

E-LETTER FOR PARTNERS OF ERA COMPANY

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ERANEWS

era



ERA presented its latest novelty
ERIS at NATO Days airshow



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ERA celebrated its
25th birthday



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ERA started subsidizing
Czech basketball



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ERA IS COMPLETING THE EXTENSION OF ITS SURFACE GUIDANCE SYSTEM AT BARAJAS AIRPORT IN MADRID

ERA HAS RECENTLY SIGNED A CONTRACT FOR SPANISH ANS ENAIRE THROUGH THE COMPANY SEAIRTECH AND BEGUN COMPLETING THE EXTENSION OF ITS SURFACE GUIDANCE SYSTEM AT THE ADOLFO SUÁREZ MADRID-BARAJAS INTERNATIONAL AIRPORT IN SPAIN. THE NET OF 46 UPGRADED SURVEILLANCE GROUND-BASED STATIONS IS SUPPOSED TO GO OPERATIONAL NEXT YEAR.



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In 2006, the Spanish civil aviation authority AENA awarded the safety programme for the capital's airport to ERA company after an international tender, which then installed the network of multilateration sensors and SQUID with ERA vehicle tracking units. Since this time AENA has placed its trust in ERA several more times and ERA MLAT systems have been in successful operations at three other Spanish airports: Asturias Airport, Palma de Mallorca Airport and Tenerife North Airport on the Canary Islands.

ENAIRE currently requires improved airport surface surveillance in order to maintain a high level of safety for airport operations and reduce the risk of runway incursions. It must



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ensure a single-view of aircraft and vehicle movements over the complete surface coverage as backup in case of Tower management inability.

In order to meet the demands, ERA will upgrade HW and SW of its mature multi-sensor (composite MLAT and ADS-B) system, compliant with EUROCONTROL and ICAO requirements, as well as relocate several ground stations and add two central processing stations. The multilateration system will use a brand new measuring unit for its central time synchronization. The system is now undergoing Factory Acceptance Tests and will be ready for SAT in spring 2020.

The solution fused the highly accurate positional data from ERA's ground-based stations and vehicle tracking units (131 pieces in operation at present with more coming) into one consistent traffic presentation.

ERA will also supply 113 new SQUID units serving as squitter beacons, all together to Madrid Barajas and other airports in Malaga, Alicante, Barcelona and Asturias.

ON MADRID BARAJAS AIRPORT

Adolfo Suárez Madrid-Barajas Airport is the second largest airport in Europe, in terms of physical size, behind Charles de Gaulle Airport in Paris. In 2018, 57.9 million passengers used Madrid-Barajas, making it the country's largest and busiest airport and Europe's sixth busiest. The airport has five passenger terminals, serves as the gateway to the Iberian Peninsula and is a particularly key link between Europe and Latin America. The airport's original name derives from the adjacent district of Barajas and was renamed in 2014 after former Spanish Prime Minister Adolfo Suárez in recognition of Suárez's role in the restoration of democracy after the Franco era.

01 Madrid Barajas International Airport in Spain

02 The largest MLAT system by ERA

ERA PRESENTED ITS LATEST NOVELTY ERIS AT NATO DAYS AIRSHOW

ERA HAS ATTENDED THE NATO DAYS & CZECH AIR FORCE DAYS, HELD AT LEOS JANACEK AIRPORT IN OSTRAVA ON SEPTEMBER 20 – 21, 2019. ERA ALONG WITH ITS PARENT COMPANY OMNIPOL AND ITS SUBSIDIARY MESIT HAVE TRADITIONALLY BECOME THE MAIN PARTNER FOR THIS LARGEST SECURITY SHOW IN EUROPE.

ERA exhibited its tried and tested technologies in the rank of passive radiolocation, namely Passive ESM Tracker VERA-NG and its simulator, recently awarded the Golden IDET Prize. The main highlight of this year at the joint ERA, OMNIPOL and MESIT ground box was ERIS, the new ATM and ATC system for medium-sized and regional airports. The ERA experts presented this brand new Common Ground Alternative Surveillance and Control System as part of the outdoor exhibition in VIP zone. There was also the live demo of all systems on screens.

ERIS represents a product family of Air Traffic Management systems designed for Air Traffic Control and flight planning of civil and military operations. ERIS is based on a modern sophisticated and modular design that has been developed for optimal site-specific tailoring and easy integration into various ATC environments. ERIS in conjunction with ERA's multi-sensor surveillance system represents the complex solution for ATC controllers.

Among VIP guests visiting ERA ground box was Minister of Industry and Trade. Other distinguished guests of the event include representatives of NATO and the European Union, representatives of regions, municipalities, ambassadors, military attachés – from



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the Czech Republic and from foreign countries, especially from Europe and the USA. The main programme consists of presentation of heavy military hardware, police and rescue equipment, dynamic displays of Special Forces' training, flying displays and presentations of armaments, equipment and gear of individual units.

NATO Days is the only event that brings together the technology used by soldiers, fire fighters, policemen, customs officers, the prison service, the municipal police and others in one location and its key challenge is to present a wide spectrum of resources along with the capabilities of the Czech Republic and its allies in the field of security provision to general public. NATO Days & Czech Air Force Days are also the most visited two-day family event in the Czech Republic, this year attendance was 220 thousand of visitors.

01 220 thousand of visitors joined the event

02 Live demos at ERA's stand attracted VIP guests

ERA CONFIRMED ITS POSITION AT CONFERENCES EURASIA

Two sales managers from ERA Company Zbyněk Vašek and Petr Valášek were invited to the EURASIA conference held in spring in Tajikistan and recently in Kazakhstan. They presented the newest ATM system by ERA for airports called ERIS-A to the participants. One lecture was specifically focused on ERA WAM system in Osh, Kyrgyzstan.

ERA has traditionally participated as a permanent observer at this gathering of the coordinating council and group of the directors of the national Air Navigation Services Providers from former Soviet Republics: Armenia, Russia, Belarus, Kazakhstan, Kyrgyzstan, Azerbaijan and Tajikistan.



ERA CELEBRATED ITS 25TH BIRTHDAY

1994 – SUCH AN AMAZING YEAR! SONY COMPANY INTRODUCED ITS FIRST GAME CONSOLE PLAYSTATION. NASA LAUNCHED THE SPACESHIP COLUMBIA. ENGLISH CHANNEL/LA MANCHE TUNNEL BETWEEN FRANCE AND GREAT BRITAIN WAS OPENED. AND IN CENTRAL EUROPEAN TOWN PARDUBICE ERA COMPANY BEGAN ITS JOURNEY OF THE FUTURE LEADER OF MULTILATERATION TECHNOLOGY MARKET.



ERA was founded as a joint stock company on November 4th, 1994 and thus celebrated 25th anniversary of founding of the company last autumn. Within the quarter of the century of its existence ERA has grown from „garage company” to one of the most successful developer of air traffic surveillance systems worldwide. It used to



have three founders and seven employees, now there are 400 people working in eight towns in the Czech Republic and Slovakia.

ERA started with one surface multilateration system at Prague airport in Czech capital and small WAM around the industrial city of Ostrava. Nowadays there are ca 130 installations of ERA systems in 65 countries on all continents.

On the occasion of the 25th anniversary, the management decided to organize two events: for business partners and members of the wider ERA community and for all current and some retired ERA employees.

- 01 Birthday party in Saint James the Minor monastery in Prague
- 02 Celebration called “OpERA Ball” for employees in ERA’s hometown

THE WORLD LARGEST AIRPORT DAXING WENT OPERATIONAL. ERA SYSTEMS ARE PART OF THE USED TECHNOLOGIES ENSURING SAFETY

ERA HAS INSTALLED ITS NEO MULTI-SENSOR SURVEILLANCE SYSTEM AT THE RECORD LARGEST AIRPORT IN THE WORLD IN THE BEIJING SOUTHERN QUARTER OF DAXING. THE AIRPORT HAS GOT SIX RUNWAYS AND A SUPPOSED CAPACITY OF 130 MILLION PASSENGERS PER YEAR. IT WAS OFFICIALLY INAUGURATED ON SEPTEMBER 30, 2019 AS PART OF THE CELEBRATIONS FOR THE 70TH ANNIVERSARY OF THE FOUNDING OF THE PEOPLE’S REPUBLIC OF CHINA.

ERA has been selected for Daxing project by Chinese CAAC as a well-established partner with an excellent reputation thanks to previous ERA system, which prepared the Chinese capital Beijing for the 2008 Olympics a decade ago. The brand new airport Daxing was declared the Chinese government’s infrastructure priority and ERA’s project for Daxing airport is listed under Czech-China Major Cooperation Project List called one Belt one Road. One Belt one Road is expected to be one of the world



biggest economy zone. Daxing airport will be the starting point for one Belt one Road from Asia to Europe which will serve all the countries in the world.

Chinese authorities repeatedly put their trust in ERA technologies to ensure safe operations in rapidly growing airports. ERA’s systems have been in operation at four other Chinese airports: old Beijing airport, Shanghai, Changsha and Zhengzhou. The CAAC China has even issued the Permit Certificate which makes the company the only manufacturer with permission to deliver multilateration surveillance systems and vehicle tracking systems to Chinese ANSPs.

ERA HAS OBTAINED COMPANY OF THE DECADE AWARD

ERA has been awarded the prize Company of the Decade by the Czech Defence Industry and Security Review magazine for its performance in the trade of radiolocation technologies. The achievement was recognized by the journal’s editorial board, when they presented the company with this prestigious award within its annual ceremony held on January 14th, 2020. The award recognizes ERA’s success as the founder of multilateration systems’ market and specifically for the development of the unique PET system VERA-NG.



ERA HAS HAD ITS OWN AWARD IN THE JUBILEE 25TH YEAR OF THE CZECH PRESS PHOTO



Last autumn, ERA and the prestigious Czech Press Photo competition celebrated a quarter of a century since their foundation. On this occasion, ERA, in cooperation with the Association of Professional Photographers, presented a new award that has their name. The first APF and ERA Prize was awarded to iDNES photographer Petr Topič for his set of pictures called Wallachian devils and demons.

An international jury selected the 25th Czech Press Photo winners in November 2019. Nine experts evaluated nearly four thousand submitted photographs by 270 authors from the Czech and Slovak Republics. There were eight photo categories and three video categories. Recently, the Czech Press Photo competition began to work closely with the Association of Professional Photographers by awarding the APF and ERA Award – Project 101.

CITYTOWER – JOINT PROJECT OF ERA AND THE CZECH TECHNICAL UNIVERSITY

In July, ERA completed the next phase of the joint project with the Czech Technical University in Prague. It aims to locate the ADS-B receiver on the roof of the highest building in Prague – CityTower. Within the framework of the established cooperation between ERA and the Institute of Air Transport, ERA experts successfully installed two AL4 antennas and one ADS-B receiver, which were lent by ERA to the Faculty of Transport of the University, in just two days.

The University received a complete coverage of Prague landings and departures and can monitor air traffic from the Baltic Sea to almost the Adriatic, from Frankfurt to Liptovský Mikuláš. It forms

an area of coverage of about 800 x 900 km per one receiver, which is really respectable. Previously the best reception station of the school system – Strahov gives about 1,100 messages per second. The new location, CityTower, now gives 2,600 messages per second – two-channels with two antennas.

In this project, students of bachelor’s, master’s and doctoral programs in the Prague Technical University can now use data from the receiver to create various analyses of air traffic, which is a great preparation for their working life. This creates an area of cooperation for ERA from which it can recruit new, partially qualified staff.



ERA COMMEMORATED CZECHOSLOVAK AIRMEN IN THE RAF

The Winged Lion Memorial commemorating the heroism of our airmen in Great Britain during World War II was unveiled at Klarov in Prague in 2014 by Sir Nicholas Soames, grandson of Winston Churchill. Five years later, there was a memorial of laying wreaths in their memory on the occasion of the completion of the monument. ERA and OMNIPOL, as prominent partners in the construction of the Memorial, were also present.

The event was held on 14 August to mark the anniversary of the return of Czechoslovak airmen from the United Kingdom back to Prague at Ruzyne in 1945. In total, 2,508 Czechs and Slovaks served in the Royal Air Force during World War II. The Winged Lion Memorial was designed and built by the British community in Prague as a tribute to the heroism of the airmen in a seemingly hopeless era when only Great Britain was facing Hitler.



ERA AT THE AUTISM SEMINAR WITH GOLF LEGEND ERNIE ELS



On 14 August 2019, the AutTalk Foundation organized a seminar in the Mandarin Oriental Hotel in Prague on the issue of autism with the participation of Ernie Els, a world golf icon. ERA took part in the event as one of the supporters of the seminar on the issue of assistance and information sharing in the care of autistic children.

Ernie Els, as the father of an autistic child, has long been active in a number of projects that aim to help autistic children and integrate them fully into the society. He founded a school in Florida for 300 children with an autism spectrum disorder. At the seminar he spoke emotionally about his relationship with his son Ben and about projects realized for autistic children in the USA where the South African golfer lives now.

At the end of the seminar, Ernie Els handed over a cheque for 250,000 Czech crowns to Kateřina Sokolová, Chairwoman of the AutTalk Foundation, supporting families of autistic children, which will be used to develop activities and projects in the Czech Republic.

ERA ENTERED CZECH BASKETBALL

IN A SPORTS PARTNERSHIP, ERA HAS NOW FOCUSED ON BASKETBALL AS IT STARTED COOPERATION AS A TITULAR PARTNER WITH THE BEST TEAM IN THE CZECH LEAGUE, ERA BASKETBALL NYMBURK, AND SUPPORTS ERA GOLDEN TALENTS OF BK JIP CLUB PARDUBICE.

As a result ERA will hit three levels of basketball: juniors, the Czech National League and the Basketball Champions League. The Nymburk basketball club is the most successful national league club, collecting 15 championship titles in a row. This season (2019/2020) the club will attend the Czech Kooperativa NBL as well as the Basketball Champions League at the European level. There were six players from the Nymburk

club in the national team of the Czech Republic participating in the 2019 World Championship in China.

Basketball also has a solid background at the company headquarters in Pardubice. BK JIP organises active training of talented children and young basketball players. ERA is the new titular partner of the academy for the best juniors of the East Bohemian region called ERA Golden Talents.



LIFE OF ERA COMMUNITY IN PHOTOS



The fifth expedition of scuba diving team to discover shipwrecks and lost submarines, this time on Italian seashore in Calabria.



ERA tested the new masts – the mobile components for military systems.



ERA subsidizes contests PC expert, S-Robot and Electronics in a different perspective to motivate pupils to study electrical disciplines.



ERA managing director Viktor Sotona presented the company at the conference event of Czech VIP producers called Trendy Leaders.



ERA participated in the meeting of commanders of armed forces from 30 countries Future Forces in Prague.



ERA sponsored local „Olympics“ called SportPark Pardubice for children during the last summer vacation.



Battle of ERA volley fans – Beach volleyball tournament ERA Cup Closed welcomed several teams to sandy playground. Mix couples of employees played in system “everyone against all others”.

ERA IN NEWS



ABOUT ERA:

ERA is a leading company in multilateration, multistatic surveillance, and reconnaissance technology. We develop, manufacture and implement mission-critical systems for military and civil purposes. Over last 2 decades, ERA has reached number of more than 130 installations, deployed in 65 countries on 5 continents with 24/7 operations fulfilling demanding customer requirements.

ERA has developed unique passive surveillance system VERA-NG tailored for air, maritime and land target surveillance and reconnaissance for defence and electronic warfare purposes. In parallel, ERA made air traffic control history when deploying the first multilateration system and introducing gate-to-gate surveillance.

