

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.



NEC Corporation



Group companies 238



Established

1899



in 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

Digital Smart Public Safety Government **Transportation** Prevention of identity theft Fingerprint **Detection of** National ID **Criminal fingerprint** fraud matching **Educational Government** Face Driver's License institutions agencies buses Police, public safety, judiciary Watch list face Trends analysis recognition Ø 9 Palm print Urban surveialInce **Transportation Immigration** Safety Security Efficiency Equality IC card Event control forecasting Urban Railwavs surveillance Improvement of Voice print citizen services **Healthcare Public** services housing Otoacoustic **Safety & Security Efficiency & Equality**

History of NEC's Face Recognition Technology

1963	Start character recognition technology DOD
1903	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)



Evaluation under various environmental conditions

1963 Character Recognition R&D

1989 **Face** Recognition R&D

2009 2010 2013 **NIST Evaluation** 3 Consecutive **Wins**



Matching



*1 US Institute of Standards and Technology

Face Recognition

*2 MBGC (Multiple Biometric Grand Challenge)

*3 MBE (Multiple Biometrics Evaluation)

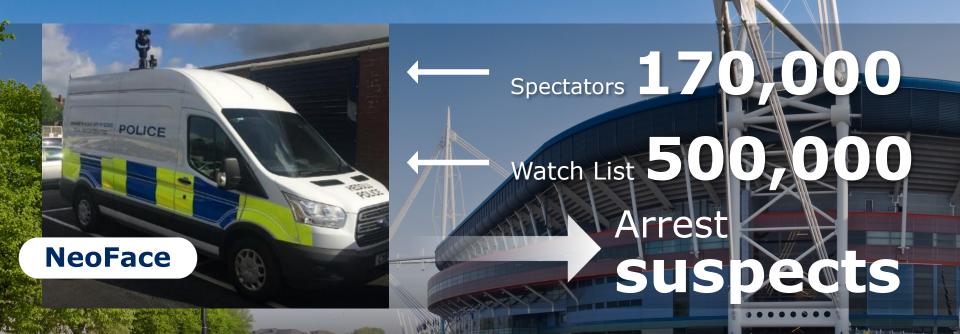
*4 FRVT (Face Recognition Vendor Test)

*5 FIVE (Face In Video Evaluation)





South Wales Police



Real-time matching with watch list Ensuring safety of stadiums



Argentina Tigre







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