2nd NOV 2021, COP26 Side Evernt@Japan Pavilion"Promoting Zero Carbon City through making "Decarbonization Domino Effect"

# 「里山資本主義」具度の挑戦

## The Use Biomass for a Low-Carbon Society

Maniwa City's Town Hall works with

**Tree** (using a biomas boiler)

**Sun** (solar panels)

&People

Mayor of Maniwa City, Noboru Ota



#### 1 Maniwa

**Basin Status** 





**♦** Maniwa Profile

**Location**: Northern part of Okayama

prefecture

Total Land: 828km

(About 5 times that of Glasgow city)

\* Glasgow city area: 175.5km

**Population**: 44,539 people(2020)

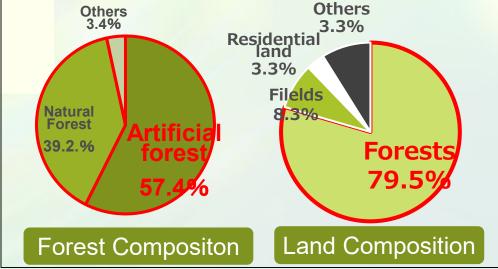
(About 7% of Glasgow city)

\* Population of Glasgow city:635,640 people (2020)

#### **Town Features:**

GREENable HIRUZEN

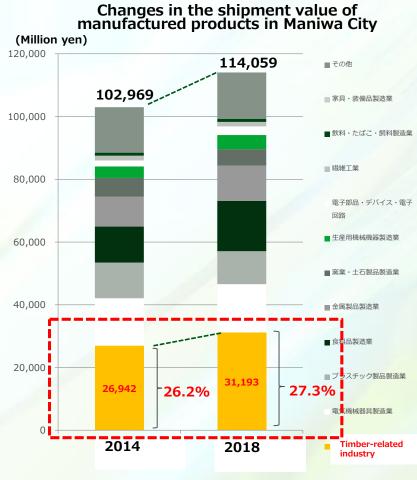
- •Forests occupy about 80% of the lands
- •Famous as a timber city with a high quality timber supply chain



### 2 Regional Strategy: "Economic Cycle"

「里山資本主義」真庭の挑戦

- About 30% of the shipment value of manufactured products in Maniwa is timber-related indsutry.
- In Japan, Maniwa is famous as a timber city with multiple raw timber markets, a high quality timber supply chain.





1 Finished Product Market

30 Sawmills



20 Logging Comapnies
Total employees: About240
(Avg.worker age ≈40s)



yr) 0㎡/yr) N



3 Raw Timber Markets

→138,000m³/yr

\*About 1/3 of the prefecture/s total(=390,000m²)



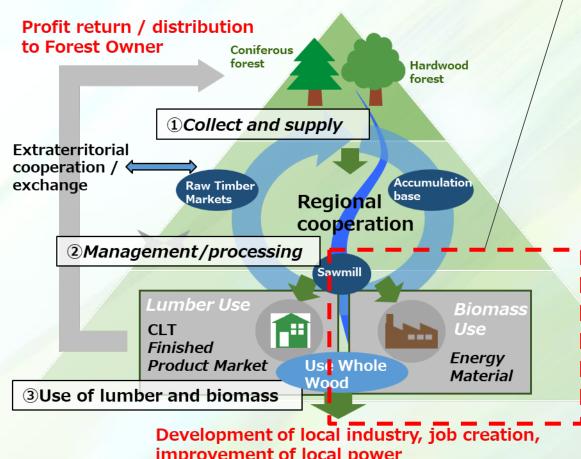


2 Wood biomass power plants
Maniwa biomass power plant (10,000kw)
MEIKEN biomass power plant (5,000kw)

#### 3 Maniwa as Circular Economic City with Woody Biomass Power Plant

「里山資本主義」具度の挑戦

- Since 2015, achieved to create a circular economic city that uses mill ends/waste wood from the region with Maniwa Woody Biomass Power Plant.
- Giving new value to unused/waste wood (disposal would have cost ¥ 100million + ) ⇒Profits go to the 50 companies involved.



#### [Maniwa Wood Biomass Power Plant]



- •Scale:10,000kW (Output:82,000MW h)
- ·Fuel:110,000t/yr(usingmill ends/waste wood from within the region)
- Also reducing cost by ¥550/t for forest owner.

Sales :  $\approx$  ¥ 2.3billion (Bought Fuel: ¥1.4billion)

Oil Substitution: ¥2.4billion

※Kerosene=¥84円/ℓ

improvement of local power

#### 4 GREENable HIRUZEN

(A new Landmark for Japan's SDGs Future City Maniwa)





CLT returning to its birthplace Maniwa



■2019年

CLT Pavilion is assembled in Tokyo by the architect Kengo Kuma & Associates, using eco-friendly cross-laminated timber, produced in Maniwa

→To communicate the attractions of CLTandlocallumber



■2021年

**Relocated in Maniwa** 

Maniwa

Tokyo

Originally used for events in Tokyo (Fall 2019~Fall 2020)

dismantled and relocated

After finishing its role for the pavilion in Tokyo, the materials are relocated to Hiruzen national park in Maniwa City, Okayama Prefecture and reopened on 15<sup>th</sup> July 2021.

GREENable HIRUZEN represents cyclic exchange of natural and cultural resources between the city and regional areas.



## Thank you for listening!

## 「里山資本主義」真庭の挑戦



Maniwa's character [Manizo]



(HIRUZEN/ Plateau)



(OCHIAI / DAIGO-SAKURA)



(KATSUYAMA/ Goodwill Town)



(HOKUBO/fire Fly)

**Maniwa City Hall** 

**〒719-3292** 

2927-2 Kuse, Maniwa City, Okayama Prefecture, Japan

TEL: 0867-42-1111

URL: https://www.city.maniwa.lg.jp/