



Osaka Prefectural Government



**Toward the Social Implementation of
the Air Mobility Revolution In Osaka**



Advanced Air Mobility, characterized by electrification, autonomous operation, and vertical take-off and landing, is a new means of transportation with the potential to make air transportation in various situations more accessible.

What is Advanced Air Mobility?

According to the Advanced Air Mobility Roadmap formulated by the national government, Advanced Air Mobility (hereinafter referred to as “AAM”) is defined as a more familiar and convenient means of air transportation with pilotless aircraft characterized by electrification, autonomous operation, and vertical take-off and landing. With its characteristics more likely to match needs for daily and short-distance transportation compared to conventional airplanes and helicopters in terms of environmental performance, quietness, convenience, and costs, AAM is a means of transportation with the potential to make air transportation, which is currently only associated with long-distance travels, more accessible. It is now being considered for utilization in various situations.

Characteristics of AAM



1 Electrification	<ul style="list-style-type: none"> ■ Enables improvement in terms of quietness, environmental performance, and maintainability, compared to internal combustion engines.
2 Autonomous operation	<ul style="list-style-type: none"> ■ Enables pilotless flights, leading to flight cost reduction.
3 Vertical take-off and landing	<ul style="list-style-type: none"> ■ Enables take-off and landing in confined spaces and point-to-point flying.

Expected situations where AAM is utilized

Air taxi

AAM can be used for traveling between the rooftops of buildings to avoid traffic congestion, transporting passengers between an airport or terminal station and their destination, as well as transporting passengers between cities and becoming a new means of transportation that connects areas with no means of transportation.

Tourism & leisure

AAM can be used for purposes such as travelling to tourist destinations where transportation is limited and operating sightseeing flights with the aim of leisure and entertainment at tourist destinations.

Emergency medical services

Using AAM as an emergency vehicle whose arrival times are unaffected by traffic conditions will significantly reduce the time required to arrive at an emergency scene. It is also likely that AAM will be used as an air ambulance, since current services are expensive to operate.

Disaster response

AAM can be used for fast response emergency rescue activities and transporting relief supplies if local community roads are cut off due to an occurrence of a disaster, such as a typhoon and an earthquake.

Situations where AAM is utilized





Initiatives toward the social implementation of AAM and development of related businesses through public-private partnerships are expected to bring new values and vitality to people's lives and to cities.

Why are we aiming for the social implementation of AAM in Osaka?

Contribute to new value creation and industrial development in the prefecture

AAM has the potential to greatly change the concept of the way people move and logistics and bring new values and vitality to people's lives and to cities. AAM use is also expected to spread into a wide variety of businesses. Through collaboration and co-creation with private sectors possessing various ideas and technologies, we will create new services and other opportunities leading to Osaka's growth.

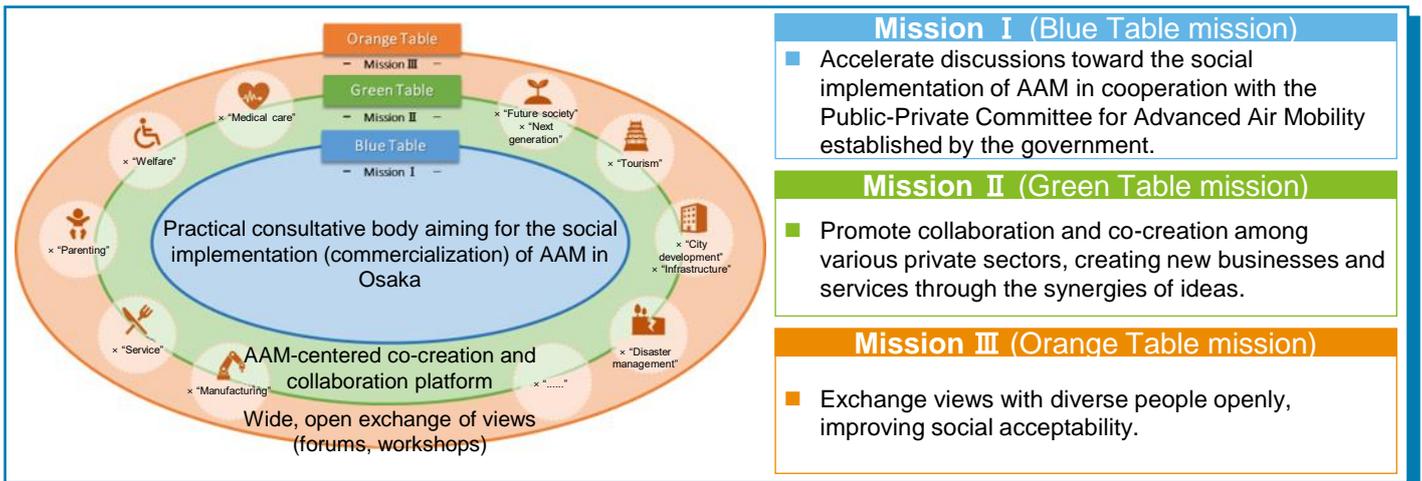
Disseminate AAM at the Expo 2025 Osaka, Kansai, Japan and carry on its legacy

Our aim is to realize AAM at the Expo 2025 Osaka, Kansai, Japan. Although we must overcome many challenges, with Osaka's spirit of "Yatte Minahare (just give it a try)," we will disseminate the vitality and attractiveness of a city that takes on challenges. Furthermore, we will carry on the legacy obtained from the Expo, such as the scheme, know-how and can-do spirit, aiming for the growth of Osaka and the Kansai region through the further promotion and expansion of AAM.

Osaka Round Table toward Air Mobility Revolution Social Implementation

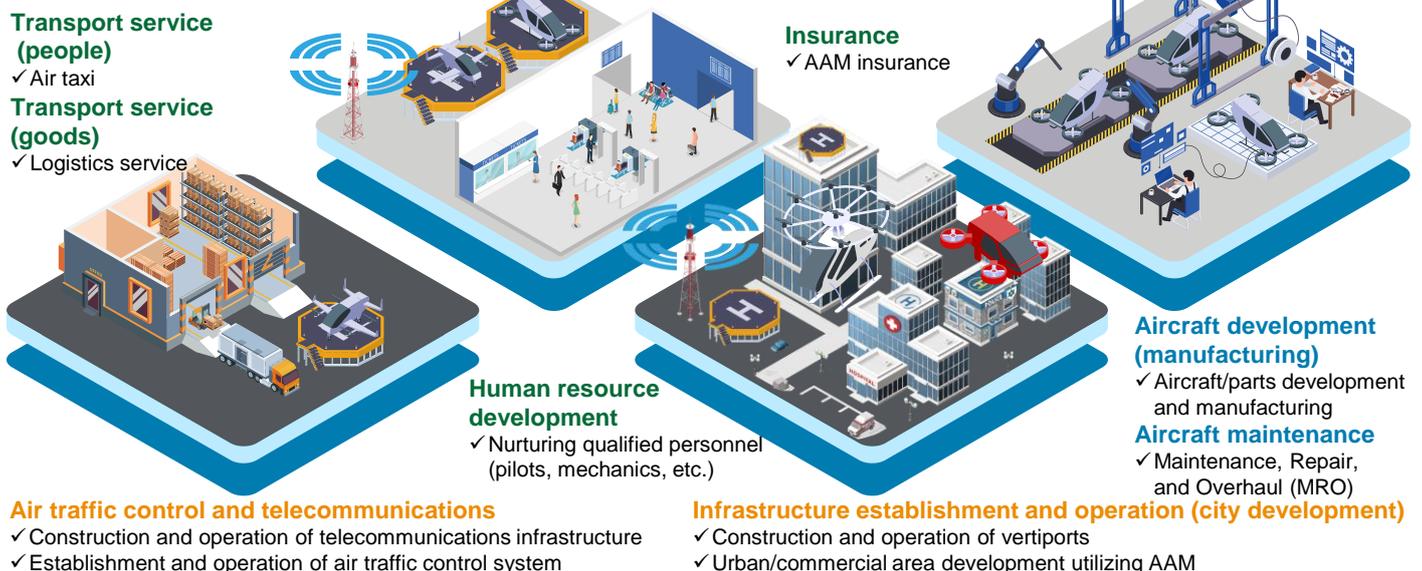
In November 2020, Osaka Prefecture launched the Osaka Round Table toward Air Mobility Revolution Social Implementation with the aim of outlining specific issues and proposals of AAM through industry-government-academia cooperation and coordination, and facilitating discussions and boosting efficiency of initiatives for the development of AAM.

Overview of Osaka Round Table toward Air Mobility Revolution Social Implementation



New businesses to be created through the realization of AAM

Overview of AAM-related industries





Aiming to become “the Creative City of Urban AAM-Business Model,” we have formulated the Osaka Edition Roadmap as a guideline for steadily advancing initiatives taken by public and private sectors toward the social implementation of AAM.

Challenges for the social implementation of AAM

Technological development

As well as technological development toward electrifying aircrafts, enabling autonomous operation, and ensuring safety, technologies related to take-off and landing and air traffic control need to be developed.

Infrastructure and system improvement

As well as vertiports and surrounding infrastructure, systems such as laws and regulations, etc. toward building a business environment need to be developed.

Discover private sectors (service providers)

To establish and expand AAM as a service, it is necessary to ensure sustainable commercial viability based on user needs.

Improve social acceptability

It is necessary to have many people, specifically those living in the Osaka Prefecture, understand widely and accept a society with AAM.

Developing the Osaka Edition Roadmap—toward solving challenges—

Guideline for initiatives taken by public and private sectors in Osaka

The Advanced Air Mobility Roadmap formulated by the national government shows schedules on technological development, system development, and other processes.

The Osaka Edition Roadmap developed by the Osaka Round Table is a process schedule that serves as a guideline for initiatives taken by public and private sectors toward the social implementation of AAM in Osaka, in line with the process schedule developed by the national government.

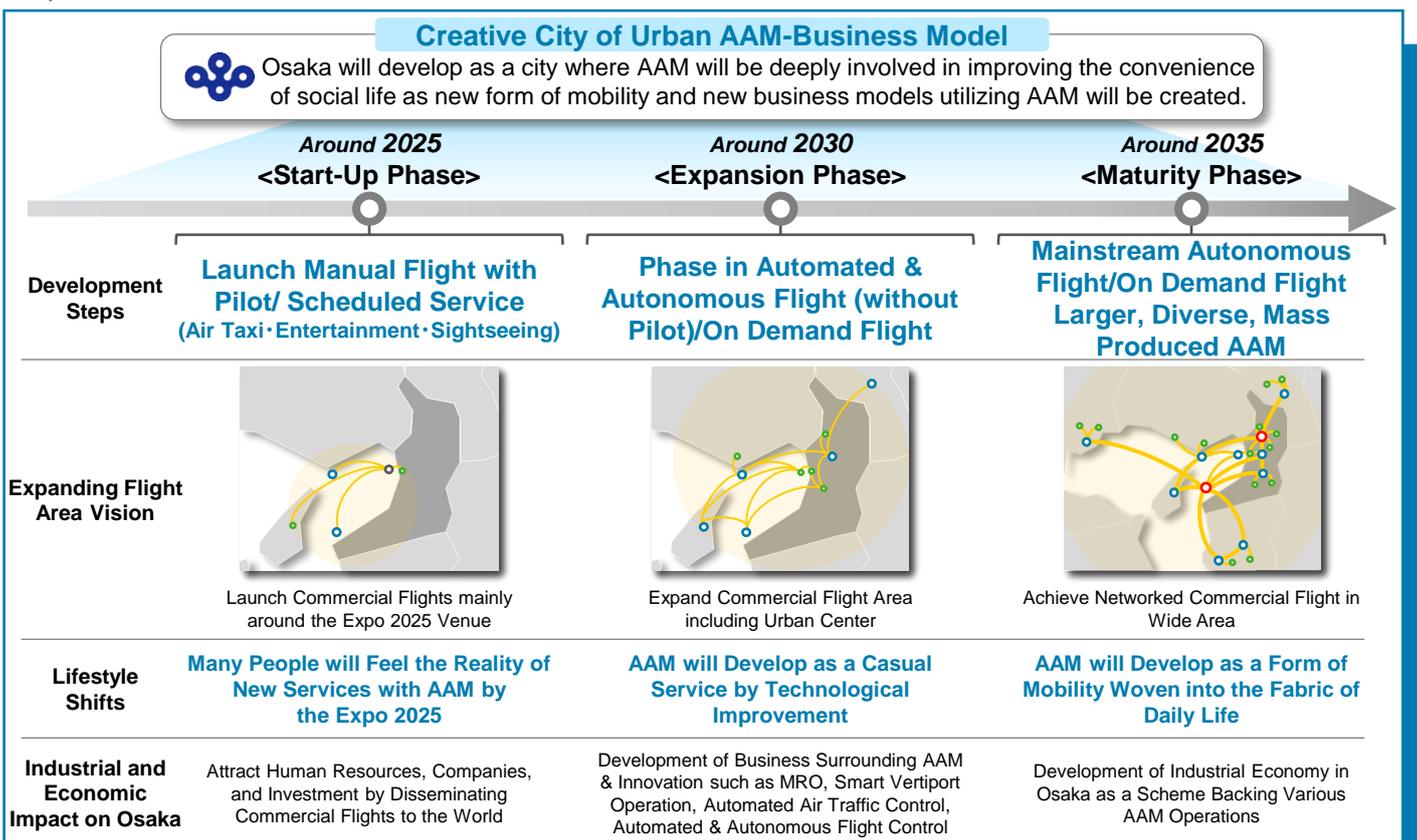
Outline specific actions and create opportunities for collaboration

In the Osaka Edition Roadmap, we have outlined the implementation policy of PoC, the development of business environment and the schedule of initiatives toward ensuring social acceptability, and have organized specific actions.

Each action plan shows the measures to be taken based on the roles and responsibilities of the Osaka Prefectural Government, surrounding local governments, and private sectors, raising expectations that opportunities to collaborate and co-operate among various stakeholders will be created.

Concept of developing the Osaka Edition Roadmap

Steps for the Osaka vision related to AAM and its realization

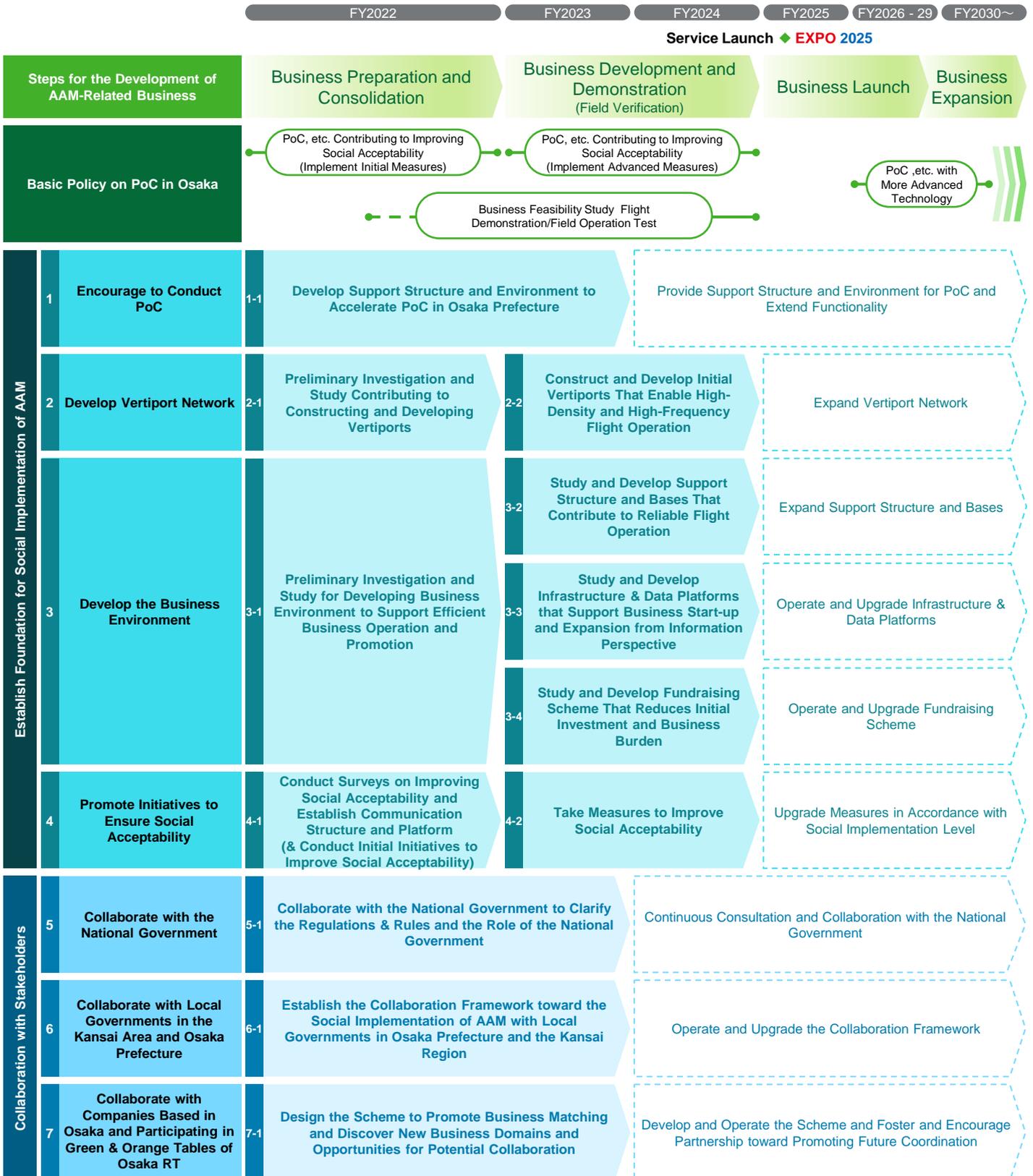


The Osaka Edition Roadmap and the action plan are accessible from your cell phone or smartphone.



Osaka Edition Roadmap

The Osaka Edition Roadmap outlines the steps for the development of AAM-related businesses up to Expo 2025. It also outlines seven major domains of actions categorized into two groups: establishing foundation for social implementation of AAM and collaboration with stakeholders.





In the future, we believe that we can realize a more convenient, valuable travel lifestyle for residents, local communities and tourists, connecting airports and cities, and each city in the Kansai region, and each area in the Osaka Prefecture.

Envisioned AAM usage in Osaka Prefecture and the Kansai region

We envision developing AAM networks connecting with tourist destinations, business bases, and other locations in the Kansai area, mainly in Osaka Prefecture. In Osaka Prefecture and the Kansai region, we envision employees taking “workations” and traveling quickly, and tourists traveling to their destinations directly or making an efficient excursion in famous tourist spots in the entire Kansai region. In Osaka Prefecture, we envision people, such as traveling without stress and traffic congestion, traveling between urban centers and suburban areas, or sightseeing from the sky.

Our vision for the future —Kansai area—



Our vision for the future —in Osaka Prefecture—



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