



**Toward Connected Skies**  
Scoping the Role of CAREC in Enhancing  
Regional Cooperation in Aviation  
6-7 April 2017 • Singapore

**Определение роли ЦАРЭС**  
в усилении регионального сотрудничества  
в области авиации  
6-7 апреля 2017 г. • Сингапур

# **Toward Connected Skies: Scoping the Role of CAREC in Enhancing Regional Cooperation in Aviation**

**KYRGYZ REPUBLIC**



# Kyrgyz Republic

## Operational challenges:

- 1. Building sustainable CAA capacity to fulfill certification and surveillance functions**
- 2. Increasing of financing of CAA**
- 3. Developing of civil aviation regulations according to SARPS**



**Toward Connected Skies**  
Scoping the Role of CAREC in Enhancing  
Regional Cooperation in Aviation  
6-7 April 2017 • Singapore

**Определение роли ЦАРЭС**  
в усилении регионального сотрудничества  
в области авиации  
6-7 апреля 2017 г. • Сингапур

- **Agreements and MoU with ICAO, IATA, CAA of Turkey and French for training of CAA staff**
- **World Bank project for civil aviation system of Kyrgyz Republic**
- **New edition of primary legislation (Air Code) with provision of increasing of financing of CAA (salary, training, equipment, additional staff, etc)**
- **Developing of civil aviation regulations, manuals and procedures according to SARPS**

# JSC “Manas International Airport”

## General Information

JSC “Manas” International Airport” has

**1** capital and

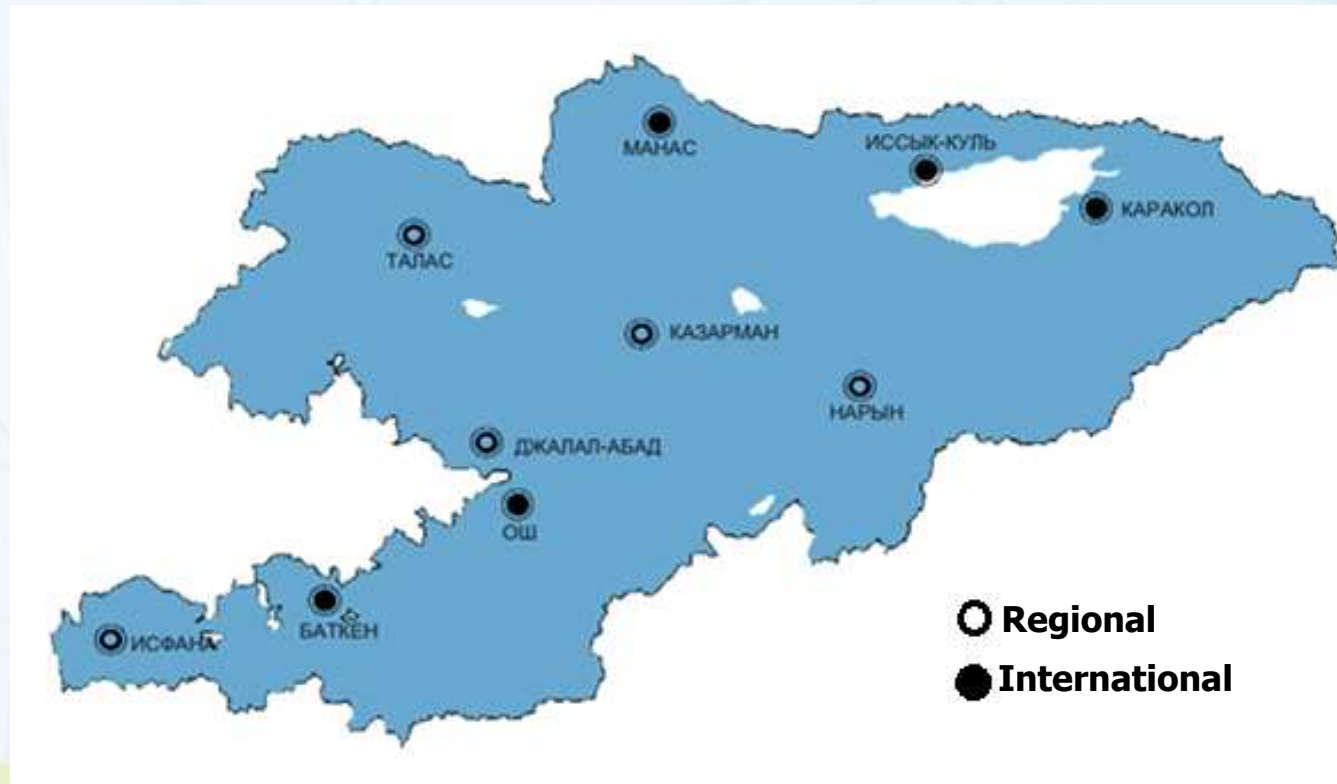
**10** regional airports.

Five of them have a status “International” –

**“Manas”, “Osh”, “Batken”, “Karakol”, “Issyk-Kul”.**

Others are regional airports:

**“Talas”, “Kerben”, “Naryn”, “Kazarman”, “Jalal-Abad”, “Isfana”.**





# “Manas” International Airport Features

## GENERAL DATA

- “Manas” airport provides international, domestic and cargo transportation;
- Work schedule – 24 hours; and
- Total area – 548 hectares.

## LOCATION

- “Manas” airport is located in the center of Transasian communication between South-East Asia, Russia and Europe;
- Coordinates – latitude 43,06 и longitude 74,48;
- Magnetic variation – 005 ° E;
- Altitude above the sea level – 637 m;
- Distance to Bishkek – 23 km north-west;
- Distance to Almaty – 198 km; and
- Distance to Tashkent – 473 km.

## WEATHER CONDITIONS

- Average number of sunny days – 322 days a year;
- Fog limitations during winter period;
- Availability CAT II – 99,95%; and
- Airport works at all weather conditions.

## RUNWAY

- Length 4 204 m, width 55 m;
- 08/26 armconcrete 0,4 м;
- The strength of the runway, expressed classification covering number is equal to PCN 53 R/A/W/T;
- Apron designed for all types of aircrafts;
- 5 taxi tracks; and
- 88 parking lots.

## NAVIGATION

- VOR-DME;
- NDB;
- ILS NM 7000 CAT II course 08; and
- ILS NM 7000 CAT II course 26



# Perspective projects of JSC “Manas International Airport”



# Aircraft Maintenance Base

## Aircraft Maintenance Base (AMB)

It provides maintenance and preparation of aircraft for the take-off.

Aircraft Maintenance Base has:

4-storey building (industrial rooms, workshops, warehouses, laboratories and administrative offices for the implementation of aircraft maintenance activities;

21 equipped parking lots entirely coated with asphalt for aircraft maintenance;

Land (20 hectares).

## Main functions of AMB

Maintenance and operation of apron mechanization;

Prompt and regular aircraft service in accordance with the regulatory and legislative acts of the ICAO, International Aviation Committee, Aviation rules of the Kyrgyz Republic, Civil Aviation Agency of the Kyrgyz Republic;

Repair of aggregates and equipment;

Providing ground supply on parking;

Machining, welding, fitting and mechanical and other works of maintenance and repairs of apron mechanization.

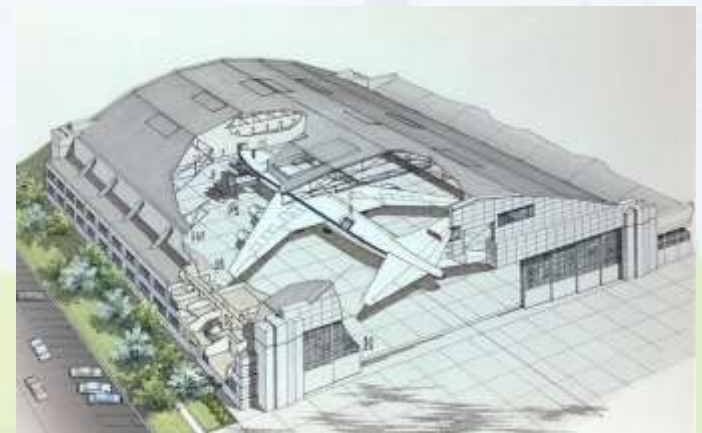


# Aircraft Maintenance Base

Retraining of technical staff for new aircrafts maintenance;  
Equipment supply for the maintenance of aircraft equipment necessary for aircraft's line maintenance;  
Construction of the hangar and auxiliary constructions for aircrafts maintenance;  
Supply of hangar with the necessary technological equipment to conduct a comprehensive maintenance.

Planning to get EASA Certificate of line maintenance of aircrafts in order to perform following works:

Transit Check – handling and preparation for take-off works;  
Daily check – daily maintenance;  
Unplanned services – unplanned maintenance;  
Aircraft –on- ground (AOG) situation;  
Defect rectification – trouble-shooting;  
Component change – replacement of units and components of aircrafts.





# Forms of cooperation

**JSC “Manas International Airport” is open for cooperation in the following forms:**

- Direct Investments;
- Joint Venture;
- Public-Private Partnership (BOT, BOOT and etc.);
- Concessional lending.



# Kyrgyz Republic has air transport agreements with 31 countries



# International Flight Geography



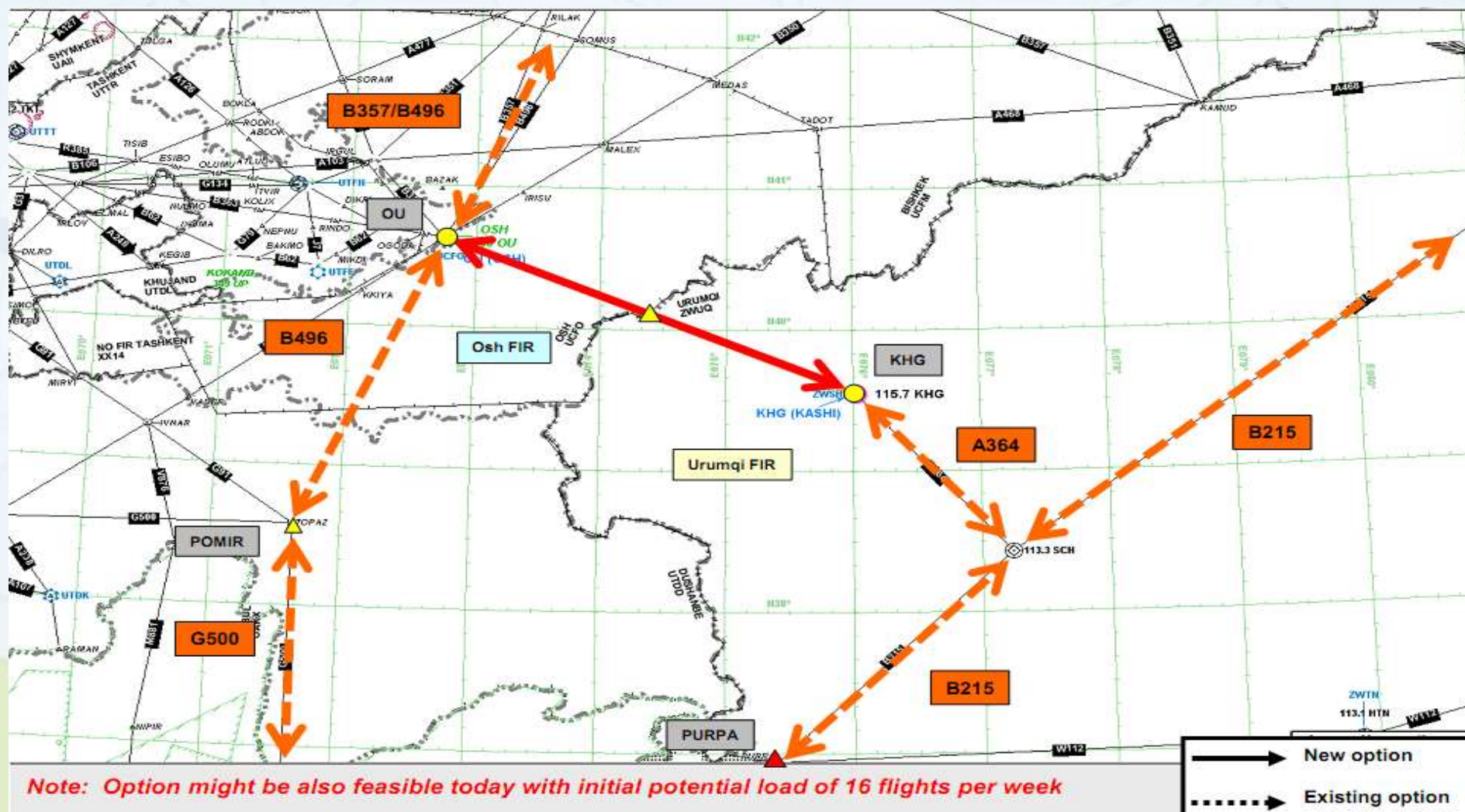
# SE “KYRGYZAERONAVIGATSIA” air navigation provider

## Operational challenges:

- Opening new routes
- Modernization of air navigation facilities
- Training



# Proposed air corridor OSH-KASHI



# Modernization of air navigation facilities

- **Meteorological equipment (meteo radar)**
- **Expansion of the Multilateration System (WAM)**
- **Navigation equipment DVOR / DME**
- **Automated ATC system**
- **Automatic Information System "ATIS"**



# Training



In the framework of the **PBN** implementation program the training of air controllers of SE "Kyrgyzaeraeravigatsia" to the basic principles of air traffic control.