PROSPECTIVE VISION FOR
O.R. TAMBO INTERNATIONAL AIRPORT
SOUTH AFRICA
Who is ACSA (Airports Company South Africa)
OR Tambo International Airport

Johannesburg International Airport was renamed OR Tambo International Airport on the 27th of October 2006.
Major Western Precinct Developments
Target 2010: World Cup Soccer
ORTIA Traffic Volume

2010?
ORTIA International Arrivals Demand

ORTIA 10 hour capacity = 28,000 PAX/day
ORTIA Domestic Departures Demand

*Supply 2007 = 19,200 seats

20 hr 60,000

15 hr 45,000

10 hr 30,000

Airports Connect South Africa
ORTIA Domestic Arrivals Demand

*Supply 2007 = 19,200 seats
Looking Beyond 2010...

- Western Precinct will most likely reach saturation before 2015
- This implies some Midfield developments to commence even before 2010
- Update of the Master Plan has commenced
  - Updated traffic forecast (2010 as well as beyond)
  - Saturation of West Precinct
  - Trigger points of midfield developments
  - Cargo
## Developmental Path and Implications

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<td>International Pier &amp; Echo Apron</td>
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<td>Remote staff parking</td>
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<td>Further AB aprons on the West</td>
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<td>Midfield aprons (cargo)</td>
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<td>Taxiway Charlie</td>
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<td>Airside ring road</td>
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<td>Midfield cargo tunnel</td>
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<tr>
<td>Midfield cargo complex phase 1 (landsife) &amp; phase 2 (landsise + aprons)</td>
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<td>Midfield passenger complex (Terminal, Aprons, Parking, Access roads for 5 mppa)</td>
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- **World Cup development cycle: target 2010**
- **Some midfield developments will have to precede 2010**
## Optimal Scope of Midfield Phase 1

Targets: 5 year capacity spans in the MF & Utilisation in West **17-22** mppa

<table>
<thead>
<tr>
<th>YEAR</th>
<th>TOTAL TRAFFIC</th>
<th>CAPACITY PROVIDED IN THE MIDFIELD</th>
<th>TRAFFIC ASSIGNED TO THE MIDFIELD</th>
<th>TRAFFIC REMAINING IN THE WEST</th>
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<tr>
<td>2012</td>
<td>26.0</td>
<td>13.0</td>
<td>0</td>
<td>26.0</td>
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<tr>
<td>2013</td>
<td>27.5</td>
<td>13.0</td>
<td>9.5 to 10.6</td>
<td>16.9 to 18.0</td>
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<td>2014</td>
<td>29.0</td>
<td>13.0</td>
<td>10.0 to 11.2</td>
<td>17.8 to 18.9</td>
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<td>2015</td>
<td>30.5</td>
<td>13.0</td>
<td>10.6 to 11.7</td>
<td>18.8 to 19.9</td>
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<td>2016</td>
<td>32.5</td>
<td>13.0</td>
<td>11.3 to 12.5</td>
<td>20.0 to 21.2</td>
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<td>2017</td>
<td>34.5</td>
<td>13.0</td>
<td>12.0 to 13.3</td>
<td>21.2 to 22.6</td>
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<td>2018</td>
<td>36.5</td>
<td>22.0</td>
<td>18.0 to 19.0</td>
<td>17.5 to 18.5</td>
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<tr>
<td>2019</td>
<td>38.6</td>
<td>22.0</td>
<td>19.0 to 20.0</td>
<td>18.5 to 19.6</td>
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<tr>
<td>2020</td>
<td>40.6</td>
<td>22.0</td>
<td>20.0 to 21.1</td>
<td>19.5 to 20.6</td>
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<tr>
<td>2021</td>
<td>41.3</td>
<td>22.0</td>
<td>20.3 to 21.5</td>
<td>19.8 to 21.0</td>
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<tr>
<td>2022</td>
<td>43.0</td>
<td>22.0</td>
<td>21.2 to 22.3</td>
<td>20.6 to 21.8</td>
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</tbody>
</table>
Technology Enabler for Infrastructure Utilization

- **Bay Detection System:**
  - Increase utilization of bays of 20%
  - Improved customer service (mean time to bay improved by 45%)

- **Queuing Management system**
  - Improve infrastructure utilization by 15% in the first year
QS sentinel Modules

Client GUI

Ability to access the live status of the system.
- Historical and live graphing.
- Reporting engine.
- Live alert display.
- Live area graphics (MIMIC) with video overlays.
ORTIA Implementation Approach

- Current Deployment at Security Checkpoints in Domestic and International Terminals in Progress
- Immigration planned for Q2 of current Financial Year
- Airline Check-in and Boarding planned for Q3 of current Financial Year
QSentinel Modules

Alerting Engine

- End-user to specify alert conditions, to match exacting requirements.
- Ability to create alerts and deliver them via e-mail, SMS, instant messaging and via client GUI.

Reporting Engine

- Automatically dispatches reports via e-mail on a daily, weekly and monthly basis
QSentinel Modules

Client GUI

Ability to access the live status of the system.

- Historical and live graphing.
- Reporting engine.
- Live alert display.
- Live area graphics (MIMIC) with video overlays.
Queue Management System (QMS)
Camera 1 @ Entrance
Camera 2 @ Midpoint on RHS of Queue Barrier
THANK YOU