

ACI World AIRPORT DEVELOPMENT NEWS

A service provided by ACI World in cooperation with Momberger Airport Information www.mombergerairport.info
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Contents

Focus on AFRICA	1
Other Regions	9
Green Airports.....	9

Focus on AFRICA

EGYPT

JICA, the Japan International Co-operation Agency, has been supporting Egypt’s infrastructure development efforts since 1977 through grants, loans and technical assistance and has established itself as one of the country’s main partners for development. The political importance of Egypt and its economic and business potential for Japanese companies are significant enough for JICA to assist in the development of Egypt. With a large and young population, Egypt’s labour force and market are attractive to Japanese businesses. Fifty companies have expanded their operations in the country and more Japanese companies are interested in investing in Egypt. **In total, JICA has provided around USD 1.2 billion of grant aid, and financed 42 projects with loans worth nearly USD 6.5 billion.** JICA has been supporting Egypt with technical co-operation since 1980 to develop human resources and the social system and has brought more than 2,800 Japanese experts to Egypt and sent more than 10,000 trainees from Egypt to Japan. More than 280 Japan Overseas Co-operation Volunteers (JOCV) have also been working in Egypt.

The priority areas for JICA’s co-operation with Egypt include electricity, transport, tourism, basic social services, education, public sector empowerment, and regional co-operation. In addition to financing the first phase of Cairo’s fourth metro line, which will connect the west of Greater Cairo to Fustat, **JICA is financing the development and modernization of several airports in Egypt, including Alexandria’s Borg el-Arab Airport, where a new passenger terminal is being built.** Borg El-Arab Airport is 40 km away from downtown Alexandria. JICA focuses on eco-friendly airport development which includes the installation of environmentally friendly equipment such as high-efficiency air-conditioning systems, LED lighting, and solar power generation. This can contribute to the improvement of economic development through tourism promotion.

With financial assistance from JICA, the Egyptian Airports Company has developed a new international passenger terminal complex at Borg el-Arab. The first phase has been completed already and the second phase is under way. The new environmentally-friendly, 34,000-ft² terminal will expand airport services and passenger capacity and is being constructed in co-operation with JICA. The new terminal will serve nearly 4 million passengers a year and will increase the airport's total capacity to 6 million annual passengers by 2030. The terminal project also includes establishing a new tarmac that can accommodate 20 aircraft. A new 1,000-car parking area is also part of the development plan, as well as a service court, shops for passengers, sanitation, and electricity stations.

Egypt’s President Abdel-Fattah el-Sisi has inspected Egypt’s new Sphinx International Airport (SPX), which is set to open for service later in 2018. In an official statement, Presidency spokesman Bassam Rady said the President had inspected the finalized project, which will be able to accommodate 300 passengers per hour. Built west of Cairo off the 45th kilometre marker on the Cairo -

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Alexandria Desert Road in Giza governorate at a cost of EGP 300 million, SPX has been constructed by the Egyptian Consultancy Company and is intended to reduce the pressure on Cairo International Airport, which is located in the city's eastern outskirts. According to Rady, the airport will serve the residents of Cairo's western satellite cities 6 October and Sheikh Zayed, as well as those of other nearby governorates such as Beni Suef and Fayoum. It will also serve tourists coming to visit the Great Pyramids of Giza and the soon-to-be-inaugurated Grand Egyptian Museum (GEM), according to 2017 statements by Egyptian Aviation Minister Sherif Fathy. -- During an earlier visit, el-Sisi said that **El-Arish Airport in the North Sinai province must be made operational again** and that "the State should return to Sinai," adding that a safe zone will be established around the airport. In December 2017, the airport close to the Gaza Strip had been attacked by mortar fire.

LIBYA

The Minister of Transport, Milad Matouq, has announced the handing over of the site for reconstructing the second passenger terminal at Tripoli International Airport to the Italian Consorzio Aeneas. Matouq said that the Ministry has contracted two companies to establish two passenger terminals at the airport. The first passenger terminal of 10,000 m² is to be fully completed within three months by local construction company Enjaz, while Aeneas will work on the second project with an area of 12,000 m² during the next ten months. Consorzio Aeneas had been awarded the design and construction contract with a total value of EUR 79 million in July 2017. The project involves the design and construction of two Terminals (T1 for international flights and T2 for national flights) with an estimated annual capacity of 7 million passengers and a parking area for about 1,800 cars. The Aeneas Consortium consists of the firms Two-Seven (consultancy), Axitea (security), Nuct Aviation (construction), Lion Consulting, Ing. Orfeo Mazzitelli (construction). -- The Ministry quoted Matouq as saying that his Ministry is working to ensure the development and operation of both the Mitiga and Tripoli international airports in a parallel way to provide advanced air services. – Mitiga, near Tripolis, is the former Wheelus Air Base.

TUNISIA

The Minister of Transport, Radhouan Ayara, recently said during a press conference that the country will build a new airport that meets international standards by 2030. With an estimated cost of TND 2,047 million (USD 840 million), the new civilian airport will be the tenth in the North African country. The airport will be located in the province of Bizerte, about 80 km north of Tunis, he said, adding that the international tender will be launched later in 2018. **According to the Minister, his department has implemented a new strategy to upgrade all airports in the country.**

"Redevelopment has already started at Tunis-Carthage International Airport (located in the northern suburbs of Tunis), with a cost of TND 190 million for an annual capacity of 7.5 million passengers per year," he said. Besides, the Remada military airfield, located 600 km south of Tunis, will be transformed into a civilian airport. "The cost of the project is TND 22 million, with a construction deadline of two years in co-ordination with the Ministry of Defense," Ayara said. Two other civil airports in the southeastern cities of Tozeur and Djerba will also be involved, with respective costs of TND 30 million and TND 62 million.

MOROCCO

Mohammed V International Airport (CMN) in Casablanca has been singled out as the best airport in Africa for 2017 according to the Airport Service Quality awards carried out by Airport Council International (ACI). CMN was followed by Mauritius' 'Sir Seewoosagur Ramgoolam International Airport' and South Africa's 'King Shaka'/Durban Airport in second and third place, respectively. The CMN is the hub for three top Moroccan airlines: Air Arabia Maroc, Royal Air Maroc and Royal Air Maroc Express. It was among sixteen airports making a first-time appearance in the awards. "This year, an unprecedented sixteen airports are first-time winners, challenging best-in-class airports in the delivery of top-quality customer service. This phenomenon reflects the increasingly competitive

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airport industry operating environment, where continuous service improvement is a key ingredient in business performance. Airports make the customer experience a high priority," ACI said in a statement. CMN won the best African airport catering for over 2 million passengers per year (8.6 million in 2016) while Nairobi Airport in Kenya was ranked as the most improved facility in the Africa region. The Airport Service Quality (ASQ) awards are a benchmark of prestige in the aviation industry, undertaken by the Airports Council International.

SIERRA LEONE

President Ernest Bai Koroma on 1 March 2018 made the symbolic turning of the sod for building Mamamah International Airport. The project also involves construction of a new city and an exclusive economic zone in the airport's neighbourhood. The new airport, named after its host community, will be constructed by the Chinese firms Henan Guoji Industries and China Railway International Group, with construction work planned to last for four years. The USD 318 million project funded by China Exim Bank is one of three major projects the Government is implementing which aim to transform the country to a Middle-Income state by 2035. The other two are the expansion of the country's seaport and the bridging of the Freetown - Lungi pathway, leading to the current airport in Lungi.

Mamamah Airport will be the second airport in the country after Lungi. But the new project has been the subject of controversy, with opposition both locally and internationally. Critics say it is an unnecessary economic burden on the West African country struggling to recover from the effects of war, the Ebola epidemic, and a deadly mudslide in 2017. The Government has insisted that a new airport is needed to resolve the problems provided by the current airport in Lungi, outside the capital city. Mamamah Airport will be located outside Freetown, but it is on the mainland, unlike Lungi Airport which is separated from the city by a river estuary that involves a tedious journey. Government officials say this hinders foreign direct investments. Despite opposition, particularly from the IMF and the World Bank, the Chinese government has always appeared determined to push on with the project. China's ambassador in Freetown, Wu Peng, said at the sod-turning ceremony that China would provide favourable interest rates through a special financial arrangement to cushion the effect of repayment on the country's economy.

LIBERIA

China Harbour Engineering Company Ltd (CHEC) was contracted by the Liberian government to build and expand the country's main international airport, Roberts International (ROB), located near the town of Harbel about 56 km outside the capital, Monrovia. It is a new airport terminal project funded by a USD 50 million loan from the Export-Import Bank of China. "We have experienced technicians, we provide high quality technology, and show the Liberian workers how to use these advance equipment, and we also bring our management experience to the working group to help them adopt to high standard," says David Chen, CHEC Liberia's branch manager. CHEC is a subsidiary of China Communication Construction Company Ltd (CCCC), listed on the 2016 Fortune 500 list and one of the 250 largest international building contractors. The firm is active in over 80 countries and has implemented hundreds of projects worth over USD 16 billion. For the ROB Terminal project, the Chinese firm has hired over 200 Liberian workers; among them are unskilled labourers who are acquiring technical skills along the way since the project started in November 2016. -- Liberia has a massive youth population, which makes up 70% of the entire population. Experts say the lack of skilled manpower often impedes the country's human resource capacity.

NIGERIA

Nigeria has about 22 airports scattered across various states of the Federation. However, of these airports, only 'Murtala Muhammed Airport' in Lagos and 'Nnamdi Azikiwe International Airport' in Abuja are considered to be economically viable given the volume of traffic attracted on a daily basis and the associated revenue. This, perhaps, explains why the Federal Government is targeting the two airports for concessioning. Labour has however kicked against the isolation of the

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vibrant airports for concessioning, while leaving out the non-viable ones for the Federal Airports Authority of Nigeria (FAAN) to grapple with how to source for funds to keep them afloat. Without doubt, over the years, the secret of the survival of Nigeria's other low-revenue airports has been because of revenue from the viable Lagos and Abuja airports. The Managing Director of the Federal Airports Authority of Nigeria (FAAN), Saleh Dunoma, noted that the evolving nature of airport management around the world demands a transformation of Nigerian airports into viable, sustainable business entities. "We must work towards the transformation of our airports who now mostly serve as public service providers and not commercial enterprises that are efficiently managed to generate more revenues and subsequently declare profits," said Dunoma.

ANGOLA

The Government will spend more than EUR 100 million in funding from Poland on the new Luanda International Airport, which will be built by Chinese companies. According to an order signed by the Angolan President, on 4 August 2018, there is a need to "finish and equip the protocol section of the VIP Terminal at the airport, acquire external infrastructures and equipment for the New Luanda International Airport, now under construction in the municipality of Icolo and Bengo, 30 km from the capital. This contract, according to the document signed by José Eduardo dos Santos, which authorizes the contracting partner, is valued at USD 93.3 million and is in addition to construction and equipping of the Centre for Aeronautical Training, also approved in the same order, in the amount of USD 19.7 million.

The public tender for building the new Mbanza Congo Airport has been called by Empresa Nacional de Exploração de Aeroportos e Navegação Aérea E.P. (ENANA). Construction of the new airport in an inhospitable area will allow for the development of the region with the construction of houses and businesses to provide services to residents. The future airport of Mbanza Congo will be located in Nkiende II, 35 km from Mbanza Congo, the capital of Angola's Zaire province. When it is in operation, it will be able to receive Boeing 737 and Ilyushin Il-76 aircraft and have a terminal with capacity for 600 passengers. The ENANA Chairman said that meetings with the National Civil Aviation Institute will be held to discuss the construction of the new airport. He also said: "**We will recover and modernize 20 airports in the country, with a view to ensuring greater flow of domestic and foreign passengers and encouraging private investment.**"

SOUTH AFRICA

Lanseria International Airport near Johannesburg, which is the fourth largest airport by passenger numbers in South Africa, reports that it hopes to double its passenger number to more than 4 million. This plan is scheduled to unfold over the course of the next six years, with the additional capacity largely being serviced by Kulula Airlines. In 2017, Lanseria handled a little over 1.9 million passengers. With competition stemming from 20 other local airports, Lanseria seems well-positioned to accomplish its goal. Lanseria's CEO, Rampa Rammopo, says the airport hopes to overtake King Shaka International Airport, located in Durban, as South Africa's third-largest airport. The first and second positions belong to Cape Town International Airport and Johannesburg's 'O.R. Tambo International Airport', respectively.

While Lanseria Airport plans to increase its numbers to 6 million passengers by the year 2027, it has a goal of expansion to 18 million passengers per year by 2050. In order to achieve this proposed plan for growth, the terminal building must be extended. In all, the general arrangement will need to be improved, which includes the transfer of the fuel farm and the airport's mechanical facilities to another location.

Rammopo stated: "There is vacant land where we can develop a hotel as well as an office building." He clarified that the airport had already completed its first desktop version of the expansion. He went on to state that the airport currently accommodates domestic flights, typically destined for Cape Town, Durban, and George. These routes have been in effect since 1974. There are three budget airlines that run flights

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out of Lanseria, one of which is Kulula Airlines. Commercial airlines have been flying out of Lanseria since 2006 with Kulula leading the charge that same year. Kulula flights provide a cost-effective option for travel to domestic locations such as Johannesburg, Cape Town, and Port Elizabeth. Rammopo stated: "Our vision is to be a regional airport catering mainly for the South African Development Community and the sub-Saharan region". Rammopo also reported that **Lanseria is looking at investing in a dedicated cargo facility**. -- Lanseria Airport is privately owned by the Public Investment Corporation, Nozala Investment Holdings, and the Pan African Infrastructure Development Fund.

South Africa's two main airports: Cape Town International (CTIA) and 'OR Tambo International' just outside Johannesburg are set for a USD 540 million upgrade that is part of an ambitious project to develop South Africa's aviation industry. The main upgrade for CTIA is a realigned runway. Preliminary work began as far back as 2008, but the bulk of the project didn't start until July 2017. Work on the runway is expected to conclude in 2021. CTIA will also get a new domestic arrivals terminal, construction on which was due to start in March 2018. Terminal 2 is also being redeveloped, with completion planned for June 2019. Finally, a new international departure lounge and boarding gates are set for completion in June 2019.

OR Tambo is being upgraded so it can accommodate larger aircraft. Remote apron stands will be built so Airbus A380s can use the airport. There will also be space for passengers awaiting bus transfers to the main terminals. In addition, Terminal A is set for a ZAR 448 million refurbishment and upgrade. The work should be completed by October 2020. Further money has been allocated to increase the airport's capacity.

MOZAMBIQUE

The Chinese government has donated USD 100 million to implement four development projects in Mozambique. The agreements were formalized in Maputo on 4 June 2018 during the VI Session of the Joint Commission between the two countries. These are agreements for the construction of Xai-Xai International Airport in the southern province of Gaza; construction of the Technical Institute of Gorongosa in the central province of Sofala; technical assistance to the Zimpeto National Stadium in the Maputo province in the southern region; and the project of sending agricultural specialists to China for training. Speaking at the closing of the event was Mozambique's Deputy Minister of Foreign Affairs & Co-operation, Maria Lucas, who expressed her desire to see China's areas of intervention in Mozambique expanded, through private investments in transport, logistics, manufacturing, agro-processing, commercial banking, tourism, and housing, among other areas where the country has great potential. China's visiting Deputy Minister of Commerce, Qian Keming, expressed his government's willingness to continue to offer development aid to Mozambique by allocating resources and donations to priority projects that promote the well-being of the people. "Today, China is one of Mozambique's largest trading partners. The value exceeds one billion U.S. dollars." The first financing agreement for the construction of Xai-Xai Airport was signed in 2017, with the approval of USD 60 million. The new agreement allows the execution of the works. The project aims to improve the condition of transport and facilitate the communication of people and goods, promoting the development of the local economy, especially tourism.

The airport is to be built at Chonguene, about 17 km from the provincial capital, Xai-Xai. The runway will be 1,600 m long, and the entire airport is budgeted at USD 50 million. If the airport in Gaza province is indeed built, it will almost certainly depend for its viability on charter flights bringing tourists to the Gaza beaches and wildlife parks.

Critics point out that Xai-Xai is only a three hour's drive from Maputo, and doubt that there is sufficient demand to make an international airport viable. Mozambique already has one international airport that is virtually unused. That is the airport in the northern city of Nacala, inaugurated in 2014 by former President, Armando Guebuza. Although it is the most modern airport in the country, the only airline flying there is Mozambique Airlines (LAM), with two flights a week from Maputo. Built by Brazil's Odebrecht Group with funding from Brazil's National Bank of Economic & Social Development (BNDES) and costing

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USD125 million, Nacala International Airport has the capacity to receive 500,000 passengers per year, but the actual number does not exceed 20,000. International flights never arrived at the airport. There are also two private flights of mining company Vale Moçambique, operated with Embraer aircraft. --
According to the Minister of Transport & Communications Carlos Mesquita, the Government is yet to analyze the impact of reducing the number of international airports in the country from six to three, which would be Maputo, Beira and Nacala, with the airports of Nampula, Pemba and Vilanculos losing this traffic, despite the latter two being located in major tourism areas.

ZIMBABWE

The Civil Aviation Authority of Zimbabwe (CAAZ) is embarking on a number of projects such as the development and expansion of Harare's 'Robert Mugabe International Airport' and Bulawayo's 'Joshua Mqabuko Nkomo International Airport', among others, in anticipation of growth in the aviation sector following the ushering in of the President's new 'dispensation policy'. CAAZ's General Manager, David Chawota, said on the state of Zimbabwe's civil aviation industry: "The Authority is embarking on the development and expansion of 'Robert Mugabe International Airport' and it is also going to embark on the rehabilitation and development of its airspace management systems, so that this is concurrent with the hub status that we are envisaging to establish at the end of the Harare Airport upgrade, which will be in the next - at most - four years. This does not preclude all other developments that are taking place. Already there is evidence that you see growth in passenger numbers and also in aircraft movement."

Since the commissioning of the newly upgraded Victoria Falls International Airport, that airport has experienced a 28% growth in passenger numbers. At 'Joshua Mqabuko Nkomo International Airport', there will be a new air traffic control tower. There is an allocation from the budget to kick-start the project. For the programme at Bulawayo, which is the first of the development programmes, the funding required is USD 15 million.

The Government is in the process of unbundling the CAAZ into two entities. One entity will be responsible for regulatory issues while the other will be in charge of commercial operations.

ZAMBIA

Zambia Airports Corporation Ltd (ZACL) has announced construction of a new international airport in the northwest of the country. The airport has not yet been officially named but is currently being referred to as **the Copperbelt International Airport**. It is located about 13 km west of Ndola city, off the Ndola - Kitwe dual carriageway. Mweembe Sikaulu, Communications & Brand Manager, said that the airport is expected to start operations in 2021. Avic International project manager, Wang Fr, says works on the construction of the Copperbelt International Airport are progressing well, with ground works completed by the end of April 2018. "Among the other facilities, the airport comprises the following: a one-million-passenger terminal, a 3,500-m runway and associated taxiways and aprons, a control tower and air traffic building, a rescue and fire station, carparks and access roads, a fuel farm, a cargo terminal, an airport hotel, a staff office building, communication navigation and surveillance equipment, an aircraft maintenance hangar, as well as power, water and sewernetworks," said Sikaulu. The airport will be able to accommodate B.747-800-sized aircraft. Although the airport will largely serve the mining and trade industries on the Copperbelt and North Western provinces and the Democratic Republic of Congo (DRC), the airport will also serve tourism areas in the northern part of Zambia.

TANZANIA

The on-going expansion of Mwanza Airport in northern Tanzania, also known as Lake Victoria International, will be completed in December 2018, the Minister for Works, Transport & Communications, Isack Kamwelwe, said on 17 July 2018. The expansion seeks to lengthen the runway by 500 m for a total of 3,900 metres upon completion. Apart from the runway, the project also seeks to improve the aircraft parking area and the weather forecast centre. The expansion will also involve the passenger terminal. The aim of the expansion is to enable the Boeing 787-8 Dreamliner to land at

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Mwanza Airport. The expansion of Mwanza Airport started a few years ago, with a TZS 105 billion funding from the Arab Bank for Economic Development in Africa (BADEA) and the OPEC Fund for International Development (OFID). The Chinese contractor, Beijing Construction Engineering Group (BCEG) is executing the project. -- The Tanzania Airports Authority (TAA) has been directed to start **expanding Kigoma Airport so it can also handle larger aircraft like the Boeing 787-8 Dreamliner**. Currently, the Kigoma Airport runway is only 45 m wide and the plan is to widen it to 60 m.

The African Development Bank (AfDB) is set to inject USD 1.5 billion in the next two years into various Tanzanian development projects, the Bank's President Akinwumi Adesina has announced. According to a statement issued by Ben Mwaipaja, spokesperson for Tanzania's Ministry of Finance & Planning, Adesina made the pledge at Dar es-Salaam's 'Julius Nyerere International Airport' on arrival for a working visit to the east African nation. The AfDB president said on-going projects financed by the Bank are worth USD 2 billion in the areas of infrastructure, energy, agriculture, water and sanitation. "We at AfDB are very proud of our relationship with the United Republic of Tanzania which dates back to 1971. The Bank has so far invested a total of USD 2.6 billion in the country in grants and aid," he said. He explained that the Bank has invested USD 1 billion in infrastructure development alone, the aim being to improve transport in the country and hence spur economic growth. He added that the AfDB also plans to help transform the Tanzania Electric Supply Company into an efficient and profitable firm capable of producing and distributing electricity at a reasonable price. Tanzania's Finance & Planning Minister Philip Mpango, who received Adesina at the airport, described the AfDB as Tanzania's true partner in development.

KENYA

The African Development Bank (AfDB) has approved a USD 160 million loan to carry out the expansion of Nairobi's 'Jomo Kenyatta International Airport'. The funds are expected to help towards the Government of Kenya's plans to make Nairobi an aviation hub. **As part of the expansion, a 4,900-m runway will be built in accordance with ICAO Category II standards**. The existing runway is currently operating under CAT-I conditions with a width of 45 m and a length of 4,100 m. Connecting taxiways, additional parking stands for aircraft, and an air rescue firefighting unit will also be constructed.

AfDB Infrastructure Cities & Urban Development Director Amadou Oumarou said: "The second runway will support more air traffic, facilitate increased tourism and business travel, and expedite a two-way cargo traffic." The expansion project is part of the JKIA 2010 Master Plan. Following its completion, the movement of air transport to and from JKIA is expected to be eased at peak hours.

Expensive flight diversions arising from incidences on the existing runway are also anticipated to be eliminated. In addition, the expansion will help improve regional integration and expand international trade through improved regional and international air connectivity, as well as facilitate exports and imports. It is also expected to enable direct intercontinental flights to North America and Australia. The expansion is estimated to increase tourism and business travel annually by 4.2% and annual two-way cargo traffic by 5.1% between 2026 and 2052.

ETHIOPIA

The first expansion phase of Addis Ababa's Bole International Airport, covering the East Wing, started operating by the end of June 2018, according to Ethiopian Airlines Group. The Group also revealed that it is over-performing in terms of building domestic airports. This was revealed when the Group presented its nine-month report before the House of Peoples Representatives (HPR) Transport Affairs Standing Committee. During the presentation, Tewdros Dawit, CEO of Ethiopian Airports Enterprise, stated that the whole expansion project will be completed by the end of 2018, and it is expected that it will enable the airport to accommodate up to 22 million passengers per year. "It will hugely address the congestion issue," Tewdros said. "When the project is completed, we believe it opens a big chapter and will enable the airport to make a big leap within the continental aviation industry."

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In relation to domestic airports, Tewdros indicated that **Ethiopia boast the largest number of airports in Africa next to Nigeria, which meet international standard**. Henok Tafesse, Deputy CEO of the Group, for his part added that domestic airports that have international-standard terminal facility, navigation system, and runway are being developed. He said that the airline is performing way beyond the plan set in this regard.

SEYCHELLES

State-owned Abu Dhabi Airports Company (ADAC) will invest in redeveloping the international airport at Mahé as the Indian Ocean country expands its aviation and tourism sectors. "Our aim is to help to deliver an updated passenger terminal operating to the highest international standards," Abu Dhabi Airports Chairman Ali Majed al-Mansoori said, without giving details. The expansion project will be undertaken in phases to meet the growing demand and anticipated future growth.

The Seychelles signed an agreement for the redevelopment with Abu Dhabi Airports and further talks will decide specifics of the project, said Joel Morgan, the Seychelles' Minister for Foreign Affairs & Transport. The U.K. company Llewelyn Davies was contracted in 2011 already by ADAC to develop a master plan for Seychelles International Airport, but they are no longer involved with the redevelopment. The master plan for the airport in Mahé was to "incorporate a number of innovative green features and passive energy strategies, which includes eco cells, green walls, sun shading, and dye-solar panels," according to the Llewelyn Davies website.

Abu Dhabi has a number of investments in the Seychelles. Etihad Airways owns a 40% stake in Air Seychelles, which was previously wholly owned by the Seychelles' government, while the Abu Dhabi Fund for Development and Abu Dhabi's Masdar have invested in renewable energy projects there. Abu Dhabi's Urban Planning Council has also been involved in a project to develop an economic strategy for the islands. The partnership with ADAC adds to already existing ties between the Seychelles' and U.A.E. governments. Abu Dhabi has also provided development grants to the Seychelles since the start of the economic reforms to help overcome the archipelago's economic difficulties, which has gone towards funding of several projects including housing and a renewable energy project. -- Abu Dhabi has provided almost AED 200 million in financial aid over the past ten years to help the Seychelles tackle economic problems.

MADAGASCAR

Ravinala Airports has started construction works for a new concession at Ivato International Airport and renovation at Fascene Airport. The U.K.-based design and engineering consultancy services firm Mott MacDonald is serving as the lenders' technical advisor on the scheme. The public-private partnership concession comprises a **new 17,500-m² international terminal at Ivato International Airport in the capital Antananarivo**. It will be capable of handling 1.5 million travellers per year. Additionally, the airport's existing terminal will be modernized to handle growing domestic traffic. To support the increased movement of aircraft, the runway will be strengthened and resurfaced.

Fascene Airport in Nosy Bé (NOS) will have its runway and existing terminal building revamped to support increasing passenger numbers.

During the scheme's financing stage, Mott MacDonald offered technical, environmental and social due diligence, which included creating a capital investment plan and taking up environmental assessments. The consultancy firm also delivered important contracts that helped form the structure of the transfer of risks and contingency measures. At present, Mott MacDonald is monitoring construction at the airports. Mott MacDonald Project Director Adria Canals-Macia said: "This concession is a major opportunity for the Malagasy government to foster economic growth in the country, particularly by supporting a growing tourism industry." -- **Construction works at Ivato Airport and Fascene Airport are scheduled to be finished in early 2020 and form part of a 28-year concession period.**

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Other Regions

RUSSIA

The planned new Terminal C at Moscow's Sheremetyevo International Airport (SVO), Russia's busiest gateway, will offer an annual capacity of some 15 million passengers.

Glavgosexpertiza, Russia's state authority for the project's supervision, has given the green light to the engineering design of the new Terminal C project. Designated for the processing of international travellers, the new terminal will have a total floor area of 114,800 m². It will replace the now demolished Terminal C, which was primarily used for international charter operations until it was closed down in April 2017. The aim of the approved project, which is an integral part of the airport's substantial long-term development programme, is to seamlessly integrate Terminal C with the recently-opened domestic Terminal B, by employing a network of external and underground communication links, thus upgrading the so-called northern complex's total capacity to 35 million passengers a year by 2019. The combined floor area of the two terminals will be 225,000 m². -- Just a few weeks ago, a new apron for business aviation aircraft was completed at Sheremetyevo, providing new parking and servicing space for up to 25 such aircraft.

INDIA

The first phase of Navi Mumbai Airport will now cost INR 135.6 billion (USD 1.97 billion), which includes expenses incurred on pre-development works, but is about 50% higher than the previous estimate made by the CIDCO planning authority. On 7 July 2018, the GVK Group which is constructing the airport announced it had tied up funding for the project with Yes Bank as lead lender. Credit rating agency CRISIL has accorded an A+ stable rating for the project's INR 103 billion bank loan facilities. According to the CRISIL report, Phase 1 of the project is expected to be completed at the cost of INR 135.6 billion and will have a capacity to handle 10 million passengers annually. A GVK spokesperson refused to comment on the cost escalation.

Navi Mumbai Airport is being developed as a public-private partnership between the GVK Group-led Mumbai International Airport Ltd (MIAL) and the City & Industrial Development Corporation. CIDCO, which is the planning authority for the airport had prepared the master plan for an airport to be developed in four phases at a projected cost of INR 160 billion. The cost estimate was prepared in FY 2013, and initial bids were called in 2014. As per CIDCO's estimate, Phase 1 and 2 of the airport would cost INR 95 billion. The first phase, which includes construction of a single runway and terminal to handle 10 million passengers would cost INR 55 billion. This cost excludes pre-development works including flattening of a hillock, diversion of rivers, shifting of transmission lines, and land reclamation at an estimated cost of INR 34 billion. The Phase 1 cost including pre-development works would have come to around INR 90 billion as per CIDCO's estimate.

"We are in a non-disclosure agreement with Yes Bank which does not allow us to share any of the finer details of the Phase 1 project financing for Navi Mumbai International Airport," GVK said in an e-mailed response. A CIDCO official said that the GVK Group, which is the project concessionaire, can design its own master plan and prepare its own estimate, and that does not require approval from CIDCO.

Green Airports

The Port of Seattle began the environmental review process of the Sustainable Airport Master Plan (SAMP) Near-Term Projects for Seattle-Tacoma International Airport (SEA), WA, on 30 July 2018 by asking for public comment on environmental 'scoping'. The deadline for comments is 28 September 2018. In a statement, the Port said: "In compliance with state and federal environmental laws, scoping provides the earliest possible opportunity for public and agency stakeholders to provide input about the range of environmental issues to be studied in this environmental review process." During scoping, the public is invited to provide input on what should be studied in the SAMP Environmental Review. The airport identified environmental categories such as environmental justice and

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environmental health, climate and greenhouse gases, light emissions, visual impacts and noise to study during the environmental review process.

The Hawaii Department of Transportation (HDOT) is set to install 4,260 solar modules at Daniel K Inouye International Airport (HNL), HI. The solar panels will be installed on the seventh floor of the Terminal 1 (T1) parking garage, formerly the Interisland Terminal, above a new carport. It will also add shaded parking for vehicles. They are expected to generate 2 MW-DC/1.6 MW-AC, which will be sufficient to power more than 328 homes based on a full day of sunshine.

The energy produced by the solar panels will be used at the airport facility and will help to slash the overall electricity bill by nearly half. According to HDOT, the contract with Johnson Controls is set to generate more than USD 600 million in guaranteed cost savings over the 20-year life of the contract at Hawaii's airports that started in 2014.

The project supports Ige's and the State of Hawaii's goal to be 100% renewable energy by 2045. Construction work will continue from 20 August 2018 through 16 November. During this period, some 344 parking stalls on the roof of Terminal 1 will not be available. However, the vehicle and pedestrian bridges from the Terminal 1 parking garage to the International parking garage will remain open for additional parking stalls. Overall, HDOT and Johnson Controls are completing more than 900 individual conservation measures, replacing nearly 98,000 light fixtures with high-efficiency light-emitting diode (LED) technology at Hawaii's airports. They are also installing more than 21,000 solar photovoltaic panels. The overall cost of the project is estimated to be USD 207 million, financed from guaranteed energy savings.

ACI Asia-Pacific has published a Green Airports Recognition 2018 report showcasing Asia-Pacific and Middle East airports' waste minimisation initiatives. The report highlights the airport members' efforts in waste minimisation which serve as an excellent reference for the rest of the industry. The participating airports represent 16% of the total passenger traffic in Asia-Pacific and the Middle East in 2017. The theme of 2018's recognition is waste minimisation, one of the top three management priorities identified in the 2017 Regional Environmental Survey.

The Green Airports Recognition was established by ACI Asia-Pacific, with the support of the Regional Environment Committee. The objective of the recognition is to promote environmental best practices to minimize aviation's impact on the environment and to recognise the region's airport members who have outstanding accomplishments in their environmental projects. The report is now available at <http://www.aci-asiapac.aero/services/main/30>.

Publisher's note: The articles in this special report, compiled for **ACI World**, are edited samples from the biweekly **Momberger Airport Information** newsletter, published since 1973. The newsletter is an advertising-free, global airport news service that consists of 8 modules and allows subscribers to customize their own newsletter package. The items in this **ACI World** report represent only a small sample of the main module (Airport Development) of **Momberger Airport Information**. Additional modules that subscribers can select include: Airport Operations (OPS), Ground Support Equipment (GSE), Air Traffic Services (ATC), Consultant & Contractor (CON), Airport Information Technology (AIT) and Maintenance Base (MRO). An extensive Calendar of Events (CAL) is part of every subscription. For more information and to order an annual subscription, please visit www.mombergerairport.info

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