

September, 2023
Osaka Prefectural Government
Growth Industry Promotion Office

Toward the Social Implementation of the Air Mobility Revolution In Osaka





1. Osaka RoundTable

2. Osaka's Vision of AAM

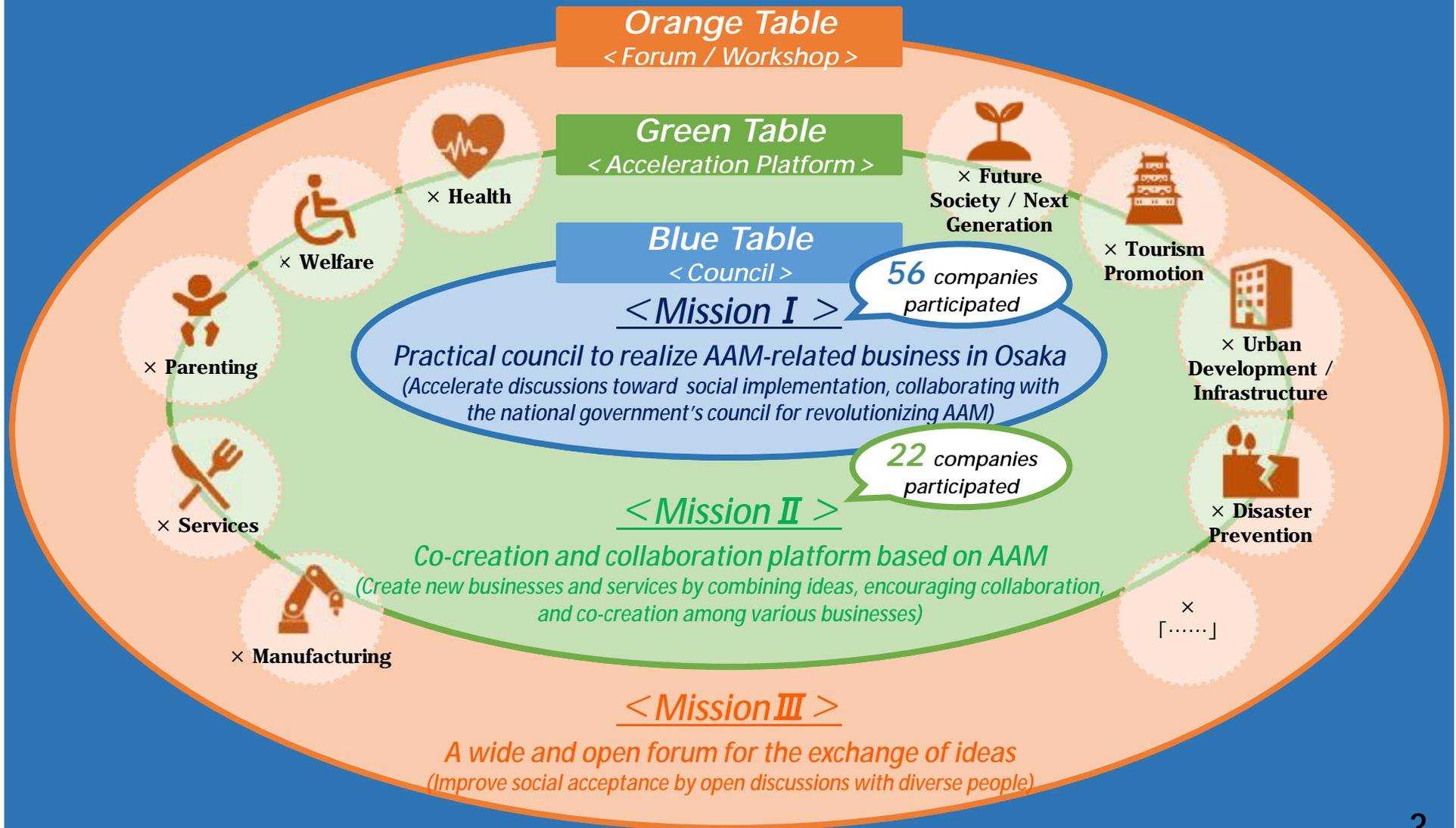
"A Creative Metropolis of Urban AAM-Industries"

**3. Osaka's Support Measures
for FY2023**

4. Expo 2025 Osaka, Kansai, Japan

1. Osaka RoundTable

It's a Public-Private Council Organized by Osaka Prefecture



2. Osaka's Vision of AAM

Osaka's Vision:

“A Creative Metropolis of Urban AAM-Industries”

Aiming to develop as a metropolis where AAM makes our lives more convenient and AAM-based industries are created

Around 2025
<Start-Up Phase>



Launch Commercial Flights
around the Expo 2025 Venue

Around 2030
<Expansion Phase>



Expand Commercial Flight Area
Including Urban Center

Around 2035
<Maturity Phase>



Achieve Networked Commercial
Flight in Wide Area

2. Steps toward Achieving Vision

Around 2025
<Start-Up Phase>

Around 2030
<Expansion Phase>

Around 2035
<Maturity Phase>



Lifestyle Shifts

Many people will feel the reality of new services with AAM by the Expo 2025

AAM will develop as the casual service by technological improvement

AAM will develop as the mobility woven into fabric of daily life

Industrial and Economic Impact on Osaka

Attract Human Resources, Companies, and Investment by Disseminate Commercial Flights

Development of Business Surrounding AAM & Innovation such as MRO, Smart Vertiport Operation, Automated Air Traffic Control, Automated Flight Control

Development of Industrial Economy in Osaka as the Ecosystem backing Operation of AAM

3. Osaka's Support Measures for FY2023

Accelerate Vertiport Construction

- ✓ Osaka Prefecture subsidizes businesses building vertiports
- ✓ Up to 50 million yen(≈318,000 €) subsidy per location
- ✓ We aim to build 5 vertiports in convenient locations in Osaka

Support demonstration experiments, etc.

- ✓ Subsidizes businesses conducting demo flights, etc. in Osaka
- ✓ Up to 10 million yen(≈64,000 €) subsidy per project
- ✓ We aim to Increase the number of businesses participating in specific projects in Osaka

Osaka Prefecture's efforts for FY2023 to make AAM a reality

Financial support will be offered to demonstrations, research and studies, and projects to improve social acceptability

Budgeted amount 70 million yen (≒445,000€)

- Subsidy rate : Within 1/2 of the project cost
- Subsidy ceiling : 10 million yen. (≒64,000€)

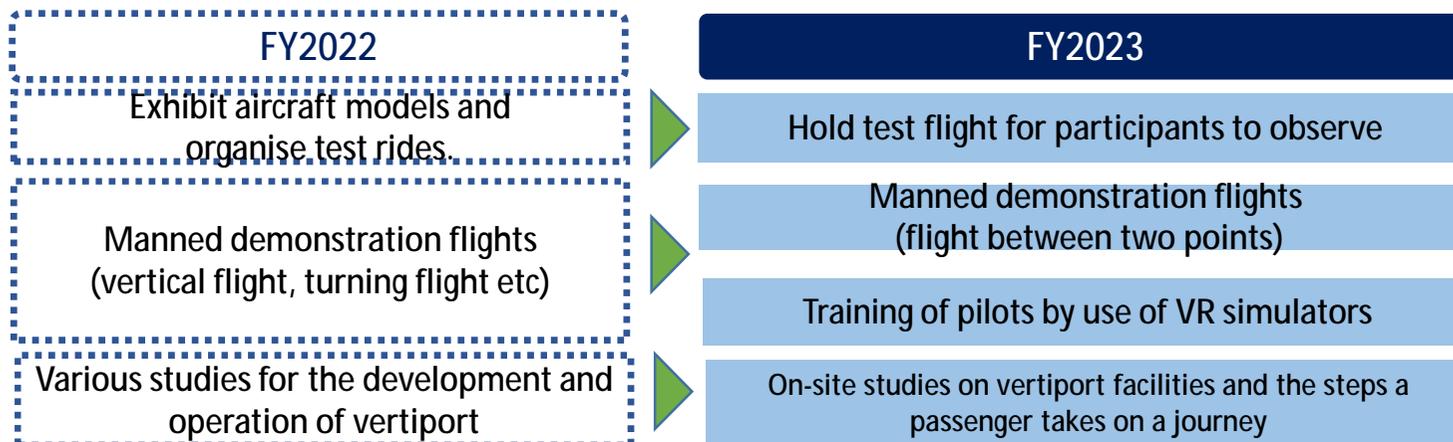
Subsidy overview

- Businesses aiming to develop AAM-based businesses in Osaka in the future are eligible
- The subsidy will be provided in cooperation with Hyogo Prefecture and Osaka City.

Summary of results

9 projects were adopted.

(31 companies with diverse backgrounds are participating. They consist of aircraft makers, trading firms and operating companies, aircraft operators among others)



Test flight tour (image)



Pilot training (image).

Future Society with AAM (produced by Osaka Prefecture: concept movie)



4. Expo 2025 Osaka, Kansai, Japan



1.1 Overview of the Expo

Title

Expo 2025 Osaka, Kansai, Japan

Theme

Designing Future Society for Our Lives

Subthemes

Saving Lives

Empowering Lives

Connecting Lives

Concept

People's Living Lab

Venue

Yumeshima Island, on the waterfront of Osaka City

Period

Sunday, 13 April to Monday, 13 October 2025

Venue

Yumeshima Island, on the waterfront of Osaka City

The site for the Expo is located in Yumeshima, an artificial island located on the waterfront in Osaka that offers visitors a view of the Seto Inland Sea. We will promote the Expo as the one connected to the world through the surrounding sea and sky, as well as providing programmes taking advantage of the venue's location.

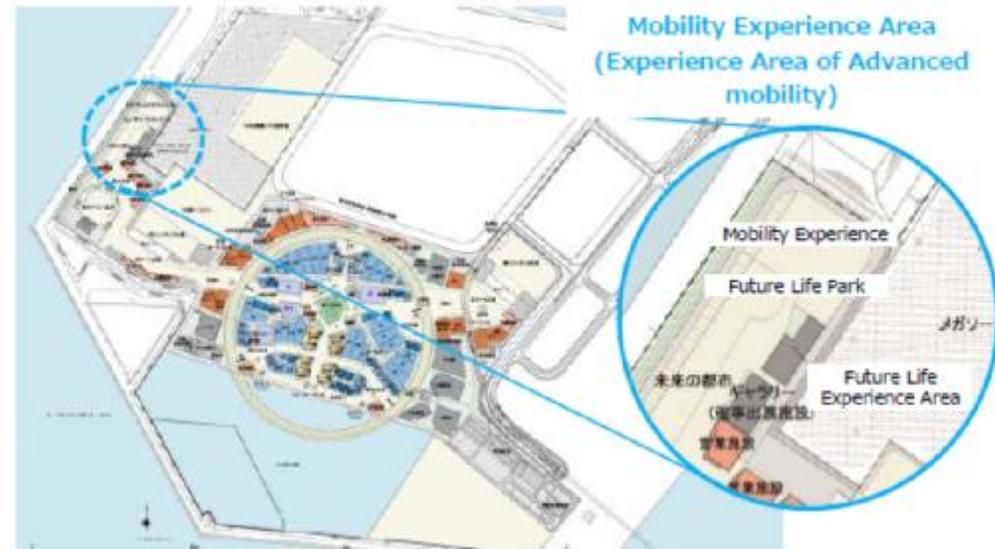
With an area of 1.55 km², the venue will have a pavilion area in its centre, with waters in its southern part and greenery in its western part.



World EXPO 2025 (Osaka Kansai EXPO)

AAM Activities in EXPO

At EXPO in 2025, we aim to realize AAM by using various type of eVTOLs in several ways : between two ports inside and outside the EXPO site, sightseeing flights, and demonstration flights. At the Mobility Experience located in the northwest part of the EXPO site, we are also building a vertiport (including take off and landing area, hanger and viewing area).



On Feb.21 2023, a press release event was held and the following companies were selected:

- operating vertiport in the Expo site : **ORIX**
- operating eVTOLs :
 - **ANA Holdings / Joby Aviation**
 - **Japan Airlines**
 - **Marubeni Corporaion**
 - **SkyDrive**

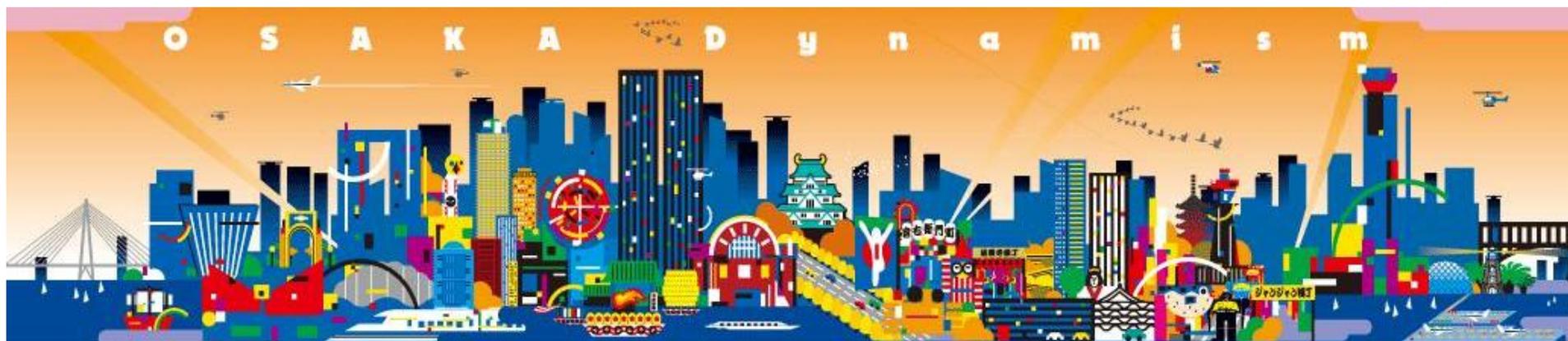


An overview of the AAM at the Expo

*All information is at the stage of consultation and coordination between the parties concerned and subject to further discussions.

As of Aug 7th 2023

AAM aircraft operator	ANA Holdings / Joby Aviation	Japan Air Lines	Marubeni Corporation	SkyDrive
Aircraft types planned to be used	 <p>Joby Aviation (US)</p> <p>Range 160 km. Max capacity / 5 persons</p>	 <p>Volocopter (Germany)</p> <p>Range 35 km Max capacity / 2 persons</p>	 <p>Vertical Aerospace (UK)</p> <p>Range 160 km. Max capacity/ 5 persons</p>	 <p>SkyDrive (Japan)</p> <p>Range 15 km Max capacity / 3 persons</p>
Possible sites for vertiports outside of the Expo site	<p>ANA Holdings/Joby Aviation are looking at possible locations along the gulf and the neighboring river banks that could be suitable for AAM vertiports.</p>	<p>[Sakurajima]</p> 	<p>[Amagasaki Phoenix]</p> 	<p>[Osaka Port, Central Jetty]</p> 
An illustration of the expected flight plan		<p>Flight between 2 points (Sakurajima and the site of the Expo)</p>	<p>Flight between 2 points (Amagasaki Phoenix and the site of the Expo)</p>	<p>Flight between 2 points (The Central Jetty and the site of the Expo)</p>



Thank you!

**Osaka Round Table for the Social Implementation of
a Revolution in Air Mobility**

<https://www.pref.osaka.lg.jp/energy/evtol/index.html>



Osaka Prefecture's Concept Movie for AAM

<https://www.youtube.com/channel/UCzHXysYoxxf4sSyvqcPqncw>

