



ICAO NGAP SUMMIT 2017

Emerging New Concepts and Automation:
Challenges and Opportunities for Aviation
Training Organizations

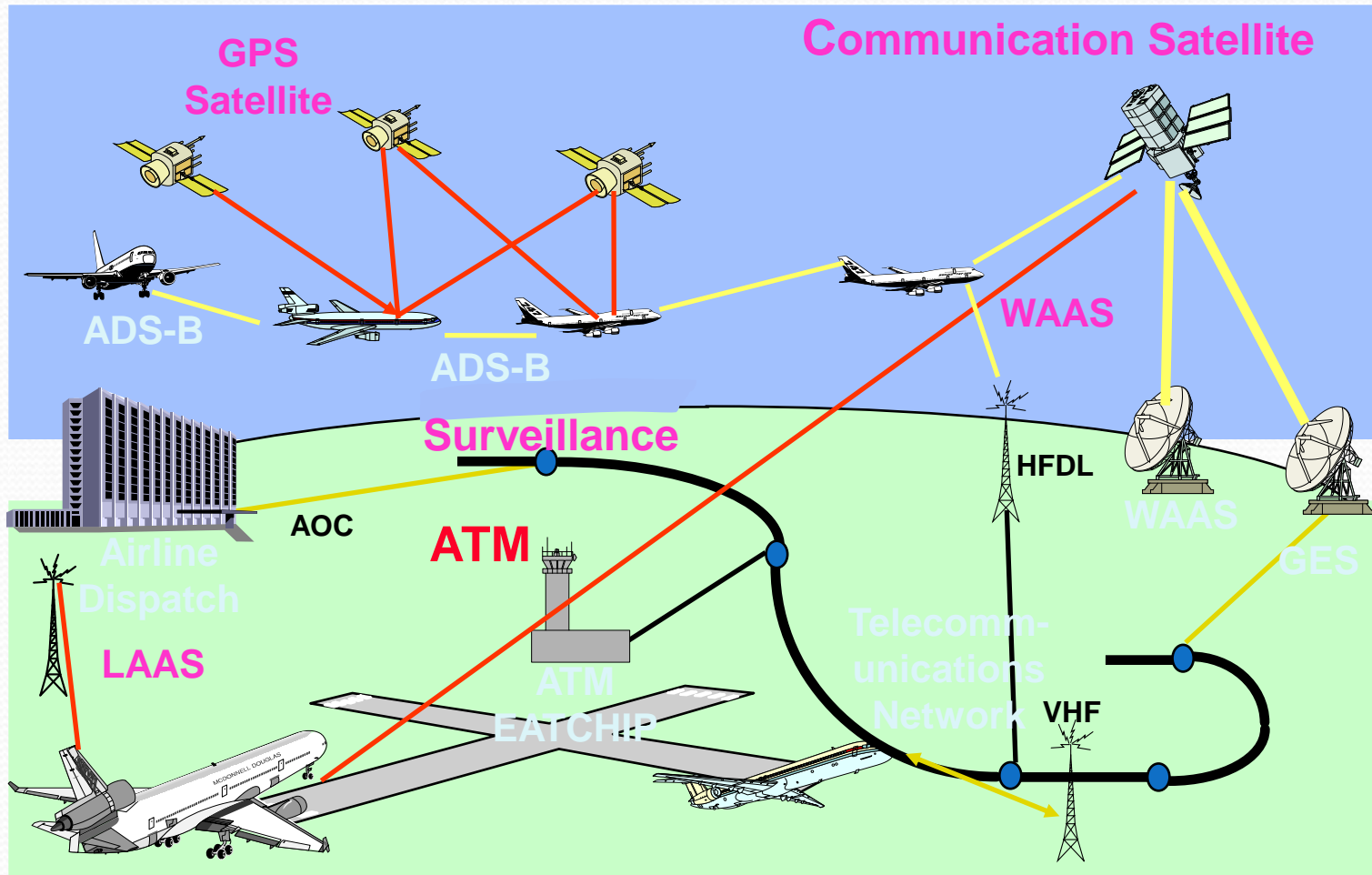
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Emerging New Concepts





Aviation Automation

- ❖ Aviation safety involves complex systems made up of humans, technology, and the environment.
- ❖ Automation on board aeroplanes has decreased the number of accidents and incidents.
- ❖ Human – machine interface is still a challenge that need to be addressed.

✓ **NGAP**
Promotion and awareness
Mentoring and Coaching

All levels of Education

- Basic
- Tertiary
- Colleges
- Universities
- Aviation Training Org
- Equipment Manufactures



Opportunities for ATOs

Training is a business

- ❖ Training to replace ageing personnel
- ✓ Abnatio
- ✓ Basic
- ✓ Advanced
- ✓ Specialization
- ✓ Management
- ❖ Train Inspectors
- ❖ English Proficiency

Training Organizations Focus

- Infrastructure improvement
- Airborne and ground facilities training.
- Instructors training and development.
- New courses development
- Lead the pack.

TOP 10 Training Needs



- Engineering
- Airport Security
- Aircraft Main
- Cabin Crew
- DG
- Air Traffic Control
- Pilot Training PPL
- Security Training
- Pilot Training MPL

ATOs Challenges

- States and the industry do not have sufficient means to devote to the training of personnel in technical, management and leadership disciplines.
- Unavailability of reliable data on ATOs and courses.
- Lack of coordination and cooperation among ATOs and states.

AATO Role

- Through collaboration of Aviation Training Organizations (ATOs) and stakeholders in Africa, AATO is promoting cooperation among its members.
- AATO is a vital link between the training organizations, airlines, maintenance organizations, airports, air navigation service providers, and regulators.

AATO Role

- AATO has developed a framework for the establishment of centers of excellence.
- Ensure standardization of training programs, instructor qualifications.
- Approve aviation training organizations and eventually publish reports on the status of aviation training needs and resources.

Conclusion

Emergence of new concept & Automation

- Safety improvement
- Enabled cost effective training and facilities.
- Reduced workload.
- Competency based training is crucial.
- Embrace it for aviation sustainability



Emerging new Concepts and Automation for improvement of aviation safety

Thank You