iBross
PROJECT DEVELOPMENT

Thank you. I am glad that we enjoy our cooperation.
We really on you for our part of the business

Farhan Guliyev, AZANS, Director General

Thanks for your email and your great support during your stay in Morocco,
please note that the plane of the Emir of Qatar has landed today successfully,

I kindly thank you for your help and patience.

Regards, Bahae Rray, Maghrebnet

Good one. I know you are doing everything to make sure we have a very nice experience
with the system. Your customer service and prompt response is greatly appreciated.

Thank you very much for good job done.

Regards, John Kwofie, Kumasi, Ghana Civil Aviation Authority

ATC/ATM

Airport and ATCC upgrade
Civil-Military coordination
Airspace management
Flight progress strips
TWR simulators
ATC consoles
Mobile ATC towers
Modular ATC towers
Drone radar systems

What makes iBross different, is **project driven philosophy**.
Each project and each system are customized to end-user requirements,
(Tower equipment, console design and configuration, MMI and functionality...)

Airport upgrade for special-purpose
or turn-key upgrade of airport ATC centres (TWR and APP).

- ATC console upgrade
- Integration of existing and new CNS/ATM equipment
- Integration of local surveillance data
- Flight progress strips
- AMAN/DMAN support
- Recording and reply
- AWOS

ATCC upgrade for special-purpose
or turn-key upgrade of ACC centre.

- ATC console upgrade
- Integration of existing and new CNS/ATM equipment
- Integration of FIR surveillance data
- Flight plan and NOTAM processing with AFTN interface
- Safety NET
- Civil - military coordination
- Recording and reply

Civil-Military coordination at required level 1-3:

- Partial coordination for GAT flight plans message exchange
- Partial coordination with mutual data exchange
- Full integration of both OAT - GAT
- Tactical Military Planning
- Airspace management

Airspace management on FIR or national - multi FIR level.

Main features:

- Extended implementation of FUA concept
- Extended implementation Airspace Management Level 1-3
- Airspace planning and monitoring of OAT planning
- ASM conflicts, OAT and ASM conflicts
- Aeronautical Information Service interfacing
- Flight permission evaluation

Flight progress strips typically for TWR ATC control
as replacement of paper strips with full capability
to use electronic strip as paper strip.

Other features:

- Configuration of strip format and life cycles
- AFTN terminal
- ASM and FUA data
- OAT data with military air traffic
- Build-in VCS system

TWR simulators for complete visual, radar and procedural training from Ab-initio to Progressive level, designed by ATC trainee staff.

Main features:

- Deeply customizable to respond rapid changing conditions
- Rendering machine
- Powerful controls
- Weather and surface radar display
- Build-in VCS system

ATC consoles as 24/7 highly ergonomic technological furniture with individual design and modular configuration for each project from single modular workstations and technological furniture up to custom designed controller working positions.

Ultimate materials: aluminium and steel durable construction, artificial stone desktop (Corian/HiMacs), wooden parts.

Number of other options: build in racks, shelves, strip bays, slants and superstructures for integration of CNS/ATM equipment, office fittings, optional adjustable desktop elevation, etc.

Mobile ATC towers can be individually designed for each project or customized using wide range of proven solutions, with respect to:

- Mission, climatic zone and local standards
- Functional and operational requirements (cabin elevation, number and type of working positions),
- Basement (standalone construction, trailer platform, truck),
- Air transportability (C130)
- ATM/CNS systems integration

Modular ATC towers and facilities are individually designed for each project using optional technologies:

- Transportable kits made from optional number of 20ft rugged shelters
- Custom-designed towers with user-defined design and dimensions made steel skeleton and insulated panels
- Prefabricated TWR cabins
- Other facilities, such terminals for as small-sized airports/heliports, and various constructions (shelters, antenna masts, platforms...)

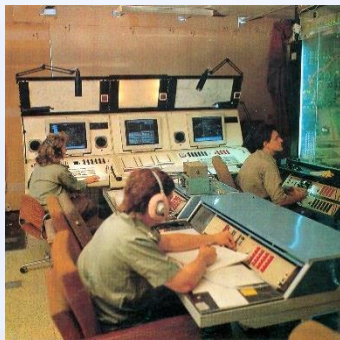**Drone / Bird radar** with extended detection features:

- Audio recognition system
- Image recognition system
- Identification system of own drones

and additional elimination features

- Radio signal jamming
- Ultrasonic jamming
- Optical jamming
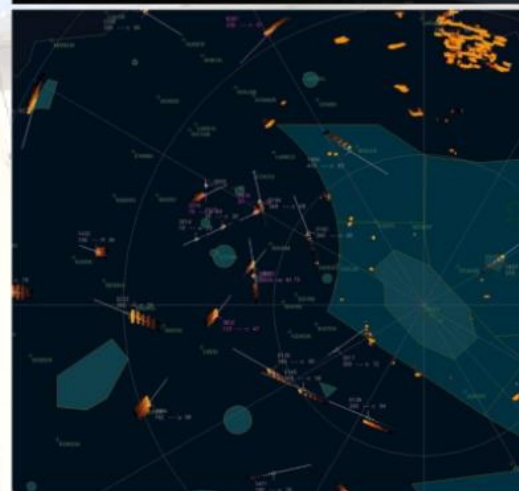- Mechanical destroying (Shoot down or Kamikaze drone)

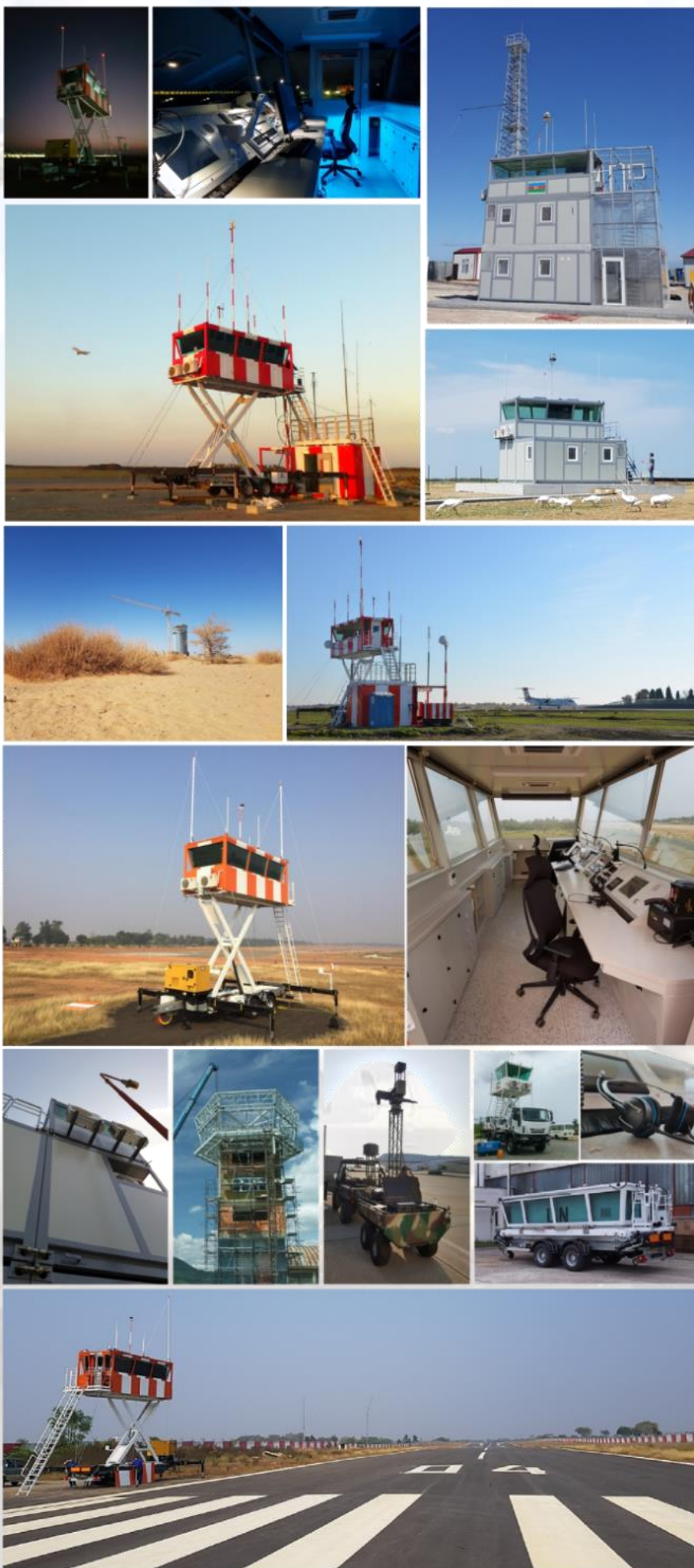## iBross as successor of ALES s.r.o. Košice found in 1991 by Czechoslovak Air Force Radar and IT professionals.

Some of the development milestones:

1990 - PC based Radar Data Display (PC i-386)
1991 - Electronics progress strips (PC i-286)
1991 - ATC console
1992 - Military ACC system (Prague)
1993 - Multiradar processor
1993 - ACC system (Bratislava)
1994 - Civil-Military integration
1994 - Radar Data extractor
1994 - Air Force Tactical Planning system
1995 - ATC simulator
1996 - Civil-Military integration
1996 - ACC system, ICAO/GOST compliable (Kiev)
1996 - ASM/FUA implementation
1996 - IP based radar network
1998 - PSR/SSR radar upgrade
2011 - Mobile ATC tower
2016 - Remote ATC tower subcontractor (Budapest)

Partners:

Turnkey solutions are provided in cooperation with leading European OEM:

ROHDE&SCHWARZ
JOTRON
LOGIPIX
ELDIS
MicroStep - MIS
ALES
msm
BECKER AVIONICS
we bring you home
BUSCH
CHemica
spol. s r.o.
sim
SPOT HUNGARY LTD
ARTISYS

Airport / ATCC upgrade

EU: Czechia, Hungary, Slovakia
CIS countries: Azerbaijan, Ukraine
Middle East: UAE, Yemen
Africa: Ghana, Kenya
Asia: Thailand
Subcontractor: Jotron AS

Civil-Military coordination

EU: Czechia, Hungary, Slovakia
CIS countries: Ukraine

Airspace management

EU: Czechia, Hungary, Slovakia
CIS countries: Ukraine

Flight progress strips

EU: Czechia, Hungary, Slovakia
CIS countries: Azerbaijan, Ukraine
Middle East: UAE, Yemen
Africa: Ghana, Kenya
Subcontractor: Jotron AS

TWR simulators

Romania, USA

ATC consoles

EU: Czechia, Hungary, Poland, Portugal, Slovakia
CIS countries: Armenia, Azerbaijan, Ukraine
Middle East: Iraq, Jordan, UAE, Yemen
Africa: Ghana, Kenya, Nigeria, Morocco,
Customer: Jotron AS, Rohde-Schwarz

Mobile/Modular towers

EU: Poland (KS Design), Slovakia (KS Design)
CIS countries: Azerbaijan, Ukraine
Africa: UN (KS Design)
Asia: India
Customer r: Jotron AS, Rohde-Schwarz