

AVI AFRIQUE 2017
Africa Aviation Innovation Summit



ICAO AS A CATALYST FOR THE IMPLEMENTATION OF A COMMON UPPER AIRSPACE IN THE AFRICAN REGION.

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Eastern and Southern Africa Regional Office***

FACTS

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- ✓ **Traffic in Africa is anticipated to double by 2030;**
- ✓ **AFI Region airspace is inefficiently utilized;**
- ✓ **Individual States interest taking precedence in airspace usage/control;**
- ✓ **AFI Region is lagging behind other regions in embracing Seamlessness;**
- ✓ **Seamlessness and common upper airspace have great benefits;**
- ✓ **AFI Region is lagging in PBN and ASBU Implementation;**
- ✓ **Surveillance and ATM infrastructure is inadequate in some AFI States;**
- ✓ **Various initiatives across the continent are ongoing aimed at seamlessness**
- ✓ **RECs have long recognized the need for common airspace (EAC Treaty);**
- ✓ **There is inadequate qualified skilled and experienced manpower in Africa;**
- ✓ **There is enormous Industry support for seamlessness and harmonization;**
- ✓ **ICAO provides forum for States and RECs coordination/dialogue; provides guidance material and platform for planning and implementation(APIRG); SARPs and Docs for regulatory development etc.**

CHALLENGES AND DEFICIENCIES

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- ✓ **Sovereignty/airspace protection**
- ✓ **Diverse regulatory frameworks**
- ✓ **Inadequate Surveillance and ATM Infrastructure**
- ✓ **Inefficiencies of the route structure**
- ✓ **Diverse ATM infrastructure and capability in Africa**
- ✓ **Reliance on bilateral agreements that pose limitations**
- ✓ **Multiple sub-regional initiatives with no tangible fruition**
- ✓ **Inadequate surveillance capability (vast of AFI Region)**
- ✓ **Poor civil- military coordination**
- ✓ **Emerging issues such as cyber security**
- ✓ **Deficient trained /skilled/experienced human capital**
- ✓ **Poor government commitment to aviation**
- ✓ **Increased RPAS and Drone operations**
- ✓ **Fragmented initiatives**
- ✓ **Resistance to change and innovation**

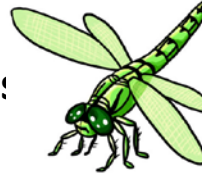


BENEFITS OF SEAMLESS OPERATIONS

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- Remove fragmentation and silo approach
- Reduced CO2 emission/greener operation:
- Heighten safety,
- Economic benefits/Improve cost benefits
 - ✓ passenger time savings,
 - ✓ lower fares and rates,
 - ✓ productivity improvements,
 - ✓ stimulation of related industries
 - ✓ improve fuel efficiency
- Increase airspace efficiency and capacity
- maximum utilization by air operators
- Integrated ICT skills
- Reduced ATM personnel workload
- Harmonized Regional interoperability
- Efficient route structure and sector capacity
- Harness the new generation navigation and communication capabilities on aircraft



WAY FORWARD AND THE FUTURE

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Industry/Partners/Stakeholders:

- Global and Regional Cooperation and harnessing synergies [RECs, ANSPs, Airports,
- Economies of scale through wide service provision with reduced ATM facilities
- Intelligent ATM solutions, air traffic flow management, PBN Navigation,
- AIS to AIM transition
- Embrace Satellite Navigation, ADS/B and CPDLC equipage.
- Innovation



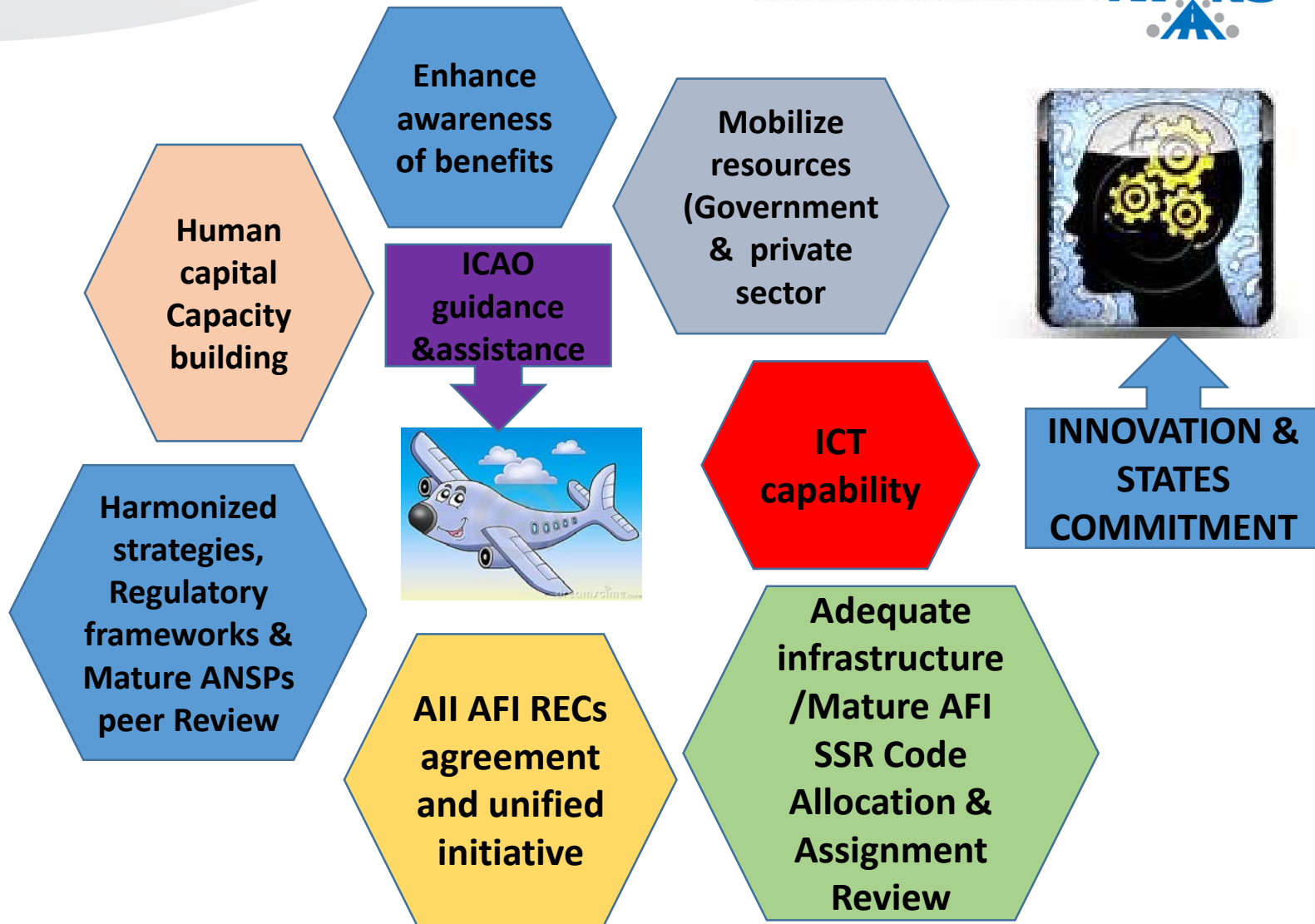
ICAO's role:

- Continue to strongly support implementation of the seamless concept as a driver to achieving the benefits thereof, implementation of the ASBUs and maximum utilization of scarce resources cost effectively;
- Assist, advise and guide on emerging issues related to seamlessness and interoperability:



NEXT STEPS

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HARNESSING SYNERGIES



Proactive and predictive and innovative approach remains the single most solution to cope with the aggressive fast growing technological development and harnessing the opportunities and benefits.