



# Civil/Military Cooperation ICAO Workshop

*Civil/Military Cooperation in Ukraine*

October 2013



# Ukraine



- Gained independence in 1991
- Population: 47 million
- Total area: 603,700 sq.km
- Land boundaries: 4,558 km
- Coastline: 2,782 km
- Capital: Kyiv

# Partnership

International aviation organisations, where Ukraine is a member:

1992



1999



2004



International aviation organisations, where UkSATSE is a member:

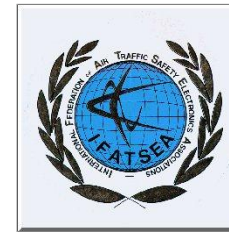
1994



1998



2000



Interaction with international organisations:





# Airspace and ATM Units of Ukraine

**Kyiv FIR**  
181 399 sq.km

**Lviv FIR**  
138 365 sq.km

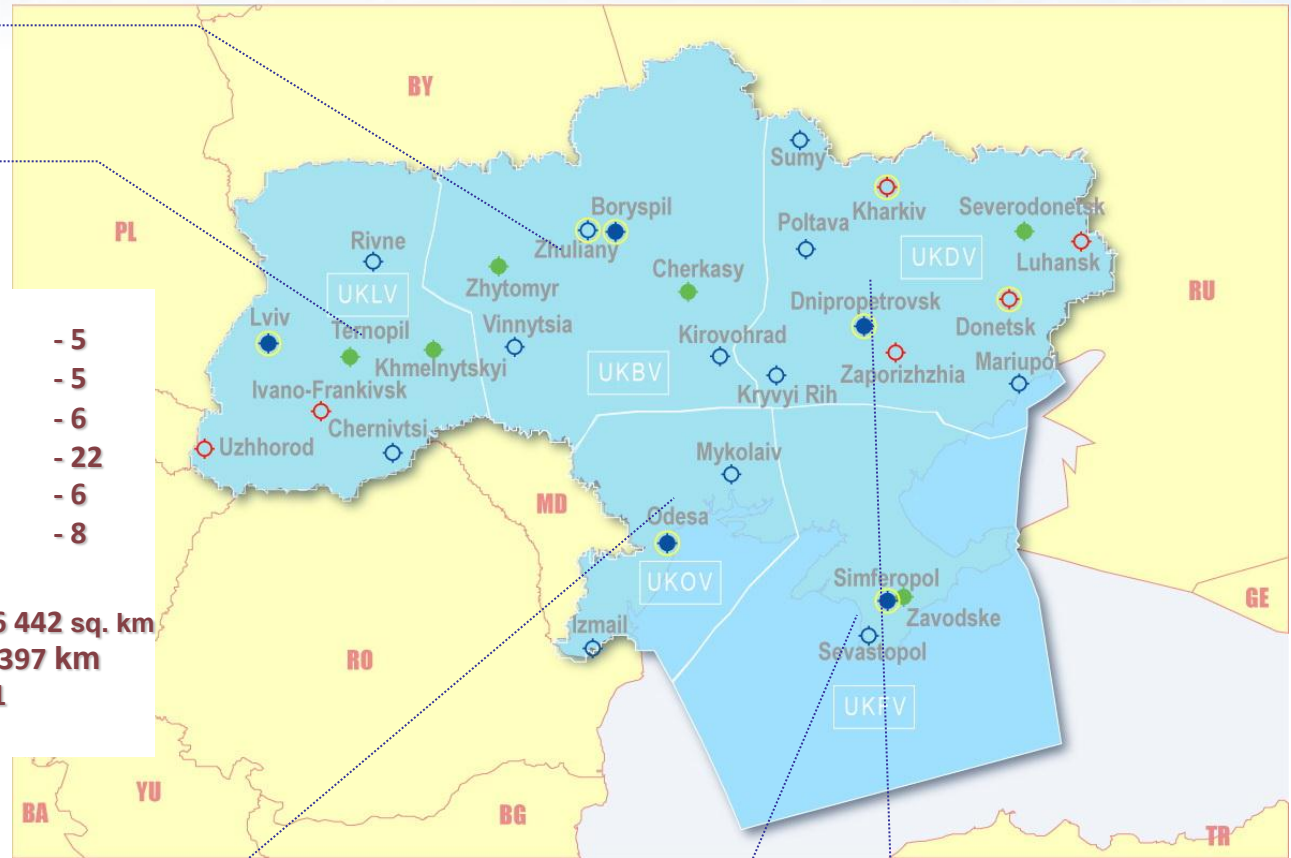
**Total:**

**FIRs**

-  ACC
-  APP
-  Tower
-  AFIS
-  Briefing offices

- ARO**
- FIR total area**
- Total length of routes**
- Total number of routes**

- 5
- 5
- 6
- 22
- 6
- 8
- 14
- 776 442 sq. km
- 50 397 km
- 171



**Odesa FIR**  
81 832 sq.km

**Simferopol FIR**  
209 337 sq.km

**Dnipropetrovsk FIR**  
165 509 sq.km

# Milestones of Civil/Military Cooperation in Ukraine

- 1999** General Agreement for cooperation between Ministry of Transport of Ukraine and Ministry of Defense of Ukraine
- 1999** Creation of Joint Civil-Military ATM System of Ukraine (JCMS) as a part of UkSATSE (Decree of the Cabinet of Ministers of Ukraine No. 1281 dated 19.07.1999)
- 2002** Airspace Use Regulation (Decree of the Cabinet of Ministers of Ukraine No. 401 dated 22.03.2002)
- 2002** Ukrainian Airspace Management Development program for 2002-2006 – facilitated the modernisation and further development of JCMS
- 2004 - 2006** Revision of Airspace structure for Flexible Use application
- 2005** Implementation of AS-CENTRE (Automated system supporting ASM)
- 2006** Creation of AMC Ukraine
- 2006** FUA implementation
- 2007 - 2013** Further ASM improvements
- 2010** Development of the State Programme of Airspace Use System of Ukraine for the period of 2010-2014 (Decree of the Cabinet of Ministers of Ukraine No. 44 dated 13.01.2010)
- 2011** Air Code of Ukraine (new edition)
- 2012** Instruction of coordination between JCMS Units and Air Forces Units, approved by UkSATSE Director General and Chief of Air Force of Ukraine

# State regulation of JCMS

**State regulation of the JCMS is performed by the Ministry of Infrastructure of Ukraine and the Ministry of Defense of Ukraine in accordance with general agreement under the direction of State Aviation Administration (except for matters related to protection of the state sovereignty and airspace use within the competence of the Ministry of Defense of Ukraine).**

**During the special period the JCMS reports to the General Staff of the Armed Forces of Ukraine.**

# JCMS OBJECTIVES

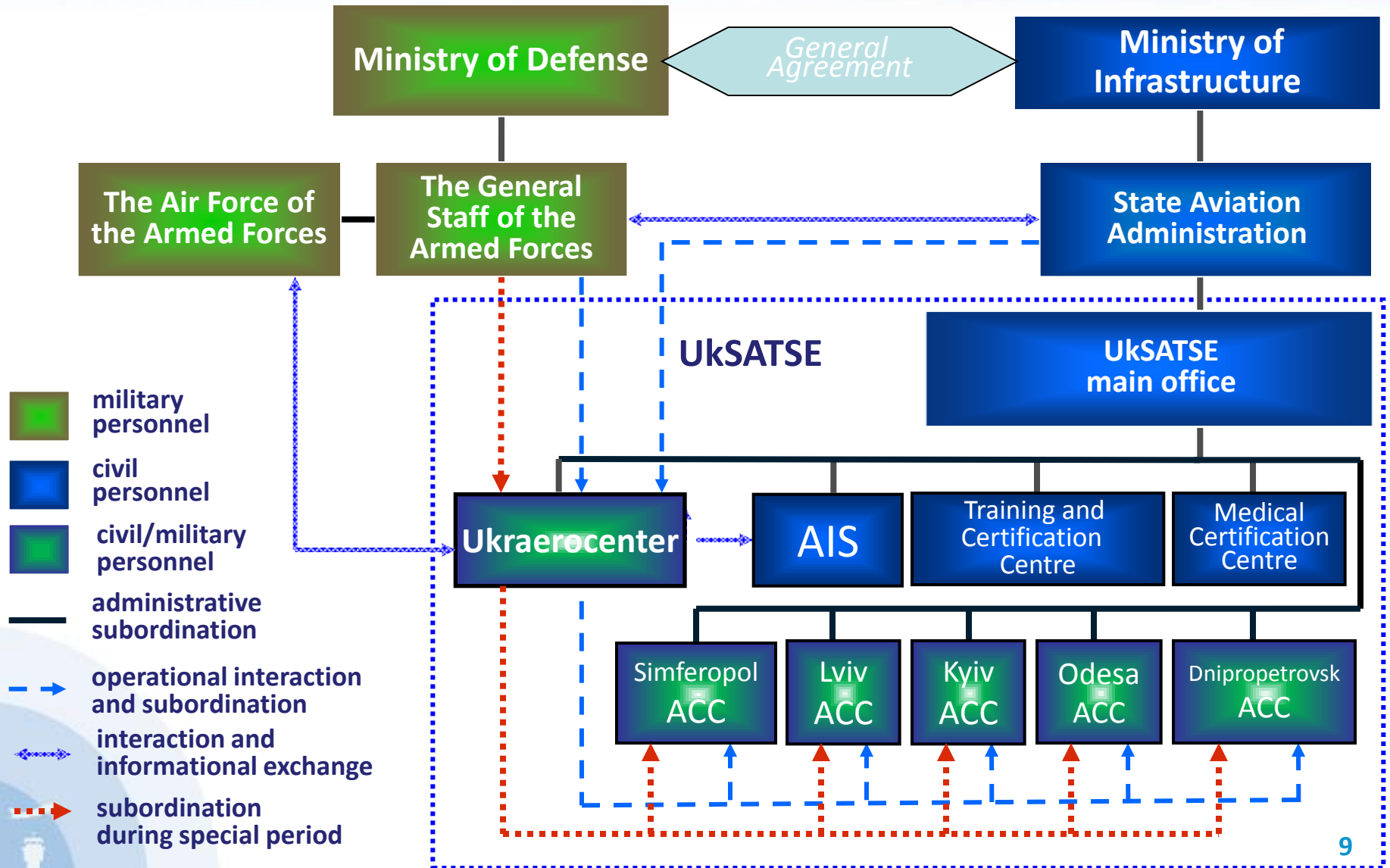
- **Planning and regulation of activities, provision of air traffic services in Ukrainian airspace and international airspace where ATS is delegated to Ukraine**
- **Developing the airspace use conditions, control of airspace utilisation according to established procedures and rules**
- **Notification respective authorities about aircraft required search and rescue assistance and provision of necessary support to these authorities**
- **Communication, navigation and surveillance aids maintenance**
- **Preparation and promulgation of regulations on air navigation issues**

# JCMS organisation

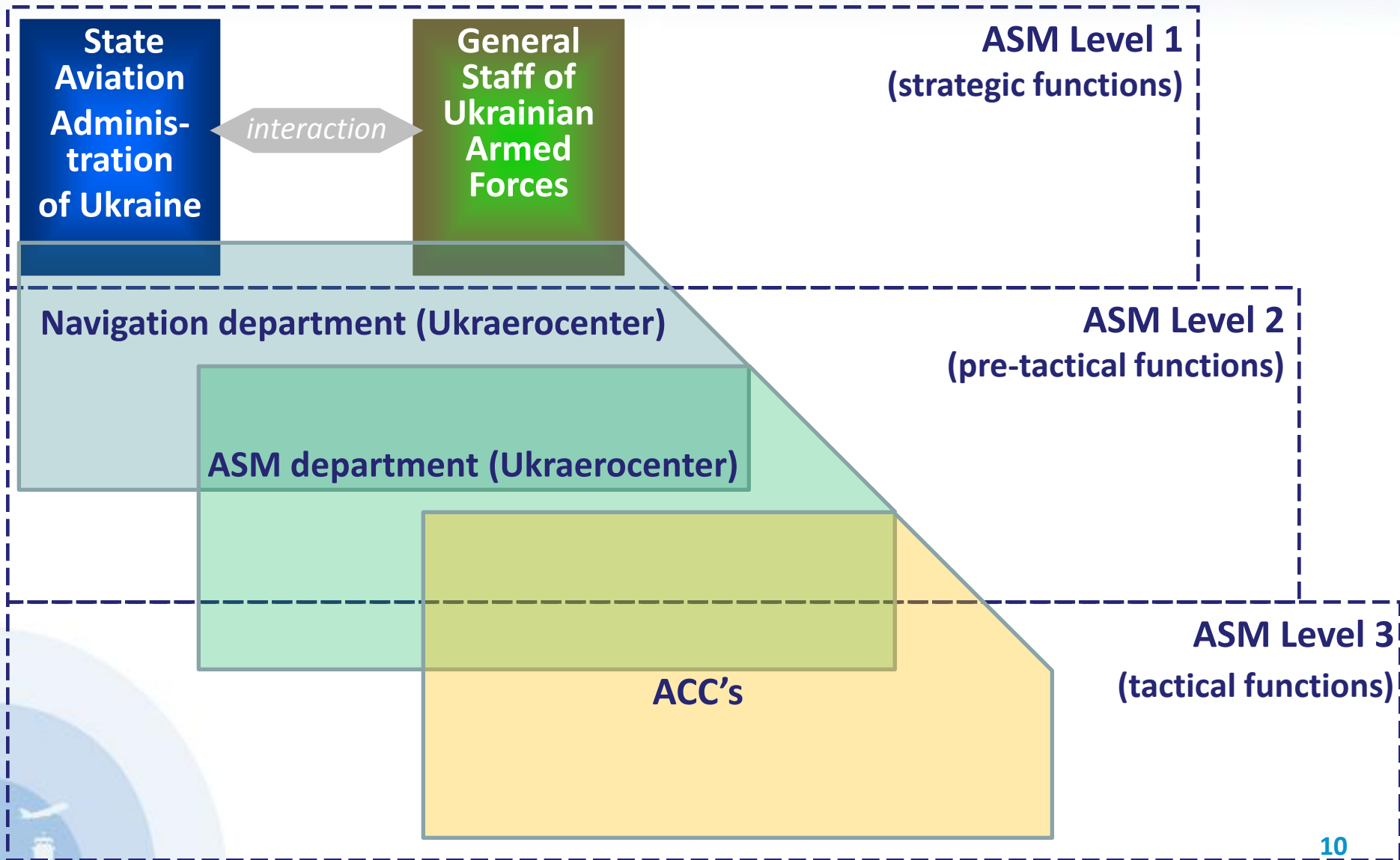
**Joint Civil-Military Air Traffic Management system** was created pursuant to the Regulation of the Cabinet of Ministers of Ukraine No. 1281 dated 19.07.1999 “On creation of Ukrainian Joint Civil-Military Air Traffic Management System”.



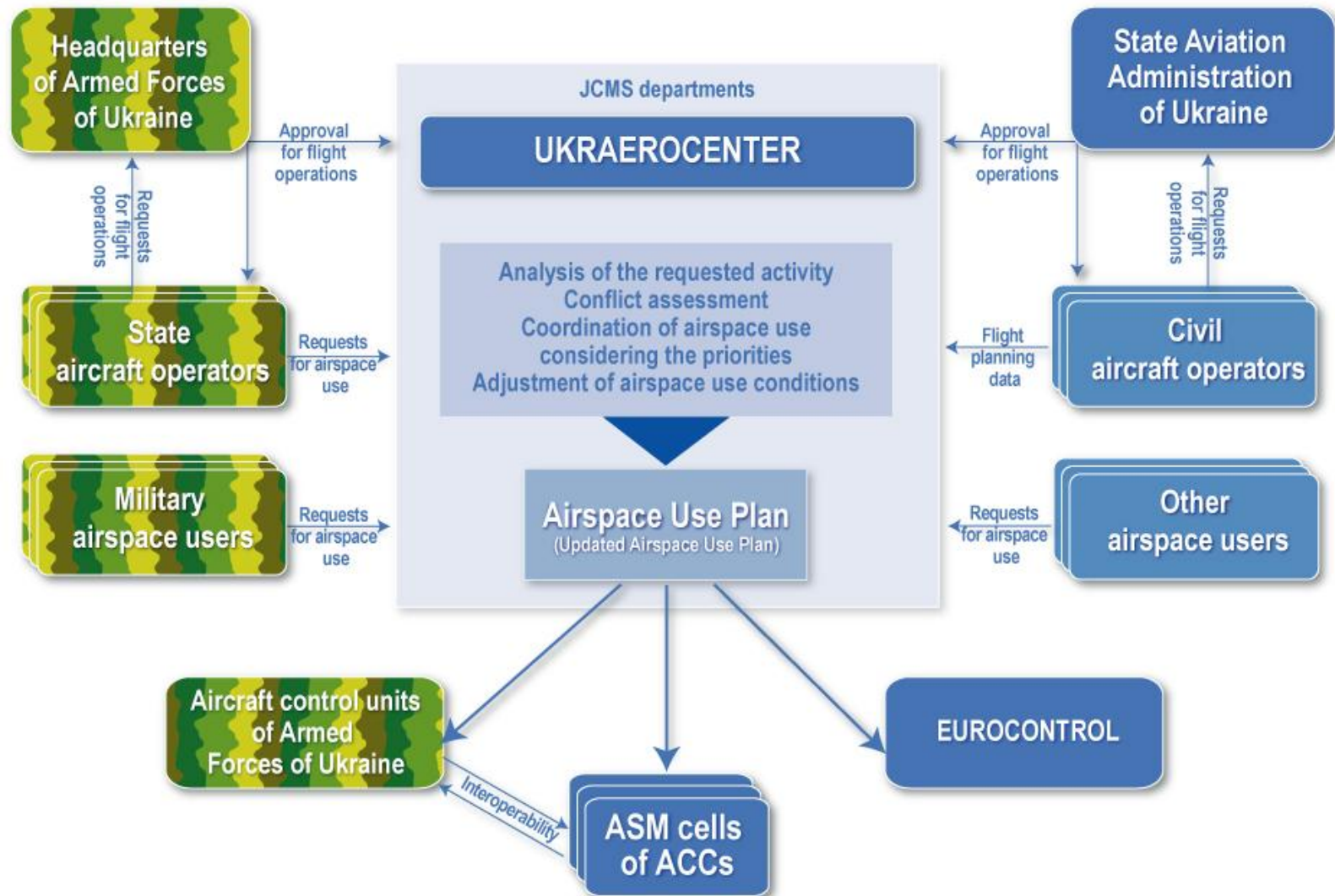
# Administrative and operational subordination



# Seamless ASM in Ukraine



# ASM operational process



# Ukrainian Airspace Management and Planning Center (Ukraerocenter)



**Ukraerocenter** is the main operational unit of Joint Civil-Military Air Traffic Management System of Ukraine.

## **Main tasks of Ukraerocenter:**

- Planning and regulation of the activities in the Ukrainian airspace and international airspace where ATS is delegated to Ukraine (hereinafter referred to as airspace)
- Airspace management at pre-tactical Level, civil-military coordination of airspace utilisation
- Determining of airspace use conditions, monitoring the order of airspace utilisation and compliance with the priority rules during coordination and airspace management
- Notification to relevant units and authorities of the aircraft required search and rescue assistance
- Provision of the safe airspace utilisation during search and rescue operations

# Civil-military co-ordination in ACC

- **Airspace management at tactical level (co-ordination of the airspace utilisation) within FIR**
- **Provision the permissions and conditions of airspace utilisation for airspace users**
- **Monitoring the movements of the state aircraft non compliant with ICAO rules out of segregated airspace to provide safe separation with GAT**
- **Distribution of information, activation and deactivation of temporary airspace restrictions**
- **Monitoring of the airspace utilisation rules performance**
- **Ensuring of emergency notification about the endangered aircraft, ensuring of ATC in case of search-and-rescue and evacuation operations**



# Aviation Medical Centre

**Joint Civil-Military ATM System (JCMS) of Ukraine is entitled to carry out medical certification of the employees of this system. To fulfill this task UkSATSE has founded an Aviation Medical Centre which is authorized by the State Aviation Administration of Ukraine to conduct the European Class 3 medical certification of aviation personnel including air traffic controllers. Medical certification is carried out by three Aviation Medical Examiners – employees of the Aviation Medical Centre .**



# The advantages of the Joint Civil-Military ATM system

- **Close cooperation with MoD and General Staff of Armed Forces of Ukraine**
- **Amendment of the national legislation**
- **Change of priorities on airspace utilisation**
- **Application of the FUA principles**
- **Modification of the Airspace structure in accordance with FUA Concept**
- **Support of design and application of the route network suitable for commercial aviation**
- **Close cooperation with all categories of airspace users**



**THANK  
YOU**

