



Green-Slow Mobility as a Sustainable Community Solution - The Case of Rikuzentakata, Japan

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Introduction to Rikuzentakata City

- Located on the southern tip of Sanriku Coast in North-East Japan
- Area of the city: 231.94km²
- Population: 17,318 (as of Sept. 2024)
- Aging (65+) rate: 40% (as of Sept. 2024)
- Climate: Relatively mild year-round
- Access: 4 hours from Tokyo
(travel by bullet train + car)



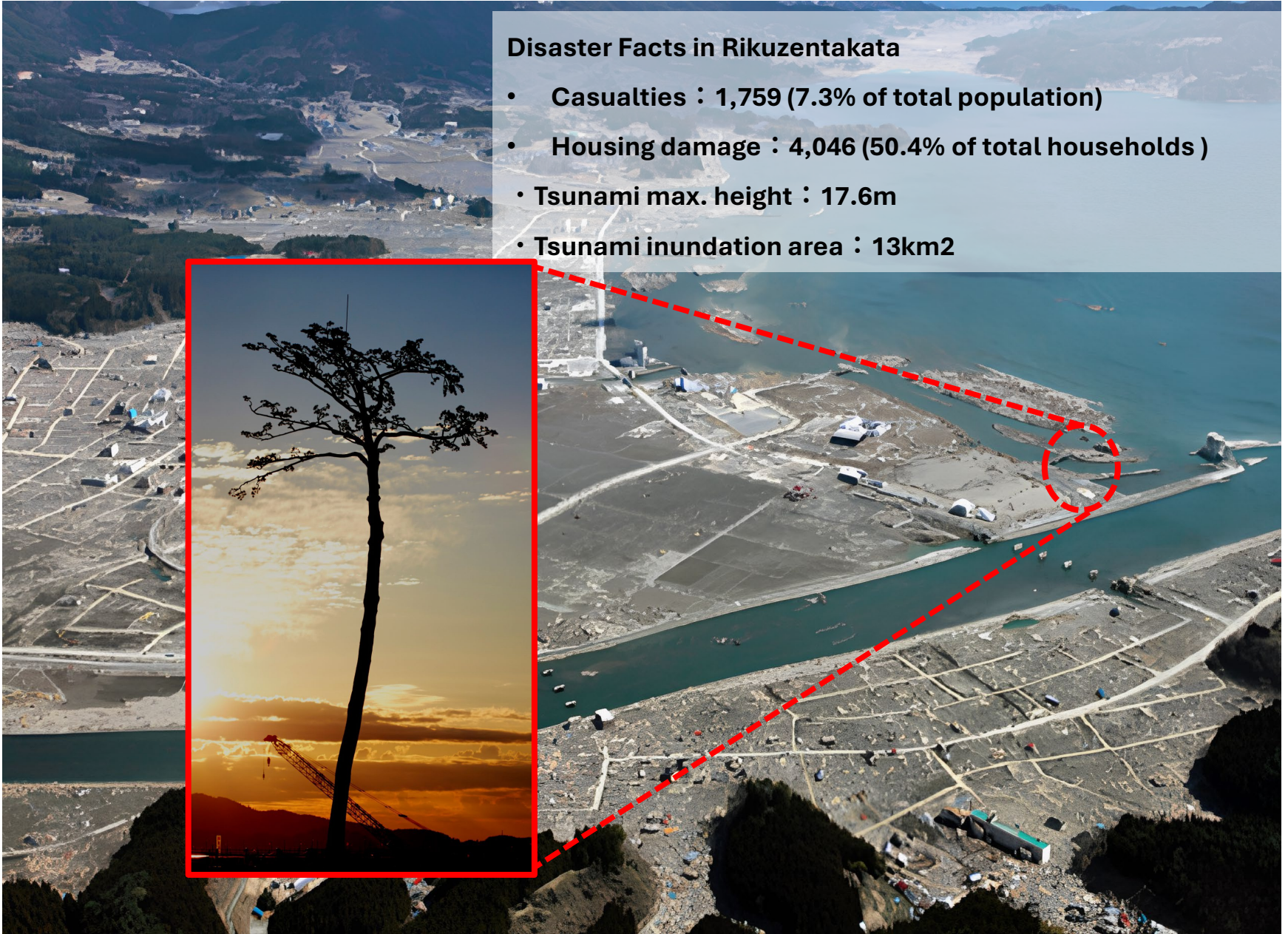
Downtown of Rikuzentakata in 2008




Downtown of Rikuzentakata after March 11, 2011

Disaster Facts in Rikuzentakata

- Casualties : 1,759 (7.3% of total population)
- Housing damage : 4,046 (50.4% of total households)
- Tsunami max. height : 17.6m
- Tsunami inundation area : 13km²

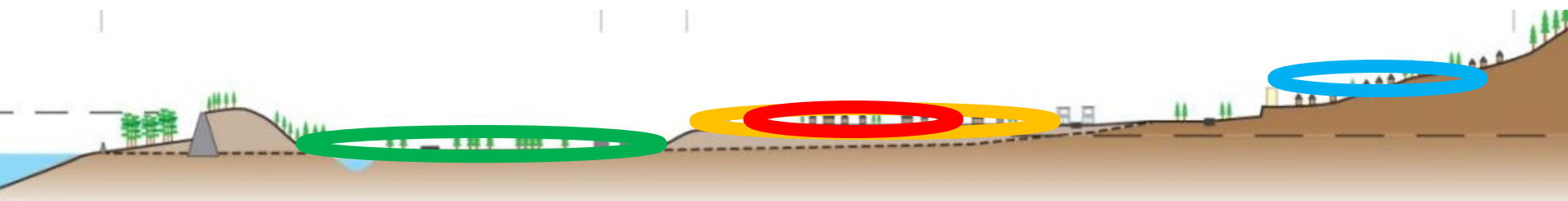
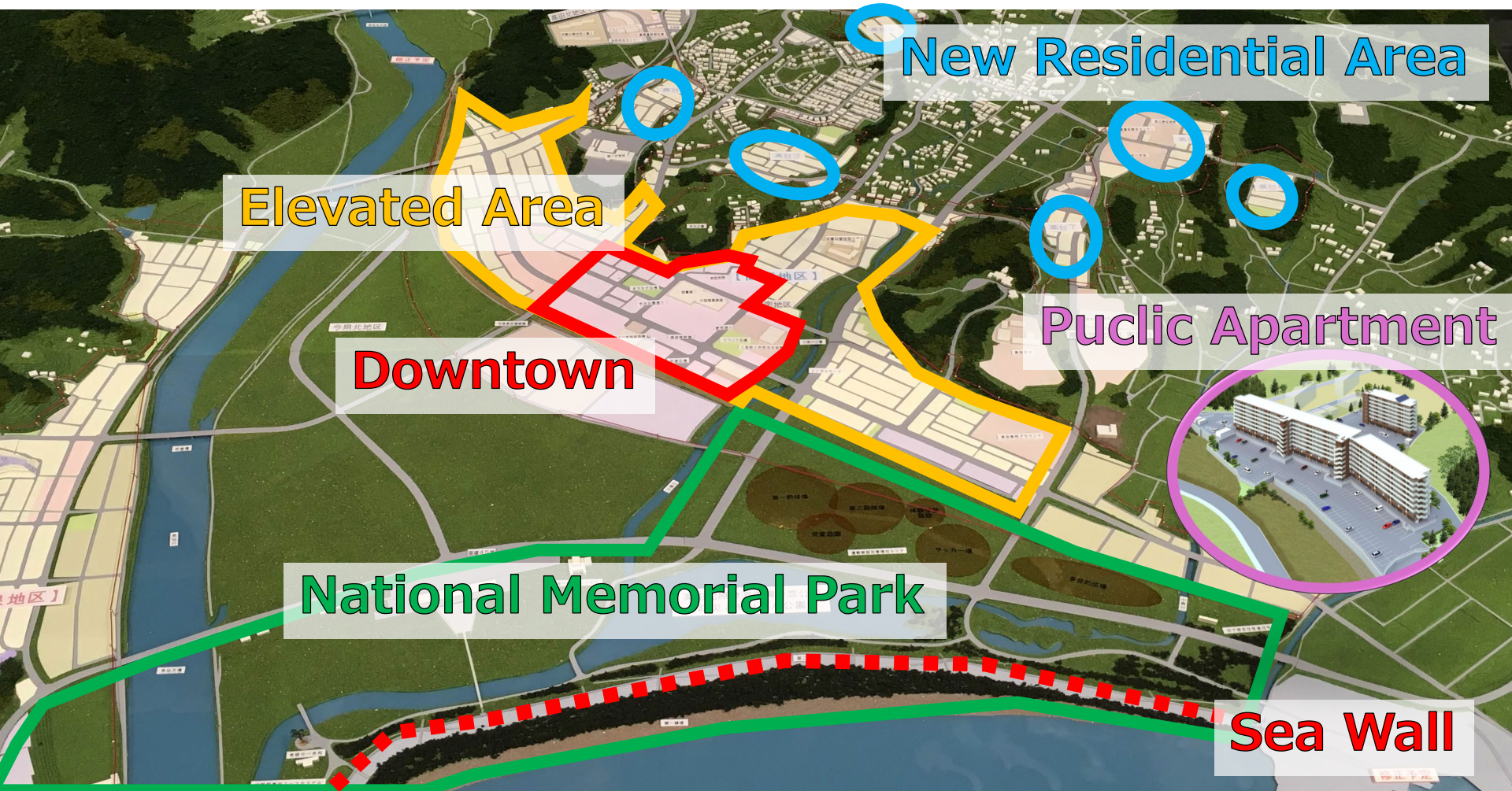


Massive Reconstruction Projects



In the recovery efforts of our city, we received tremendous support from countries around the world, including the Republic of the Philippines. We would like to take this opportunity to express our heartfelt gratitude.

Rebuilding a Tsunami Resilient Town



Challenges of Community Transportation after 3.11

With the aging population, the number of elderly individuals without means of transportation is increasing.



In public apartments, preventing residents' isolation and fostering community building are essential.



Challenges of Tourist Transportation after 3.11

Since the opening of the Tsunami Memorial Park and new roadside station in 2019, the number of tourists visiting the area has increased significantly. However, the flow of visitors to nearby commercial facilities and the downtown area remains limited.



Green-Slow Mobility as a solution

We introduced a small electric bus called Green-Slow Mobility, which operates at speeds below 20 km/h, to complement conventional public transportation and address challenges of community and tourist mobility while considering environmental sustainability.

Manufactured
by Think
Together Inc.

Passenger
capacity: 6,
seatbelt not
required



Face-to-face
seating
encourages
communication

Driving range:
50 km
(When fully-
charged)

HOW
did we
introduce
this?

2019

Pilot Project 1
(Funded by MOE)

2020

Pilot Project 2
(Funded by MLIT)

2021

Procurement
(Funded by MoE)

2022

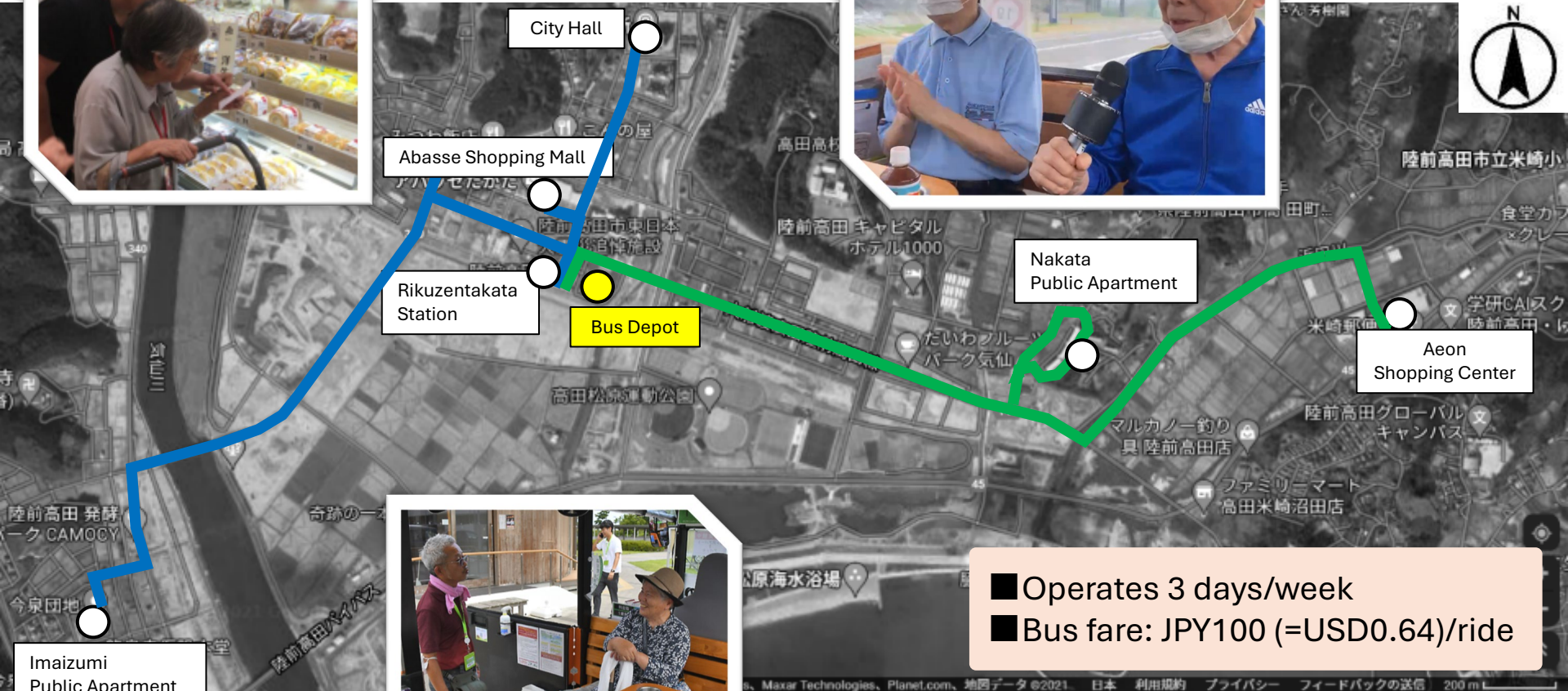
Service Launch

GSM Operations for Community on Weekdays

Seamless guide to
“slow shopping”



Onboard entertainment
such as karaoke



Pleasant interactions
with drivers



GSM Operations for Tourists on Weekends

The map shows a route (indicated by red arrows) connecting several key locations in the area. Inset photos provide visual context for these locations:

- Abasse Takata shopping mall**: A modern shopping center with various storefronts.
- JR Rikuzentakata Station**: A traditional Japanese railway station building.
- Watami Organic Land**: A large agricultural and organic food processing facility.
- Fermentation Park Camocy**: A large, modern building, likely a brewery or food processing plant.
- Tsunami Memorial**: A large, open-air structure, possibly a museum or memorial.

Additional features include a photo of a family (two adults and two children) sitting at a table with a bus bag, and a yellow text box stating: "Discount coupons provided for shops/restaurants".

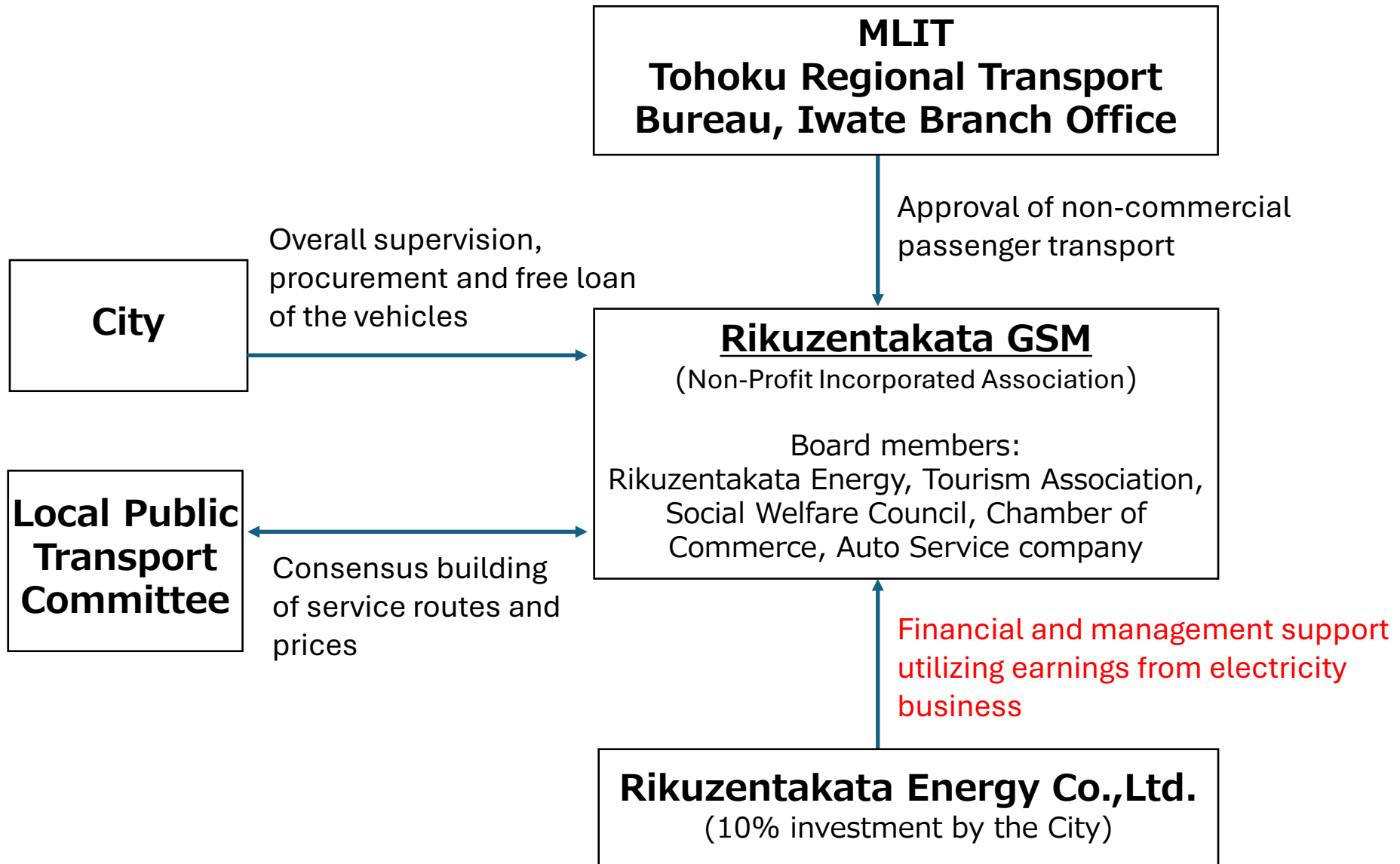
- Operates on weekends and public holidays
- Bus fare: JPY500 (=USD3.20)/day

Comparison of passenger numbers with other services

While sharing roles with other public transportation systems in terms of routes and purposes, it plays a significant role in both the welfare and tourism sectors, becoming an indispensable mode of transport for the community.

Bus Line	No. of total passengers in 2023
Oide area Line	5,495
Osabe-Imaizumi area Line	674
Takata-Community Bus East Line	1,535
Takata-Community Bus West Line	1,464
Hirota area Line	4,578
Hirota Peninsula area Line	1,932
On-demand Bus	1,219
Green-Slow Mobility	4,146
Grand total	21,043

GSM Governance and Operation Structure



2024 EST Grand Award by Minister of the Environment

Key reasons for receiving the Award:

- 1) Recognized for utilizing “Green-Slow mobility” as a tool to address challenges such as the isolation of elderly individuals and the decline in tourist circulation that arose during the process of post-disaster recovery.
- 2) Praised for the innovative approach of re-investing a portion of the profits from the local energy company into Green-Slow mobility operating costs, ensuring sustainable operation.



Way forward: Rikuzentakata as a leading area for decarbonization

2030 vision of zero-carbon city Rikuzentakata
-Pass on inclusive, interactive and circular town to the next generation-

RIKUZENTAKATA
Vision Map
 ビジョンマップ



共生

森里川海の豊かさを守り、そこで育まれる生物多様性を保全する「人と自然の共生社会」、そして、誰もが個性を持つ一人として尊重され、困っている人がいたら助けることが当たり前の「世界に誇れる美しい共生社会」を実現する。

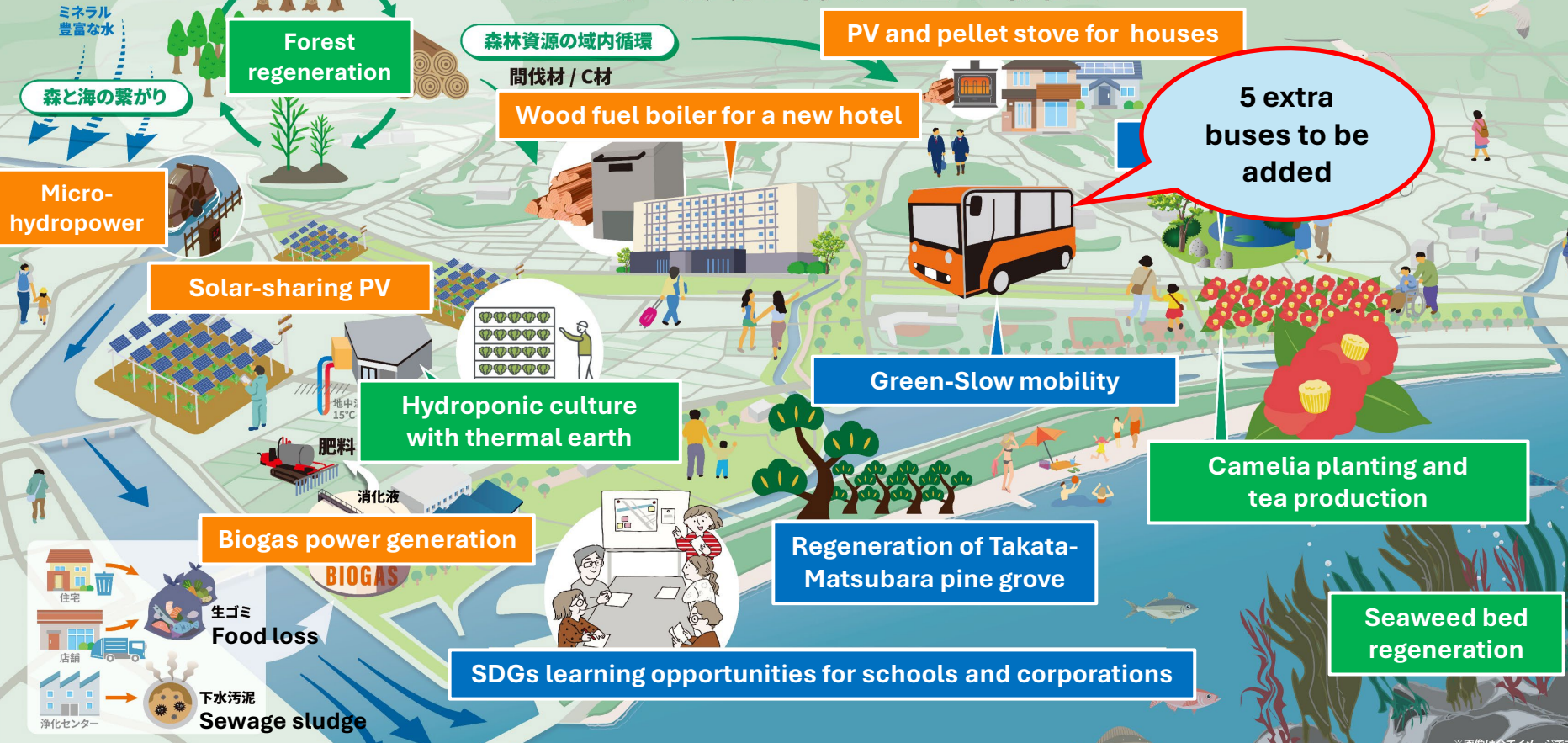
交流

人口減少・少子高齢化が進展する中、**交流人口拡大**や**関係人口創出**を通じて**地域社会の活力**を維持する。特に、**防災・減災**や**震災復興**、**地域脱炭素**に関する「**学びのフィールド**」としての価値を高め、**教育旅行**や**企業研修**の分野で日本を代表する目的地となる。

循環

食とエネルギーの地産地消や**未利用バイオマス資源**（間伐材、食品残渣、下水汚泥等）の**有効活用**、**カーボンクレジット**創出・販売を推進し、**循環経済**を構築する。それにより魅力ある雇用の維持・拡大を図り、若い世代のUターンや二拠点居住等の「**人の循環**」を生み出す。

－ビジョン実現に向けた主な取組み－



※画像は全てイメージです。

Way forward: Rolling out solar-sharing PV to other areas



Variety: Muscat Bailey A (Red)

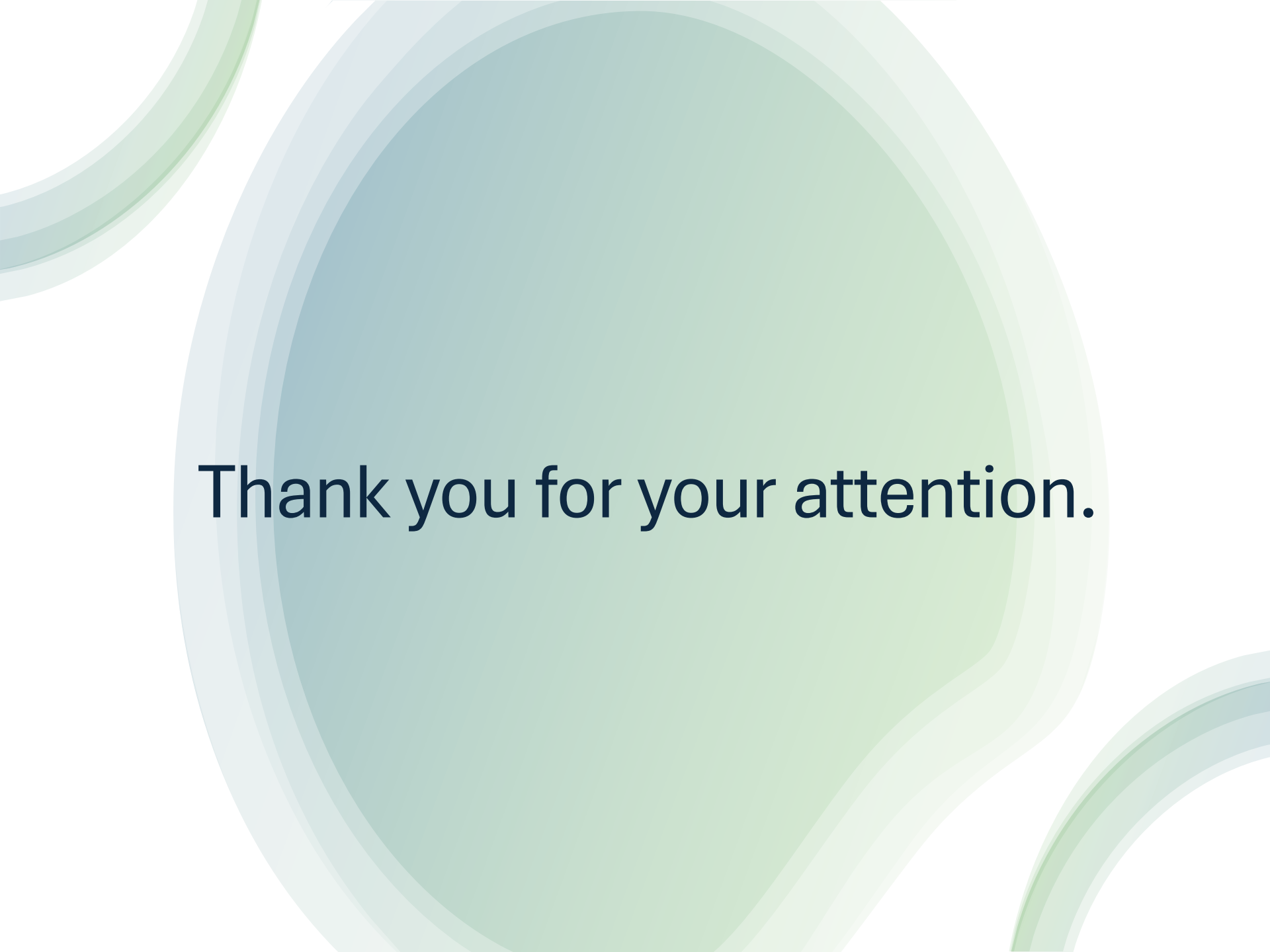
Installation completed: February 2022

First harvest: Fiscal Year 2023 (Approx. 300 kg)

First wine production: 2024 (Approx. 120 bottles)

Projection for 2026: Approx. 1,000 kg of grapes, yielding 1,000 bottles of wine





Thank you for your attention.