



Marco Polo Airport in Venice opens new extension with light-filled gallery

One Works has completed Phase 1 of a major development plan for Marco Polo Airport, with expansive new facilities carefully integrated into the existing fabric of the airport. Working alongside SAVE Engineering, One Works – a global design and consultancy firm with a specialism in transport architecture and engineering – has overseen the complex architectural and structural challenges involved in bringing the airport up to 21st century standards. The extension is defined by a new 280-metre-long plaza featuring a dramatic gridshell roof that allows sunlight to filter down to the passengers below.

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Marco Polo Airport: a new international hub

Marco Polo Airport is an important part of northern Italy's transport infrastructure, with a growing number of passengers using routes through it thanks to an overarching traffic strategy. This gateway is the third such intercontinetal hub in the country as it includes connections to North America and the Middle East. The reconfiguration of Marco Polo is based on an €800 million development plan that runs from 2012-2021, aimed at radically reshaping the airport to accommodate increased traffic, without compromising on safety and efficiency. In 2016, Marco Polo Airport completed the Water Terminal (a new 5,000 sqm terminal linking passengers to the docks); an elevated moving walkway; a trigeneration power plant and barracks for the local fire brigade. This year saw the completion of the Phase 1 of the expansion of the airport terminal.

The first phase of the extension: 2013-2017

Inaugurated on June 17, the new 11,000 sqm extension creates a kind of forecourt for the airport, improving accessibility to the terminal and connecting passengers to the dock via the new **moving** walkway; from here passengers can travel to Venice in style by Vaporetto or water taxi. The new forecourt, which will accommodate passengers arriving from all means of transport (including train journeys in future development phases), is comprised of an 280-metre-long, fully glazed gallery that takes advantage of the 22-metre-wide interstitial space left free in the original complex between the terminal and the dual level road. This allows the new forecourt to offer generous, light-filled spaces, for departures and arrivals, with a lightweight roof structure that offers strategic flexibility.

The new distribution layout has been developed to marry the functional requirements of the day-to-day terminal operations but also to embrace the beauty of the spectacular views of the Venice lagoon, which embarking passengers receive from the commercial square. One Works has created a harmonious dialogue between the original airport buildings and the new extensions, ensuring that the iconic lagoon landmark is expanded sustainably, now and in the future.

Inspired by the traditions of Venetian glass, a new VIP area, known as the Marco Polo Lounge, is characterised by the use of glass, both as a form generator and as a finishing material. The lounge is configured as two contrasting spaces with their own singular identities. On one side, overlooking the track and bathed in natural light, is the main relaxation area featuring floor-to-ceiling glass walls and an undulating ceiling that blends with the parquet floor. On the other side of the partition glass is an area close to the central core of the airport, dedicated to ancillary functions and services such as the

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reception, cloakroom, changing rooms, toilets, storage and food preparation areas. Between these two spaces there are two further rest spots and the lounge also boasts a new winter garden that partially covers the existing terrace.

Marco Polo Airport: a challenge for integration between new and existing structures

Expanding a passenger terminal is often more complex than building a new one, as it requires a dedicated joint commitment between the airport operator and the design team. Functional and capacity targets are made up of architectural, structural and plant aspects, involving operational management, commercial output and maintenance processes. Passenger terminal extensions and upgrades are based on a careful programme of works and analysis of different options to ensure the best solutions are developed for harmonizing the existing structures with new spaces and new generations of plant facilities, such as air-conditioning, lighting and data transmission. The success of the project is based on a perfect balance between the so-called 'hard' areas, mainly represented by the connections between the levels and the structural dimensions, and the 'soft' areas, which includes flexible surfaces that can be modified, with low investment, to suit the operating and commercial needs of the airport. The big challenge runs along the joining lines between old and new parts of the airport.

The Marco Polo Airport project comprises a phased extension program that will add more than 100,000 sqm to the existing terminal to meet the most complex functional, architectural and constructive demands in the landside and airside areas, for over 15 million passengers expected every year. This project will accommodate the required traffic capacity up until 2030, whilst respecting the fragile ecosystem of the neighbouring lagoon and the historic centre of Venice. The project will also provide greater comfort and accessibility to increased numbers of international passengers, offering spaces with higher quality standards.

In order to meet the highest European standards, security and infrastructure capabilities consistent with demand for an adequate level of service, as well as environmental and economic sustainability are key factors for the success of the strategic masterplan. The approach adopted will also allow the complexity of infrastructure integration with potential urban development to be easily managed and will create greater accessibility; also a key objective for the development of the airport and part of the long-term strategic masterplan, for which One Works is also providing Consultant support.

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One Works is a global design and consultancy firm, offering integrated architecture, infrastructure and urban engineering services.

We are experts in dealing with crowded spaces. Our extensive knowledge of diverse physical, environmental, historical and social conditions, help create and shape dynamic places for people across a range of sectors including: Aviation, Transportation, Retail and Urban Design.

With over 20 years' experience and an Italian heritage, we continue to place high-quality design at the centre of our multidisciplinary collaborations.

We work from six strategic locations across the globe, with our design headquarters in Milan and offices in London, Rome, Venice, Dubai and Singapore. From these locations, our team of over 150 architects, designers and engineers provide a flexible and stable approach to the design and delivery of projects worldwide.

Our work succeeds because of our collaborative ethos and an understanding of our clients' aspirations. It gives us the ability to offer truly integrated design solutions across a range of different sectors