Fast Travel Initiative at Narita Airport

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1. Introduction

2. OneID
1–1. Aviation Travel Market Forecast

Global Outlook for Air Passenger Traffic
(Average annual growth rate: 2018 – 2037)

Europe +3.8% p.a.
1,910 → 4,004

Middle East +6.0% p.a.
736 → 2,371

Asia-Pacific +5.3% p.a.
2,474 → 6,996

North America +3.2% p.a.
1,782 → 3,325

Africa +3.8% p.a.
171 → 361

Latin America +4.8% p.a.
1,051 → 408

Worldwide +4.5% p.a.

Legend
Units: 1 billion pax x km

2017 Pax traffic (Actual)
2037 Pax traffic (Forecast)
Avg. growth rate p.a for period

(Source: Japan Aircraft Development Corporation)
1–2. Tourism Strategies

Tourism Vision

No. of Visitors to Japan

2020: 40 million pax
(Double the figures of 2015)
2030: 60 million pax
(Triple the figures of 2015)

Tourism Consumption

2020: 8 trillion yen
(More than double the figures of 2015)
2030: 15 trillion yen
(More than quadruple the figures of 2015)

*Larger than the value of Japan’s car exports
(in FY2015: 12 trillion yen)

Nominal GDP of 600 Trillion Yen
(2015 nominal GDP: 500 trillion yen)
1-3. Airport Share

Int'l Passengers

- NRT: 35.4%
- HND: 18.2%
- KIX: 22.6%
- Others: 23.7%

Int'l Cargos

- NRT: 55.3%
- HND: 13.2%
- KIX: 20.0%
- Others: 11.6%

2017: ACI Worldwide Airport Traffic Report
1–4. Issues Facing Narita Airport

- **Congestion**
  - 【Long Waiting Time】

- **Security**
  - 【Terrorism Thread】
1–5. Cause of the Issues

① Physical Spaces → New Terminal or Large Scale of Refurbishment

② Terminal Space Allocation → Regulation, SOP

③ Terminal Facility Assignment → Check-in Assign Rules, Counter Rental Charge System

④ Fast Travel Implementation → Policy, Strategies

⑤ Passenger Flow Management → Monitoring, Involvement

FAST TRAVEL ～Optimizing Terminal Capacity～
1–6. Smart Check in ~Fast Travel Initiatives~

- Off-airport check in (advance online check-in)
- Wayfinding
- CUSS Allocations
- Self Bag Drop
- Smart Security
  - Improve Airside Environment

Strategic Targets
- Check in
  - 7 min (Self-Service)
  - 20 min (Conventional)
- Security
  - 10 minutes
1–7. Wayfinding

Terminal 1’s South Wing

Before

After
1–8. CUSS Reallocations

Terminal 1 and Terminal 2

Before

After
1–9. Self Bag Drop Trials

T1’s North Wing Trials

Waiting Time

【Before】
Conventional
13 mins (7 booth)

【After】
Self Bag Drop
8 mins (2 booth)
6 mins (4 units)
1–10. Self Bag Drop Installation

72 Units by 2020

Equipment: ICM Airport Technics Series 7 (made in Australia)
1–11. Smart Security

Key benefits of Smart Security

- Strict Screening
- Throughput
- Staff Resources
- Improved Passenger Experience
1–12. Standard Operating Procedures (SOP)

Development of Queuing SOPs in Terminal 2

(Before) → (After)
1–13. Passenger Flow Management (PFM)

- Real-time monitoring
- Effective Human Allocation
- Effective Facility usages
- Optimizing Operational Management
1. Introduction

2. OneID
2-1. Facial Recognition Technology
2-2. World Facial Recognition Projects

Principle Airports in the US

US Biometric Exit Program

- Atlanta
- Orlando
- San Francisco
- San Diego
- Seattle
- Chicago O’Hare
- Dallas Forth Worth
- Detroit
- New York JFK
- Fort Lauderdale
- Houston
- Miami
- Las Vegas
- Los Angeles
- Washington Dulles
- Washington Reagan

Airport-led initiative

Government-led initiative

Joint public-private initiative

Proving trials completed

One ID fully operational

Proving trials underway

- Atlanta
- Orlando
- San Francisco
- San Diego
- Seattle
- Chicago O’Hare
- Dallas Forth Worth
- Detroit
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2–3. OneID Process Image

At the first airport touch point, passenger’s passport and departing flight information is correlated to facial data.

With the Facial recognition, no need to provide identity over and over.

**Implementation Schedule**
- Spring 2020 (actual date to be announced later)
- Number of units to be deployed and other detail will be announced later

**Deploying Passenger Terminals and initial participating airlines**
- Terminal 1, South Wing
- Terminal 2

* Participating airlines and deploying terminals and wings will expanded in phases.
2-4. Narita Airport One ID Project Concept

- **Multivendor**
  - Flexibility, Expandability

- **Common Use**
  - Involve more Airlines

- **Seamless**
  - Walk Through
2–5. Challenges for One ID

Privacy Protection

Schedule

Cost Coverage
2–6. Potential of One ID

~End to End Travel Experience~