Airbus PBN Safety programs

ICAO AFI FPP
1st Steering Committee
Nairobi 16-17th Dec 2014
Airbus Safety Scope
“ICAO controlled flight into terrain (CFIT) studies have shown that runway-aligned approaches (LNAV only) are 25 times safer than circling approaches, and that once some form of vertical guidance is added to approaches the safety margin is increased again by a factor of 8” [1]

RWY Excursion remains #1 accident category

From IATA Safety Report 2013
Contributing Factors for Runway excursions

In the RWY excursions reported to Airbus in 2011, weather was a contributing factor in 70% of the events. Destabilization was also a major contributing factor, occurring in 40% of the events. Other factors included:

- Loss of visual 40%
- RWY wet 50%
- Td off cl 60%
- Td long 50%

Destabilization is one major contributing factor.
Airbus Safety Initiative for Circle-to-land removal

RNP APCH and AR Deployment

In Aug. 2011, Airbus launched a worldwide program to support PBN implementation with a focus on « RNP to replace Circle-to-Land » Program

Airbus’ intend is to have both a “Train the Trainer” and regional approach and to cooperate with local Authorities and airlines in order to facilitate the PBN deployment.
Airbus Regional Safety Initiatives with APS – PBN summary

Airbus Safety initiatives – launched
Airbus approach: «Train the trainer»
Sharing “know-how” capabilities and best practices

- Aircraft retrofit, training, OPS manuals and procedures, update FDM
- Publish regulations, PBN procedure approval and operational approval
- Airspace planning, air traffic control
- Procedure design and related documents, ground validation
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- Aircraft RNP airworthiness certification
- CAA
- ATC
- Airline
- Approved PBN Procedure/Operator
- Aircraft
- Procedure Design
- Documentation
Conclusion

• Trainings and workshops are key to provide foundations of a safe and efficient PBN deployment in Africa

• Airbus Safety is actively and financially supporting a safe and efficient PBN implementation worldwide

• Airbus is supporting ICAO Flight Procedure Programs

• Implementation of a show case is enabler to go from knowledge to PBN Deployment
  ✓ PBN procedure implementation based on robust methodology and use of best practices