

## Sustainable Tourism

Navigating a Greener Future through Data-Driven Solution, Balancing Travel and Urban Development with Open Data



### Raised US \$40M Series C Fund

from Japan and South Korea Governmental Bodies in 2020









# Obtained ISO Certifications with the launch of Wee Marketplace in 2022





Information Security Management System

### Adhered to IAB Standard

SDK Certification under global standard



Among 30+ compliant companies globally, FIRST in Hong Kong







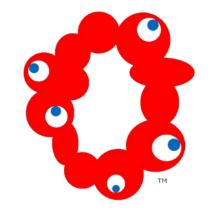
Of services across APAC



In Tokyo, Osaka, Okinawa, Hong Kong, Taipei, Singapore, Shenzhen & Bangkok

### Showcase – Government

# **Driving Digital Transformation – Osaka Convention and Tourism Bureau**









### Expert Committee for the Sustainable EXPO \*Since December 2021

In the committee, experts discuss concerning the sustainable operation of the EXPO. They also make opinions and suggestions from their professional perspectives on sustainability issues such as "Carbon Neutral".



Sustainability Policy of EXPO 2025 Osaka, Kansai, Japan (April 2022)



We will determine the necessary visions and guidelines based on the sustainability policy

#### **EXPO 2025 Green Vision** (2023 Edition)

for the operation of the EXPO in consideration of carbon neutral circular economy and so on

**\*Published in March 2023** 

#### **Code of Sustainable** Procurement

(2<sup>nd</sup> Edition)

Code of Sustainable Procurement(2nd Edition)

\*Published in July 2023

#### Sustainability Action Plan of Expo 2025 Osaka, Kansai, Japan (1st Edition)

for reporting sustainability initiatives to stakeholders

\*Published in April 2023

## Showcase – Traveler Lookalike Analysis

# Vpon

## **Okinawa Convention & Visitors Bureau**



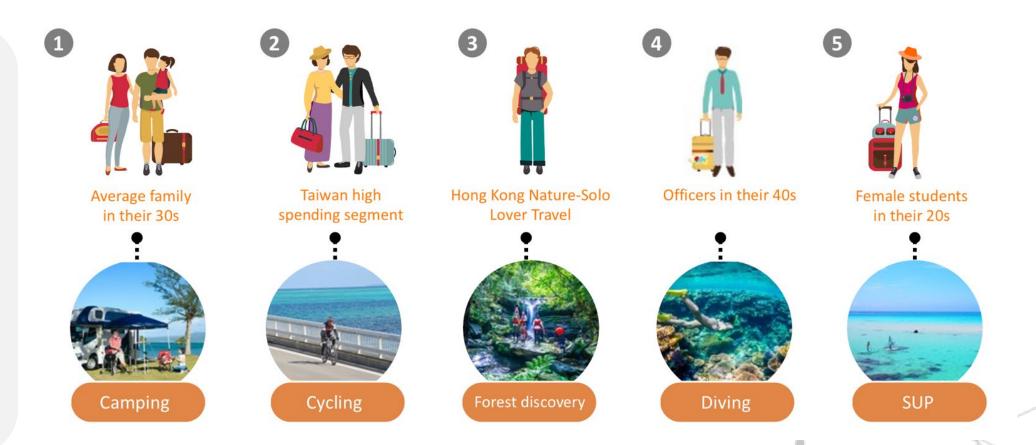
## **Background**

Following gradual economic recovery, OCVB needs to learn target travelers' preference in the post-pandemic era, which becomes inevitable to restructure an effective recovery plan for foreseeable opportunity.

### Result

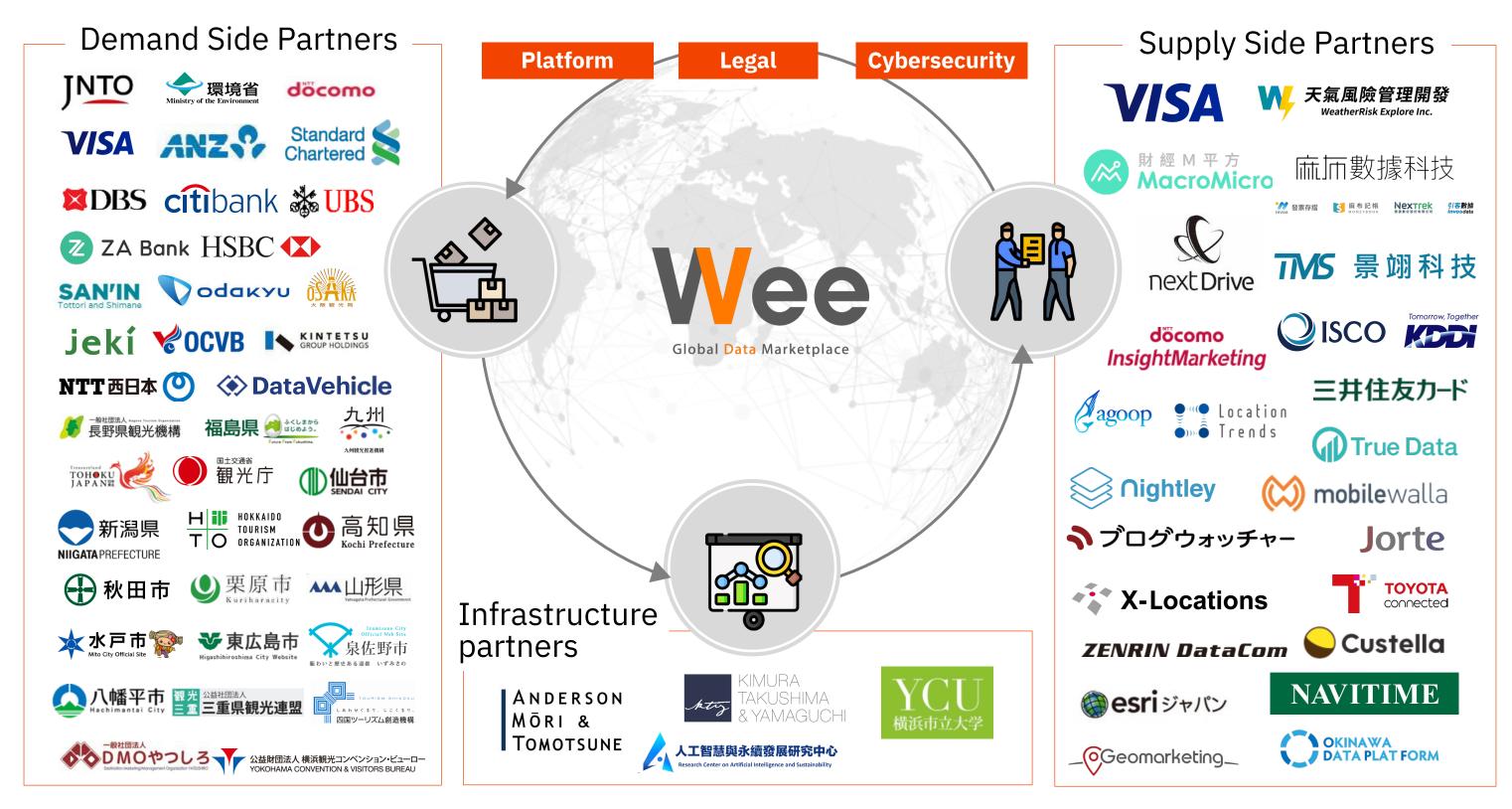
Vpon helped OCVB leverage data insights to formulate effective branding and marketing strategy with AI:

- 1. Collect and utilize **data insights** derived from Ads campaign
- 2. Identify **new audience segment** under the "New Normal"



### **End-to-end Data Ecosystem**





Vpon builds a strong data ecosystem on top of its comprehensive solutions – with Data Privacy and Information Security in mind.

That is why Vpon is ISO 27001 & ISO 27701 certified, and partners entrust their data to Vpon to explore various use cases.



# Providing precise tourist development insights To identify the needs of business development



**Audience Lookalike** 





Ad & App Audience Insight and Visualization

### Example: High-end Luxurious Shoppers

# Purchase Data Find what have actually been purchased

Top-spenders (10% of each category)

5-star hotel frequent visitors (who reserved hotel rooms/restaurants)

Luxurious Jewellery & Watches Buyers

Brand-name products purchased

# **App Data**Find what apps have been installed

Airport Lounge/VIP App

Luxury brands loyalty App

Investment Bank App

Brand-name products purchased

# Point-of Interest Data Find where do the audience went/frequently visit

Art Galleries/Auction House

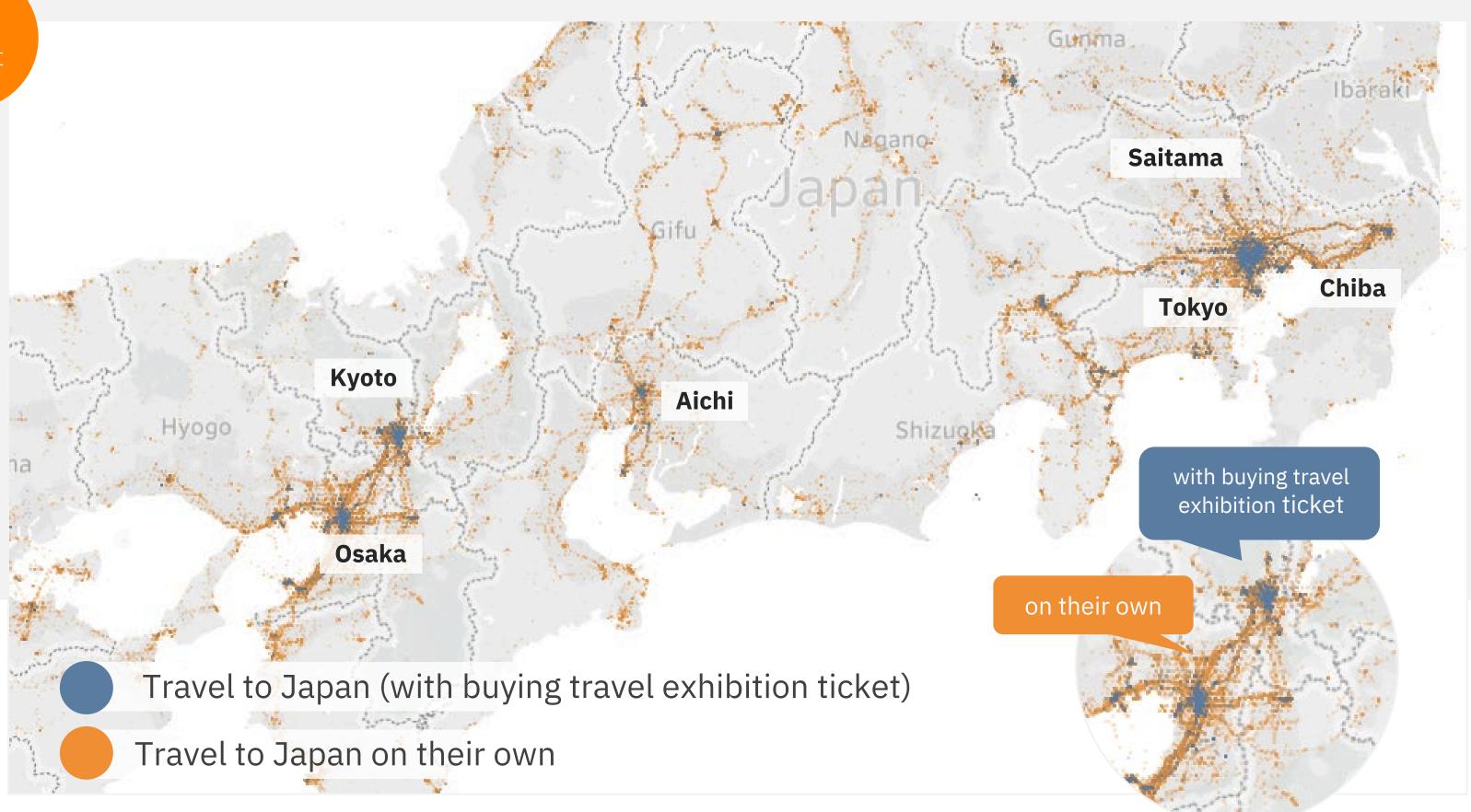
Private Golf Course/Club houses

Michelin Restaurants

Car shows



### Refine travel behaviors of potential customers through data analysis







# Creating a Sustainable Tourism Route

### **Technology**

Based on the Vpon POI (Points of Interest) database and using mobile data collected through Vpon mobile devices, calculate the interconnectivity between various attractions, offline visitation numbers, and online exposure popularity.

#### **Indicators**

- 1. Attraction Connectivity Score
- 2. Visitation Route Tourist Count
- 3. Influencer Exposure Popularity Index

### **Application**

- 1. Plan Attraction Combinations
- 2. Track Visitor Trends for Each Combination
- 3. Advanced: Study Different Attraction Preferences for Various Tourist Types (e.g., Foreign Tourists)

### Concept



### Government



# Merging open environmental data + citizen behavior = New Urban Development

### **Open Environmental Data**

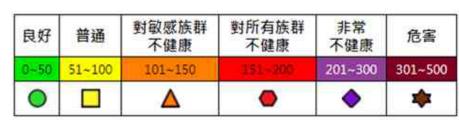


**AQI** 

**RPI** 

TTI

**Economic Index** 



行政院環境保護署 https://taqm.epa.gov.tw/taqm/tw/default.aspx

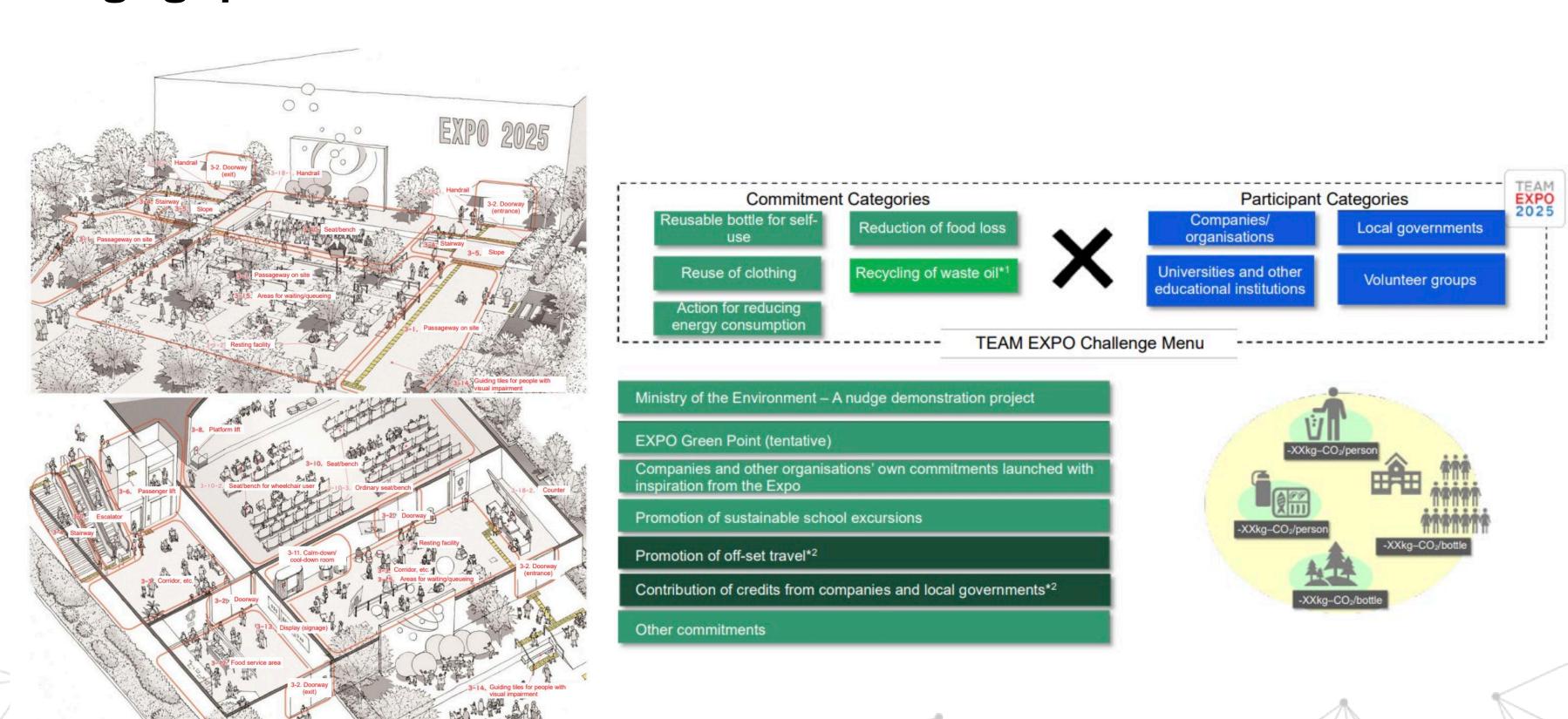
#### **Citizen Behaviour**



### Ideal Green Development for Tourism



## Merging open environmental data + citizen behavior + business need



### **Open Data Platform**

Review and find the balance between business needed / environmental development



Emission source	GHG emissions		ns	Major reduction measures other than	
Ellission source	Scope 1	Scope 2	Total	efforts to reduce energy consumption	
Facilities and equipment at the venue (such as pavilions)	6,374	23,627	30,001	Using a type of electricity whose emission factor is zero Using gasses with carbon offset certificates	
Transport means at the venue (such as peripheral trams and small mobility vehicles)	239	8	247	Electrifying these means and using a type of electricity whose emission factor is zero	
Transport means at the venue (such as logistics and waste carriers)	40	-	40	Continuing to work out possible measures, including using biofuels	
Organiser office	_	989	989	Considering switching to a type of electricity whose emission factor is zero	
Total	6,653	24,624	31,277		

Total | 0,003 | 24,024 | 31,277 |
Table 4-1: Estimated GHG business-a-susual (BAU) emissions (Scope 1 and Scope 2 GHG emissions that would result from a lack of reduction measures; unit: metric tons CO<sub>2</sub>e) and major reduction measures

Emission source	Emissions	Reduction measures	Details of the reduction	Reduction efforts through the Expo Green Challenge, including behavioural changes	Reduction subtotal
Construction of buildings, facilities, infrastructure, etc. at the Expo site	76.0	Reusing existing buildings Actively utilising leased goods, wood, etc. Actively utilising low-carbon materials, etc.	Reductions achieved by reusing existing buildings,	Reduction efforts through behavioural changes (outside the venue)  • Encouraging the use of	
Official trips by staff  Travel (including commuting) of staff, participants, and service providers	0.07	Promoting the use of a type of fuel from which emissions are offset and the introduction of fuel-efficient vehicles Recommending the purchase of carbon credits at the time of travel Using transport means with low GHG emissions	reducing food loss, and other measures cannot be added together. However, based on past	personal use Reducing food loss Reusing and recycling clothes Reusing used cooking oil Encouraging energy-saving behaviour Nudging people into behavioural changes	
Waste treatment and disposal	0.6	Reducing food loss and recycling food	calculations, it is estimated	Promoting sustainable school excursions	
Expo operations	19.2	Reducing the use of plastic (by using reusable dishes, cutlery, etc.) Promoting the use of a type of fuel from which emissions are offset and the introduction of fuel-efficient vehicles	that a total reduction of several hundred thousand metric tons CO <sub>2</sub> e can be achieved.	<ul> <li>Using the Expo to inspire companies and other parties to launch original initiatives</li> <li>Reducing the use of disposable containers and other items at hotels, inns, etc.</li> </ul>	Aiming to reduce remainin emission
Travel and overnight stays of visitors, food and beverages consumed at the Expo site, and the entire life cycles of licensed and other products, from their manufacturing to disposal	315.2	Recommending the purchase of carbon credits at the time of travel Using transport means with low GHO emissions Introducing fuel-efficient vehicles, EVs, synthetic fuel, biodlesel, etc. in cooperation with external suppliers			
Total	411		Several hundred thousand metric tons CO <sub>2</sub> e		Aiming to reduce remainin emission

Table 4-2: Estimated GHG business-as-usual (BAU) emissions (Scope 3 GHG emissions would result from a lack of reduction measures; unit: ten thousand metric tons CO₂e) and major reduction measures



### **Private Sector Participation**

Provide up-to-date technology to accelerate the use case









Measurement

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### **Policy**

Indicator to make sure the vision becomes a real action plan







### Samson Chan

Director, Business & Partnership



