

13 January 2026

Baidu Autonomous Vehicle Trial Progress and North Lantau Route Extension Plan

Objective

Building on the robust testing foundation of the Airport Island and Tung Chung pilot routes, Baidu proposes an expansion of the trial scheme. This expansion aims to connect the Airport Island and Tung Chung district, while extending further into other parts of Tung Chung and Sunny Bay. By broadening its coverage across North Lantau, the project focuses on demonstrating the safety and stability of autonomous vehicles (“AVs”) across a diverse range of road conditions. This initiative will establish a large-scale AV trial cluster on Lantau Island, serving as a strategic launchpad and cornerstone for future fleet operations and the continued advancement of smart mobility applications.

Background

Baidu, Inc., a publicly listed company in Hong Kong, has been engaged in autonomous driving technology research and development since 2013. Having accumulated over 240 million kilometers of trial mileage, it presently holds more than 5,000 patents relating to autonomous driving. Currently, Baidu, Inc. has incorporated a local company, namely Baidu Apollo International Limited (“Baidu”) in Hong Kong. Upon obtaining an AV pilot licence and an AV certificate from the Transport Department (“TD”) in 2024, Baidu began its AV trials in the Airport Area in December the same year and

has since diligently adhered to the “safety first” principle in the process, achieving a zero serious accident and traffic congestion record. Baidu aspires to usher autonomous driving technology and its pilot application into Hong Kong through conducting AV trials with a phased, district-based and step-by-step approach in orderly and safe manners.

Performance and Progress of Baidu’s AV Trial Project

Since December 2024, Baidu has been conducting AV trials in the North Lantau. To date, the accumulated test mileage has exceeded 100,000 kilometers. Throughout the trial period, there has been no traffic congestion caused, further enhancing the stability of the autonomous driving system under high traffic flow conditions. The stability of the system during multi-vehicle simultaneous testing and the co-ordination capabilities of fleet management have also been validated. At this stage, adaptation to Hong Kong’s traffic regulations has been preliminarily completed, and functions have been developed and verified for scenarios such as busy roundabouts and give-way junctions.

At the end of April 2025, along the first phase trial route in Hong Kong International Airport (“HKIA”), approval was granted to increase the number of AVs running simultaneously to ten. Baidu also began to test AVs carrying designated passengers along the first phase trial route in HKIA. The trial route was also extended to cover the Aircraft Maintenance Area, Aircraft Catering Area and Airport Logistics Area, with five pick-up/drop-off points set up respectively at the Hong Kong International Airport Tower, Civil Aviation Department Headquarters, AsiaWorld-Expo, Gate House No. 2, the Hong Kong Aircraft Engineering Company Limited and Aircraft Maintenance Area. Baidu obtained pilot licences for Tung Chung and Cyberport (Southern District) trials in June and August. This was followed by another licence in

late October for the dense and challenging environments in communities of Kowloon East (Kowloon City and Kwun Tong districts).

The AV trial has made significant progress, achieving four major technological advancements: simultaneous operation of multiple vehicles, non-commercial passenger-carrying trials, route expansion, and vehicle speed improvement. The Airport Island extension routes and the first batch of routes in Tung Chung have completed the mileage requirement of 500 kilometers per vehicle. Throughout the process, Baidu has strictly complied with relevant Hong Kong laws and regulations, as well as the conditions attached to the pilot licence and the AV certificates. The AVs have met the safety mileage/duration requirements for each phase of trial under the Code of Practice, demonstrated their suitability for road use, and proven that their use is roadworthy.

Details for Autonomous Vehicle Trials in North Lantau Extension Plan

The North Lantau AV pilot scheme routing is expanding its footprint. In addition to covering more urban roads within Tung Chung, the extension will facilitate cross-district connection between the Airport Island and Tung Chung town center (via Chek Lap Kok South Road). The updated route also incorporates key testing scenarios such as Sunny Bay MTR Station and the Discovery Bay Tunnel entrance, significantly broadening its coverage across North Lantau. These expansions are designed to validate AV applications in diverse scenarios and integrate innovative technology with high-efficiency, multi-point shuttle trial. Ultimately, this project aims to realize a Smart Mobility Network for Lantau, operating in full compliance with the Transport Department's new regulatory framework and Code of Practice for AVs to build a solid foundation for future smart city applications.

Consistent with current testing protocols, a backup operator will be stationed in the driver's seat during all trials on the new routes. These operators are local Hong Kong residents with at least 10 years of driving experience who have completed over 100 hours of full-time specialized training provided by Baidu. They will monitor the vehicle and road conditions in real-time, ready to take manual control whenever necessary to ensure safety. For instance, when encountering roadworks, the backup operator can take over to navigate the area smoothly and prevent traffic disruptions. Throughout the testing phase, the Baidu team will maintain rigorous quality control and conduct timely performance evaluations. Furthermore, all autonomous vehicles are equipped with mandatory third-party liability insurance in accordance with current regulations to protect public interests. Trials will be conducted in a phased, safety-first manner to minimize any potential impact on surrounding traffic.

Testing Hours

For more comprehensive testing and verification of the performance of AVs under miscellaneous traffic conditions on open roads, the testing hours are:

- Mon-Sun : 01:00AM to 05:00AM ; 10:00AM to 10:00PM.

Trial Routes

Approved Tung Chung Routes	North Lantau Extension Plan
Man Tung Road, Ying Hei Road, Yi Tung Road, the Tung Chung Eastern Interchange, Yu Tung Road, Chung Yan Road, Shun Tung Road, Tung Chung Waterfront Road, and Wai Tung Road.	<u>Airport Island to Tung Chung:</u> Chek Lap Kok South Road <u>Tung Chung Routes:</u> Tat Tung Road, Tung Chung Waterfront Road, Ying Hei Road, Ying Tung Road, Chung Mun Road,

	<p>Chung Yat Street, Hing Tung Street, Wui Tung Street, Kam Tung Road, Man Tung Road, Yi Tung Road, Yu Tung Road, Chung Yan Road, Shun Tung Road, and Wai Tung Road, as well as the Tung Chung Eastern Interchange and Chek Lap Kok South Road.</p> <p><u>Route between Tung Chung and Sunny Bay Station:</u></p> <p>Cheung Tung Road, Sunny Bay Road, and the Discovery Bay Tunnel Toll Plaza.</p>
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Stopping Points

Under the pilot scheme, the autonomous vehicle project will use the following locations as stopping points to test parking performance across various sites and road scenarios. No passenger will be carried during these tests:

Approved Tung Chung Routes	North Lantau Extension Plan
<ul style="list-style-type: none"> The lay-by on Chung Yan Road outside Yat Tung Estate Car Park No. 1 The lay-by on Man Tung Road (Westbound) near Man Tung Road Park 	<ul style="list-style-type: none"> Tung Chung Development Pier Sheraton Hong Kong Tung Chung Hotel Citygate Outlets, Tung Chung Tung Chung MTR Exit A Discovery Bay Tunnel Toll Plaza Sunny Bay MTR Station

Diagrams of the aforementioned test routes and stopping points are included in

the appendix.

Number of AVs

The plan involves utilizing the 10 AVs already approved for Tung Chung, increasing the number of vehicles tested simultaneously from 3 to 8 (covering both the Tung Chung routes and the extension routes). Upon further verification from trial at roads in Tung Chung routes and the extension routes, the number of test vehicles will increase progressively on those routes.

Charging and Parking

11 Skies South Carpark

Conclusion

In conclusion, the Baidu team is committed to fully complying with the road usage code of practice established by the TD. We will ensure safety, legality, and compliance during the trial period and are willing to accept supervision from relevant authorities. We aim to establish a safety management framework and fully leverage the advantages of Lantau Island as a foundation for smart mobility to drive the practical application and development of autonomous driving technology in Hong Kong. Furthermore, we seek to foster exchange and connection between the local innovation and technology ecosystem and the community, contributing to the long-term development of smart mobility and smart city initiatives in Hong Kong.

Baidu Apollo International Limited

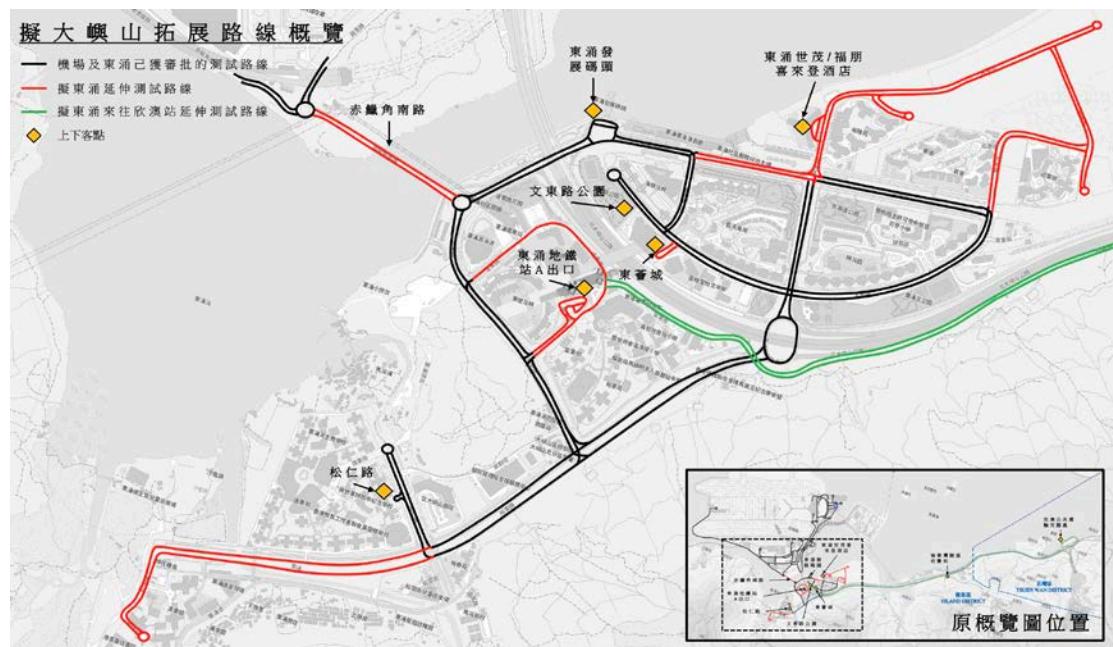
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APPENDIX

Overview of North Lantau Route Extension



North Lantau Route Extension - Tung Chung Route (Zoom-in version)



Roads available for Trial without passenger (Auto or Manual) (Highlighted in **RED**, **Black** and **Green**)

Approved Tung Chung Routes (BLACK)	North Lantau Extension Plan
Man Tung Road, Ying Hei Road, Yi Tung Road, the Tung Chung Eastern Interchange, Yu Tung Road, Chung	<u>Airport Island to Tung Chung (RED):</u> <u>Chek Lap Kok South Road</u> <u>Tung Chung Routes (RED):</u>

<p>Yan Road, Shun Tung Road, Tung Chung Waterfront Road, and Wai Tung Road.</p>	<p>Tat Tung Road, Tung Chung Waterfront Road, Ying Hei Road, Ying Tung Road, Chung Mun Road, Chung Yat Street, Hing Tung Street, Wui Tung Street, Kam Tung Road, Man Tung Road, Yi Tung Road, Yu Tung Road, Chung Yan Road, Shun Tung Road, and Wai Tung Road, as well as the Tung Chung Eastern Interchange and Chek Lap Kok South Road.</p> <p><u>Route between Tung Chung and Sunny Bay Station (GREEN):</u></p> <p>Cheung Tung Road, Sunny Bay Road, and the Discovery Bay Tunnel Toll Plaza.</p>
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Remarks:

1. Route distance: Approximately 16 kilometers (Approximately 2km for each extension route in Tung Chung, and approximately 14km between Tung Chung to Sunny Bay).
2. Stopping points for AVs:

Approved Tung Chung Routes	North Lantau Extension Plan
<ul style="list-style-type: none"> • The lay-by on Chung Yan Road outside Yat Tung Estate 	<ul style="list-style-type: none"> • Tung Chung Development Pier • Sheraton Hong Kong Tung Chung

Car Park No. 1	Hotel
<ul style="list-style-type: none"> • The lay-by on Man Tung Road (Westbound) near Man Tung Road Park 	<ul style="list-style-type: none"> • Citygate Outlets, Tung Chung • Tung Chung MTR Exit A • Discovery Bay Tunnel Toll Plaza • Sunny Bay MTR Station