

NEC's Activity Report in Africa

16 Nov. 2016

NEC Corporation

Chief of Staff, Global Business Planning Division /
NEC Africa (Pty) Ltd. Former President

Masahiro Yoshikawa

NEC Vision

Providing infrastructures for an abundant society for all people via ICT

Be a Social Value Innovator



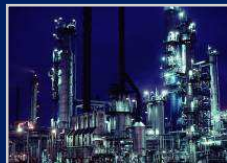
Supporting the Evolution of Worldwide Social Infrastructures through ICT



Energy/
Meteorology



Agriculture



Manufacturing



Distribution



Transportation



Disaster
prevention/
Security



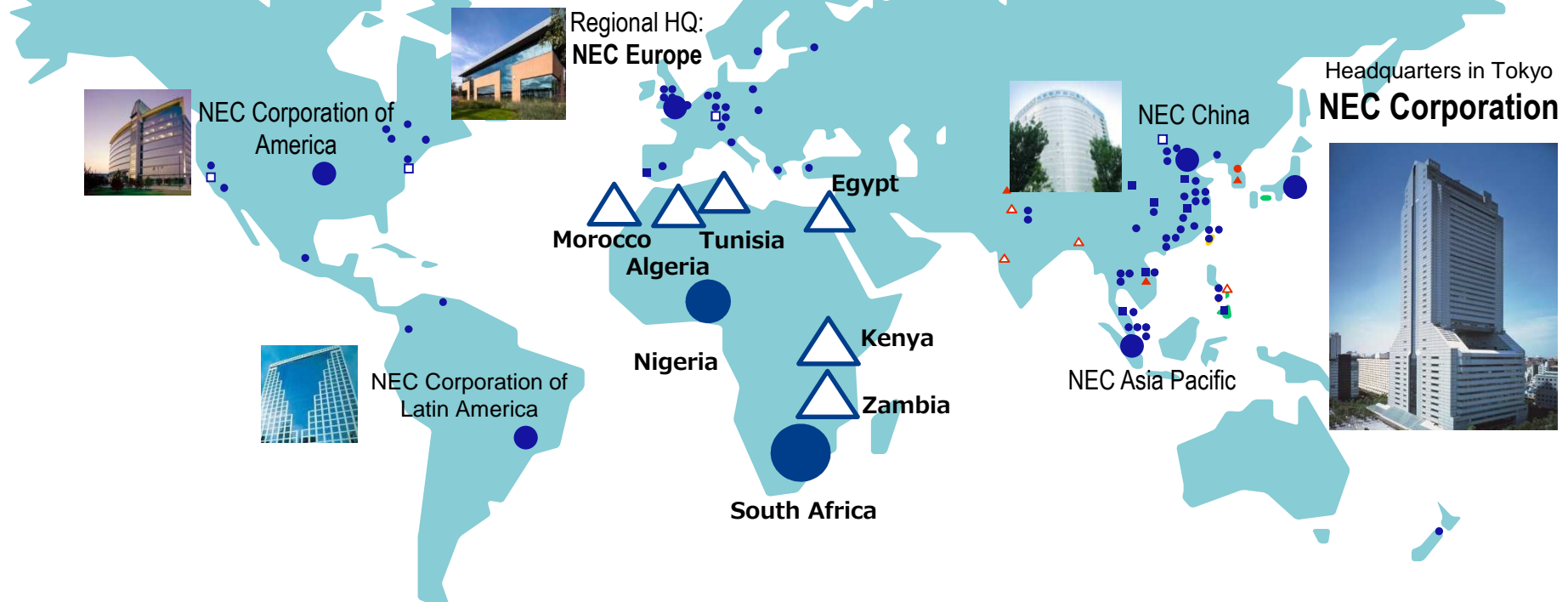
Medical/
Health

Everywhere in the world including Africa

Business activities in over **168** countries and territories

Our affiliates, offices, and laboratories: **79** countries and territories

- Marketing & Service affiliates
- Manufacturing affiliates
- ▲ Liaison Offices
- △ Branch Offices
- Laboratories



NEC in Africa

- | | | | |
|----------------|-----------|-----------|-----------|
| - South Africa | - Nigeria | - Kenya | - Zambia |
| - Egypt | - Algeria | - Morocco | - Tunisia |

Challenges in Africa

1. Safety and Security
2. Social Infrastructures (Water, Energy etc.)
3. Financial Service Availability (Rural area)
4. Slow Process/Services
5. Transparency
6. Human Resources for Industrialization



ICT as
Enabler

- ✓ Safety and Security
- ✓ Digital Access, Renewable Energy, Fintech...

Advanced Urban Video Surveillance

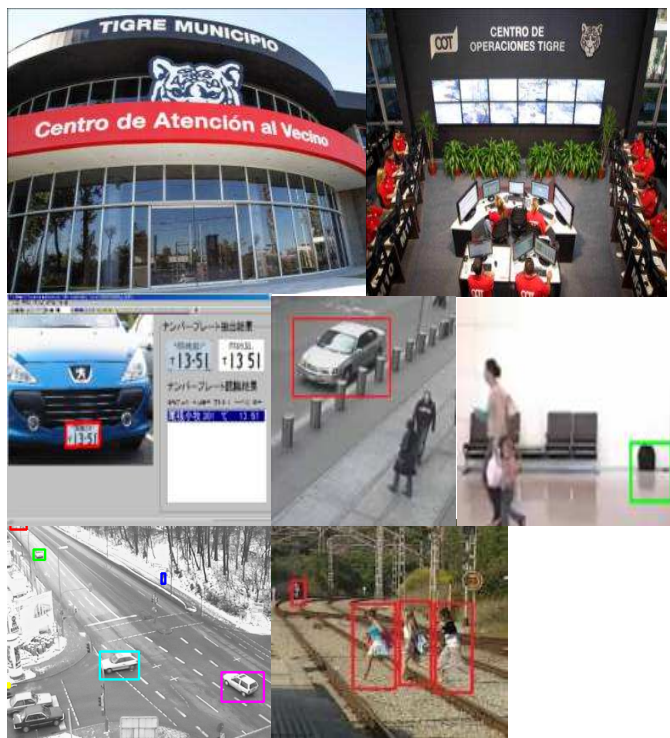
Argentina Case (Tigre City)

✓ **80% decrease in Vehicle theft**

Face
Recognition

Behavior
Analysis

Number Plate
Recognition



India Case (Surat City)

✓ **Crime rate cut by 27%**
✓ **150 criminal cases solved**

Face Recognition

Real-time face matching against watch lists



Forensic Investigation



Biometrics Database for Citizen Services

National ID System in South Africa



- ❑ System is operating since 2001
- ❑ 70 Mil persons Database



Lagos State Resident ID in Nigeria



- ❑ System was implemented in 2014.
- ❑ 10 Mil persons Database



Network Infrastructure for Telecommunication

BroadBand NW is the basis of Smart Society.
NEC supports 20% of Microwave Transmission System
in use in Africa.

Since 1963 - Supply record in 53/54 countries



Public Switching System



Earth Station



Radio/TV Transmission System

Angola Cables SA Submarine SACS Project



Route :Angola-Brazil (6,200km)
System :100Gbps x 100wave x 4FP
Period :22months
Contract:Nov, 2014



Microwave Transmission System

- More than 40 years and 40 countries in Africa.
- Globally more than 153 countries, 2.5M TRs(Units)



Sustainable Energy Supply in Africa

Batteries & Alternative Energies

- Multi-Purpose
Container Type Solution
- Contribution to Education
and Medical Care Sector



Clinic/Telemedicine

School



Power System for Mobile Base Station



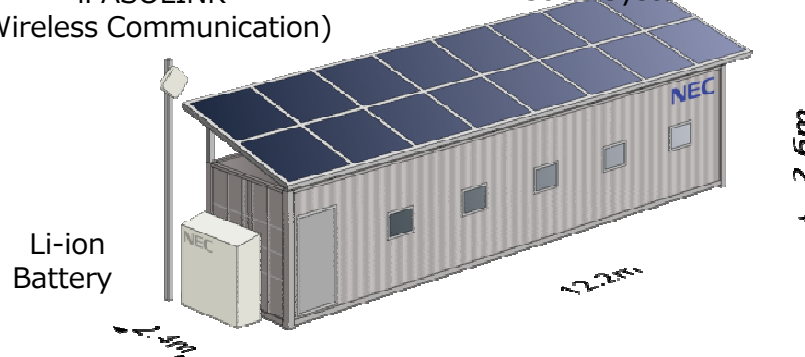
Hybrid power supply system



Li-ion Battery Diesel Generator PV Solar System Intelligent EMS

iPASOLINK
(Wireless Communication)

PV Solar System

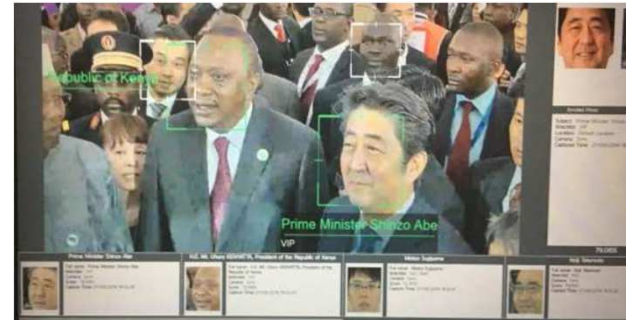


Participation in the “Japanese Public-Private Round Table for TICAD VI”

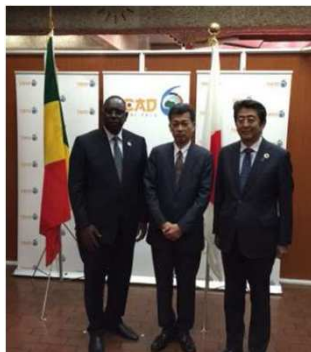
NEC's suggestion to the Round Table

1. “Safe & Secure Society” for sustainable growth
2. ICT contribution to “Quality Infrastructure”
3. Quick and flexible funding scheme
4. Funding scheme for PPP and business operation

Highlights of NEC in TICAD VI



President of Kenya
and PM Abe
experiencing Facial
Recognition System



President of Senegal



President of Rwanda



President of South Africa



World Bank

Collaboration with Public Funding

Enabling sustainable growth through financial support of public funding

Submarine Cable System (Angola Cables SA/SACS Project)

Route :Angola-Brazil (6,200km)
System :100Gbps x 100wave x 4FP
Period :22months
Contract:Nov, 2014



Thermography Camera against Ebola

- Delivered 67sets in 11 countries
- Key: convey local needs properly to Japanese government



Operation at Airport

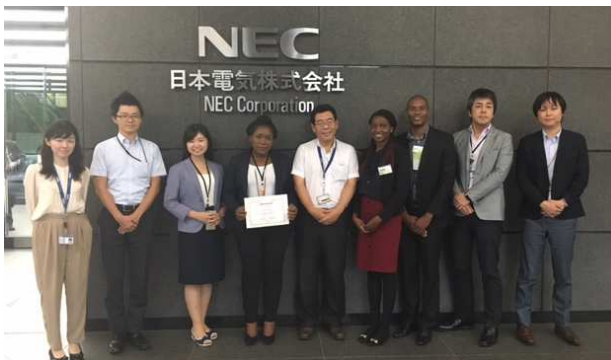


Trial at AU



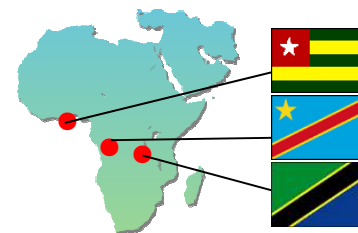
ABE Initiative / TICAD V&VI

- Internship at NEC



Finger Print (UNHCR/UNDP)

- Election Registration
- Refugee Registration



Togo

DRC

Tanzania



At the end : Messrs. Africa Development Bank

- Annual Meeting 2016, held in May in Lusaka, Zambia

- NEC presentation “Enabling sustainable infrastructure through ICT”



NEC Africa (Pty) Ltd.
President and Managing
Director, Eugene le'Roux

For further business development in Africa, your support and guidance are most appreciated. Thank you.



Border doesn't matter

50,000 Elephants live along with Cuando River,
Chobe National Park at northern edge of Botswana and
Mamili National Park of Namibia



**Africa to be a mainstream of the World.
Let us work together!**

An aerial photograph of a city skyline at sunset. The sun is low on the horizon, casting a warm, golden glow over the city and the water. The sky is filled with soft, orange and yellow clouds. The city features numerous skyscrapers and a prominent bridge over a body of water.

Orchestrating a brighter world

世界の想いを、未来へつなげる。