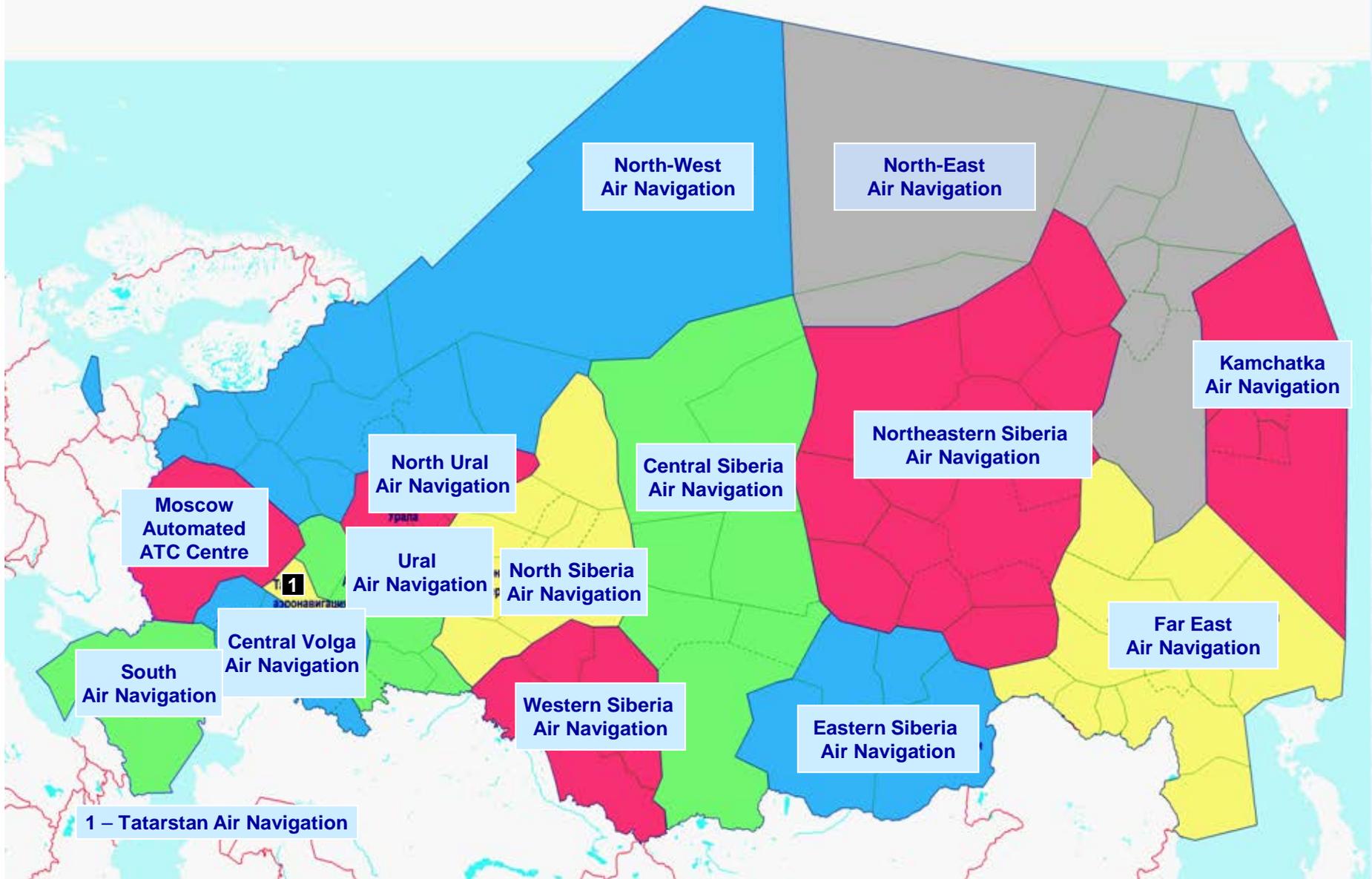




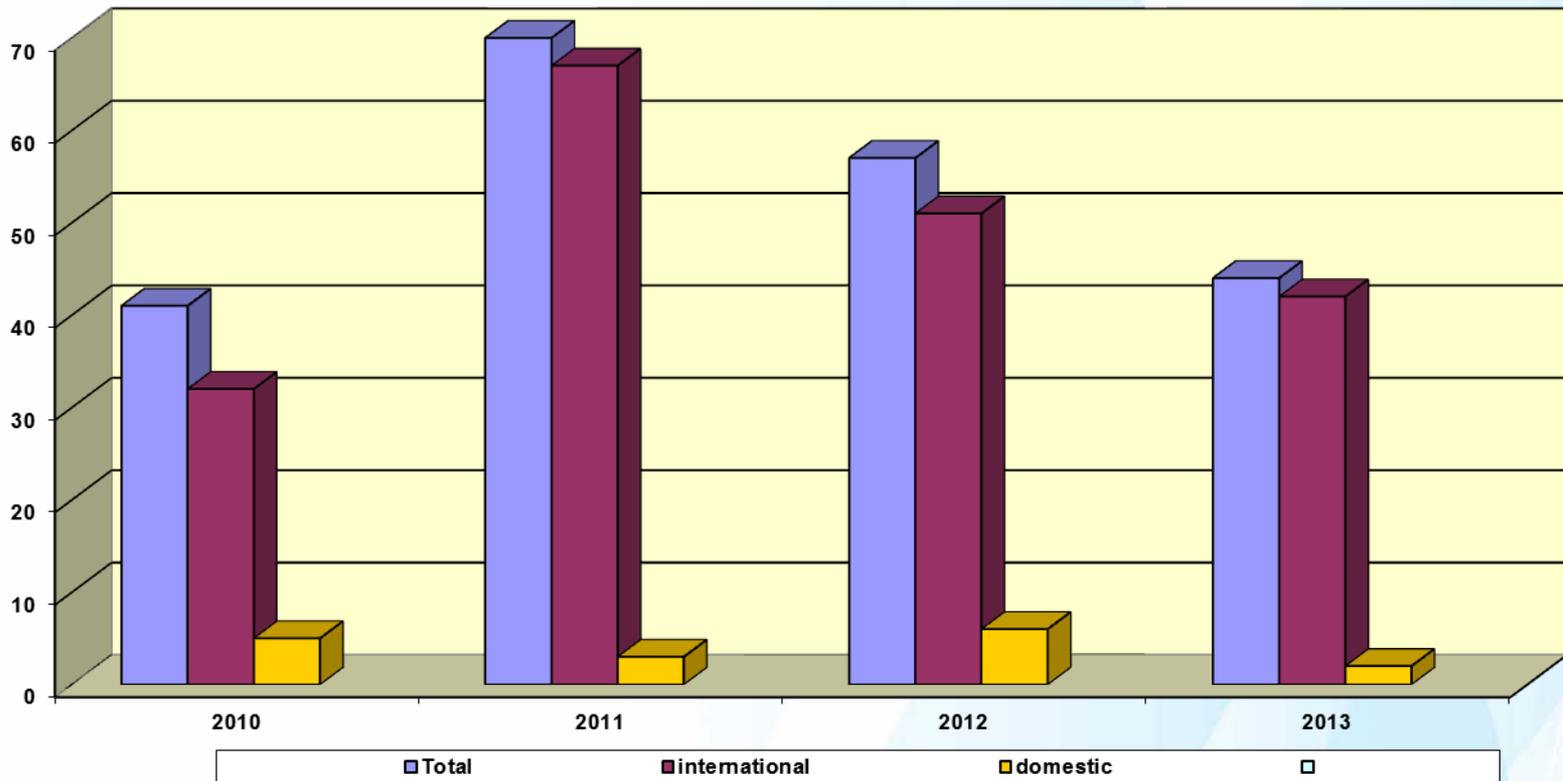
Facts and Figures

✓ Area of Responsibility	26 million km ²
✓ Total Route Length	680 000 km
of which international	513 000 km
✓ Number of Movements	1 348 000
✓ Flights controlled at a time	1 000
✓ Number of Employees	26 500
✓ Number of operational ATCOs	7 300
✓ CNS/ATM personnel	9 500
✓ ACCs	44

Branches



New Routes Implementation



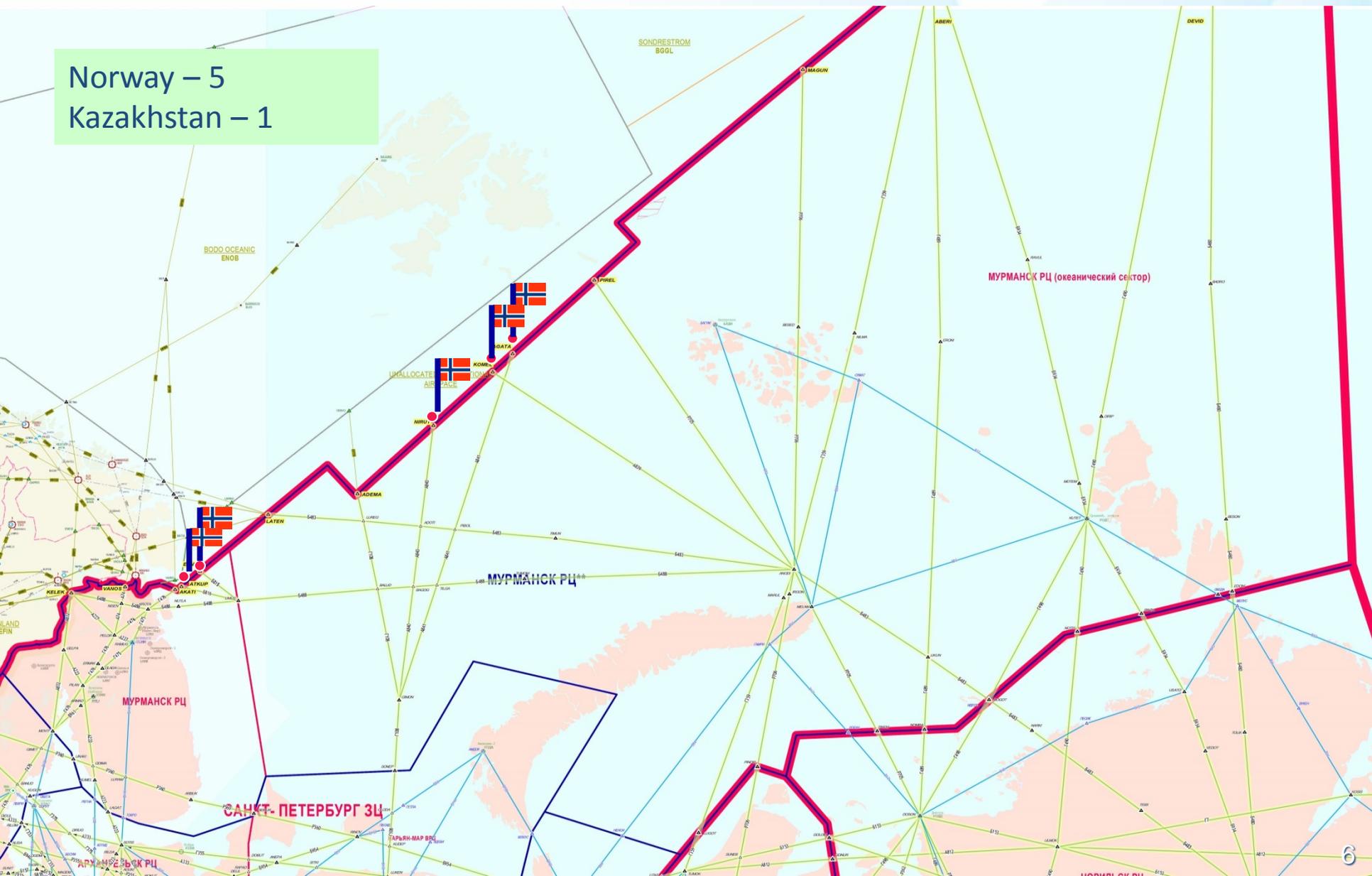
- ✓ In 2013, 44 routes were implemented, of which 42 international
- ✓ Total Number of Routes – 869 (559 – international)
- ✓ Total Length of ATS routes is 680 000 km, of which 513 000 km international

Entry/Exit Point with Neighboring States (2013)

	Azerbaijan	6/30346		Latvia	3/22940
	Belarus	13/171281		Lithuania	7/67658
	China	6/24655		Mongolia	9/72540
	Estonia	4/76853		North Korea	4/5961
	Finland	10/27565		Norway	10/2439
	Georgia	6/54470		Poland	7/57136
	Iceland	2/3300		Sweden	1/728
	Japan	7/27630		Turkey	3/37372
	Kazakhstan	29/124393		Ukraine	22/194067
				USA	25/28811

Entry/exit Points in 2013

Norway – 5
Kazakhstan – 1



Major Projects in 2013-2014

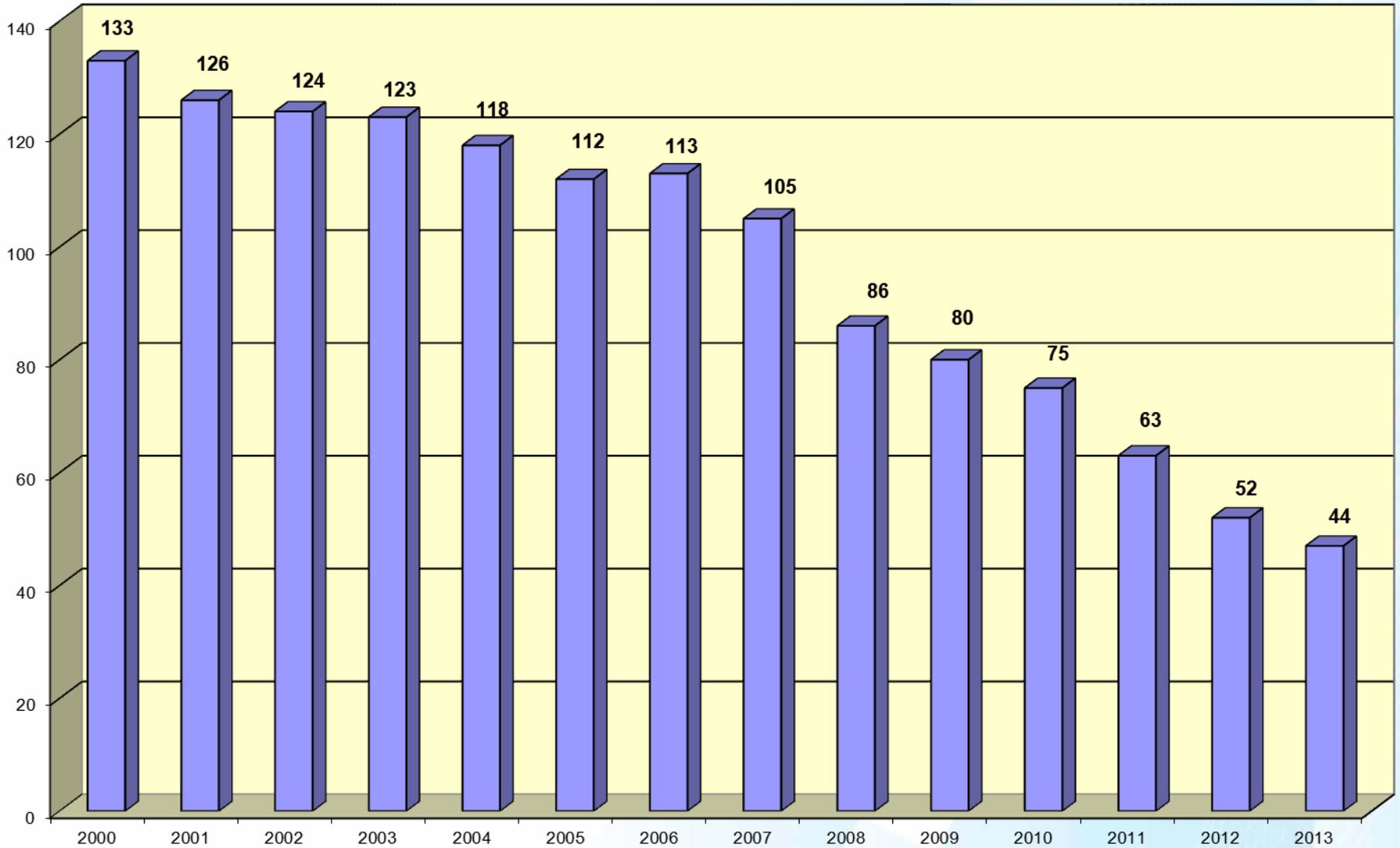
**Preparations for
Universiade-2013 (Kazan)
Olympic Games-2014 (Sochi)**

ACC Consolidation

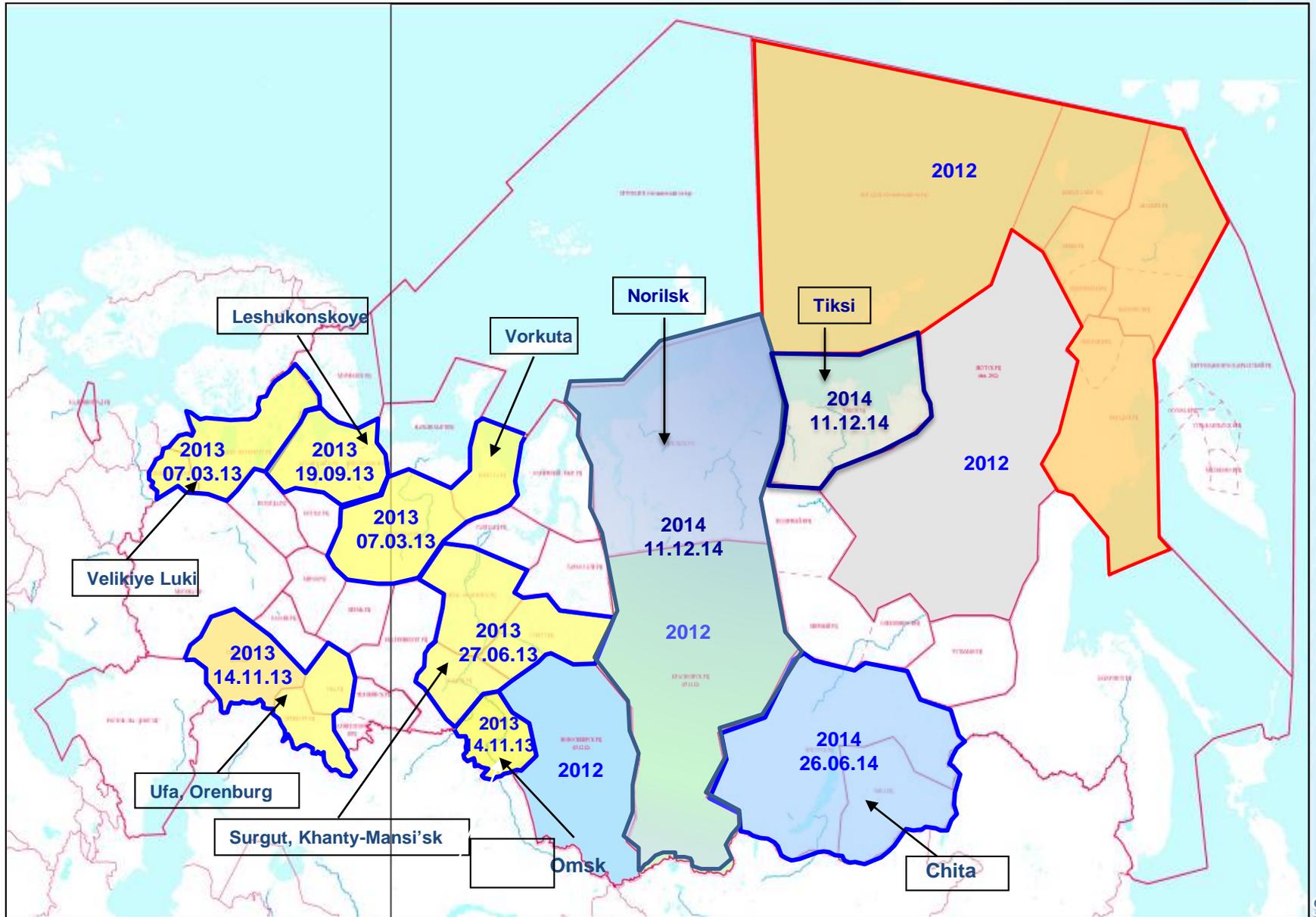
QNH Implementation

**Moscow TMA
New Airspace Structure**

ACC Consolidation Process



ACC Consolidation (2012-2014)



Khabarovsk Consolidated ACC (2011)

«Sintez» Automated Planning System



Samara, Magadan and Irkutsk consolidated ACCs are being equipped with automated systems with similar functional capabilities

Samara Consolidated ACC

The equipment installation and start-up as well as the acceptance test of the automated system have been completed. The centre will become operational on 14 November 2013



OPS Room



**Automated
working position**



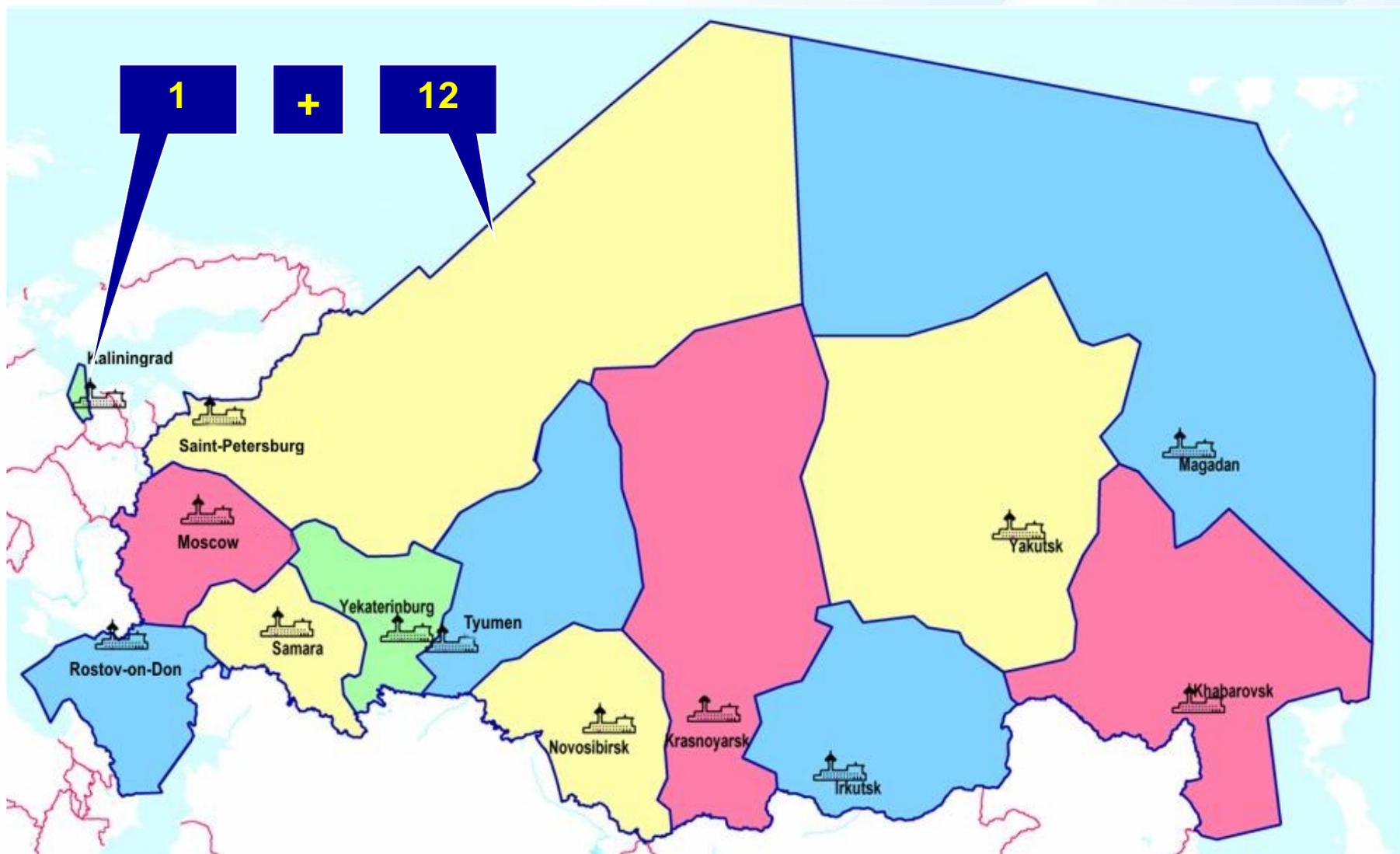
Simulation Room

Kaliningrad Consolidated ACC

In 2012, “TOPAZ” automated system successfully passed attempted operation and acceptance tests

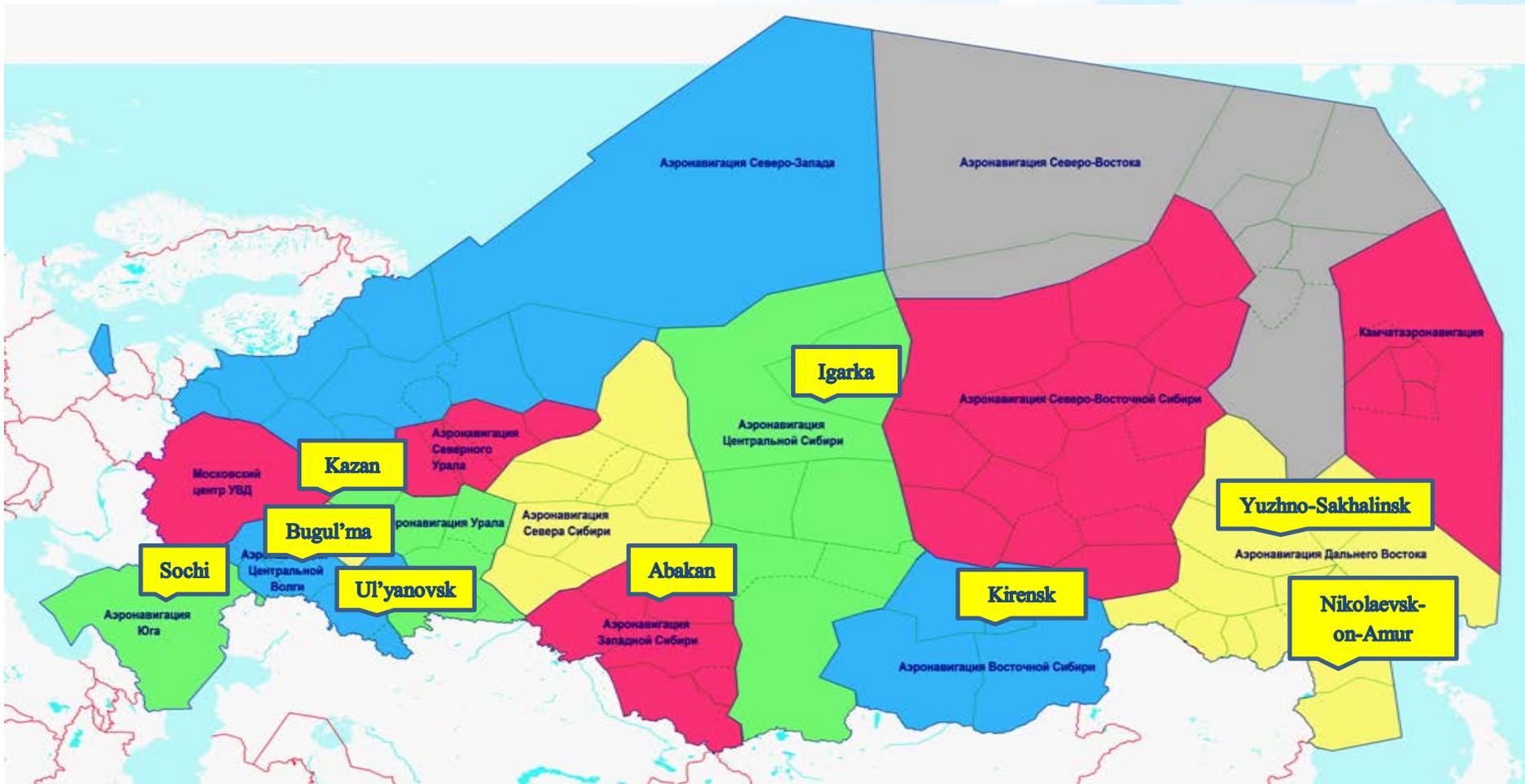


Consolidated ACCs (2015)



Automated ATC Systems (2013)

Operational in Kazan, Abakan, Bugul'ma, Igarka, Nikolaevsk-on-Amur, Sochi
Fully completed in Kirensk and Ul'yanovsk
To be completed in 2013 (Yuzhno-Sakhalinsk)



ADS-B Stations (1090ES and VDL-4) in 2013-2014

ADS-B 1090ES stations deployed:

Kaliningrad

Pulkovo
(MSSR with ADS Mode-S)

Kotlas

Arkhangelsk

Murmansk

РЦ
КАЛИНИНГРАД

РЦ
САКТ-ПЕТЕРБУРГ

РЦ
АРХАНГЕЛЬСК

РЦ
ВОЛОГДА

РЦ
КОТЛАС

РЦ
МУРМАНСК

Kaliningrad

Velikiye Luki
VDL-4 and 1090ES

Pulkovo

In 2013-2014, in accordance with "Baltic ADS" pilot project for the establishment of a seamless Moscow-St.Petersburg-Stockholm route additional ADS-B VDL-4 stations are being deployed



“Baltic ADS” Pilot Project in Kaliningrad



“LIRA-ADS” ground station (Kaliningrad)



Radar Facilities (2013)

Terminal radars became operational in Nikolaevsk-on-Amur (1), Polyarny (2)

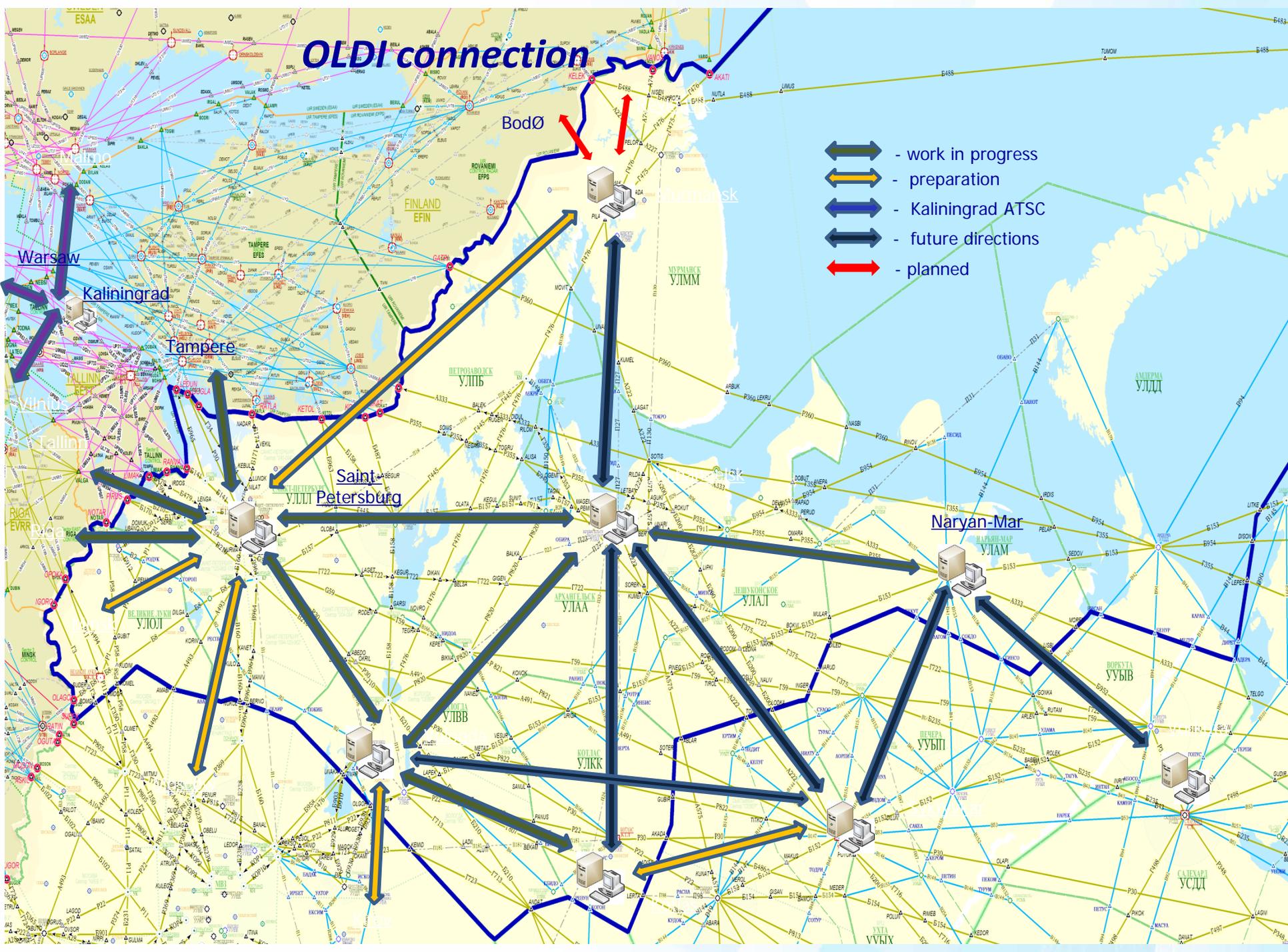
Secondary Surveillance Radars became operational in Astrakhan(3), Kotlas (4), Krasnoyarsk (5), Sukhaya Buivola (6)



Surface Movement Radar (SMR) was commissioned at Khabarovsk airport (Far East Air Navigation) (7)



OLDI connection



Bodø

Murmansk

Warsaw

Kaliningrad

Tampere

Saint Petersburg

Naryan-Mar

- work in progress
- preparation
- Kaliningrad ATSC
- future directions
- planned

ATS Units Arrangements for Universiade-2013 in Kazan (Tatarstan)



Airspace structure and ATM improvements within Kazan ACC area of responsibility and terminal area

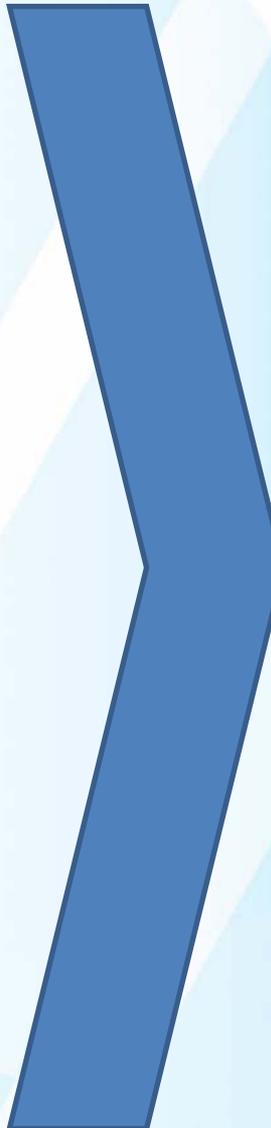
Modernization of ATC facilities, navigation aids and communication in Kazan ACC/at Kazan airport

New Tower

Training of ATS personnel

Ensure coordination of the Joint Team consisting of representatives of ATS units and security agencies on airspace utilization issues

Working meetings with airspace users and experimental aviation on airspace utilization procedures in prohibited and restricted areas

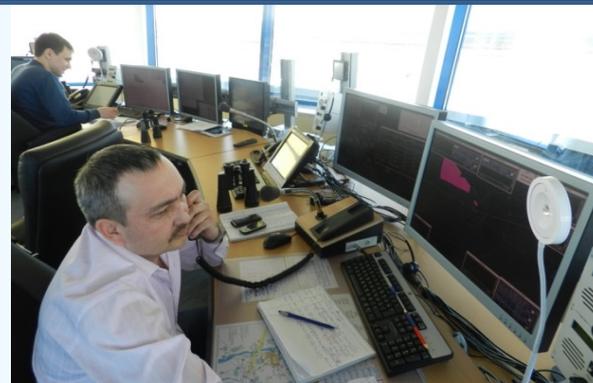


Major Activities

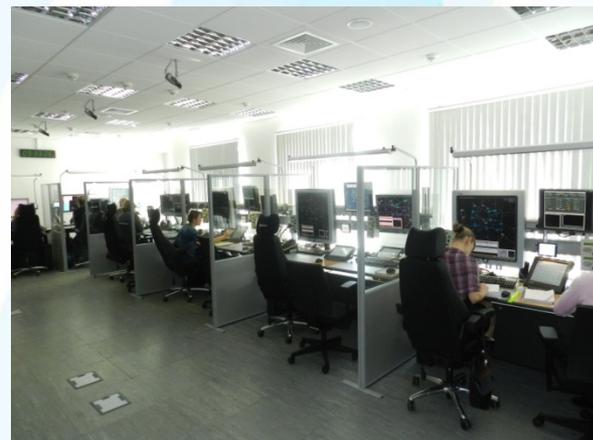
ATS Units Arrangements for Universiade-2013 in Kazan (Tatarstan)



TWR



ACC



Air traffic
awareness
display



ATS Units Arrangements for Winter Olympics (2014) in Sochi



**Modernization of technical
facilities and navigation aids
at Sochi airport**

New airspace structure

**ATS personnel training
(new airspace structure,
rules and procedures)**



**Major
Activities**

Sochi Airport (Adler)

New technical facilities have been commissioned:

Tower (operational from 10 September 2013)

“SP200” ILS

“Lira-A10” Terminal Radar, “Atlantika” SMR, “Aurora” MSSR
1 DVOR/DME and 2 DMEs

“Vega” SMGCS, MLAT

“Sintez-A2” automated ATC System

“Vyshka” Simulator



Non-Commercial Educational Establishment «Corporate Centre for Personnel Training – Institute of Air Navigation»

Established by the State ATM Corporation in 2004.

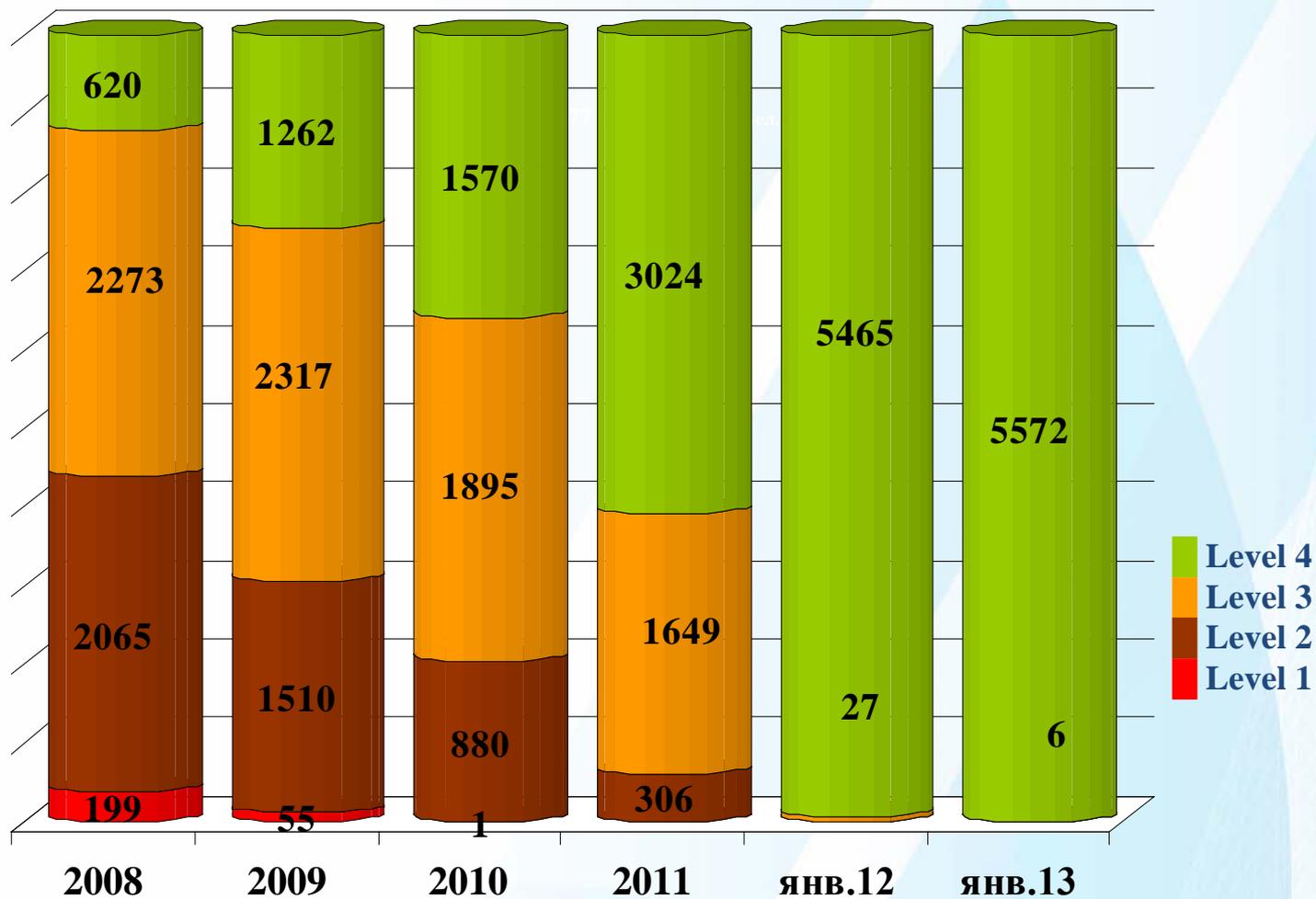
The Institute conducts training, additional training and refresher courses for aviation personnel (courses, seminars, consulting services, offsite training etc.)

Departments:

- Advanced and professional training of ATC personnel;
- Advanced and professional training of personnel from civil aviation organisations and companies.



Language Proficiency of ATC Personnel



“Aerocontrol” Branch of State ATM Corporation

Established in September 2013

Objectives:

- Flight inspections
- Aerial works
- Aerial surveys

2 Beechcraft King Air 350i and 1 Piaggio P.180 aircraft have been purchased



Piaggio P-180 aircraft

Beechcraft King Air 350i
with installed AD AFIS-112



Operator working position



**THANK YOU
FOR YOUR ATTENTION!**