



AIR TRAFFIC AND NAVIGATION SERVICES SOC

Unlocking Winning Partnerships



Scope of Presentation

- Aim of this Presentation
- About ATNS
- ATNS footprint
- Products and Services
- ATNS Annual Regional and International Events





The aim of this presentation is to present ATNS brand profile to the GDCA/6 and also highlight the role the company plays on the Africa Continent





About ATNS

- Air Traffic and Navigation Services SOC Limited (ATNS) is a commercialized state-owned company, established in 1993 in terms of the ATNS company Act (Act 45 of 1993) providing air traffic management solutions and associated services.
- ATNS is the sole provider of air traffic, navigation, training and associated services within South Africa and is also responsible for Air Traffic Control throughout the Africa Indian Ocean (AFI) region, comprising approximately 10% of the world's airspace.
- We adhere to the International Civil Aviation Organization (ICAO) Standards and Recommended Practices and the South African Civil Authority's (SACAA) civil aviation regulations and technical standards.
- As a globally competitive employer of choice, ATNS is committed to diversity and has achieved ranking within the top ten companies in South Africa with regards to female representation at executive levels.





About ATNS

- To provide safe, expeditious and efficient Air Traffic Management solutions and associated services.
- Our services extend beyond Air Traffic Control into the provision of vitally-important aeronautical information used for all flight planning purposes as well as search and rescue coordination activities, and the maintenance of a reliable navigation infrastructure.
- Strategic objectives
 - ❖ Deliver continuous improvement of our safety performance
 - ❖ Become a transformative organization that invests in its people
 - ❖ Provide efficient Air Traffic Management solutions and associated services that meet the needs and expectations of the ATM community
 - ❖ Maintain long-term financial sustainability
 - ❖ Play a leading role in the development of Air Traffic Management on the continent and selected international markets





ATNS Footprint

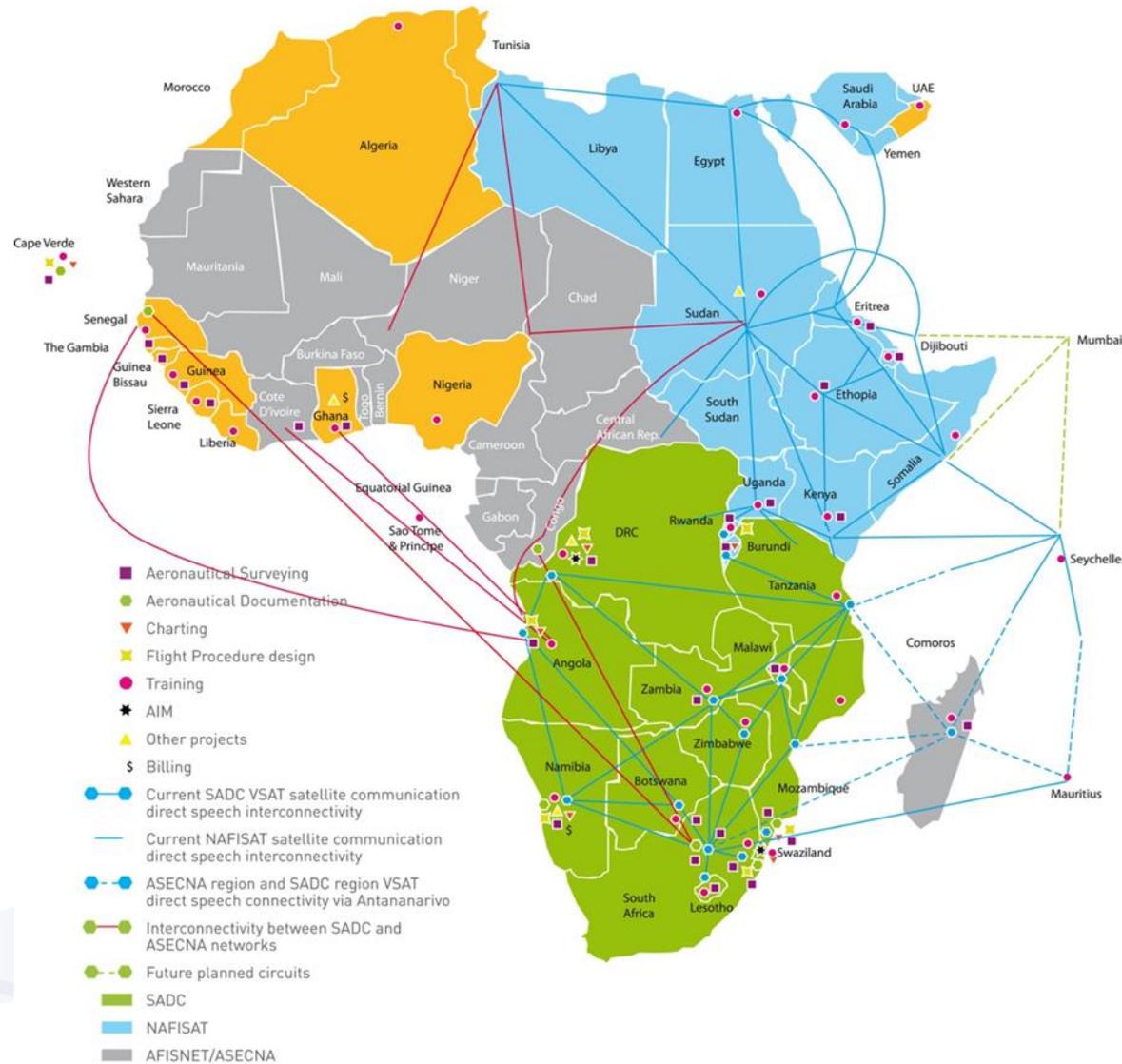
- Air Traffic Services (ATS) - In South Africa we operate from 9 ACSA airports and 12 other aerodromes
- Outside South Africa we provide ATS in St Helena





ATNS's extended services on the Continent and beyond

ATNS Footprint



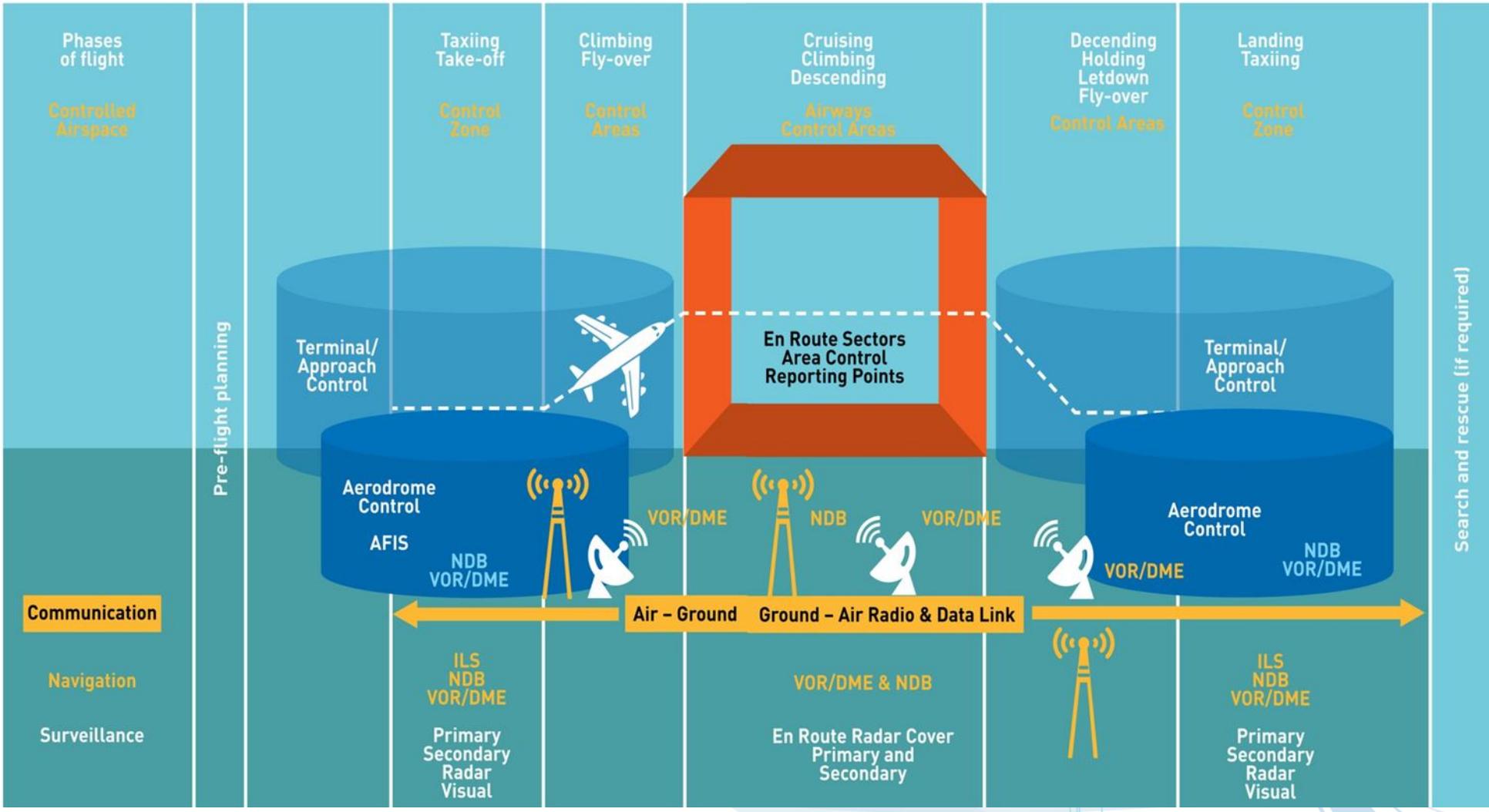
VSAT - Start and end period

SADC VSAT 1		SADC VSAT 2		NAFISAT	
Start date	End date	Start date	End date	Start date	End date
1998	October 2006	1 November 2006	March 2014	April 2007	March 2015



Products and Services

Air Traffic Service (ATS)





Products and Services

Flight Procedure Design and Cartography

- This division offers design and verification of flight procedures and airspace development. It aims to add value by designing safe and efficient instrument and non-instrument procedures that will allow optimization of operational capabilities.
- The full design is then translated into a usable navigation plan, a visual representation of the full flight procedure, overlaid on accurate map information. This service is conducted in accordance with ICAO Standards and Recommended Practices as complemented by ISO 9001:2000 Quality Standards. ATNS's ISO 9001:2000 Certification was received in 1998, and is maintained.
- This division has the capability to design and review all airspace types as defined by ICAO. These include, but are not limited to, control zones, terminal maneuvering areas and flight information regions. Furthermore, air routes based on conventional navigation aids as well as RNP-restricted routes can be designed to client requirements.



Products and Services

Engineering Services

- ATNS plans, specs, acquires and implements the South African national aeronautical Communication, Navigation and Surveillance (cns) systems. We offer professional consultative services to other Air Navigation Service Providers (ANSPs) in support of their national development programs. These services can be provided on an hourly, job, or turnkey basis:
 - ❖ Communication, navigation and surveillance system design
 - ❖ Coverage planning and site selection
 - ❖ Radio frequency coverage planning
 - ❖ Communication, navigation and surveillance system specifications
 - ❖ Acquisition management services
 - ❖ Project management services



Products and Services

Training – ATNS Aviation Training Academy (ATA)

- The ATNS ATA offers a full range of courses in Air Traffic Services, Engineering and related training.
- Air Traffic Services Training comprises regulatory courses for anyone required to be accredited by Civil Aviation Authorities, non-regulated courses and ATS Training Management and Development courses..
- **ATS training includes:**
 - ❖ Ab Initio/Core Content/Basic Induction (ICAO 051)
 - ❖ Aerodrome Control (ICAO 052)
 - ❖ Approach Control Non-Radar (Procedural) (ICAO 053)
 - ❖ Radar Control ATC (Approach Radar) (ICAO 054)
 - ❖ Area Control Non-Radar (Procedural) (ICAO 055)
 - ❖ Area Radar Control (ICAO 054)
 - ❖ Flight Information Service (FIS)
 - ❖ ATSO Coordinator Rating



Products and Services

Training – ATNS Aviation Training Academy (ATA)

- Our Engineering courses cover a variety of system concepts and specialized equipment related to Communication, Navigation and Surveillance (CNS) and information technology

- **Some Engineering courses on offer include:**
 - ❖ Information Technology
 - ❖ Navigational aid systems and instrument landing systems
 - ❖ Primary and Secondary Surveillance Radar Systems
 - ❖ Very Small Aperture Terminal Communication Equipment (VSAT)
 - ❖ Voice Communication Control System (VCCS)

- **Additional courses:**
 - ❖ Management Development Program
 - ❖ On-the-job Training Instructor
 - ❖ Safety Management System
 - ❖ Train the Trainer
 - ❖ Team Resource Management

Products and Services

Training – ATNS Aviation Training Academy (ATA)

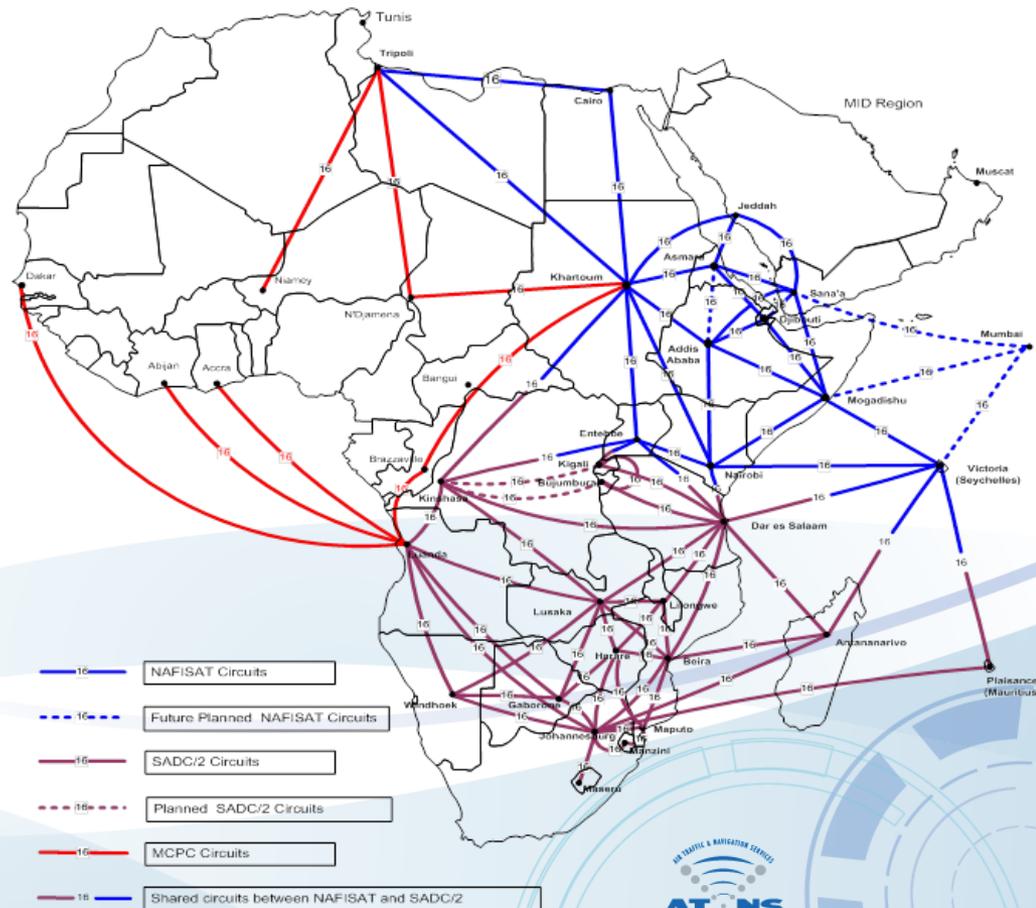
- The ATA is recognized as a world-class training institution by the international aviation community, registered on the SA National Qualifications Framework and is a fully-accredited training organization certified to offer up to three-year diploma-level courses.
- The Academy utilizes computer-based training, radar simulators, engineering laboratories and 2-D/3-D aerodrome simulators to the highest industry and safety standards. Since April 2000, the ATNS ATA has trained more than 8 000 international and local delegates.
- Alongside this the ATNS ATA is an International Air Transport Association (IATA) Regional Training Partner and in 2013 received, for the third year running, the IATA Worldwide Regional Training Partner Award.
- The ATA received ICAO Trainair Plus associate membership in 2012 and became a full member in 2015. The ATA was successfully audited by various international Civil Aviation Authorities and has received preferred training service provider status from a number of these authorities.
- Lasting training relationships have been established with the 4 CAAs

Products and Services

NAFISAT / VSAT

- The SADC VSAT Network has been operational since 1998 and has virtually eliminated all communication deficiencies in the SADC region. This network fulfills the region's communication requirements in terms of the ICAO Africa Indian Ocean plan.
- It has succeeded in integrating a regional communications network, contributing to increased communication, allowing for greater safety relating to air traffic movements, and is financially sustainable.

ATNS VSAT NETWORK:
NAFISAT and SADC/2 - ATS/DS Connectivity



Products and Services

WGS-84

- ATNS's Aeronautical Information Service (AIS) has the operational and technical capability to provide a professional consultancy and surveying service in the field of aeronautical WGS-84 surveying. This service is conducted in accordance with ICAO Standards and Recommended Practices as complemented by ISO 9001:2000 Quality Standards.



Products and Services

Aeronautical Information Services

- ATNS's Aeronautical Information Services provide a professional consultancy and production service in aeronautical documentation, including Notices to Airmen (NOTAMS), pre-flight information bulletins (PIB), Aeronautical Information Publications (AIP) and AIP supplements. ATNS is also able to provide extensive data through our fully-equipped library of static information and our mapping and satellite services that provide dynamic data.



Products and Services

Billing and Collections Management

- Currently, ATNS is the only ANSP on the continent that does its own billing, while other ANSPs may be required to utilize outside service providers. ATNS possesses the experience, expertise and infrastructure to properly manage the billing and collection system for other ANSPs. Our relationships with users are such that we are able to collect tariffs accurately and timeously, enabling improved planning in order to adequately fund operations.



ATNS annual Reg & Int events

- **AVI AFRIQUE Aviation Innovation Summit which happens annually in October**
Currently in its fifth year, the AVI AFRIQUE Africa Aviation Innovation Summit is a collaborative communication platform connecting both the African and international aviation community through valuable debate and critical insight. With a host of speakers, exhibitions and panel discussions this Summit seeks to stimulate conversations around aviation, innovation and sustainability at the highest level.
- The Human Factors Symposium which happens every second year in September
- The Collaborative Decision Making Conference held in October
- The Safety Conference held in October



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Thank you