NEC
Corporate Profile

Profile

NEC at a Glance

Establishment

Longstanding relationships of trust with customers

1899

Technological capabilities

Face recognition *6

Fingerprint recognition *7
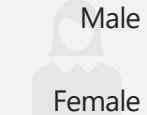
Iris recognition *8

Global **No.1**

Ratio of male and female hires
*1 *2

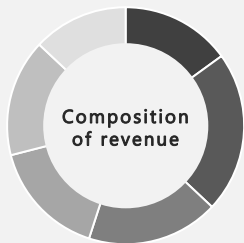Male **73.3** %

Female **26.7** %
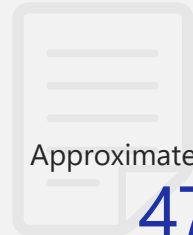
Ratio of female managers
*3

7.8 %

Revenue
*2

Composition of revenue

■ Public Solutions Business	15%
■ Public Infrastructure Business	22%
■ Enterprise Business	18%
■ Network Services Business	16%
■ Global Business	16%
■ Others	13%

28,22 billion USD

Number of patents
*3

Approximately **47,000**
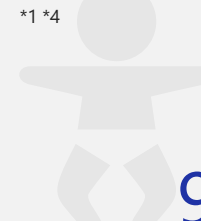
R&D expenses
*2

1.1 billion yen

Ratio of employees returning after childcare leave
*1 *4

97.5 %

Ratio of employees with disabilities
*1 *5
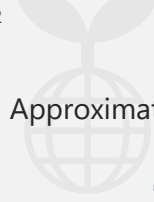
2.38 %

Number of employees
*3

Approximately **110,000**

Inclusion in the CDP Climate Change and Water A List

CDP A LIST 2020 WATER

CDP A LIST 2020 CLIMATE

A List

Rate of contribution to CO2 emission reductions across the whole supply chain
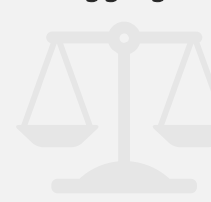*2

Approximately **5.2** times

Number of cases of serious involvement with cartels and/or bid-rigging

0 cases

*1 For NEC Corporation on a standalone basis
*2 Actual results for the fiscal year ended March 31, 2020
*3 As of March 31, 2020
*4 Ratio of employees returning to work who started childcare leave in fiscal 2018
*5 Based on the Act on Employment Promotion etc. of Persons with Disabilities as of June 1, 2020
*6 Ranked 1st five times in benchmark testing held by the U.S. National Institute of Standards and Technology (NIST)
*7 Ranked 1st eight times in benchmark testing sponsored by NIST
*8 Ranked 1st in benchmark testing sponsored by NIST

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Aviation

Satellite

Submarine cable system

Healthcare

Hospitality

Broadcasting

Logistics

Financial

Manufacturing

Retail

Energy

Transportation

Firefighting

Telecom

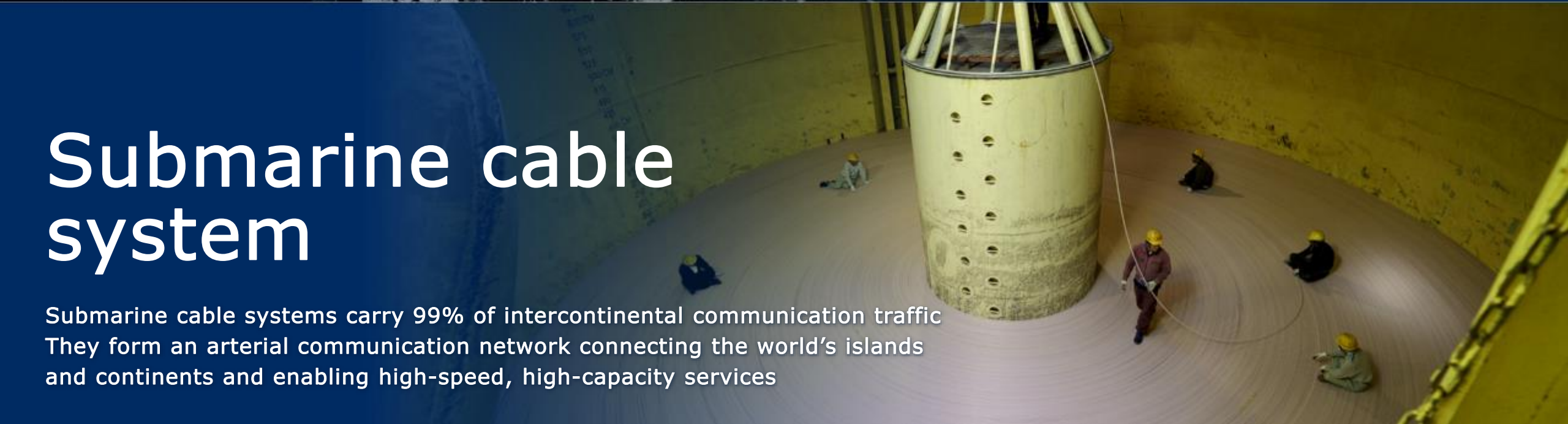Government

Education

From the ocean floor to outer space

Providing extensive value to customers in a wide range of fields, all across the world

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Hayabusa2

Hayabusa2 returns to Earth after a journey of over 5.2 billion km
It successfully collects samples from asteroid Ryugu
that could yield insights into the origins of life

©JAXA

Submarine cable system

Submarine cable systems carry 99% of intercontinental communication traffic
They form an arterial communication network connecting the world's islands
and continents and enabling high-speed, high-capacity services

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Digital Transformation for Society and Daily Life

By supporting safe and secure lives, providing efficient and fair services, and ensuring freedom of mobility, NEC will realize cities where everyone has the chance to reach their full potential, more freely and securely

Digital Transformation for Enterprise and Industry

Utilizing data generated by people and things, NEC will overcome barriers
to solve social issues and create social value in the new normal
Through co-creation across enterprises and industries,
we will realize fulfilling societies

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NEC's world-leading, cutting-edge technologies

Biometric Authentication

No.1

World's best face recognition, iris recognition and fingerprint recognition technologies *1

AI

1800

AI researchers and data scientists

Networks

Supporting the data flows of

100 million
people

*1 According to tests performed by the U.S. National Institute of Standards and Technology (NIST)
(5 times for facial recognition, 1 time for iris recognition, 8 times for fingerprint recognition)

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NEC Business Domains

SMART TRANSPORTATION

SMART CITY AND PUBLIC SAFETY

NETWORK AND ICT

DIGITAL GOVERNMENT

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NEC offers multi-vendor end-to-end solutions with Leading Global ecosystem partners

JUNIPER NETWORKS
2020 Global Partner of the Year

ADVA™
2019 Partner of the Year for African Market

Infinera®
2022 Global Partner of the Year

A10

NEC | **Netcracker** An NEC Company

ACCEDIAN

F⊙RTINET®

Advancing the xHaul journey to the Next Stage

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What NEC can do for

Comprehensive Service Menu for successful transformation

Assessment & Planning
- Network modernization consultation/ assessment service
- Network planning services

Design
- Network design services
- Migration design/ planning services

Implement & Construction
- Implementation services
- Integration & Migration services

Operate & Maintenance
- Maintenance service
- Repair & replace services
- Provisioning transformation services

Optimize
- Network Health check service
- Training services

Global Team of Experts brought together through CoE

Rich global contribution with agility, quality, and flexibility

LATAM CoE

EMEA CoE
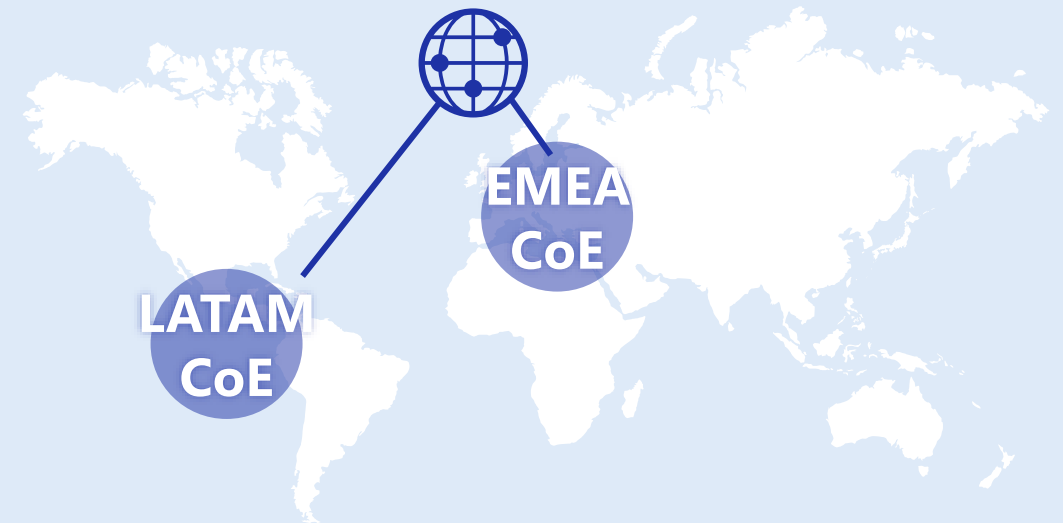
CoE : "Center of Excellence" team in NEC

\Orchestrating a brighter world   NEC

NEC and Juniper Alliance

https://www.fortinet.com/corporate/about-us/newsroom/press-releases/2022/nec-and-fortinet-enter-global-agreement-deliver-high-performance-security-for-5g-networks

NEC

JUNIPER NETWORKS®

NEC contributes with end-to-end capability across business processes, including comprehensive service offering

Business/consultation capability
Analyzing business challenges and guiding transformation in a vendor agnostic manner across multi-domain technologies
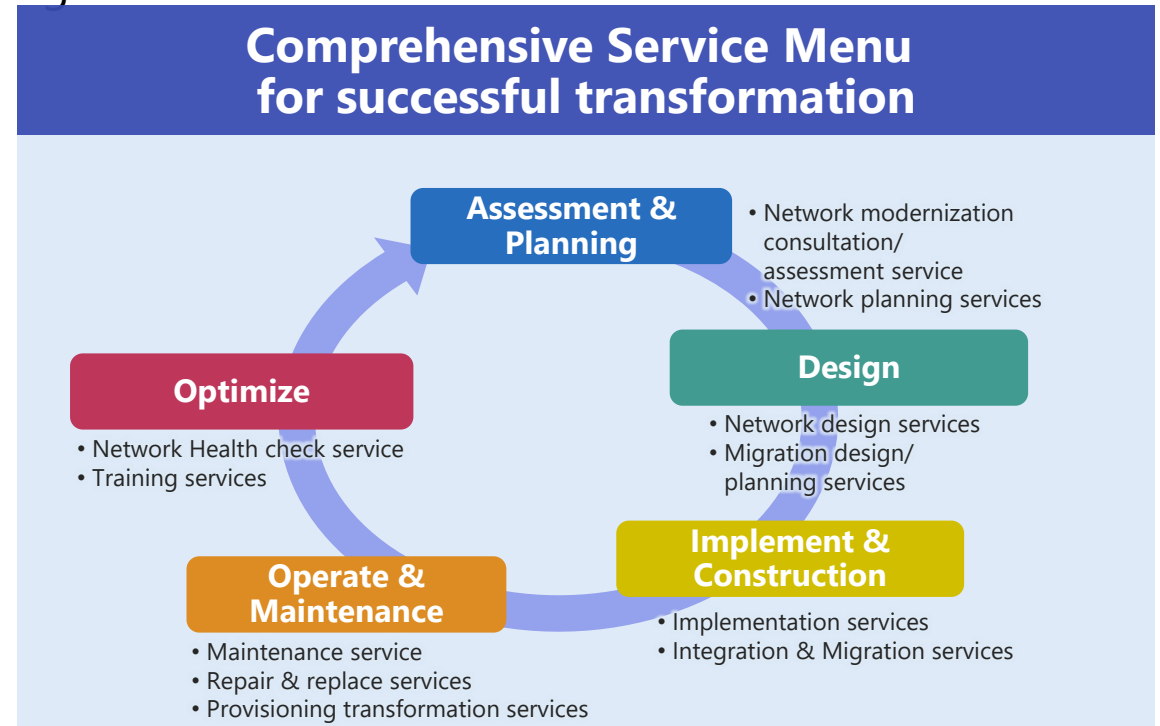
Service capability
Globally accumulated expertise covering the entire service lifecycle

Integration capability
Fit-to-purpose solution with quality, robustly engineered and validated for multi-vendor solutions

Comprehensive Service Menu for successful transformation

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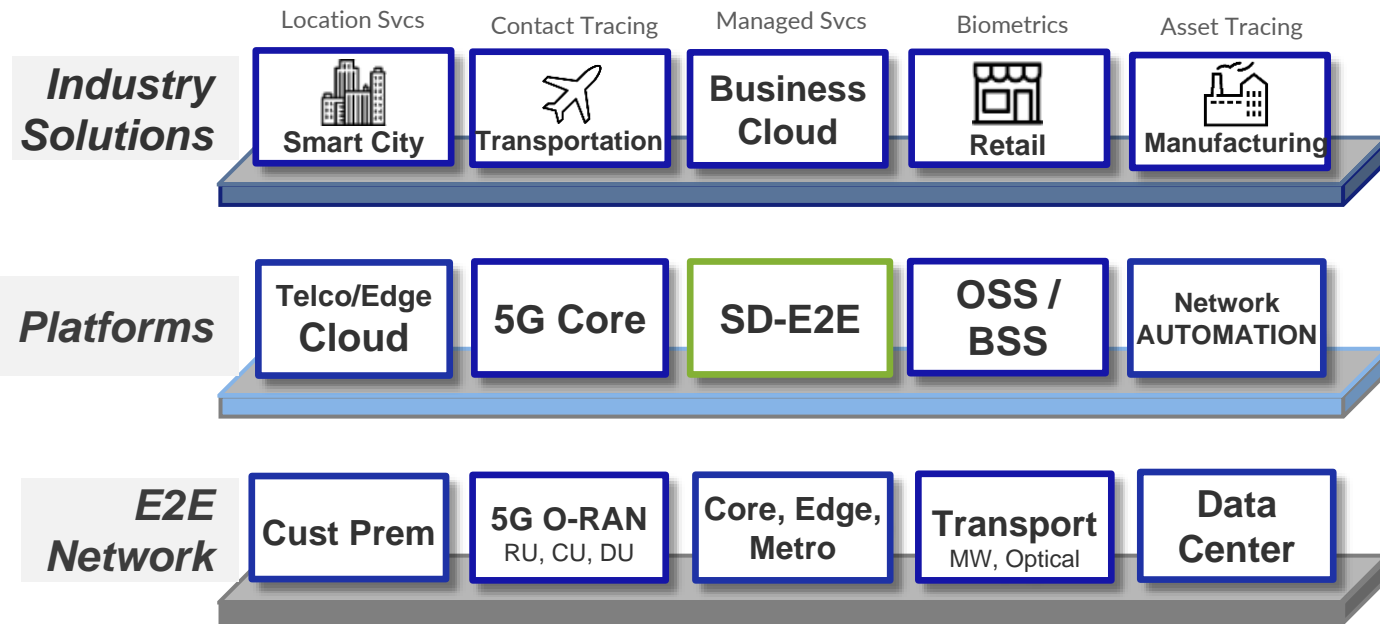\Orchestrating a brighter world   **NEC**

NEC – Juniper: Accelerating Digital Transformation

- With Pre-Integrated, Complementary Solutions

Comprehensive 5G Solutions to build the 5G era together
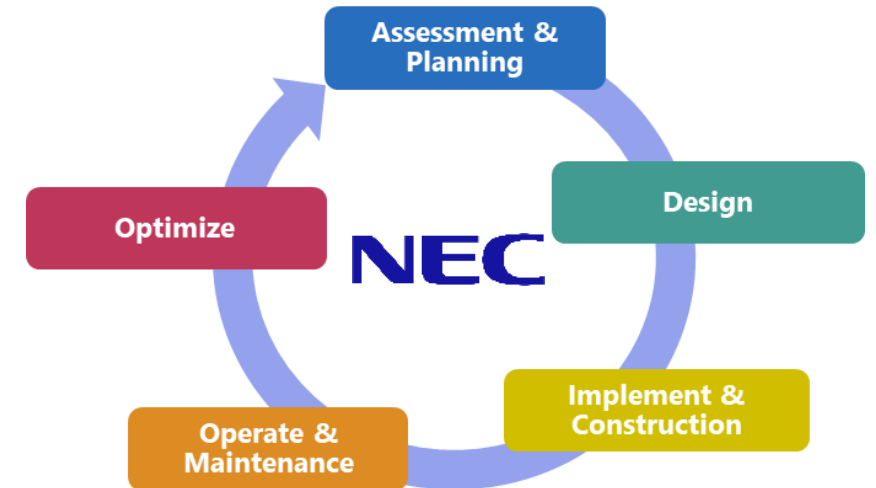
NEC-Juniper 5G E2E Portfolio

Industry Solutions

Location Svcs	Contact Tracing	Managed Svcs	Biometrics	Asset Tracing
Smart City	Transportation	Business Cloud	Retail	Manufacturing

Platforms

| Telco/Edge Cloud | 5G Core | SD-E2E | OSS / BSS | Network AUTOMATION |

E2E Network

| Cust Prem | 5G O-RAN RU, CU, DU | Core, Edge, Metro | Transport MW, Optical | Data Center |

☐ = JUNIPER NETWORKS   ☐ = NEC

Integrated by NEC Services

- Comprehensive Service Menu
- Engineered by Experts with rich Global Experiences
- Fuelled by Automation

Assessment & Planning
Design
Implement & Construction
Operate & Maintenance
Optimize
NEC

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NEC SAFER & SMART CITIES

NEC OFFER END-TO-END SMART&SAFER CITY SOLUTIONS

Fingerprint, Face, Iris

Integrated intelligent Transport system

Cashless Payment

\Orchestrating a brighter world   NEC
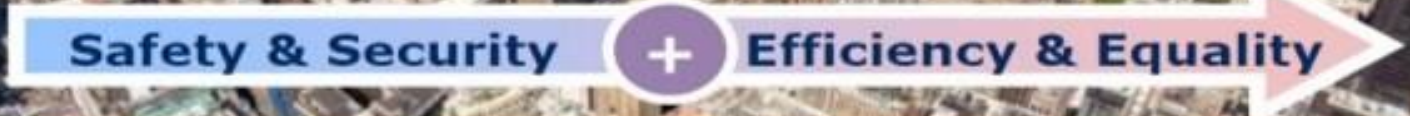
DIGITAL X TRANSFORMATION PARTNERS& SOLUTIONS

Telecom & IT

- JUNIPER
- ADVA
- FORTINET
- INFINERA
- NETCRACKER
- NEC HPC
- NEC ASPIRE
- NEC FIBER SENSING
- NEC SUBMARINE
- NEC ENTERPRISE PBX
- NEC SHARP DISPLAY

Digital Government

- NEC CIVIL AFIS
- E-SIGNATURE
- LOCAL PARTNERS
- E-GOVERNMENT OPEN PLATFORM
- DATA CENTER
- APPLICATIONS & MIDDLEWARE SUPPLIERS

Smart & Safer City

- NEC FACE & AFIS
- SMART CITY AI & IoTs
- SURVEILLENCE/ ANALYTICS
- HOSPITAL & SAFER CITY SOLUTIONS

Digital Finance

- PAYMENT PLATFORM
- BANK GATEWAY
- NEC AVALOQ

Bus Transport& Payment platform

- CLEARING HOUSE
- WEB MOBILE APPLICATION
- AVL
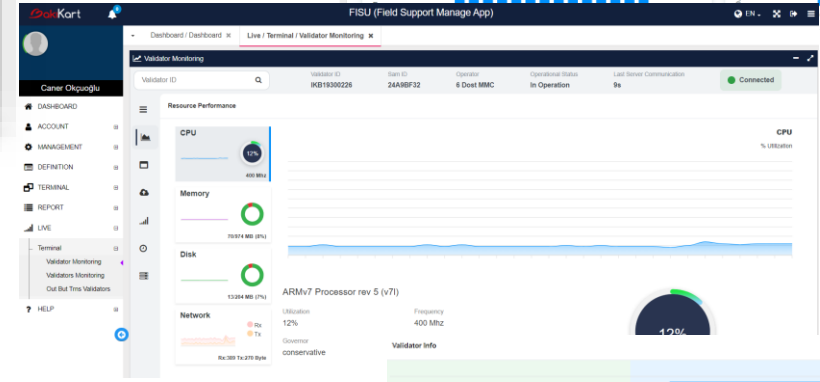- E-TAXI APPLICATION
- NFC/QR/CREDIT CARD
- E-PARKING
- E-BIKE
- AFC BACKEND
- SMART CITY IOT PAYMENT

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NEC PAYMENT PLAFTORM FOR SMART TRANSPORT USE CASES

CASMA (AFC)

AVL

CUSE

PARMA

FISU

MOBILE/WEB APP

END POINTS SOFTWARE

CLEARINGHOUSE

ADVERTISEMENT MANAGEMENT

SMART REPORTING

Automated Clearing House

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NEC PAYMENT PLAFTORM
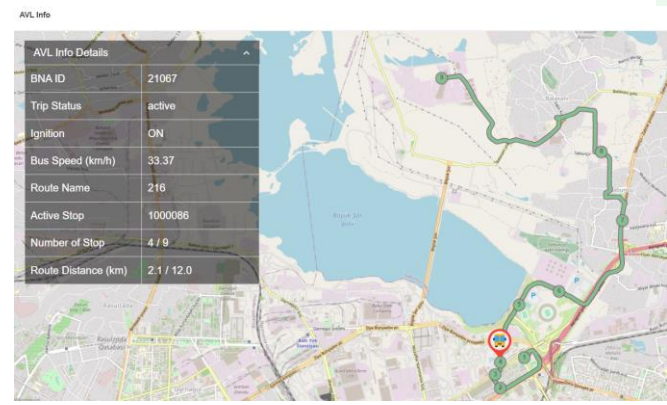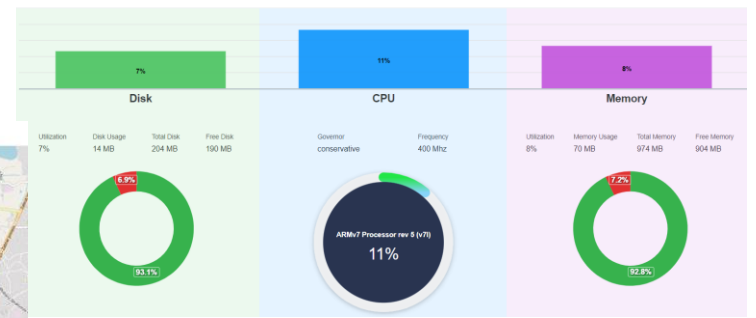
Back End

| Mobile APP | WEB APP | Mobile APP | WEB APP |

CASMA
Central AFC System Management APP

PARMA
Partner Management APP

FISU
Field Support APP

CUSE
Customer Services APP

Action List
(Block/Unblock/Recharge)
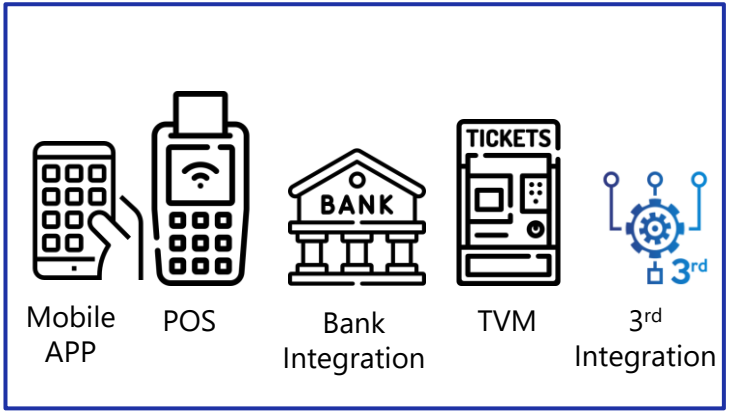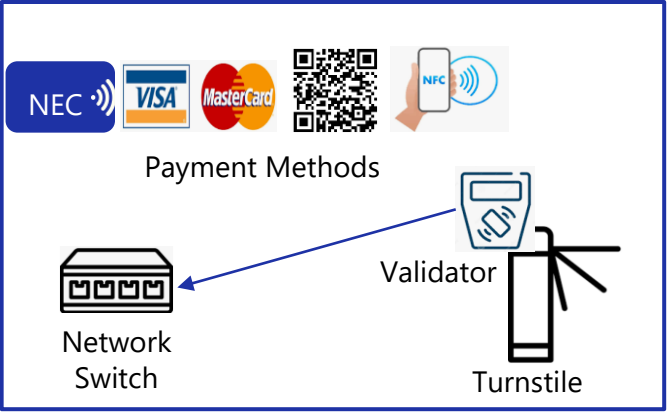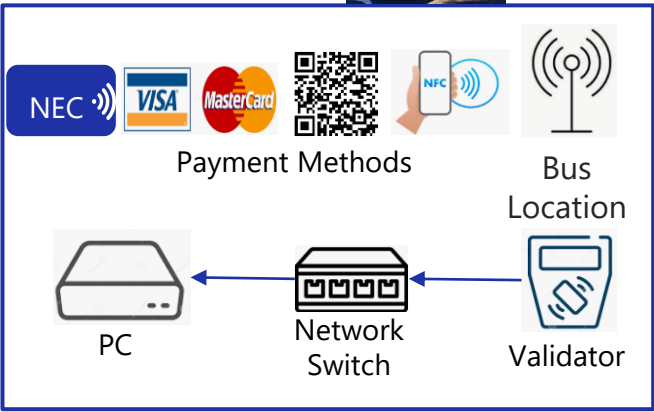- **Remote SW Update**
- **Fare Information**
- **Route Detail**
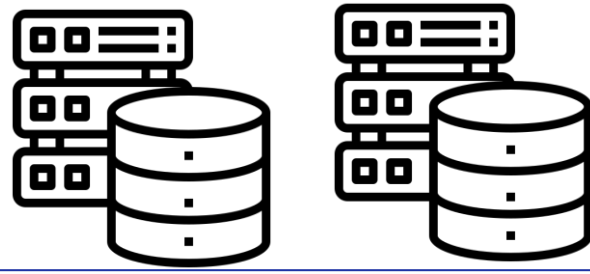
- Clustering
- High Scalability
- High Performance
- High Level Security

- **Secure Financial Transaction**
- **Health Check Information**
- **Non-Financial Transaction**

Secure Network

Others

Front End

NEC VISA MasterCard

Payment Methods

Bus Location

PC

Network Switch

Validator

NEC VISA MasterCard

Payment Methods

Validator

Network Switch

Turnstile

Mobile APP

POS

Bank Integration

TVM

3rd Integration

Electrical Bicycle

- Sunlight readable
- Solar Power
- Wireless Connection
- Full Protected
- Central Manageable
- Easy Installation

40 km/s max. speed

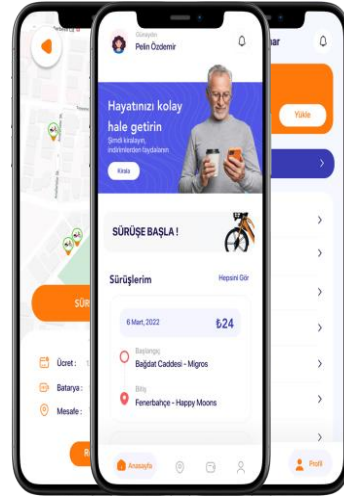Replaceable **battery**

Headlight, tail and brake light

90 km range

Advertisement Management

- Prime Time Management
- Video, Audio, Picture and Scrolling Banner
- Route based, Bus or Bus Group, Merchant based, Location based Advertisement
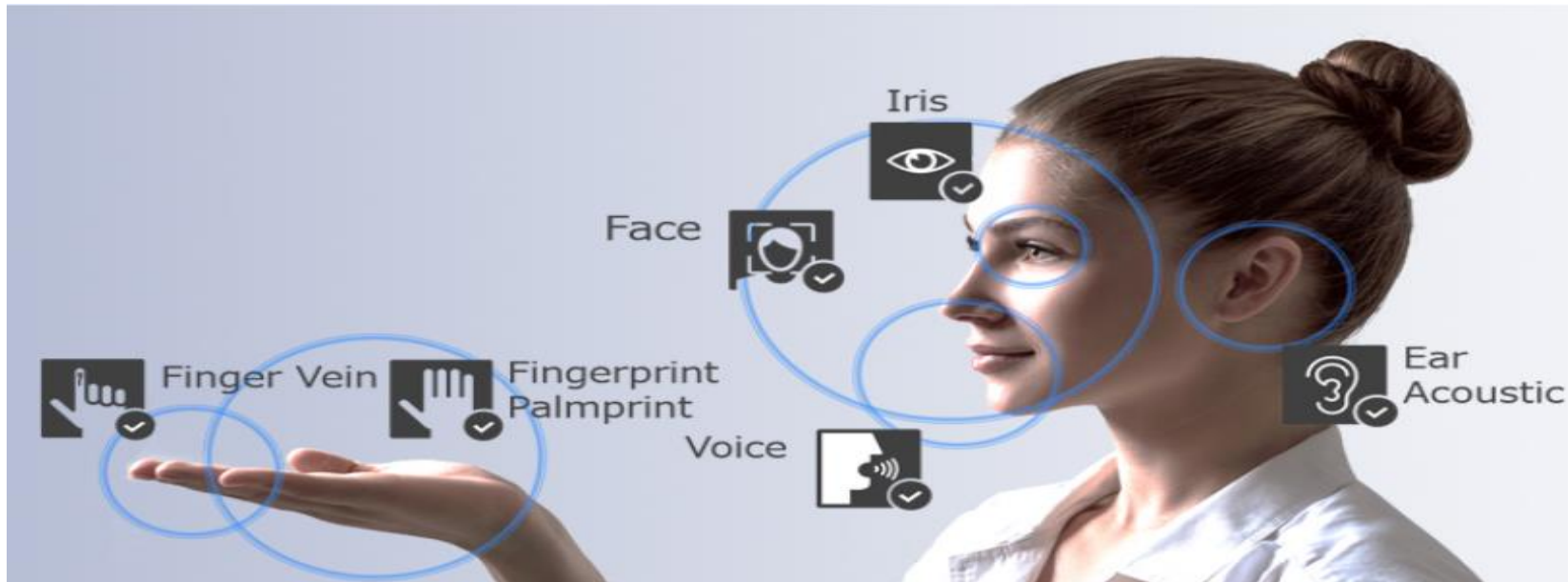- Flexibility for Advertisement
- Powerful End User Reports

Bus Stop Management

- One Wallet for ALL
- Integrated Platform
- Various Transport Types
- Single Management
- Green Transportation

\Orchestrating a brighter world NEC
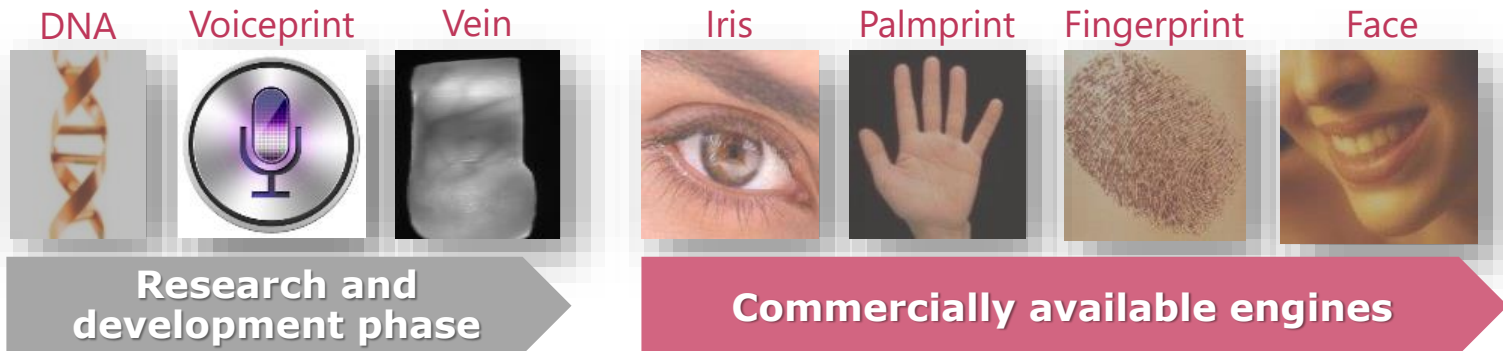
Biometric Solutions

NEC has been conducting R&D of Fingerprint Recognition technology for about 50 years since it began research in 1971. NEC is further enhancing biometric authentication by advancing technology and developing multimodal systems. It is also expanding its range of use to daily life scenarios.

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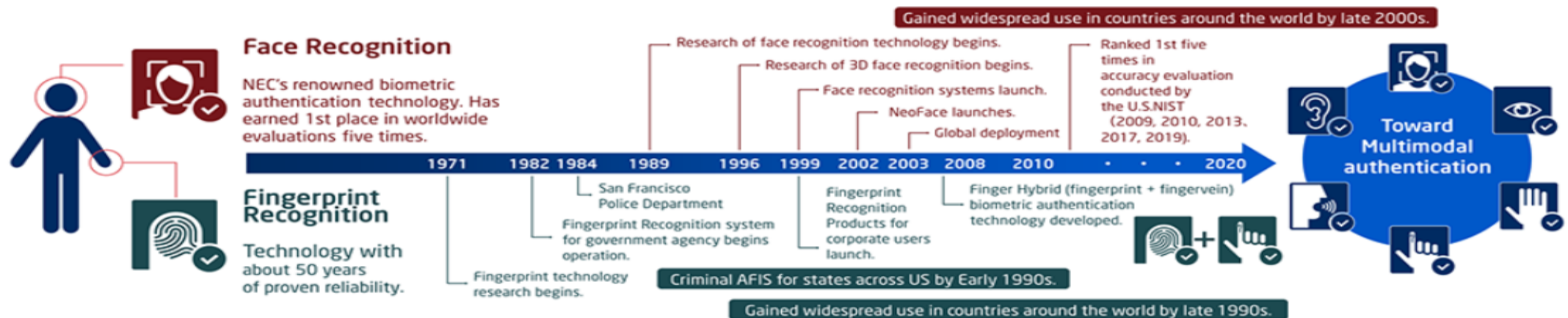
NEC DIGITAL GOVERNMENT SOLUTIONS

◆ **National ID**

◆ **Multi Biometric Identification System**

◆ **Electronic Document Management System**

◆ **E-Government and Digital Services**

DNA | Voiceprint | Vein | Iris | Palmprint | Fingerprint | Face

Research and development phase

Commercially available engines

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NEC