



NEC Activity in Pakistan

22nd October 2020

Ryuichi Kuwano

Chief Representative

NEC Corporation, Islamabad Branch Office

NEC Corporation

Around **110,000** employees worldwide

About **USD 28.8 Billion** net sales

300 consolidated subsidiaries

Headquarters: **Tokyo, Japan**

121 years of brand success

World's Top 100 **Most Innovative Organizations**

Fortune Global 500 company



Chairman of the Board
Nobuhiro Endo




President & CEO
Takashi Niino

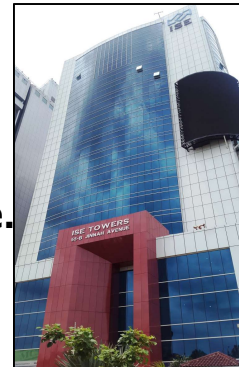


* Data as of March 31, 2020
** World's Top 100 Most Innovative Organizations for 2015 (Reuters)

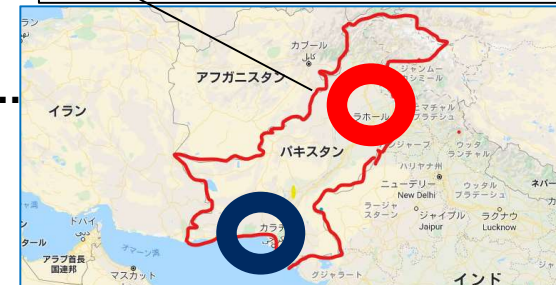
Office in Pakistan

NEC Islamabad Branch Office

- In 1963, Representative Office was established in Karachi and moved to Islamabad in 1973. 
- In 2006, we changed office status to Branch Office.
- Chief Representative is Mr. Ryuichi Kuwano.
- 38 staffs
- Main Business : Telecommunication, IT, Biometric Security
- Main Customer : Telecommunication Carrier (Telenor, JAZZ, etc..) Government Agency (NADRA, etc..)



首都 イスラマバード
イスラマバード支店



※Office Address : G-7, Ground Floor, Islamabad Stock Exchange Towers, 55-B Jinnah Avenue, Blue Area, Islamabad, Pakistan.

Tell number : +92-51 2894 021~025

NEC Business Overview in Pakistan

Supplied System Since 1963

- PSTN Switching Exchange
- Microwave Transmission
- TV/Radio Transmitter

Current Main Business

- IP/Microwave Transmission for Mobile Operator

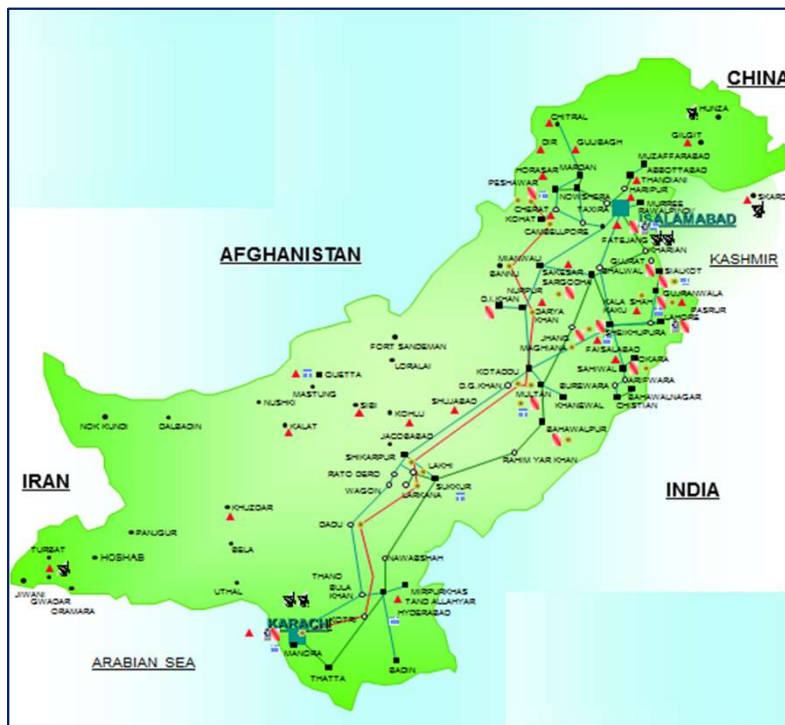


- Security Solution (face Recognition AFIS etc.)/BRT Solution



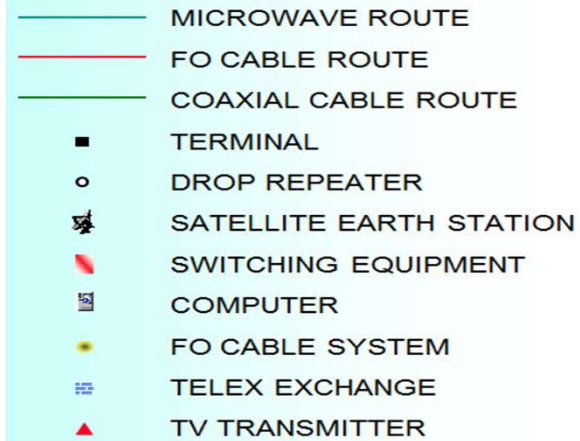
Supply Record

Since 1963, telecom and broadcast infrastructure had been supplied



(Supplied System)

PSTN Switching : 114,000Line
 International Switching : 2 exchange
 Satellite Earth Station : 1 Station
 Optical Transmission : 1,700 km
 Microwave Transmission : 23,000Link
 TV Transmitter : 33TR

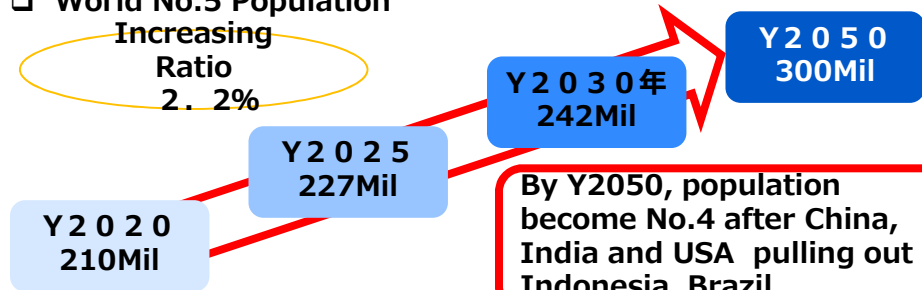


Pakistan ICT Market Trend

- Rapid Population Increase (210Mil-> 300Mil Y2050)
- There are many young generation
- Rapid Digitalization (Digital Pakistan)

Huge Potential Market

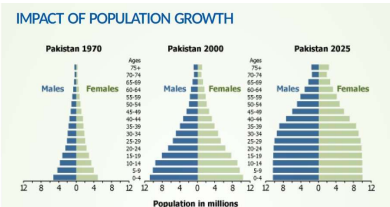
- ❑ World No.5 Population Increasing Ratio 2.2%



By Y2050, population become No.4 after China, India and USA pulling out Indonesia, Brazil.

- ❑ High Young Age Rate

Middle Age 24
 Below 30 is 64%
 This trend will not changed up to 2025



Growing ICT Market



- Digital Pakistan
 - Increase Digital Connectivity :37%->70% (by 2022)
 - Explosion of E-Government
 - Digitalization of Finance/Health/Education/Agriculture
 - Investment of Safe City PJ (By Y2025 Max 700 Mil US\$)
 - Investment for Smart Transportation(BRT)
 - Issuance of 5G License (2022)

World No.1 Biometric technology

8 times
No.1



**Finger print
recognition**

FpVTE (2003,2012)
SFSE (2004)
MINEX(2016,2016)
ELFT (2007)
PFT/PFTII (2009,2013)

Achieved world **No.1**
5 times



Face recognition

MBGC (2009)
MBE (2010)
FRVT (2013)
FIVE (2017)

FRVT2018

Iris recognition
No.1



Iris recognition

IRES IX (2018)
Iris Exchange IX

All are the results of benchmark by the National Institute of Standards and technology (NIST).

Supply Record of NEC Biometrics Solution



**Over 1000 systems in
over 70 countries and regions globally**

Systems for Criminal Investigation,
Immigration Control, National IDs, Entertainment, etc.

Challenge

**Traditional Telecom
Network Business**

**Business Volume/
Profit Rate decrease**

**Expansion of Business
Portfolio(Public Safety)**

**Need "New Blood
(Resource)" for
New Business**

**Invite resource from
market**

Merit for New Business Creation

For “Best of Breed Solution”
There are no “Border”
Easy for Global Business

Excellent IT Resource
(Pre-Sales/Deployment)

High quality Resource with
Special connection
Near Customer



Current Business Expansion

Security

Pakistan Security

NEW Normal Post COVID-19

**Realize Sustainable Business
Based upon biometric and AI Technology
Through solving social subject of Pakistan**

Criminal AFIS
Watch list Detection
Immigration Control
Urban Surveillance

Face Recognition
Fingerprint Recognition
Law Enforcement
Palprint/ vein Recognition
Iris Recognition
Voice Recognition

Airport

Public Safety

Telecom



Urban Surveillance/Security



Surveillance/Security for important facilities

Hawaii Airport Thermal Screening Project

- ✧ **NEC-led** team, 5-airports, 10-year project
- ✧ **Protecting** airport employee, passenger **health & safety**
- ✧ Supporting Hawaii's **economic recovery** during and post **COVID-19**
- ✧ Detecting elevated body temp of **100.4 F or higher**
- ✧ **FDA-approved** infrared cameras

Source:

<https://www.necam.com/newsroom/pressannouncements/2020announcements/HawaiiAirports/>





\Orchestrating a brighter world

NEC brings together and integrates technology and expertise to create the ICT-enabled society of tomorrow.

We collaborate closely with partners and customers around the world, orchestrating each project to ensure all its parts are fine-tuned to local needs.

Every day, our innovative solutions for society contribute to greater safety, security, efficiency and equality, and enable people to live brighter lives.