ATM Research in the Global Perspective

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Demands on ATCO
Limitations of Infrastructure

Traffic by airline domicile (trillion RPKs)

<table>
<thead>
<tr>
<th>Region</th>
<th>2016 traffic</th>
<th>2017-2036 traffic</th>
<th>Share of 2016 RPKs</th>
<th>20-year CAGR</th>
<th>Share of 2036 RPKs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Asia-Pacific</td>
<td></td>
<td></td>
<td>30%</td>
<td>5.6%</td>
<td>38%</td>
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</tbody>
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CAAS
ATM enabled by Artificial Intelligence
Trends

CONFLICT DETECTION & RESOLUTION

CONTROLLER – PILOT VOICE COMMUNICATIONS

SMART DIGITAL TOWER
AI agent on Conflict Resolution Strategies of ATCOs

Visualisation of AI model applied to a sector
AI agent on
Conflict Resolution Advisory

Conflict Detection and Resolution Tool
Collaboration

Centre of Excellence for Air Traffic Management
Thank you