

# **CURRENT OPPORTUNITIES IN AIR NAVIGATION SERVICES**



# Uzaeronavigation

## Uzbekistan





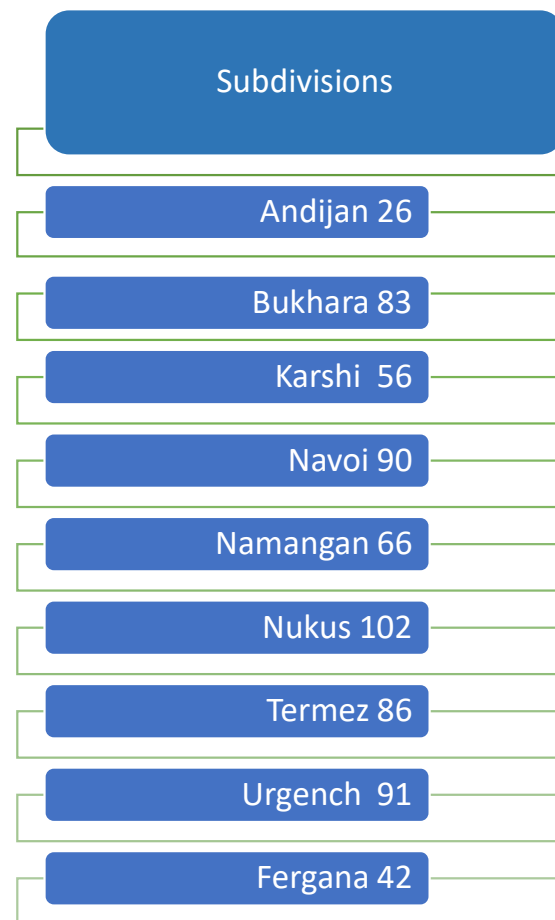
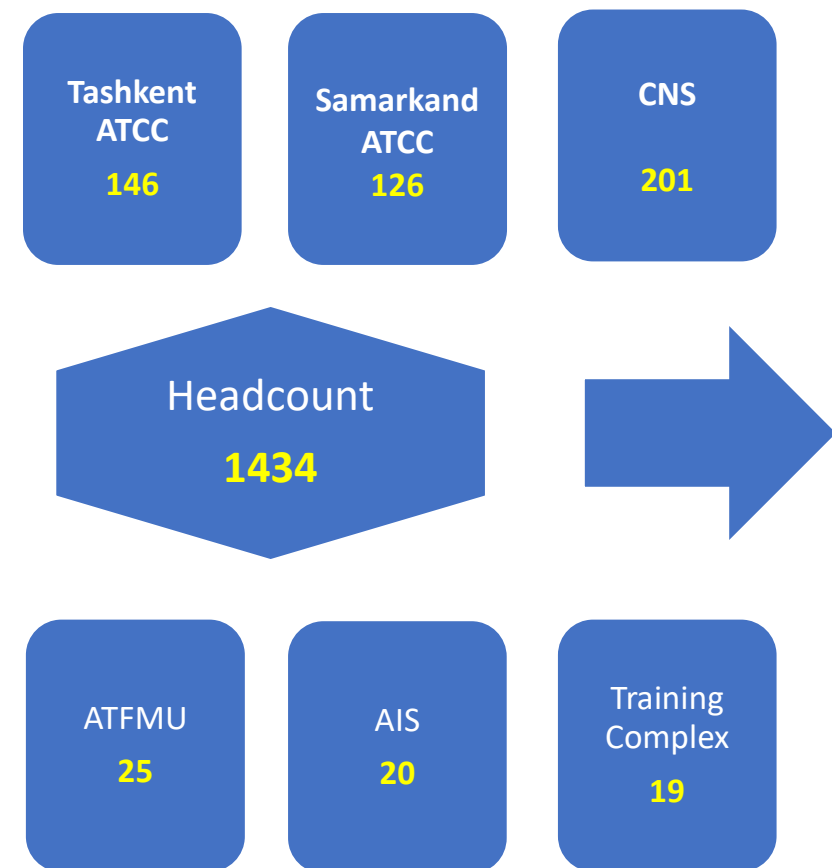
# **”Uzaeronavigation” Center**

**State Unitary Enterprise**



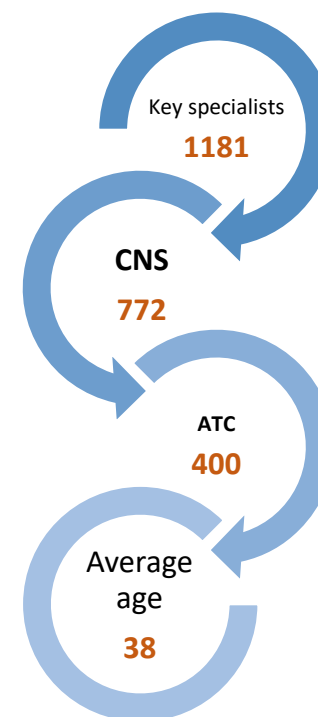
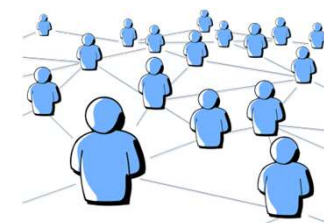


## STAFF



*Women – 280*

*Young professionals under 30 years - 136*



## SERVICES



**AIR NAVIGATION SERVICE**

**98,11%**



**COMMUNICATIONS (TELEPHONY, AFTN, COMMUNICATION EQUIPMENT MAINTENANCE)**

**1,71%**



**ATS MESSAGES PROCESSING**

**0,13%**



**AIR NAVIGATION INFORMATION PROVISION**

**0,01%**



**PERMISSIONS FOR UAV FLIGHTS**

**0,04%**

# Interaction with international organizations



## **ICAO International Civil Aviation Organization**

Participation in the working groups  
airnavigation support (ANSISG) and air traffic services route  
development (RDGE)



## **EUROCONTROL European Organization for the Safety of Air Navigation**

Interaction on air navigation charges



## **CANSO Civil air navigation service organization**

Full member of the organization from 2023  
Interaction on issues of organizing air navigation services

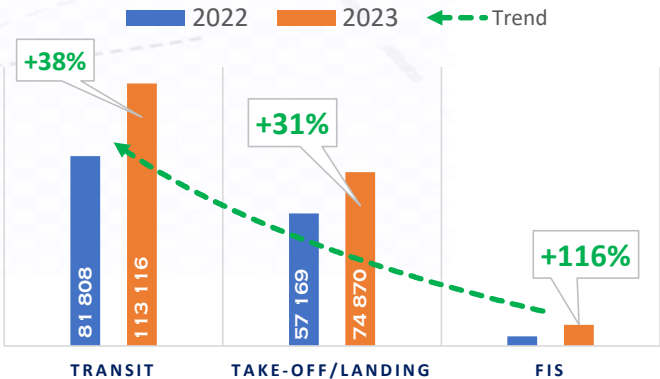
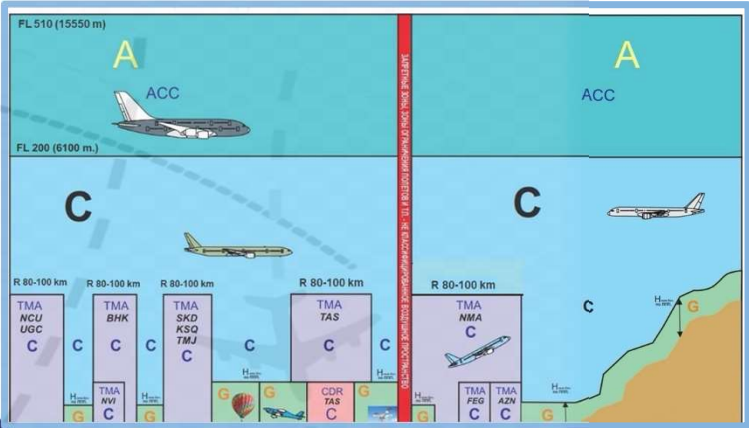


## **SOSEA The Regional Air Navigation Safety Coordination Platform for European and Asian ANSPs**

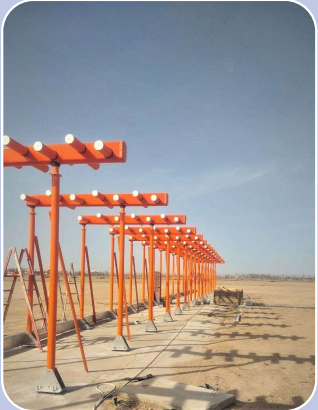
Member of the organization of air navigation services in the  
Asian and the European Region



Controlled Airspace – 480 000 sq.km  
Total length of air routes– 45 780 km  
Area navigation routes– 33 (40%), becomes fr  
Local air routes – 75  
Air corridors with neighboring countries – 65  
Delegated airspace  
Republic of Uzbekistan – 30000 sq/km  
Neighboring countries – 24000 sq/km



## Achievements for 2023



### ILS systems Installation

Termez  
Fergana  
Tashkent (2)



### Opening of a new air traffic control tower

Nukus

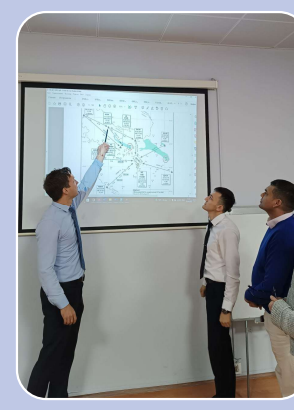


### Start of construction of the air traffic control tower at Termez International Airport.

Completion  
April 2024



### Civil Air Navigation Services Organisation Full member



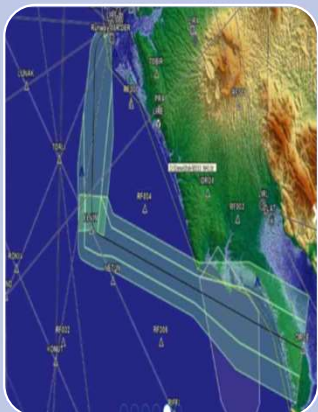
### Opening of own educational training complex



### SOSEA The Regional Air Navigation Safety Coordination Platform for European and Asian ANSPs Member



## MODERNIZATION PROJECTS UNTIL 2027



### Software

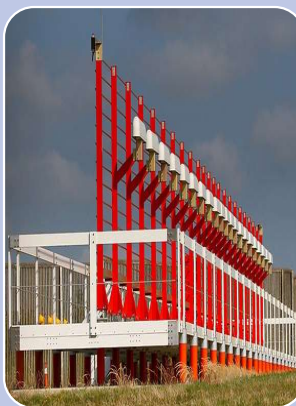
Automation of flight procedure development and design processes, conversion into electronic aeronautical charts, aerodrome cartography and ATS route construction

3 projects



### 3D TOWER ATC simulator

1 project



### ILS landing system with DME

Planned for the Tashkent, Fergana, Namangan, Urgench, Bukhara, Nukus, Andijan, Navoi, Karshi airfields

10 projects



### Automated air traffic control system

Planned for the Tashkent, Fergana, Namangan, Urgench, Nukus, Andijan, Navoi, Karshi airfields

8 projects



### Automatic ATC workstations

Planned for Zaamin, Zarafshan, Shakhrisabz, Muynak, Kokand airfields

5 projects



### VCX+ ATC Voice System and Objective Monitoring System

Planned for Tashkent, Fergana, Namangan, Urgench, Bukhara, Nukus, Andijan, Navoi, Karshi, Termez, Samaraqand, Zaamin, Zarafshan, Shakhrisabz, Muynak, Kokand airfields

17 projects

## MODERNIZATION PROJECTS



### VHF and HF radio stations

Planned for the Tashkent, Fergana, Namangan, Urgench, Bukhara, Nukus, Andijan, Navoi, Karshi, Termez, Samarkand, Zaamin, Zarafshan, Shakhrisabz, Muynak, Kokand airfields

**17 projects**



### VOR/DME navigation stations

Planned for the Tashkent, Fergana, Namangan, Urgench, Bukhara, Nukus, Andijan, Navoi, Karshi, Termez, Samarkand, Zaamin, Zarafshan, Shakhrisabz, Muynak, Kokand airfields

**15 projects**



### ADS-B/MLAT and A-SMGCS

It is planned to install ADS-B stations in all airports

**1 project**



### Secondary radars

Planned for the Tashkent, Fergana, Namangan, Bukhara, Nukus, Andijan, Navoi, Termez airfields

**8 projects**



### Mobile control Tower

**1 project**

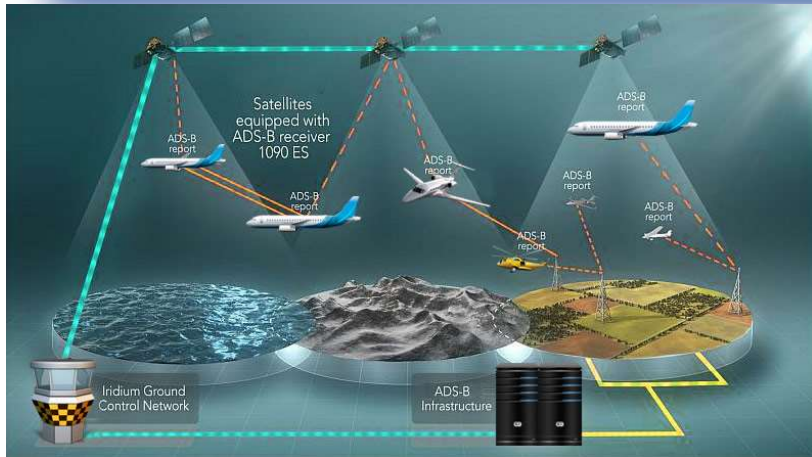


### Software for Digitalization and process automation

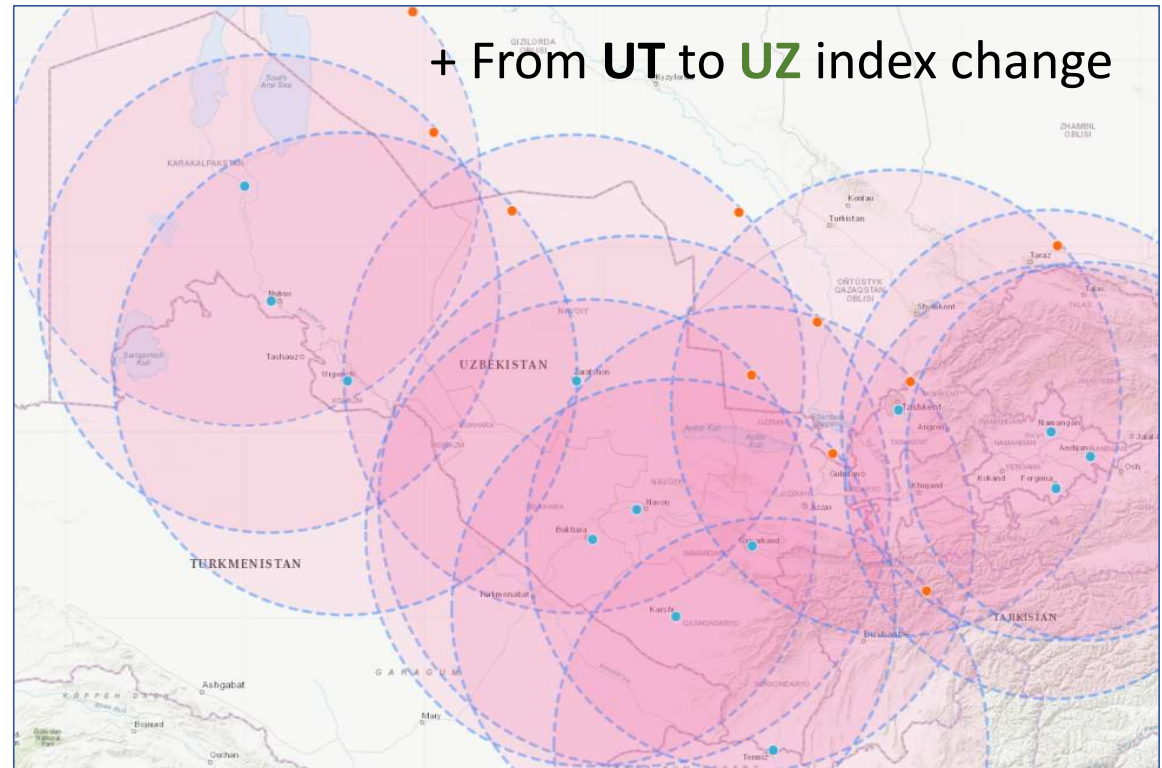
**20 projects**



# ADS-B INSTALLATION FORECAST



IT IS PLANNED TO INSTALL ADS-B STATIONS IN ALL AIRPORTS OF UZBEKISTAN



1. Muynak
2. Nukus
3. Urgench
4. Bukhara
5. Zarafshan
6. Navoi
7. Samarkand
8. Karshi
9. Termez
10. Tashkent
11. Fergana 2 stations
12. Namangan 2 stations
13. Andijan 2 stations



## OPENING OF AN AIRCOMPANY

**In 2024 It is proposed to purchase an aircraft and begin flight inspection practice using our own aircraft.**

- **For periodic flight checks and adjustments of radio navigation and landing aids;**
- **For validation of existing and developing flight procedures, approaches and departures (including using area navigation)**



## RESUMPTION OF FLIGHTS at the local airports Kokand, Saryasiya, Shakhrisabz, Zaamin



It is planned to:

- construct new control tower buildings;
- purchase and installation of ILS / DME, VCS, ADS-B, ATC workstations





**Thank you  
for your attention!**