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Adacel Technologies Limited  
2014 Annual General Meeting

# **Chief Executive Officer's Presentation to Shareholders**

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# FY2014 Highlights

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- **Third consecutive year of profitability**
- **Consolidation of relationships with key existing US and international customers**
- **Business evolution and refinement delivers annualised cost savings of US\$2.5m: benefit in FY2015 and future**
- **Launch of new products in speech recognition, simulation and air traffic control: some optimism for 2015**
- **R&D commitment of approx. US\$2.0m continues to address obsolescence and new products**
- **International business, driven by geo-political influences in particular, remains a challenge**

# International Company – Global Markets Focus

**Orlando**

**US domestic markets**

**Montreal**

**International markets**

**Melbourne**

**Asia & Australia**

**North American  
Operations**

**Asia Pacific  
Operations**

Orlando Florida:

North American operations HQ

Montreal Quebec:

International Simulation and Training  
Air Traffic Management

Melbourne Victoria

Corporate Headquarters  
ASX Listing: ADA:ASX

# Client Base

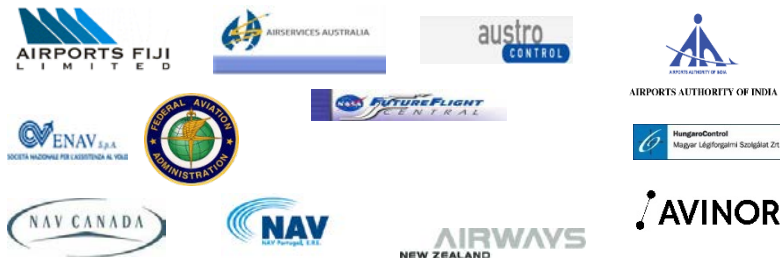
*Partial List Only*

Adacel has established strong relationships with its premier clients through a consistently superior product offering and high quality post-sale service and support

## Military



## Government



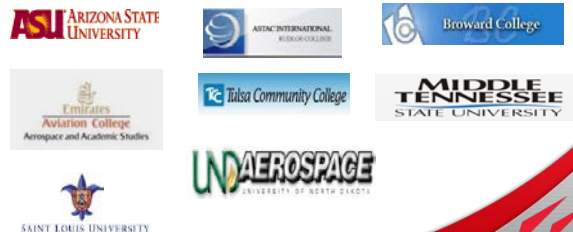
## Defense Primes



## Commercial



## Universities



# Our Business: Global Air Traffic Management

## Control Systems

### Aurora ATM

Aurora is an advanced, modular, satellite-based ATM system providing automated monitoring and management of aircraft in oceanic, enroute, terminal, approach and tower regions



Adacel's Voice Activated Cockpit system provides fast and accurate speech-driven cockpit control for military and civil aircraft and UAVs



## Simulation and Training Systems



MaxSim voice-controlled ATC simulators range from full-scale tower simulators to single seat trainers. MaxSim systems allow controllers to interact with intelligent virtual pilots in environments that simulate actual airfields



Adacel's Integrated Communications Environment product range uses the Company's industry-leading voice recognition technology to teach and assess proper aviation communication procedures in controller and pilot training

# Control Systems: Aurora Software



## Aurora

Aurora is an open architecture ATM automation system utilizing satellite-based & data-linked technology

- Sophisticated flight data processing
- Controller pilot data link communications
- Advanced 4D conflict determination
- Used in oceanic, enroute, approach and tower domains

Proven efficiency gains and increased safety

- Enables agencies to increase value-added services

Aurora ATM automation is utilized in ground-breaking industry programs aimed at improving efficiency and reducing environmental impact:

- The FAA's NextGen program
- EuroControl's SESAR Joint Undertaking (JU) programs



# Control Systems: Aurora ATM System Global Footprint

FAA ATOP



NAV Portugal





# Control Systems: Aurora Customer Examples

## FAA ATOP Program



- Adacel in partnership with Lockheed Martin provides Aurora to manage US Oceanic airspace
- Aurora is deployed in all three FAA Oceanic Control Centers

## NAV Portugal Oceanic Program



- Adacel modernized Portugal's ATM system for the North Atlantic Santa Maria Oceanic flight region
- A single integrated system for oceanic, en-route, approach and tower control

## Fiji ATM Program



- Adacel in partnership with SRA International deployed Aurora into the Fijian Nadi Flight Information Region
- Program extends Aurora from oceanic to terminal airspace and tower

# Simulation and Training: MaxSim

## MaxSim

- The industry's most advanced ATC simulation system
  - High fidelity simulations using Adacel's speech recognition system
  - Training for real-life airfield environments with "smart" virtual pilots
- Adacel's MaxSim product range includes:
  - Tower, Radar, Non-radar Procedural, and Precision Approach Radar (PAR) simulation systems complete with communications packages
  - Multiple System Configuration: Tower, small footprint, mobile unit
  - Over 300 installations worldwide where the Company provides hardware upgrades and maintenance and support
- World's foremost aviation and defense agencies are customers



# Simulation and Training: Example MaxSim Customers

## Civil Customers

### Federal Aviation Administration

- Expected to be the world's largest installation with a total of approximately 100 systems
- More than 40 MaxSim Towers already installed

### ENAV (Italy)

- Largest international contract for ATC tower systems for its Forli facility with 38 tower simulators

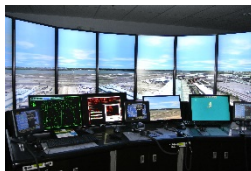
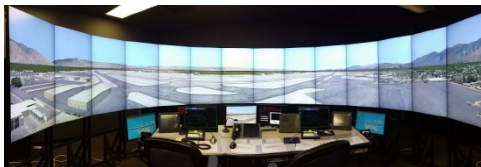
## Military Customers

### US Air Force

- Adacel provides ATC tower simulators and support for the USAF globally
- 92 MaxSim Tower systems installed at USAF facilities throughout the world

### US Department of Defense

- MaxSim systems are also used by the US Navy, Marine Corps, Army and Special Operations
- Adacel provides ongoing support for the systems



# Simulation and Training: Integrated Communication Environment



## ICE

- Automated air traffic control instruction and self learning system
  - Covers basic knowledge and part task and full task training
  - Can be installed on a single laptop, a single desktop or a network environment
  - Utilizes Adacel's speech recognition technology
  - Provides trainers with automated student assessment reports
  - Unprecedented capability to edit speech recognition and course content
  - Shareable / reusable course content
- Interactive, self-taught lessons in a virtual ATC environment
  - Augments current ATC curriculum
  - Enables students to learn and practice at their own pace
  - Developed as a complement to the MaxSim Tower
- Provides training for ICAO's English language requirement
  - All private, commercial and airline transit pilots, flight engineers and navigators, and control tower operators must be proficient in the use of the English language



# Other Products: Voice Activated Cockpit



## VAC

- Adacel's Voice Activated Cockpit is the leading speech-driven tactical solution for demanding civil and military cockpit control
  - Allows operators to complete tasks more efficiently in the air, significantly increasing safety and decreasing workload
- High-accuracy recognition rates proven in operational high-noise environments
  - Utilizes the Company's proven speech recognition capability
  - Adacel has filed 7 patent applications over the past 4 years related to speech technology
- VAC has been implemented across a range of aircraft and operating systems.
  - Speech-driven cockpit command and control
  - Speech interface for Air Traffic Control applications
  - Remote management of UAVs
- Adacel's VAC is offered as a software or full hardware solution



# Other Products: Airport Driver

## Adacel Flightline Driver (AFDS)

- Self paced or instructor led training for airport driver familiarization and training
- Utilizes existing ATC Simulator (MaxSim) 3D airport databases for site specific training, resulting in lower cost of delivery and increased competitiveness in the market
- Powerful lesson scripting tools
- Single seat or networked



## Other Products: Speech Based Automation

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Adacel has created a worldwide reputation for excellence in the development of aviation speech enabled training applications and pioneered the use of speech recognition to supplement or replace human in the loop role players in simulation most notably:

- The United States Air Force Tower Simulation Program
- The Joint United States Military simulation program for training Tactical Controllers
- The Boeing Navy Unmanned Combat Air Vehicle aircraft carrier operations demonstration system
- The US Navy simulator for training of mission operators in multi crew aircraft
- The world's first commercial simulator for the provision of high fidelity air traffic control environments for pilot training



# Other Products: Tools for Critical Infrastructure

## Critical Infrastructure Simulation

- Vulnerability Assessment and Simulation Tools (VAST) for critical infrastructure like Airports and Nuclear Storage Facilities
- Sandia National Labs utilizes the simulator to train security forces at multiple US Navy Strategic Weapons (Nuclear) facilities.

