



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

**[Pakistan]
Country Report**



State of Aviation in Country

- Civil Aviation sector of Pakistan is a vibrant sector supporting national economy through provision of aviation services and development of infrastructure to support operational and allied services
- Pakistan has 44 airports out of which 13 airports are international
- International traffic to / from Pakistan is growing at the rate of 16% annually which is above international average
- Domestic traffic has shown a growth rate of 9% in the past year



Toward Connected Skies

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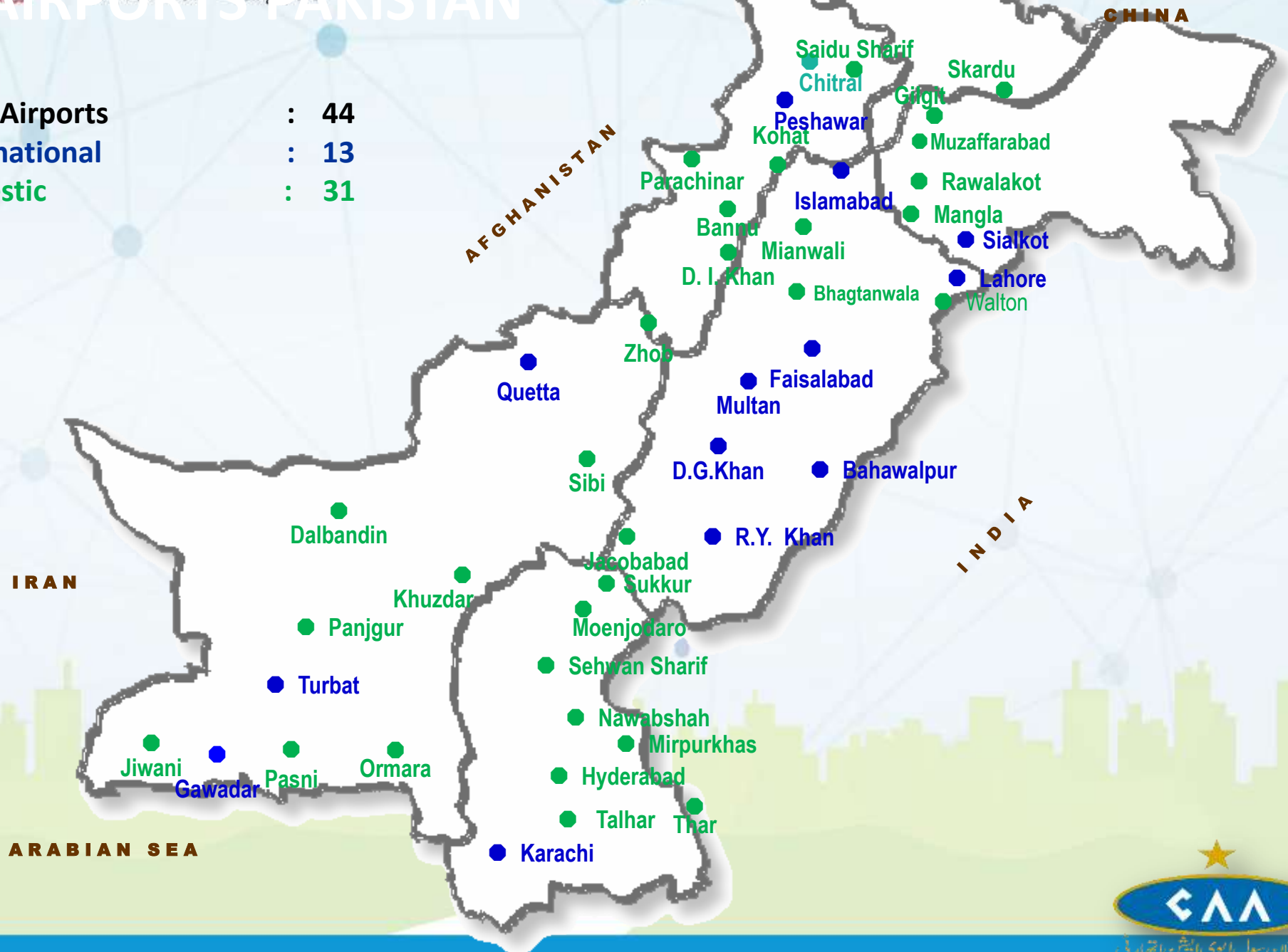
Определение роли ЦАРЭС

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6-7 апреля 2017

CIVIL AIRPORTS PAKISTAN

Total Airports : 44
International : 13
Domestic : 31



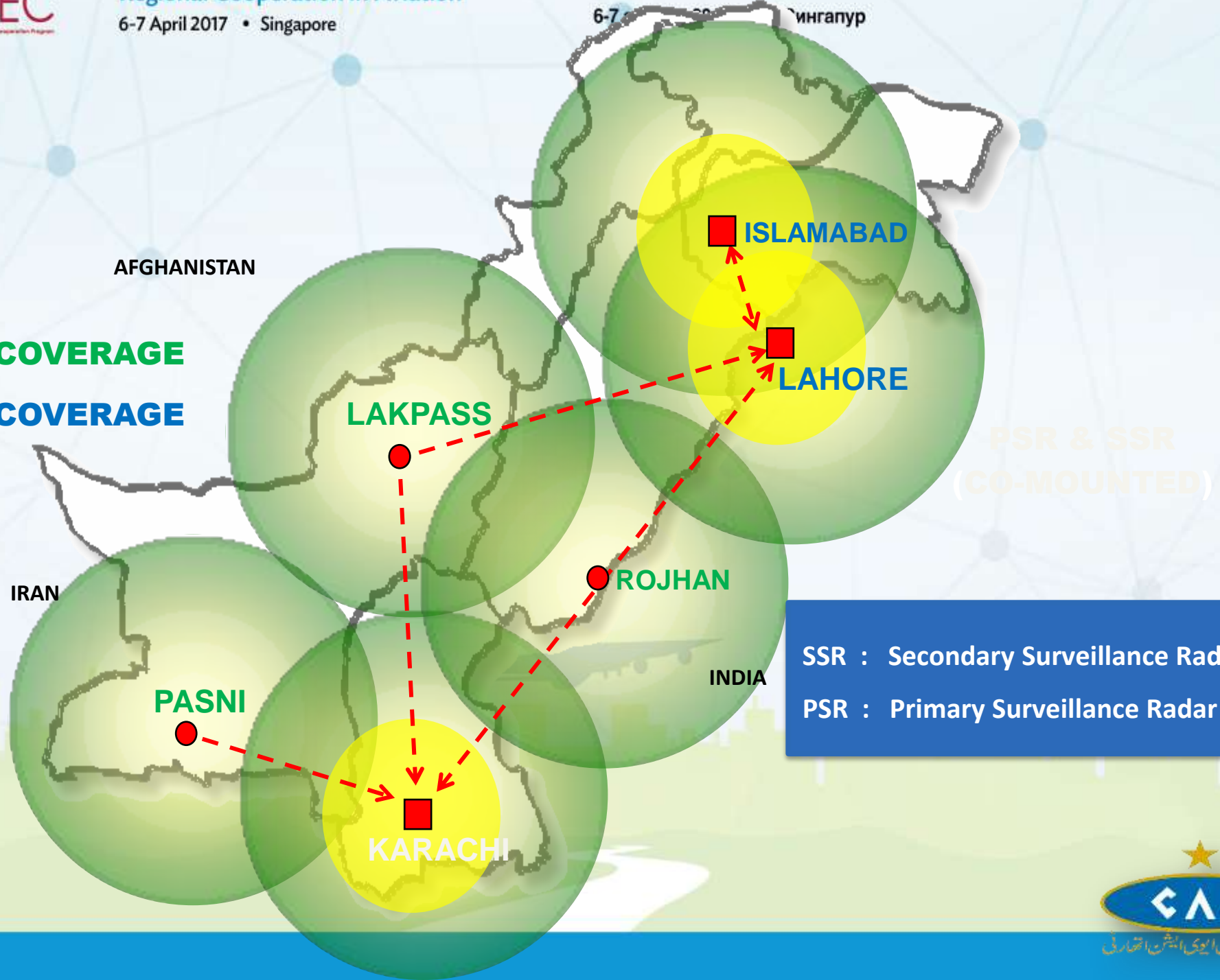
پاکستان سول اوییشن اتھارٹی

State of Aviation in Country

- To ensure safety of operations Pakistan has provided radar coverage to airspace under its sovereignty
- The airspace is covered with primary and secondary radar
- The operational system is augmented with extended range VHF & UHF network
- New systems are being acquired for upcoming green-field airport at Islamabad i.e. New Islamabad International Airport (NIAP)

SSR COVERAGE

PSR COVERAGE



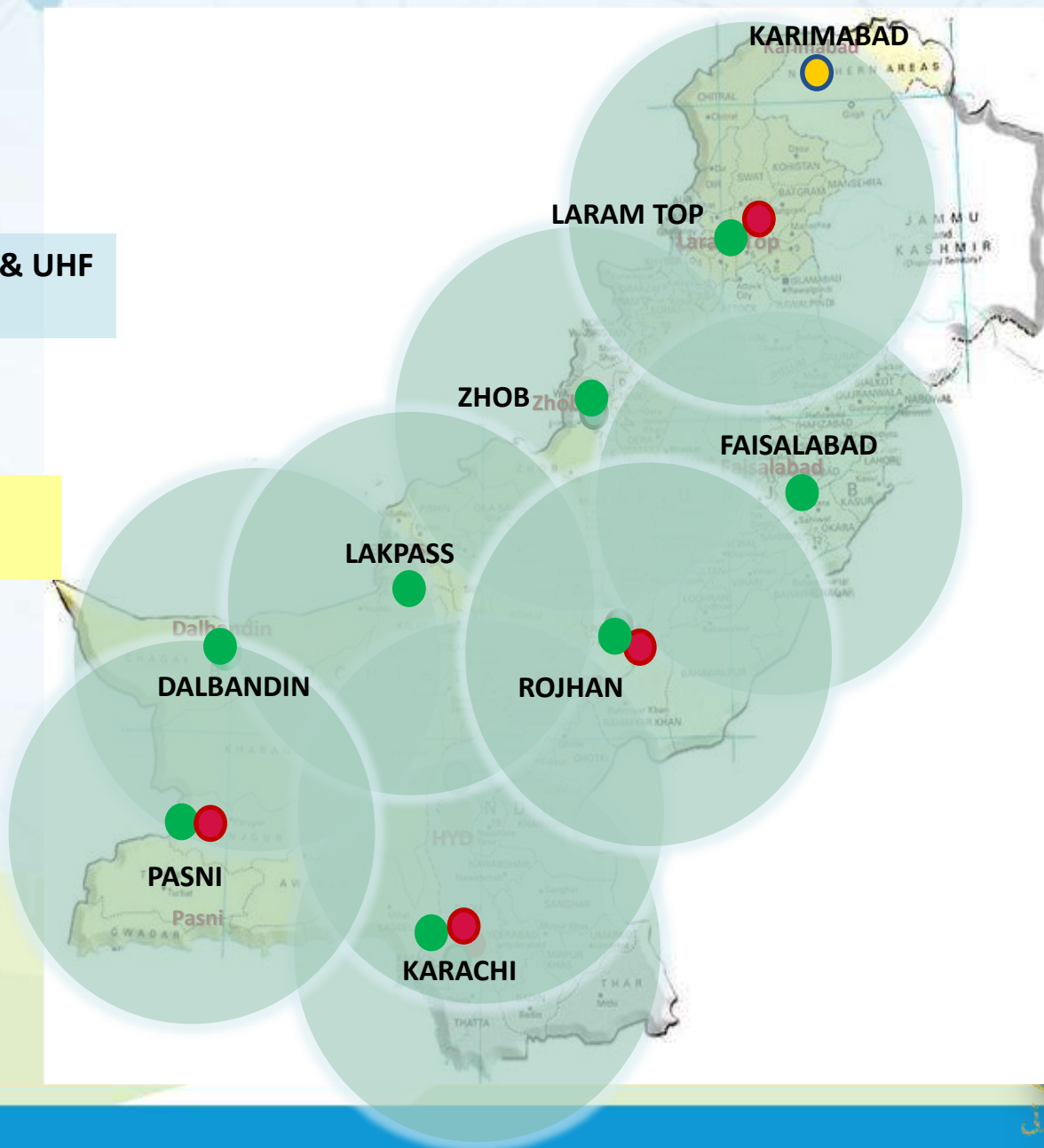
SSR : Secondary Surveillance Radar

PSR : Primary Surveillance Radar

● VHF
● UHF

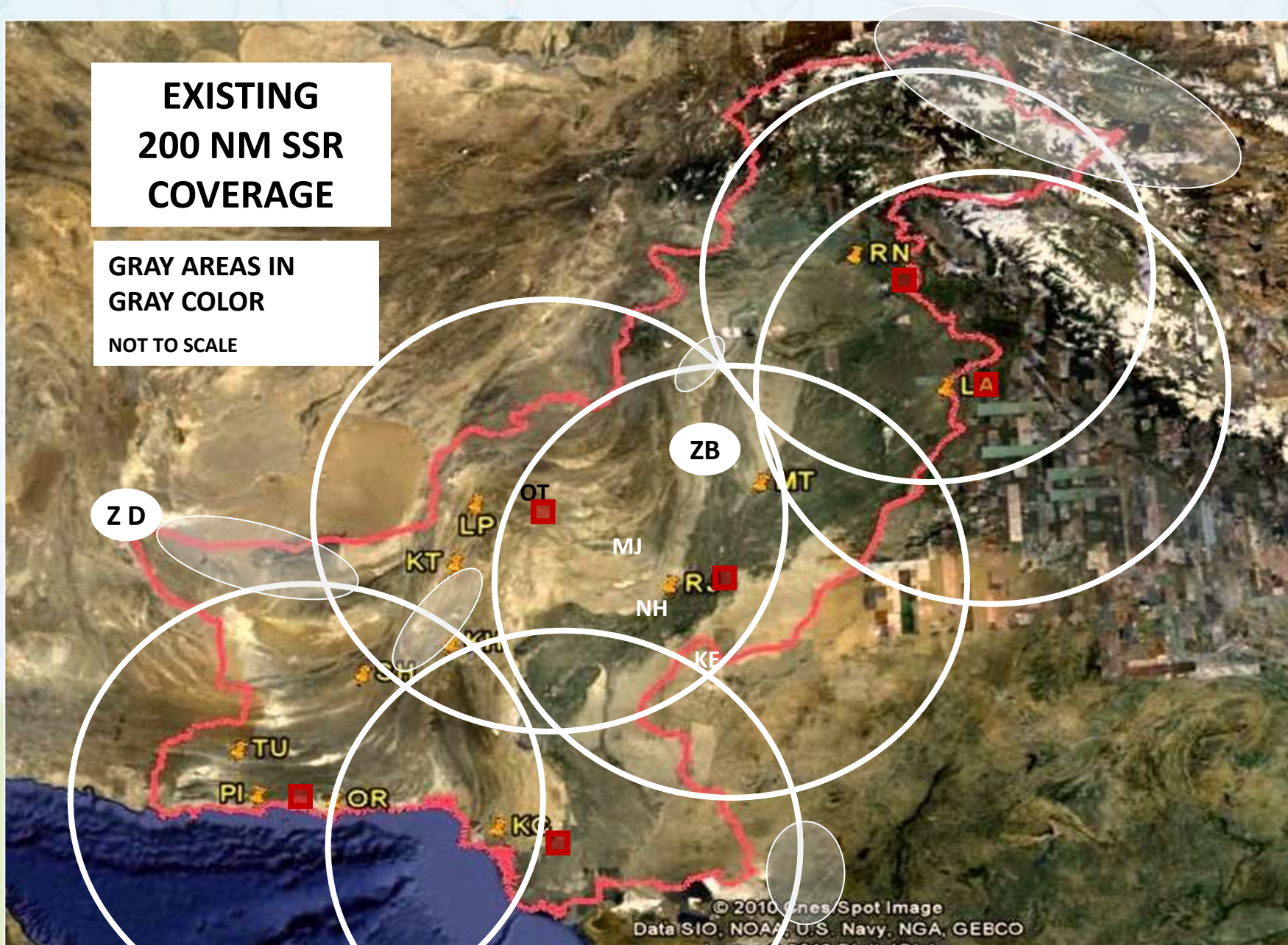
EXTENDED RANGE VHF & UHF COVERAGE

● Karimabad commissioning before Dec2017

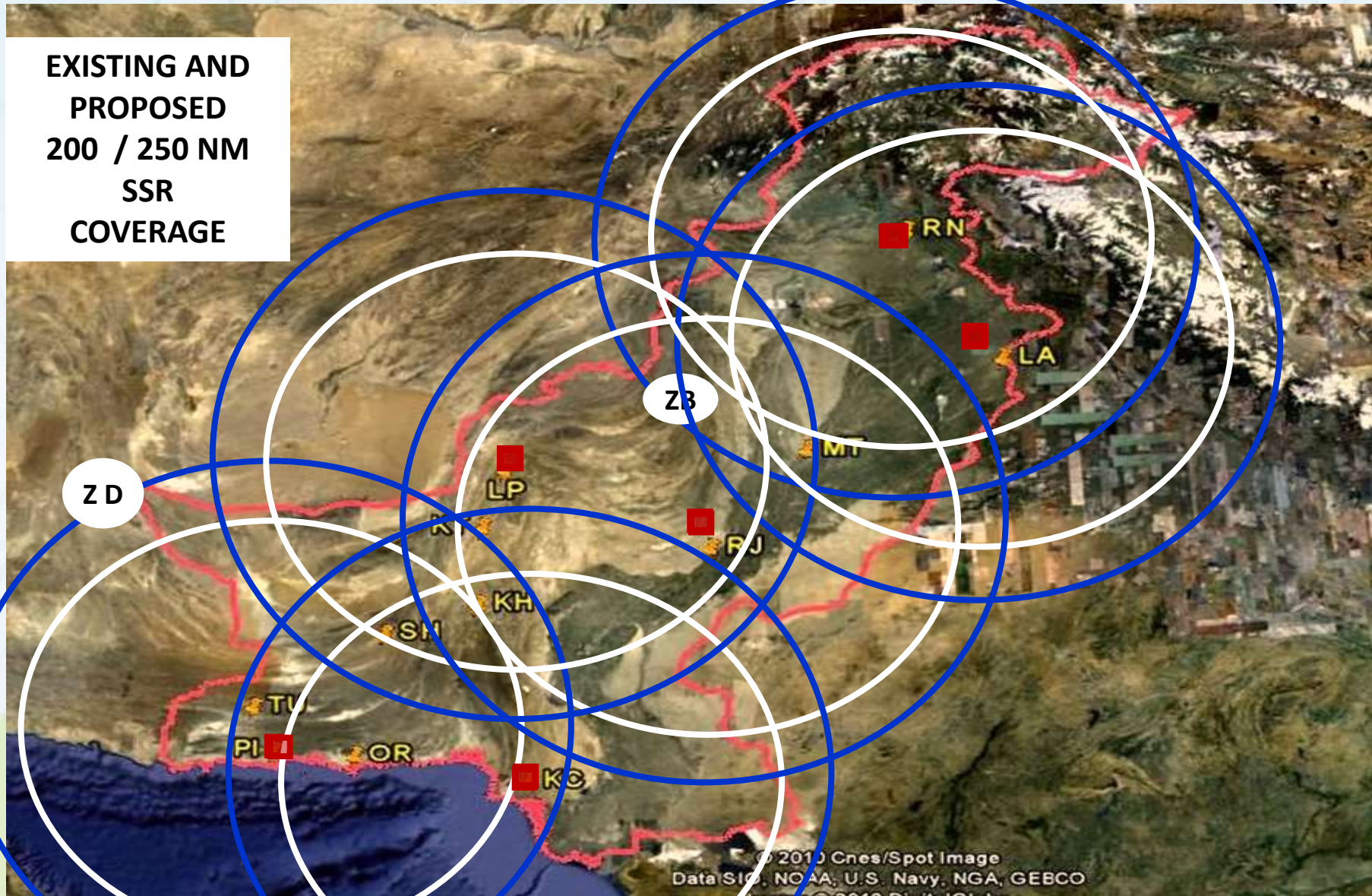


**EXISTING
200 NM SSR
COVERAGE**

**GRAY AREAS IN
GRAY COLOR**
NOT TO SCALE



**EXISTING AND
PROPOSED
200 / 250 NM
SSR
COVERAGE**



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Data SIO, NOAA, U.S. Navy, NGA, GEBCO

State of Aviation in Country

- The 13 international airports require expansion to meet the growing traffic requirements
- To cope up with the growing aviation industry at large, Pakistan is faced with two major challenges
 - Infrastructure
 - Human Resource



State of Aviation in Country

Operational challenges

- Pakistan CAA is undertaking efforts to strengthen its Human Resource to cater to the needs of the dynamic Aviation Industry
- The Civil Aviation Training Institute (CATI) has been modernized with the latest facilities to impart the best possible standards of training to the Aviation Professionals



Infrastructure Challenges

- **Pakistan is constructing green field airports at the following locations:**
 - Islamabad
 - Gwadar
 - Bholari
 - Mansehra
- **Three major areas where Pakistan is undertaking up gradation work are**
 - Passenger terminal buildings
 - Operations facilities
 - Equipments

Infrastructure Challenges

- Up gradation of Main Runway at Jinnah Int'l Airport Karachi for A 380 Operations
- Two Additional Satellites with Allied Infrastructure at Jinnah Int'l Airport Karachi
- New ATC Complex at Jinnah Int'l Airport Karachi



Infrastructure Challenges

- **Rehabilitation of Main Runway at Allama Iqbal Int'l Airport Lahore**
- **Upgradation of Secondary Runway at Allama Iqbal Int'l Airport Lahore for A 380 Operations**



Infrastructure Challenges

- Upgradation of Main Runway at Quetta Int'l Airport for B 777-300 Operations



Infrastructure Challenges

- **Rehabilitation of Main Runway at Faisalabad International Airport**
- **Rehabilitation and Upgradation of Existing Airports at:**
 - **Dera Ismail Khan,**
 - **Bannu,**
 - **Rawlakot and**
 - **Muzaffarabad**

Infrastructure Challenges

- Pakistan is also upgrading the existing facilities at Gilgit & Skardu airports that are located in the midst of mountainous terrain



State of Connectivity

Current direct linkages from major national airports

- **Direct Connections from Pakistan to International Destinations include:**

Asia	Middle East	Europe	Americas
Malaysia, India, Bangladesh, Afghanistan, China, Japan, Thailand	KSA,UAE, Bahrain, Kuwait, Oman, Qatar, Iran	UK, France, Spain, Italy, Germany, Norway, Denmark	USA, Canada

State of Connectivity

Current bilateral or international agreements

- Pakistan has concluded bilateral Air Services Agreements with 98 States
- Division of bilateral Air Services Agreements:
 - Asia/Far East 29
 - Middle East 11
 - Europe 31
 - North America 02
 - Africa 25
- From amongst the CAREC Member States, Pakistan has Air Services Agreements with all CAREC Member States except Mongolia

Aviation Industry in Pakistan

■ Total number of Air Services Agreements (ASA)	98
■ Active ASAs	23
■ Foreign Airlines presently landing in Pakistan	19
■ Foreign airlines over flying Pakistan airspace	92
■ Average over flights daily Pakistan airspace	850
■ Total number of RPT holders	06
■ Total number of Charter operators	20



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Thank You



Қазақстан Республикасының
Транспорт Министрлігі