Taoyuan Airport Forum 2019:
Smart Airports – a global perspective

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ACI Asia-Pacific

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ACI Membership & Regional Offices

- 646 members operating 1960 airports in 176 countries and territories
- **Asia-Pacific**: 113 members, 600 airports in 49 countries/territories

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**ACI World**: Montreal, Canada

**ACI Europe**: Brussels, Belgium

**ACI North America**: Washington DC, USA

**ACI Asia-Pacific**: Hong Kong

**ACI Latin America-Caribbean**: Panamá

**ACI Africa**: Casablanca, Morocco

*Figures as of September 2019*
Airport Traffic & Capacity (2018 figures)

**AIR TRAVEL CONTINUES TO EXTEND ITS REACH THROUGH RISING INCOMES AND AFFORDABLE CHOICES**

<table>
<thead>
<tr>
<th>PASSENGER TRAFFIC</th>
<th>2018: 8.8B passengers</th>
</tr>
</thead>
<tbody>
<tr>
<td>+8.1% Asia-Pacific</td>
<td>3.3 billion</td>
</tr>
<tr>
<td>+6.4% Europe</td>
<td>2.4 billion</td>
</tr>
<tr>
<td>+5.0% North America</td>
<td>2 billion</td>
</tr>
<tr>
<td>+5.0% LATAM-Carribean</td>
<td>651 million</td>
</tr>
<tr>
<td>+0.7% Middle East</td>
<td>396 million</td>
</tr>
<tr>
<td>+9.4% Africa</td>
<td>214 million</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>AIR CARGO</th>
<th>2018: 122.7M metric tones</th>
</tr>
</thead>
<tbody>
<tr>
<td>+3.0% Asia-Pacific</td>
<td>48.5 million</td>
</tr>
<tr>
<td>+5.1% North America</td>
<td>34.7 million</td>
</tr>
<tr>
<td>+2.0% Europe</td>
<td>21.9 million</td>
</tr>
<tr>
<td>-1.4% Middle East</td>
<td>9.2 million</td>
</tr>
<tr>
<td>+7.9% LATAM-Carribean</td>
<td>5.8 million</td>
</tr>
<tr>
<td>+9.6% Africa</td>
<td>2.5 million</td>
</tr>
</tbody>
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<table>
<thead>
<tr>
<th>AIRCRAFT MOVEMENTS</th>
<th>2018: 99.9M aircraft movements</th>
</tr>
</thead>
<tbody>
<tr>
<td>+1.8% North America</td>
<td>33.4 million</td>
</tr>
<tr>
<td>+6.5% Asia Pacific</td>
<td>26.5 million</td>
</tr>
<tr>
<td>+2.8% Europe</td>
<td>25.2 million</td>
</tr>
<tr>
<td>+0.7% LATAM-Carribean</td>
<td>8.6 million</td>
</tr>
<tr>
<td>+4.2% Africa</td>
<td>3.2 million</td>
</tr>
<tr>
<td>-1.4% Middle East</td>
<td>3.1 million</td>
</tr>
</tbody>
</table>
Projected Regional Contribution to International Passenger Traffic Growth 2017 - 2040

- **North America**: 9.0%
- **Latin America Caribbean**: 7.0%
- **Middle East**: 12.7%
- **Africa**: 2.6%
- **Europe**: 26.0%
- **Asia-Pacific**: 42.8%
SITA 2018 Airport IT Trends Survey highlights

Airport Efficiency – SITA IT Trends Survey

IT spend in % of revenue:
- 2016 (Actual): 1.94%
- 2017 (Actual): 2.45%
- 2018 (Planned): 2.7%

IT spend in US$:
- 2016 (Actual): 4.39 US$BN
- 2017 (Actual): 5.14 US$BN
- 2018 (Planned): 8.6 US$BN

- Estimated value of IT spend
- Total IT spend
- Operating IT spend
- Capital IT spend

SITA 2018 Airport IT Trends Survey highlights
2018 AUTOMATED PASSENGER ID MANAGEMENT ACTIVITIES

- **Enrolment at the airport**: 42% implemented, 58% planned
- **Self check-in**: 26% implemented, 74% planned
- **Self bag-drop**: 30% implemented, 70% planned
- **Airport security**: 32% implemented, 68% planned
- **Self boarding gates at departure**: 36% implemented, 64% planned
- **Automated self-service transfer gates**: 48% implemented, 52% planned
- **Self-boarding gates using biometric and travel documents**: 41% implemented, 59% planned
- **Self-boarding gates using biometric only**: 48% implemented, 52% planned
- **Secure single biometric token for all touch-points**: 53% implemented, 47% planned
- **Self boarding gates at arrival**: 42% implemented, 58% planned

*SITA 2018 Airport IT Trends Survey highlights

% of airports with implemented or planned ID management solutions by 2021.

By end of 2021
**No Plans**
NEXTT (New Experience Travel Technologies)
PASSENGER: to build a journey that is seamless, secure and efficient

BAGAGAGE: freedom for baggage to create a hassle free passenger journey

CARGO: make air cargo easier, smarter and faster

AIRCRAFT: predictable, safe and fully coordinated aircraft turnaround processes
NEXTT Concepts – A vision for the future

Moving more off-airport

Using advanced processing technology

Harnessing interactive decision-making

For more details: [www.aci.aero/nextt](http://www.aci.aero/nextt)
ACI’s **Airport Community Recommended Information Services**, known as ACRIS, sets the standard for information and data exchange in the aviation community helping airports meet the demands of today and the future.
Smart Security

There’s got to be a better way!

Effective
Efficient
Convenient
Smart Security

- Strengthen Security
- Increase Operational Efficiency
- Improve Passenger Experience

secure

efficient

seamless
Advanced Technology
Checkpoint Environment
Process Re-engineering

- Centralized Image Processing (CIP)
- Parallel or Serial Baggage Loading
- Automatic Tray Return
Cybersecurity Threats
Beyond the industry
Aviation’s global employment and GDP impact

<table>
<thead>
<tr>
<th>JOBS</th>
<th>GDP</th>
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<tbody>
<tr>
<td>65.5 million</td>
<td>$704.4 billion</td>
</tr>
<tr>
<td>36.7 million</td>
<td>$454.0 billion</td>
</tr>
<tr>
<td>7.8 million</td>
<td>$637.8 billion</td>
</tr>
<tr>
<td>10.8 million</td>
<td>$896.9 billion</td>
</tr>
<tr>
<td>10.2 million</td>
<td>$2.7 trillion</td>
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</tbody>
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Tourism catalytic
Induced
Indirect
Aviation direct
Thank you

www.aci-asiapac.aero
www.aci.aero