

Phnom Penh International Airport **Renovation of the runway**

November 15, 2018

PRESS KIT

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Upgrading the runway capacity for future traffic growth

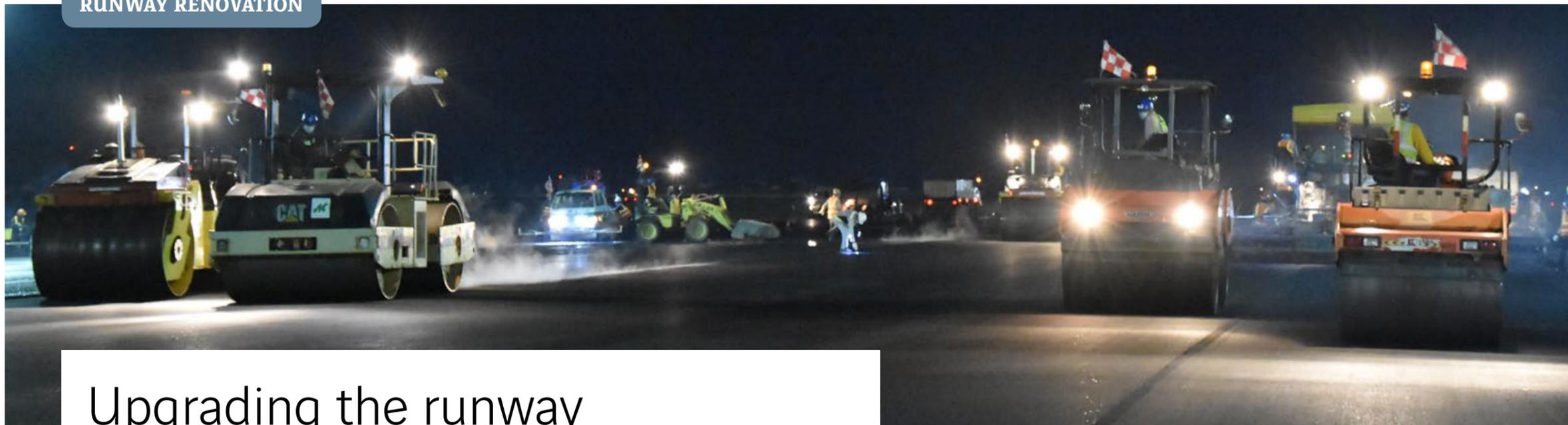
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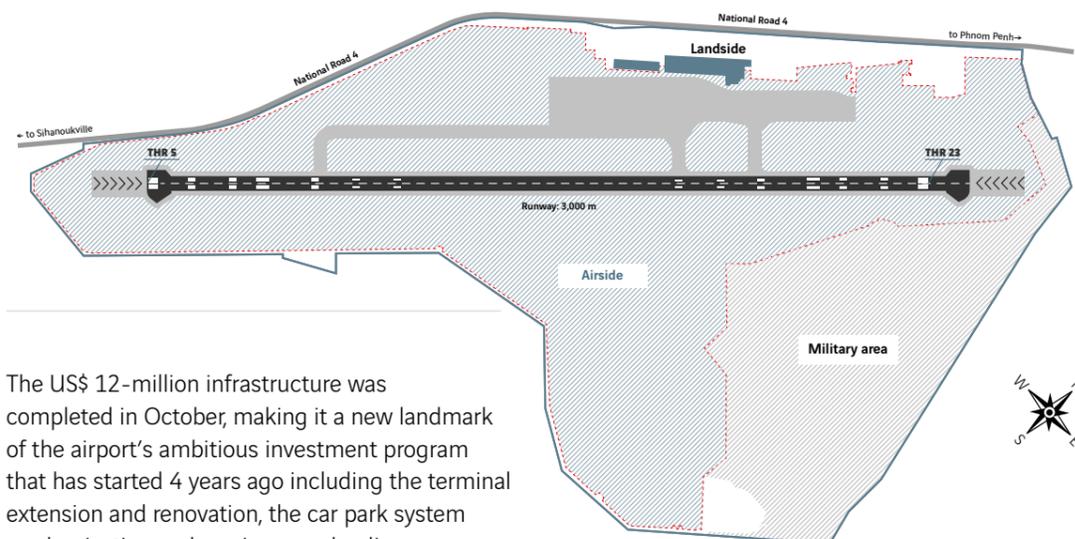
RUNWAY RENOVATION



Owner	Royal Government of Cambodia
Client	Cambodia Airports
Project Management	Cambodia Airports
Pavement Design	VINCI Airports Engineering
Infrastructure Design	Egis
Asphalt Concrete Mix Design	VINCI Eurovia TDE
Airfield Lighting Design	Cambodia Airports
Pavement and Civil Works Contractor	Muhibbah Masteron Cambodia
Airfield Lighting Works Contractor	Comin Khmere

Upgrading the runway capacity for future traffic growth

Resurfacing the runway is an essential component for improving airport operations. In less than a year, Cambodia Airports carried-out works to fully renovate the 3,000-metre runway of Phnom Penh International Airport.



The US\$ 12-million infrastructure was completed in October, making it a new landmark of the airport's ambitious investment program that has started 4 years ago including the terminal extension and renovation, the car park system modernization and services overhauling.

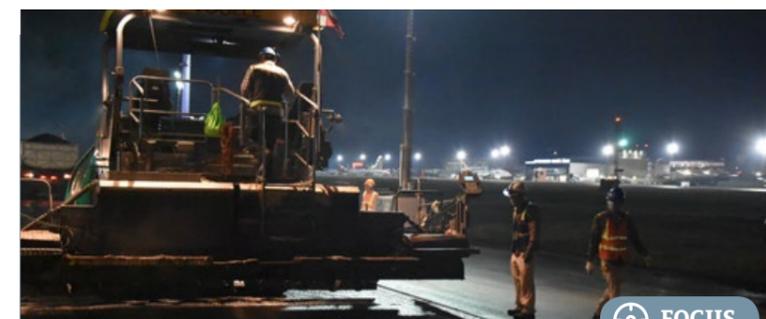
- The comprehensive renovation of the runway has multiple aspects and benefits:
- » Further increase the runway safety and improvement of its comfort for aircraft landings and take-offs
 - » New line marking
 - » New blast protection and shoulders overlay
 - » Upgrade of the aeronautical ground lighting and, in addition, use of LED light to minimize carbon emission

The resurfacing of the runway is instrumental in coping with traffic growth in the next 10-15 years.

Staging of the project

OCTOBER 2017 Study phase	MARCH 2018 Start of the preparation works	JUNE 2018 Beginning of the main works	OCTOBER 2018 Main pavement finalization
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MAIN FIGURES	180,000 m² Runway global surface	45 m Runway width	6 cm New pavement average thickness	150 m Average length of runway overlay per night	7,000 m² Average area of runway overlay per night
	250 Staff on site by night	41,000 tons Hot mix asphalt produced quantity	1,300 Trucks delivered on site	150 Number of lights leveled up	



Working in an occupied site: A technical feat

The airport remained open throughout the runway overlay works. This required constant coordination on the part of the works teams, the technical department and the contractor, as well as a highly responsive work organisation to ensure smooth airport operations.

The project was completed in less than 1 year. Works were carried out at night over a time span of 6 hours. Well-trained and experienced teams laid the asphalt on 150-metre portions of the runway each night.

Delayed runway opening in the morning

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Air operations safety issue due to works

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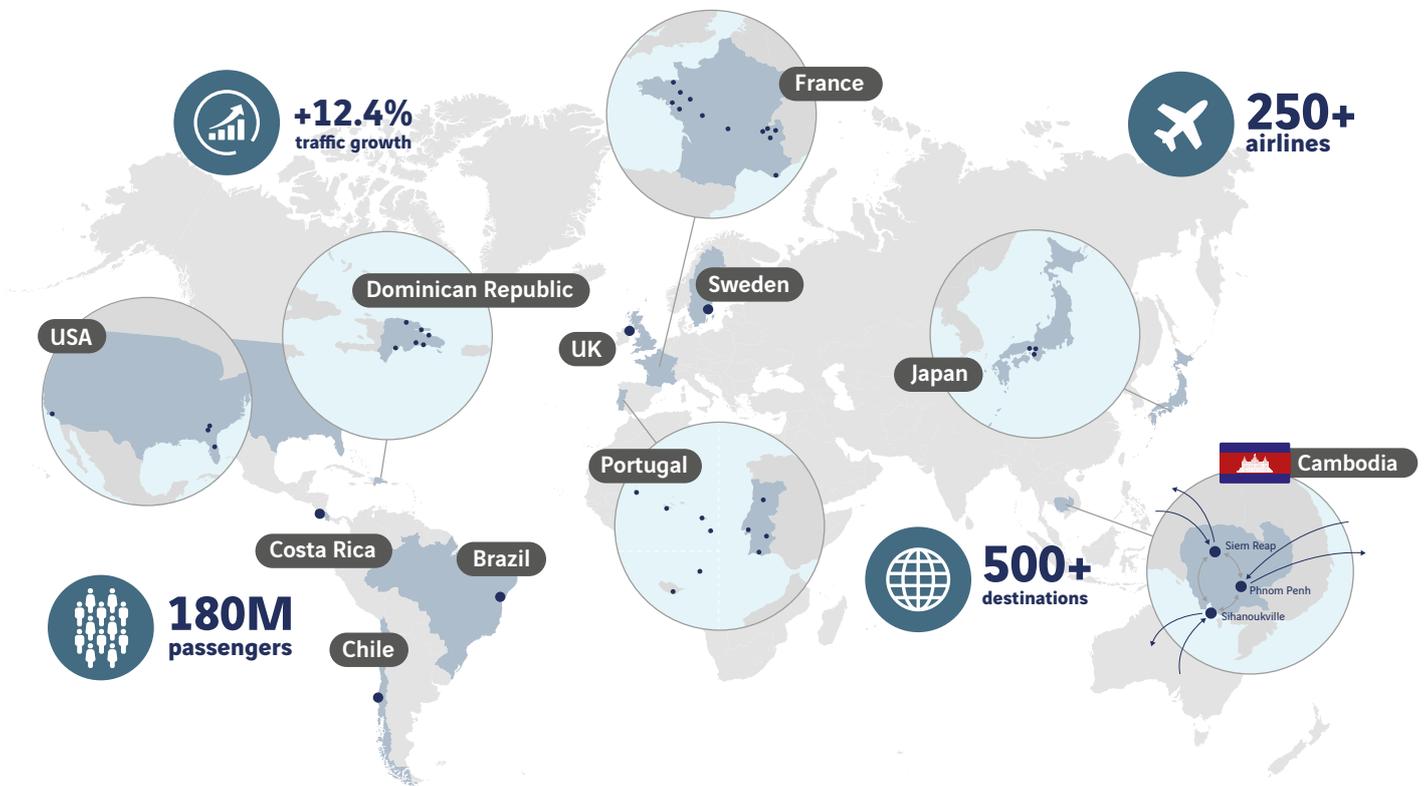
Canceled or delayed flight due to works

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About VINCI Airports



As a top 5 global integrator in the international airport sector, VINCI Airports develops, finances, builds and provides everyday operation of 44 airports in 11 countries and 3 continents.



About Cambodia Airports



Under a public-private partnership with the Royal Government of Cambodia, Cambodia Airports holds the concession, since 1995, for the development and management of Cambodia's network of international airports serving the capital city of Phnom Penh, Siem Reap, home to the UNESCO World Heritage Angkor Archeological Complex, and the port city and beach resort of Sihanoukville.

The shareholders of Cambodia Airports are France's VINCI Airports (70%) and Muhibbah Masteron Cambodia (30%), a Malaysian-Cambodian joint venture.

About Muhibbah Masteron Cambodia



Muhibbah Engineering (M) Bhd is a public listed company on the Main Board of the Kuala Lumpur Stock Exchange (KLSE). Muhibbah was the first company in Malaysia to achieve ISO 9002 certification in 1995 in the construction sector, placing strong emphasis on quality and safety in every aspect of operations, and also the first construction company in Malaysia to have accomplished this. Muhibbah is renowned for being a leader in Marine Construction; since its incorporation in 1972. Today, Muhibbah also stands firm in the various discipline of Engineering Construction, both locally and internationally.

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