

\Orchestrating a brighter world

NEC

Orchestrating a brighter world

~Co-creating the future through digital transformation~

2nd of March, 2018

NEC Executive Vice President

Norihiko Ishiguro



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.



UK & NEC

20th, September 2017

NEC Corporation



Group companies

238



Established

1899



Employees

107,729



Net sales

£ 18 billion



- 9th, January 2018
- Northgate Public Services Limited
- £ 475M

Aim to realize **NEC Safer Cities** leveraging biometrics and AI technologies

Public Safety

Digital Government

Smart Transportation ...



Safety & Security

+

Efficiency & Equality

History of NEC's Face Recognition Technology

- 1963 Start character recognition technology R&D
- 1989 Start face recognition R&D
Application of pattern recognition technology established through character recognition R&D
- 2002 Commercialize face recognition SDK "NeoFace"
- 2009 Rank No.1 in NIST*¹ Evaluation
3 consecutive wins in Still Image Matching
- 2013 2009(MBGC*²), 2010(MBE*³), 2013(FRVT*⁴)
- 2017 Newly rank No.1 in Video Face Recognition Evaluation
NIST Face in Video Evaluation (FIVE*⁵)

2017
NIST FIVE
No.1



Video
Face Recognition

Evaluation under various environmental conditions

1963
Character
Recognition
R&D

1989
Face
Recognition
R&D

2009 2010 2013
NIST
Evaluation
3 Consecutive
Wins



Still Image
Matching



*1 US Institute of Standards and Technology
*2 MBGC (Multiple Biometric Grand Challenge)
*3 MBE (Multiple Biometrics Evaluation)
*4 FRVT (Face Recognition Vendor Test)
*5 FIVE (Face In Video Evaluation)



Airports

Washington Dulles International Airport



Support the safe and efficient operations of major U.S. international airports



Events

South Wales Police



NeoFace



Real-time matching with watch list Ensuring safety of stadiums

Vehicle thefts decreased by

80%



Increase in tourist income

300%





Bristol City Operation Centre



2020 Tokyo

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