

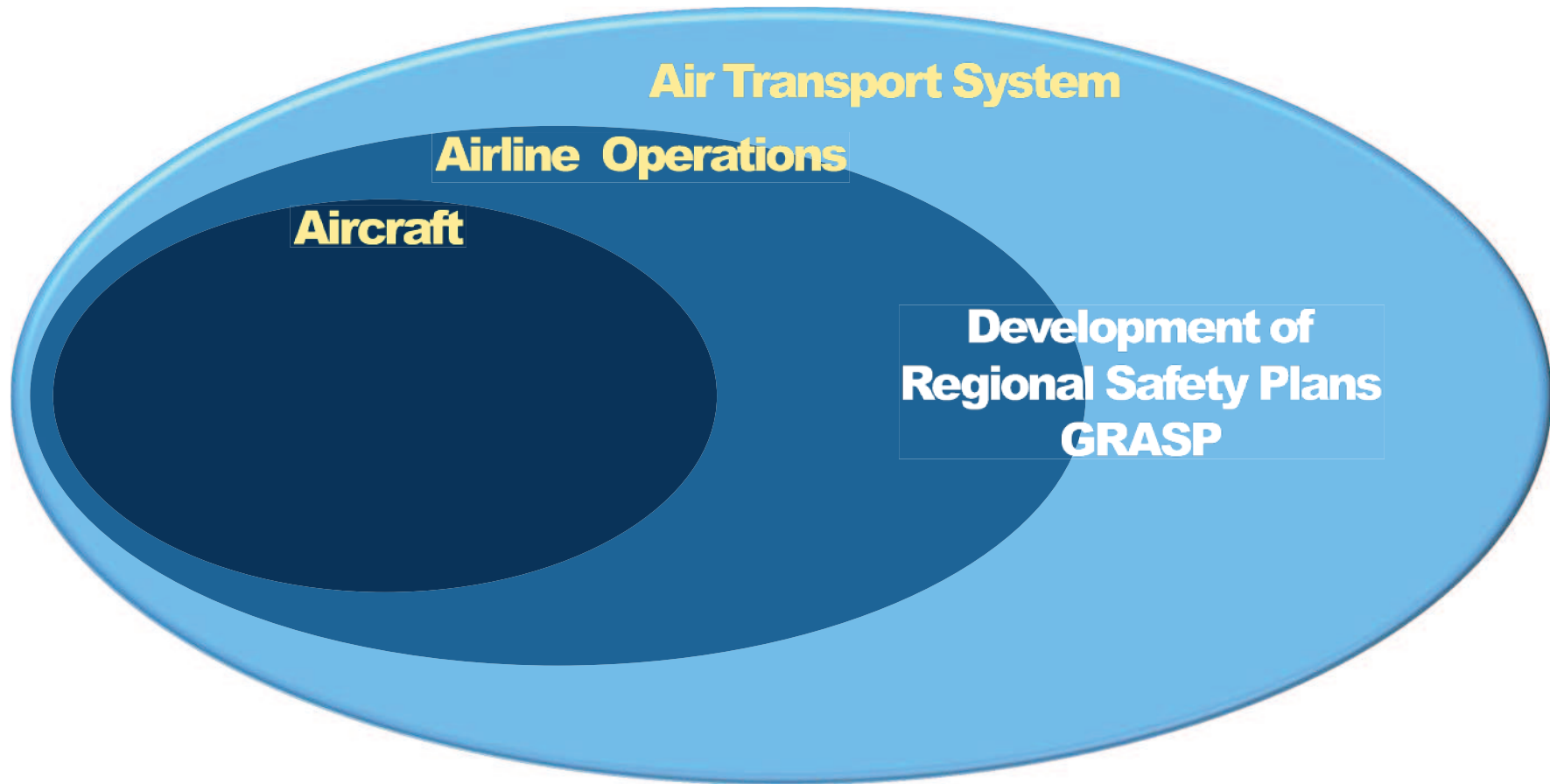


Marc BAILLION
Director International Safety Program

Airbus
PBN Safety programs

ICAO AFI FPP
1st Steering Committee
Nairobi 16-17th Dec 2014

Airbus Safety Scope



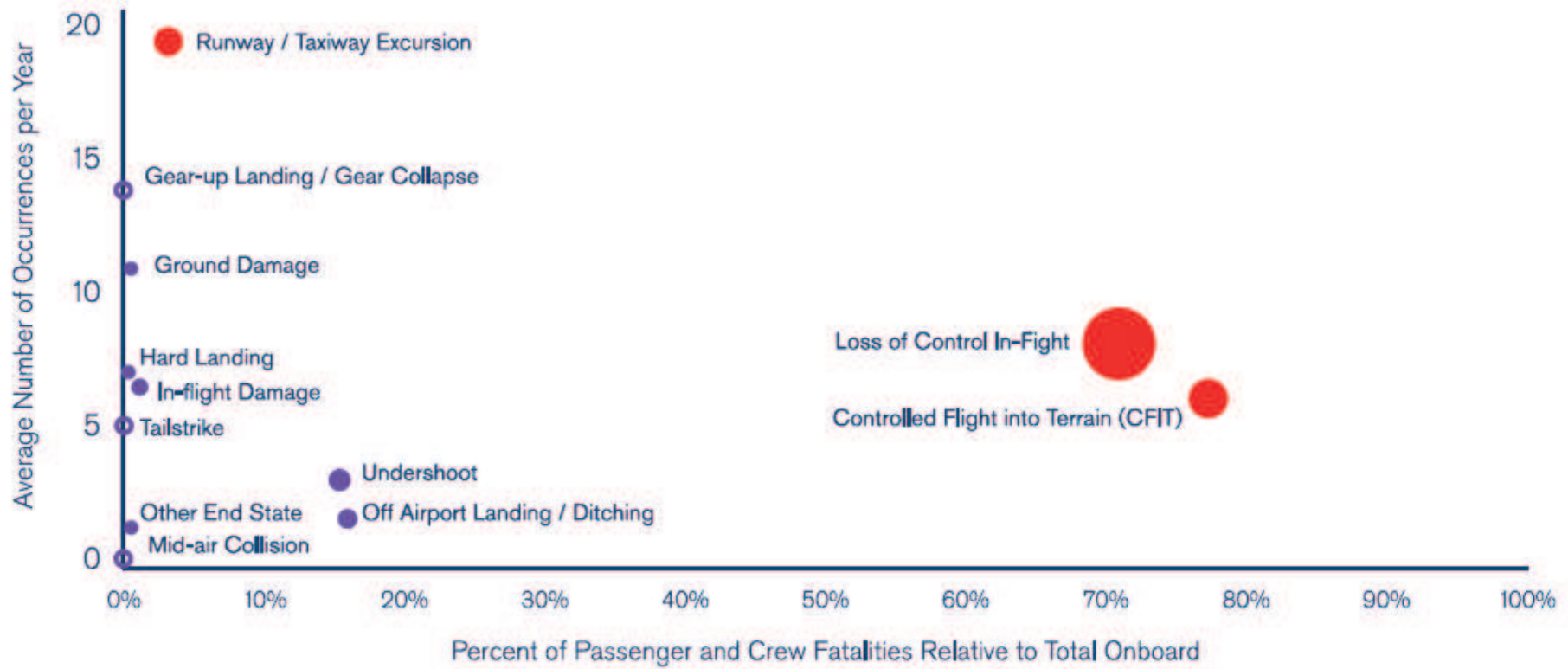
ICAO Working Paper A37-WP/138

“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]

[1] Working Paper A37-WP/138, *Performance-based navigation – the implementation challenge*

RWY Excursion remains #1 accident category

World 2009-2013



Note: Circle size increases as total fatalities increase; circles with white centers indicate no fatalities.

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

LOSS VISUAL → 40 %

DESTABILIZATION → 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

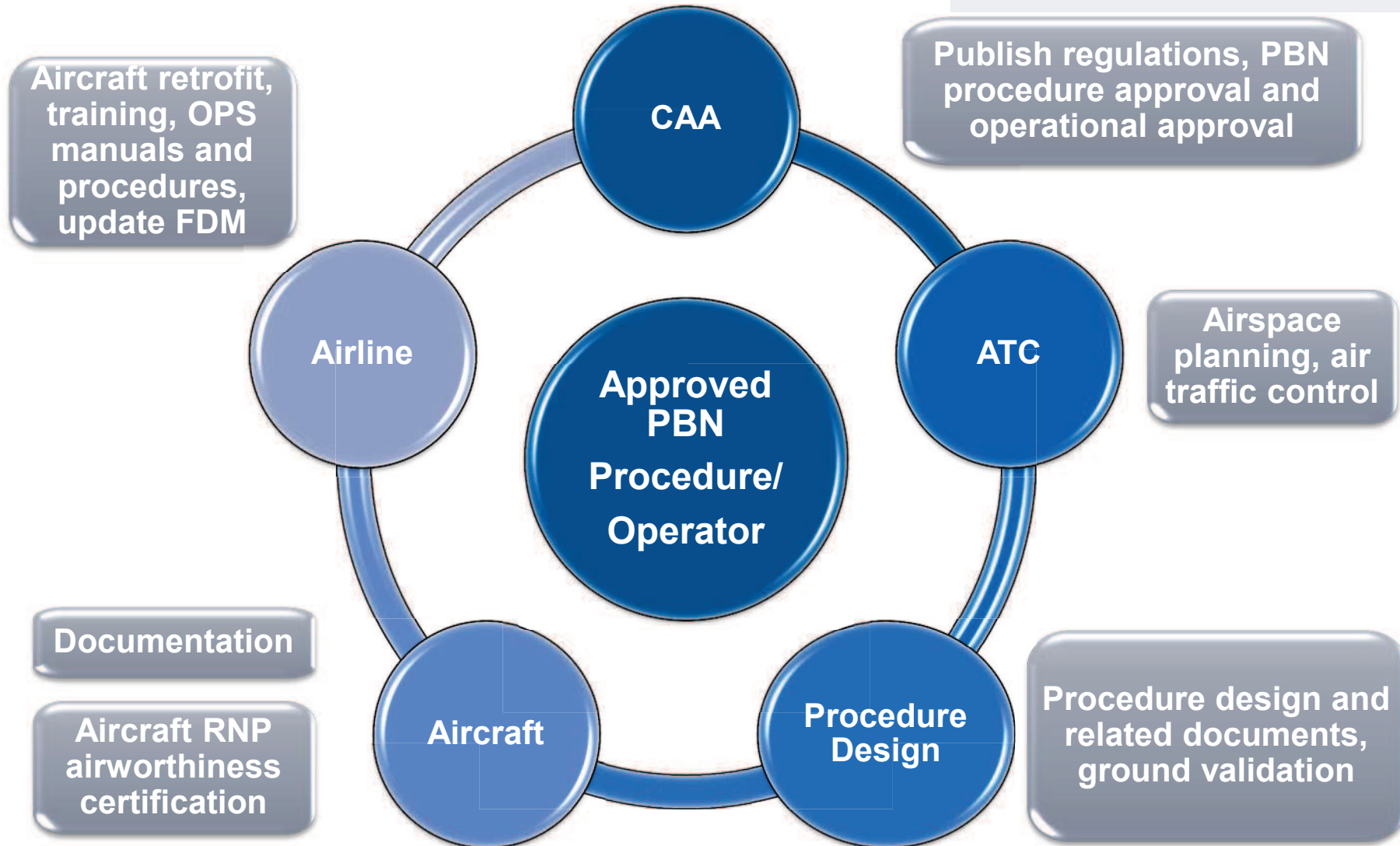
Airbus' intend is to have both a “**Train the Trainer**” and **regional approach** and to cooperate with local Authorities and airlines in order to facilitate the PBN deployment.

Airbus Regional Safety Initiatives with APS – PBN summary



● Airbus Safety initiatives – launched

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



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