumitomo Mitsui Banking Corp., Sumitomo Mitsui Trust Bank, Unicharm Corp., Sumitomo Forestry Co.

* This material is not intended to promote investment in the fund.

Fund markets

The United States, which has a long history of forestry funds, forests are considered an attractive alternative investment because they physically grow.

■ The history of forestry funds in the United States



Forests: Real assets that physically grow

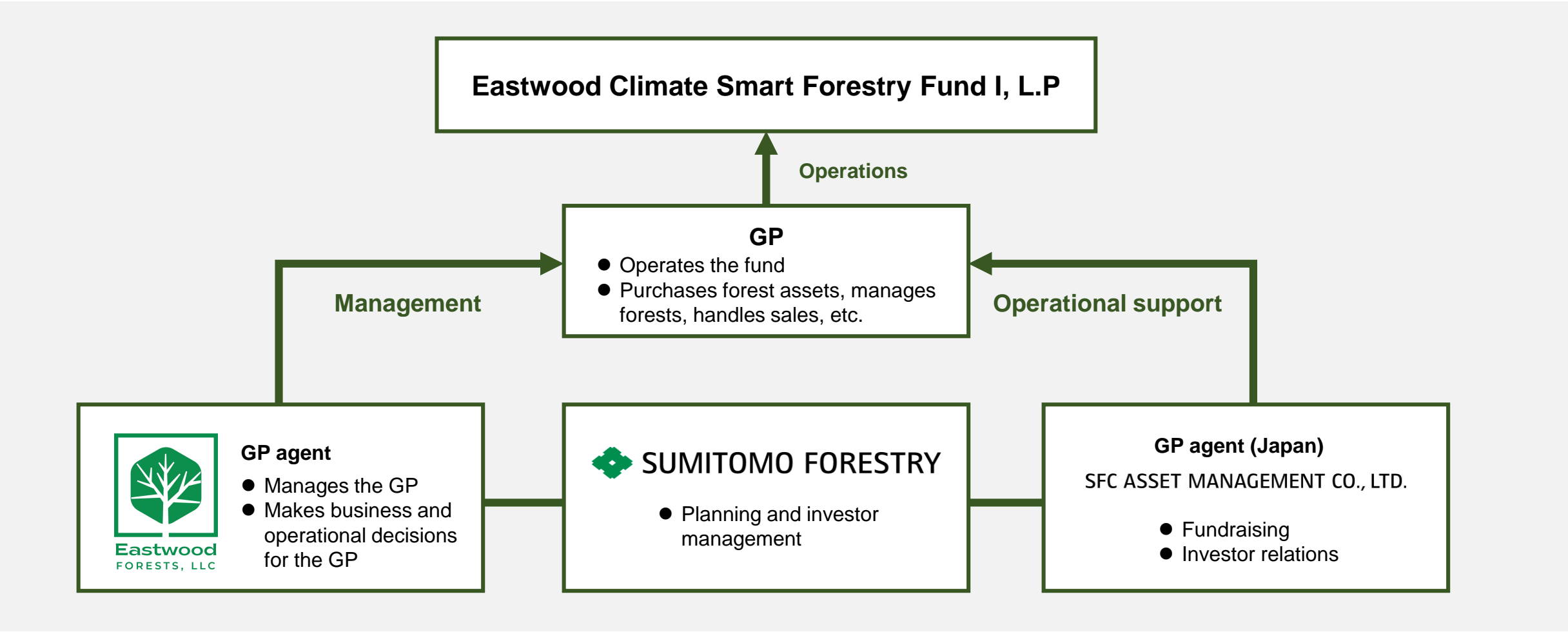
Unlike standard real estate and other real assets, forests promise physical growth through a cycle of harvesting and tree-planting /cultivating.

An attractive alternative investment

Forest assets have little correlation with traditional financial assets such as stocks and bonds. As a result, they are an attractive option for including in a portfolio for investors who wish to diversify their risk.

Organization

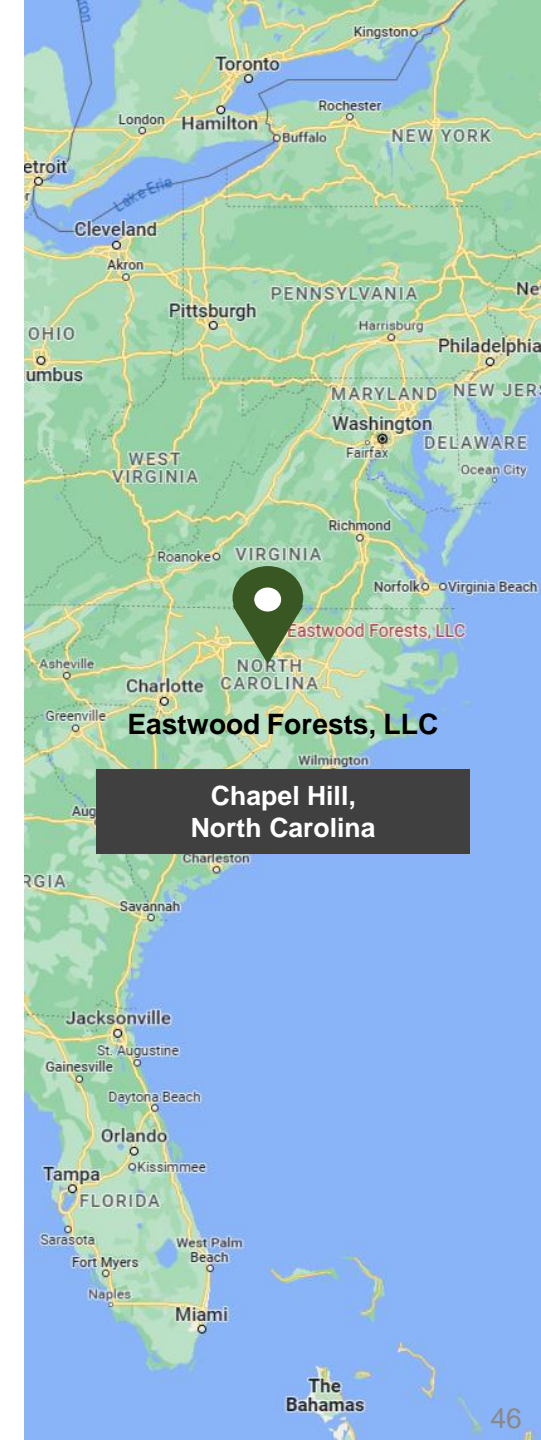
The fund is managed by a team from Eastwood Forests, who are market leaders specializing in forestry funds designed to create long-term climate benefits.



Organization: About Eastwood Forests

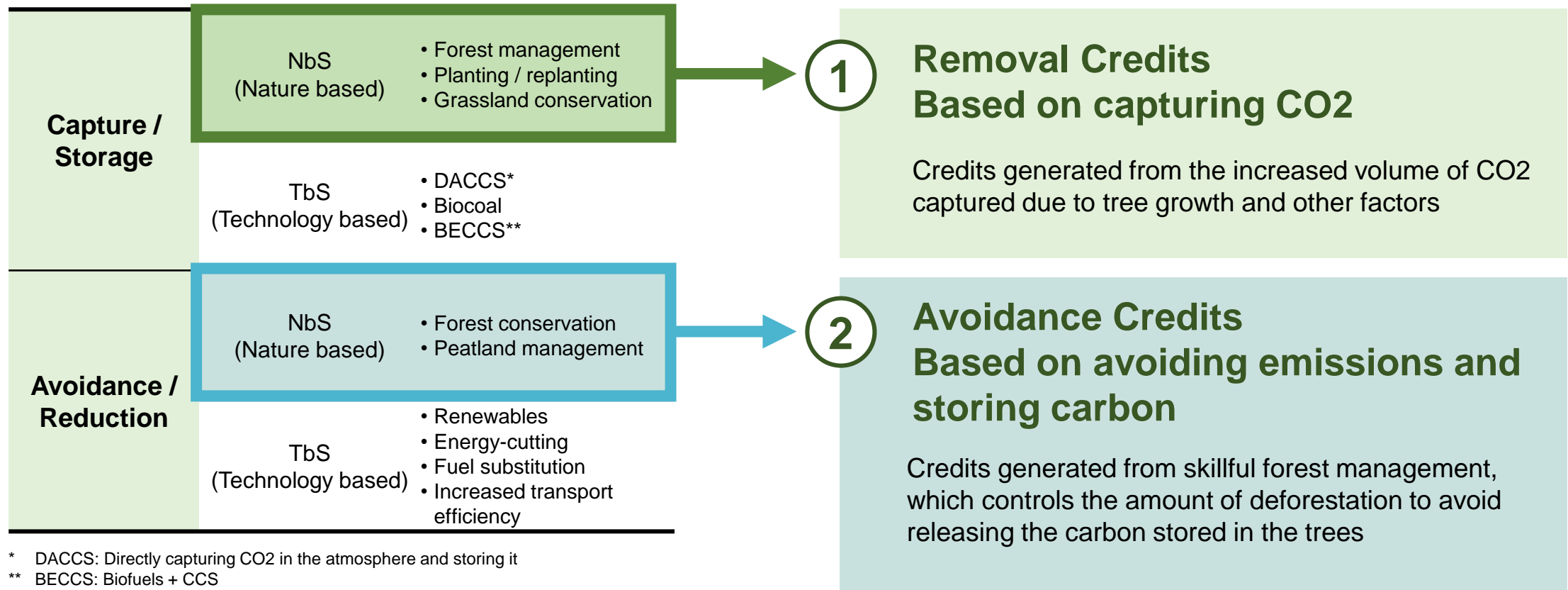


- Name : Eastwood Forests, LLC
- Location : Chapel Hill, North Carolina
- Business : Forest asset management
- President & CEO : Alex Finkral
- Established : October 28, 2022 (Business commenced on November 1)



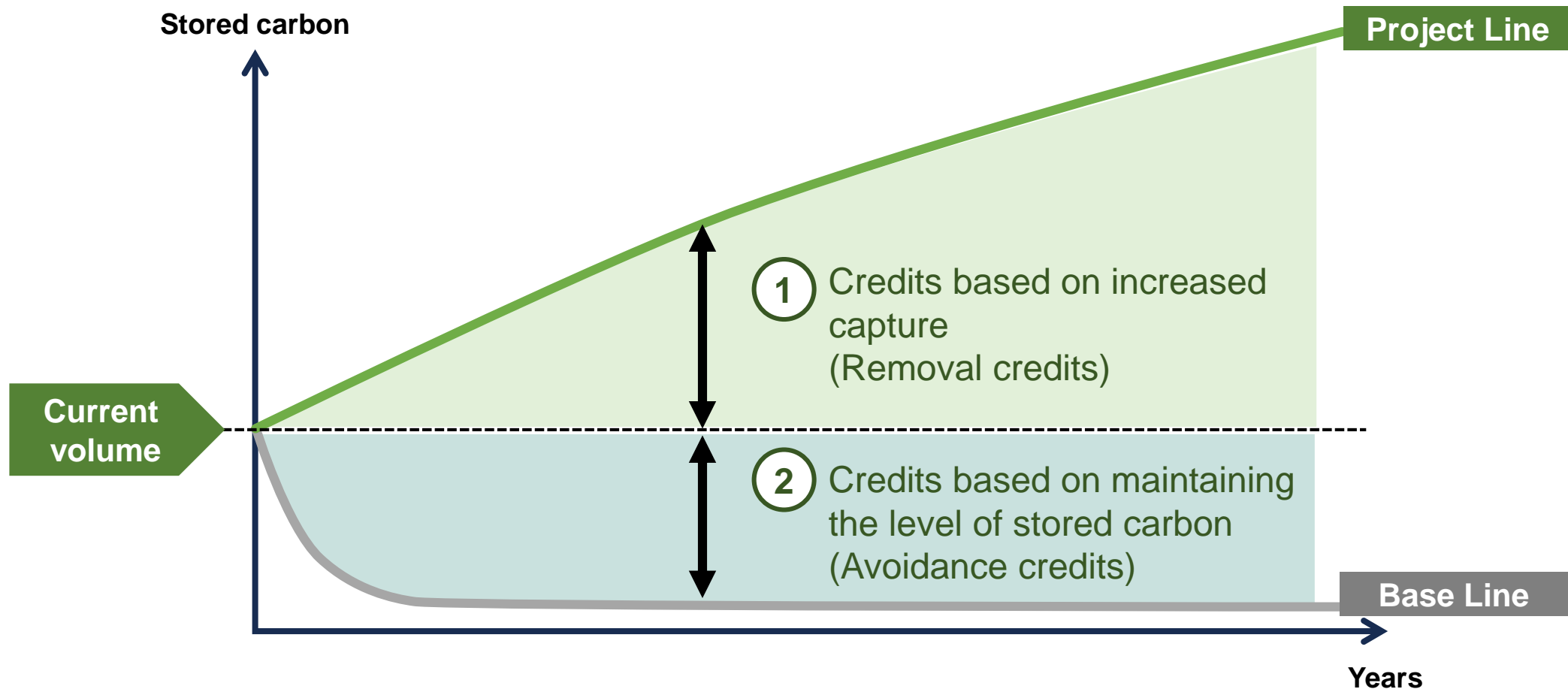
Approaches to carbon credit generation

■ How credits are generated



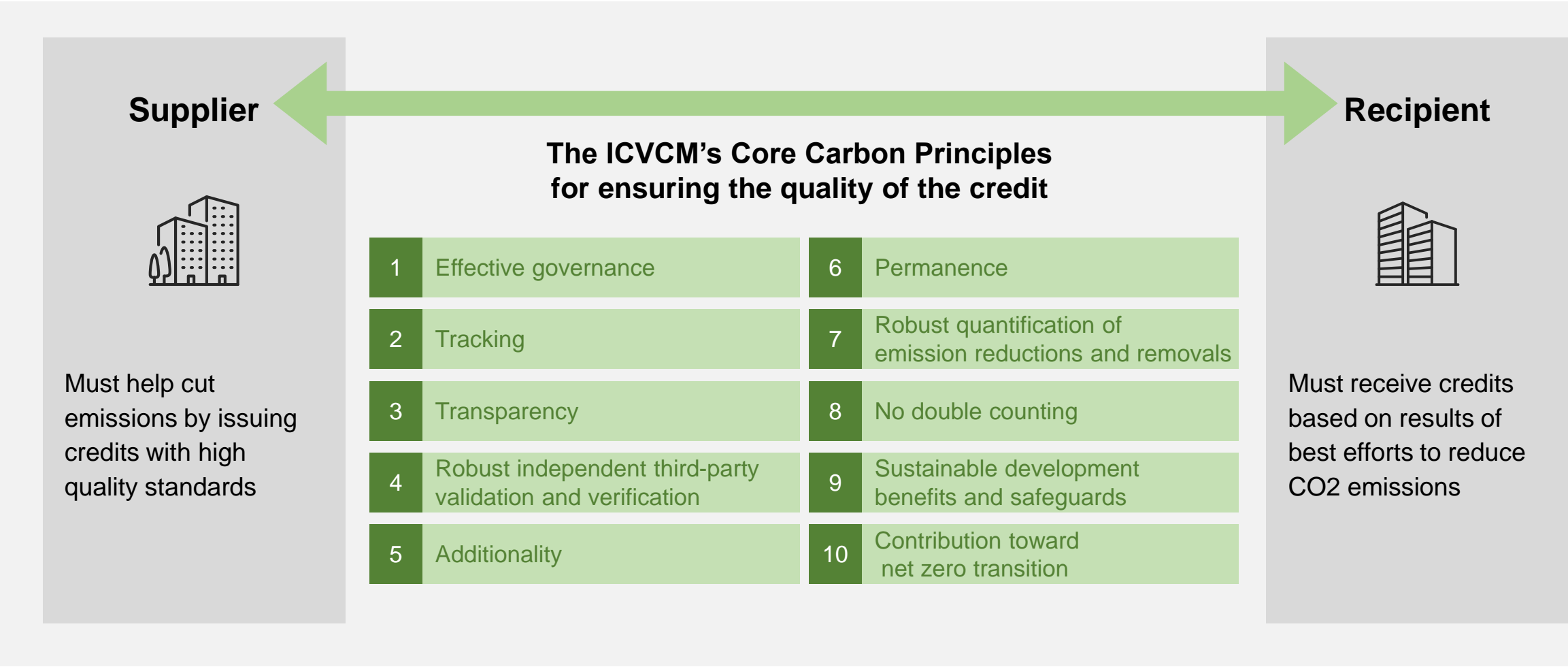
Approaches to carbon credit generation

The gap between the baseline (the volume of captured and stored carbon based on a model that prioritizes wood harvesting) and the project line (the volume of captured and stored carbon based on forest management conducted through our fund) represents the amount of credits that will be generated.



How to maintain the integrity of our credits

Eastwood Forests shall ensure transparency in regards to the usage of the credits for both the credit suppliers and the recipients so it can manage the fund in a way that meets quality standards.

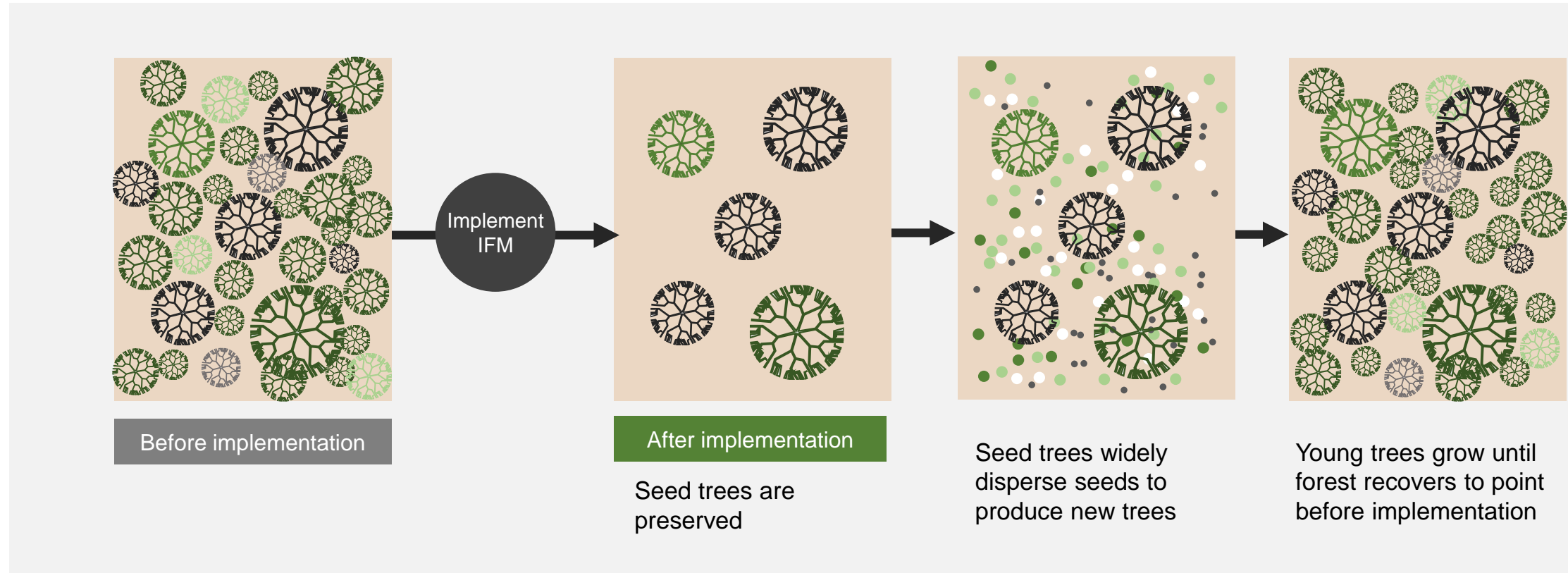


Method for ensuring the quality of the credit

Choose forest management methods such as IFM that are optimized towards that goal

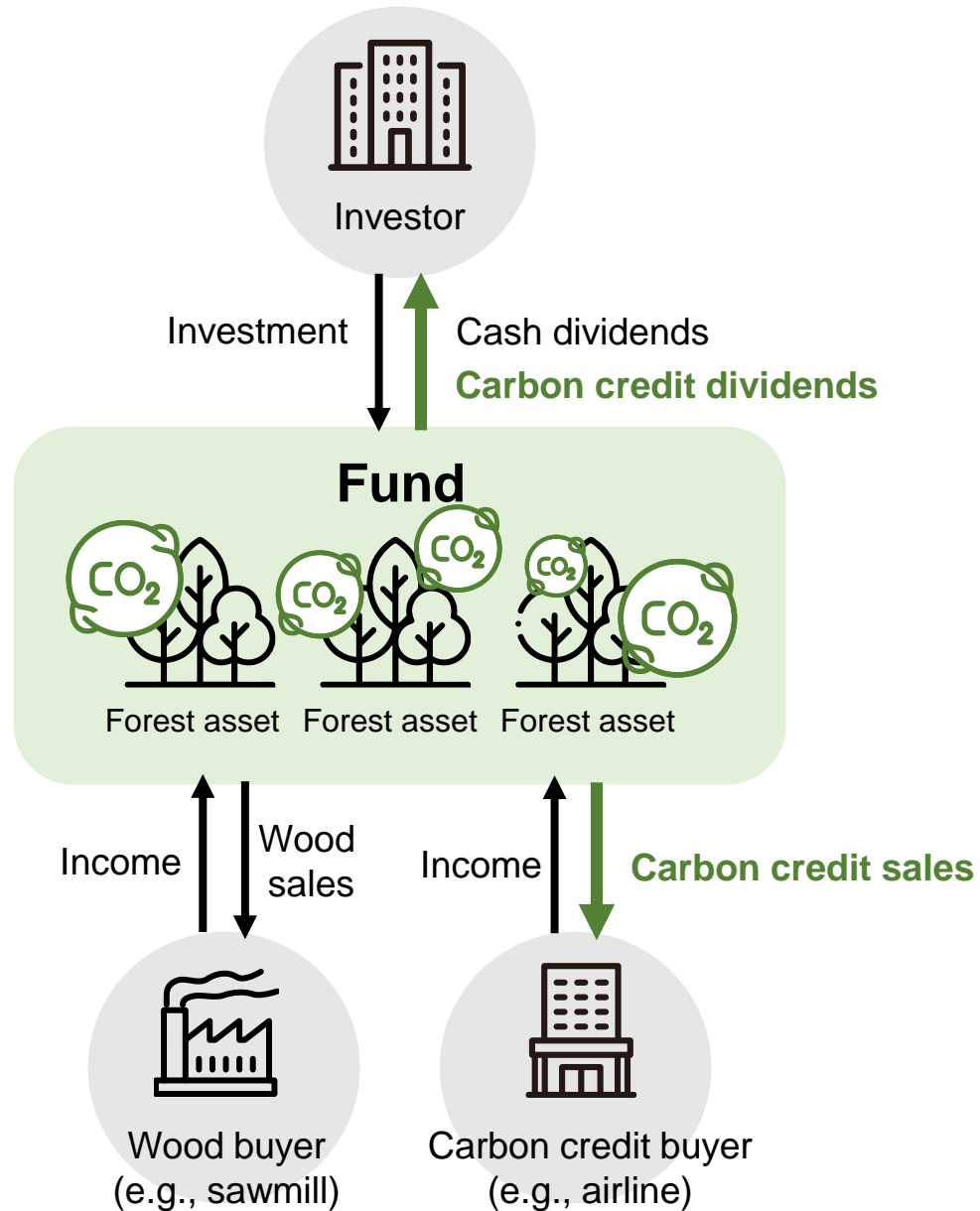
IFM, or improved forest management, involves improving forest management practices to produce more forests, leading to increased volumes of captured and stored carbon that can be used to generate carbon credits. It is entirely different from the aggressive management practice of harvesting every tree offering valuable wood.

- **Example: Producing wood while preserving young trees so the forest will recover faster**

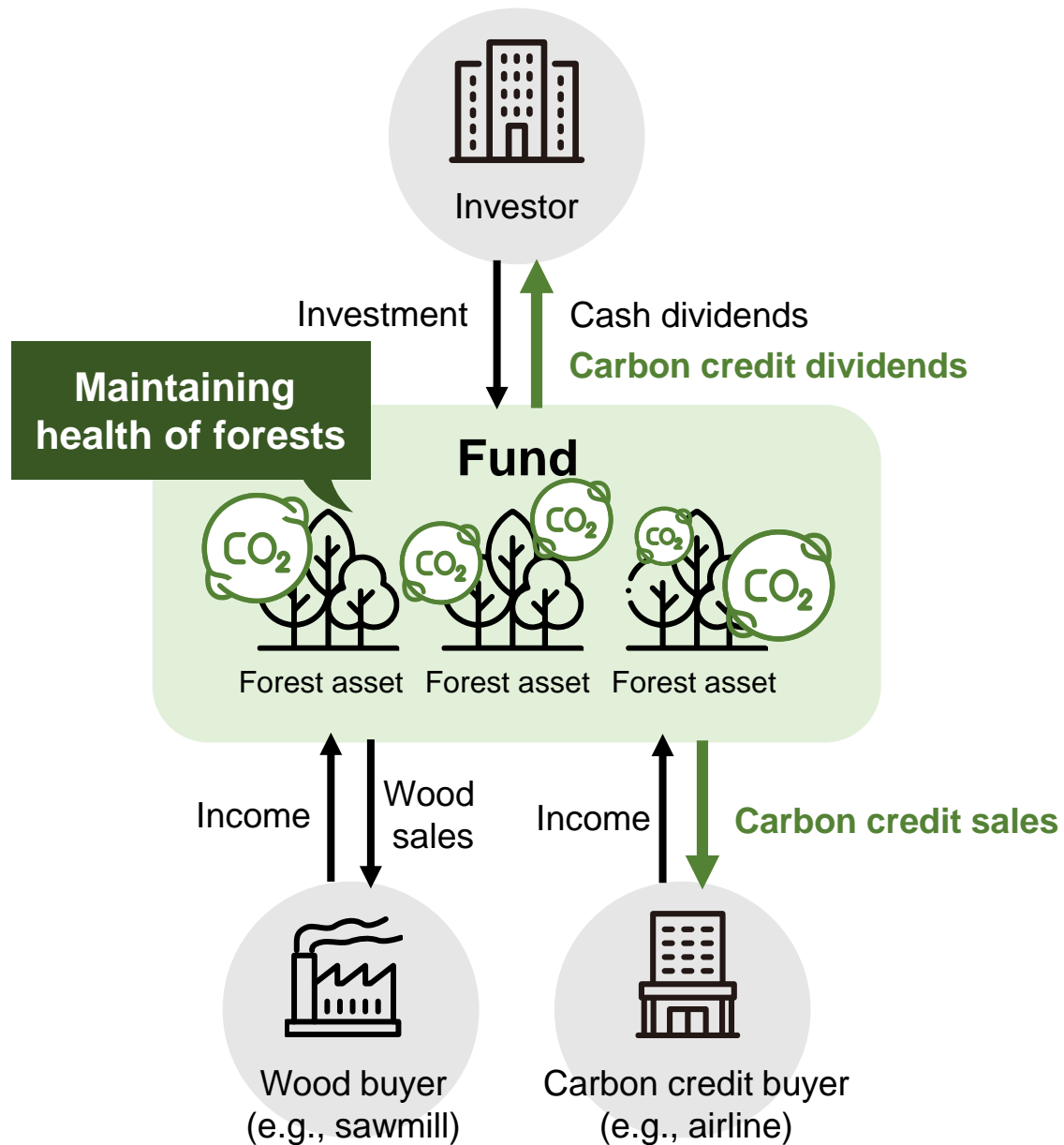


Part 2: Our forestry fund

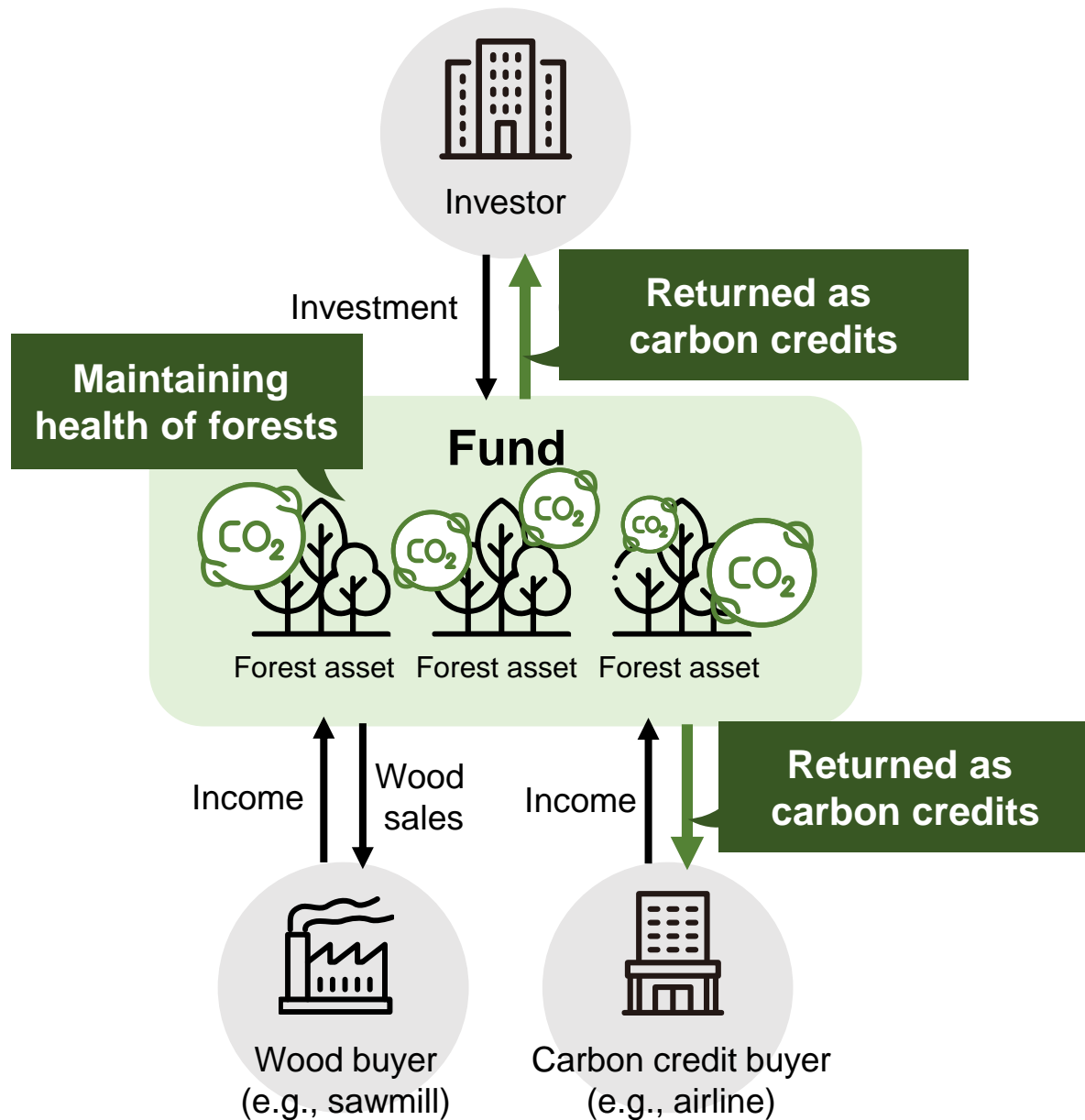
Summary and future goals



Here is a summary on the key points of the fund.

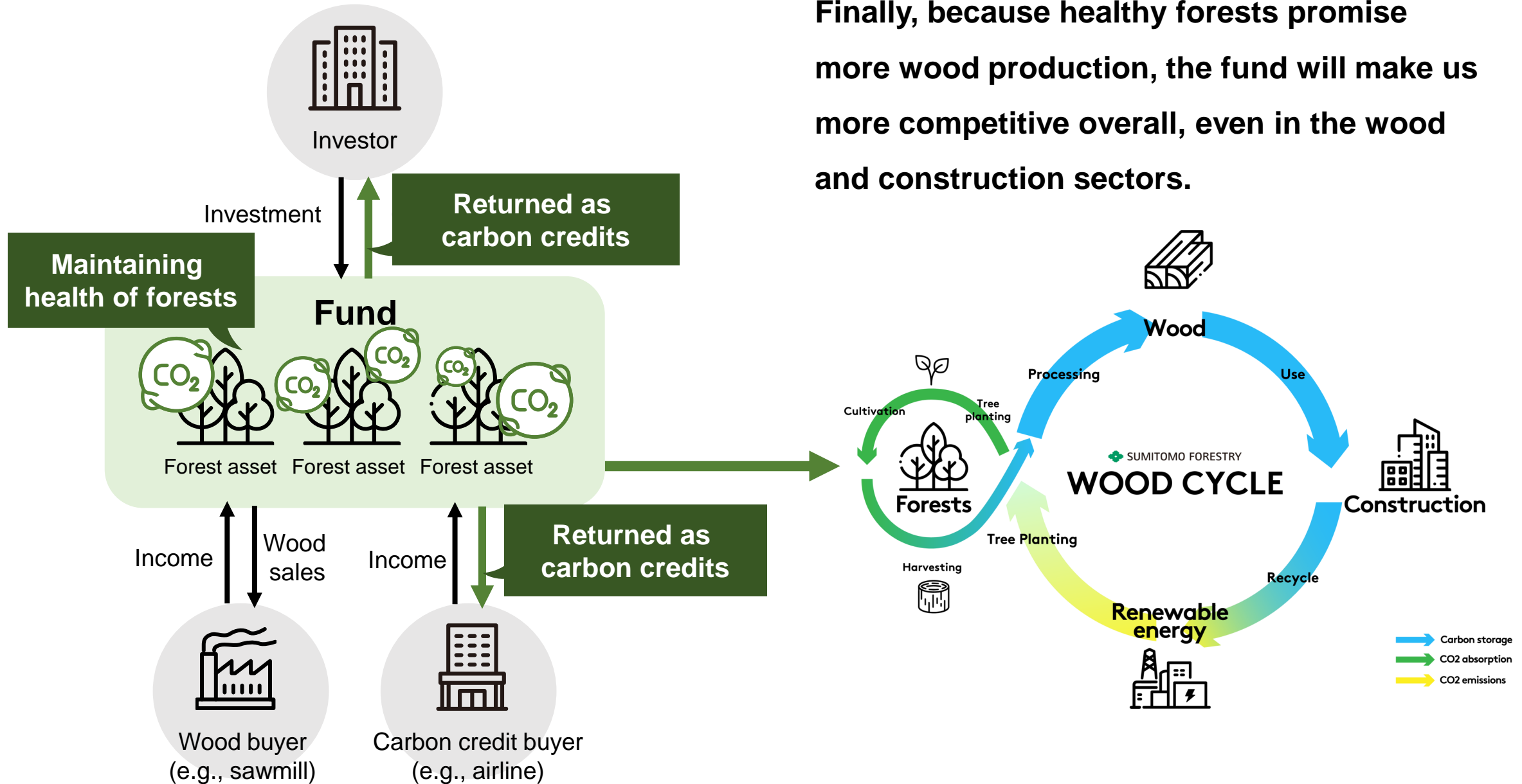


First, the fund will not only generate economic value from wood production but will also benefit the environment by properly managing the health of our forests.



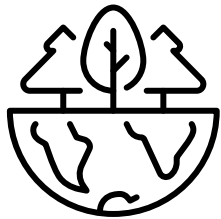
Second, we can maintain a steady level of captured CO₂, which we can use to help our investors offset their own carbon-emitting activities.

Finally, because healthy forests promise more wood production, the fund will make us more competitive overall, even in the wood and construction sectors.



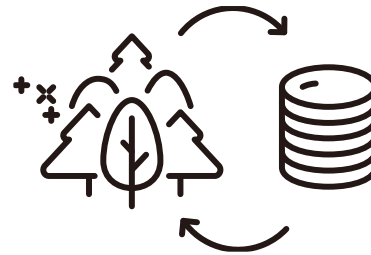
Future goals

Expansion to other markets



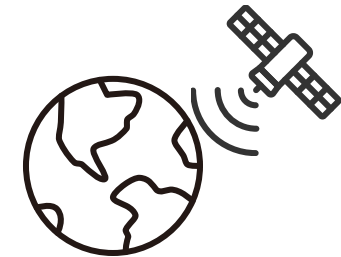
Expand the fund to forestry businesses in Japan, Asia, and Oceania. (Currently looking into a few options, including Indonesian tropical peatlands)

A forestry fund that monetizes natural capital



Develop a framework for the fund that can monetize the value produced by a healthy forest, such as biodiversity conservation.

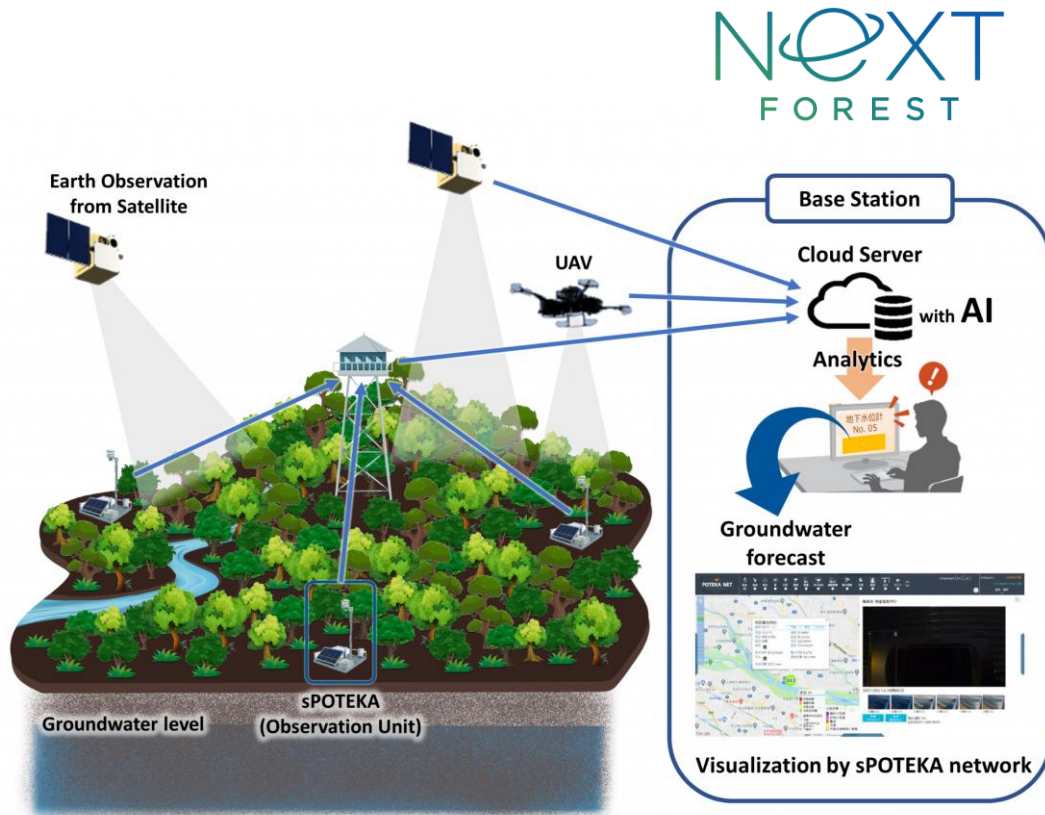
Incorporate a forest monitoring system that involves observations from space



Incorporate NeXT FOREST—a system developed with IHI for monitoring and conserving forests using satellites and drones—into our forest management.

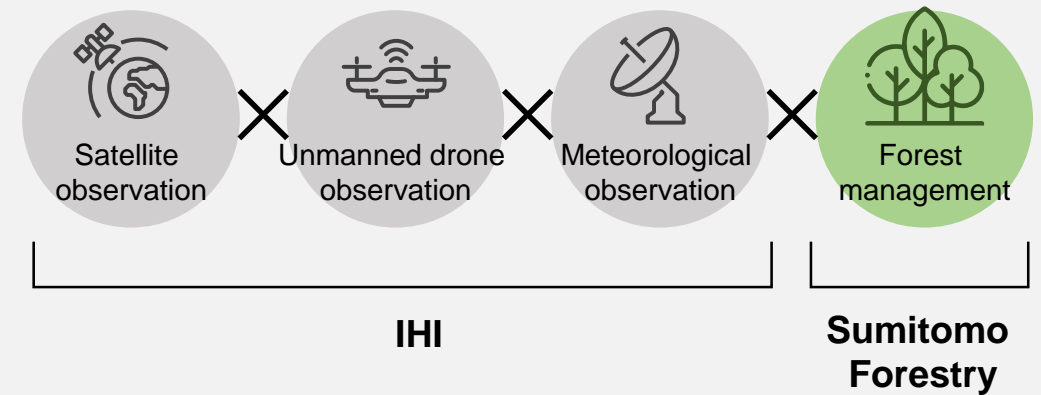
Future goals

We hope to make NeXT FOREST a global standard in forest monitoring so businesses around the world can manage their forests at a higher quality.



■ NeXT FOREST

A product of IHI's satellite and meteorological observation technologies and Sumitomo Forestry's forest management expertise, this system will be deployed around the world to help us monitor and conserve our forests.



Numerical goals by 2030



Assets

10 billion JPY



Acreage of owned
/ managed forests

500,000 ha

