



***Next Generation of Air Traffic Safety
Electronic Personnel (ATSEP)***

IFATSEA

NGAP symposium March 2010, Montreal



- IFATSEA Overview
- ATSEP views of the future sky
- ATSEP next generation profile
- ATSEP training needs
- ATSEP future problems / solutions
- Conclusion



IFATSEA - The Federation

- Founded 1972
- More than 20,000 ATSEPs (Air Traffic Safety Electronic Personnel)
- 60 Countries
- Non political & Non industrial & Democratic
- Promote Safety & Efficiency in Aviation
- Development of high standards technology
- Skill, Knowledge & Professionalism
- Cooperate closely with international Aviation bodies



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1 to 4 March 2010
Montreal
slide nr 4/18



ATSEP Standard, Definition & Functions

ICAO : ATSEP (DOC 7192 - Training Manual)
approved in October 2004, updated August 2009

ILO : ISCO 08 Standard – revised in 2008 with
added duties

Category 3145
Air Traffic Safety Electronic Technicians
include Engineers



ATSEP views of the future sky

- More technologies to meet requirements
 - SESAR and NextGen rely on technologies to reach targets
 - Technology is and will be the cornerstone of ANS
 - Growing role and responsibilities for ATSEPs
- More data exchange / less voice communications
 - ANS to aircrafts data exchange. (datalink, ADS)
 - Greater interoperability between countries and stakeholders
 - Increase monitoring and control
- SWIM
 - Global network management (including deployment and integration)
 - Inter-countries networks integrity
 - Inter-countries networks security



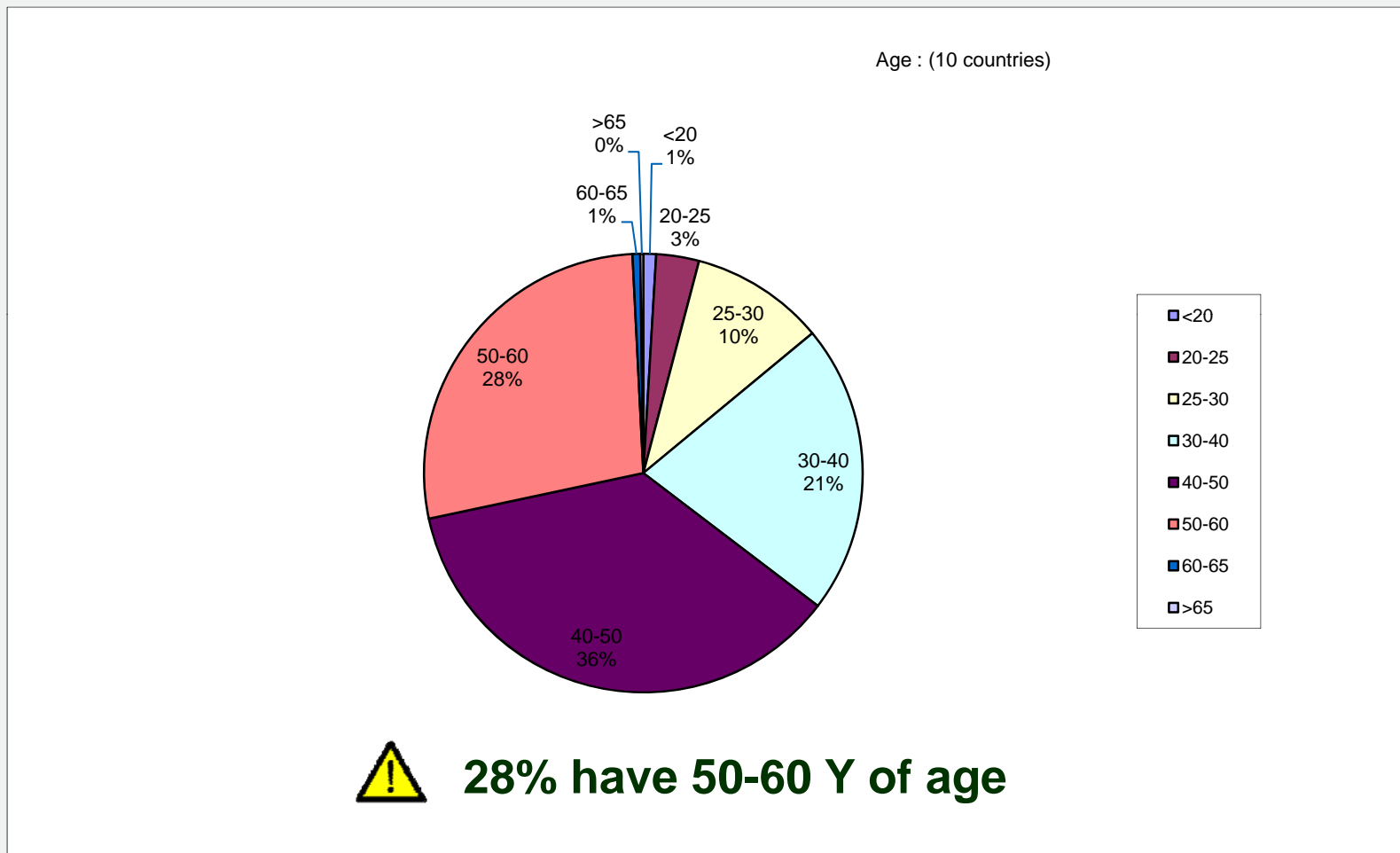
ATSEP Responsibilities (Tomorrow)

- ATM global concept,
 - Performance base (ATMRPP)
 - Human centered
- SESAR & NextGen objectives (ConOps)
- Collaborative Data Management and CDM
- Operational integrity of all ANS/ATM systems/equipments
- ANS/ATM systems becomes global
- Reliability, security and safety
- Safety Management System (SMS)
- Team Resource Management (TRM)
- Lessons learned from Uberlingen, Milano, Guam, etc...



ATSEP next generation profile

ATSEP current data

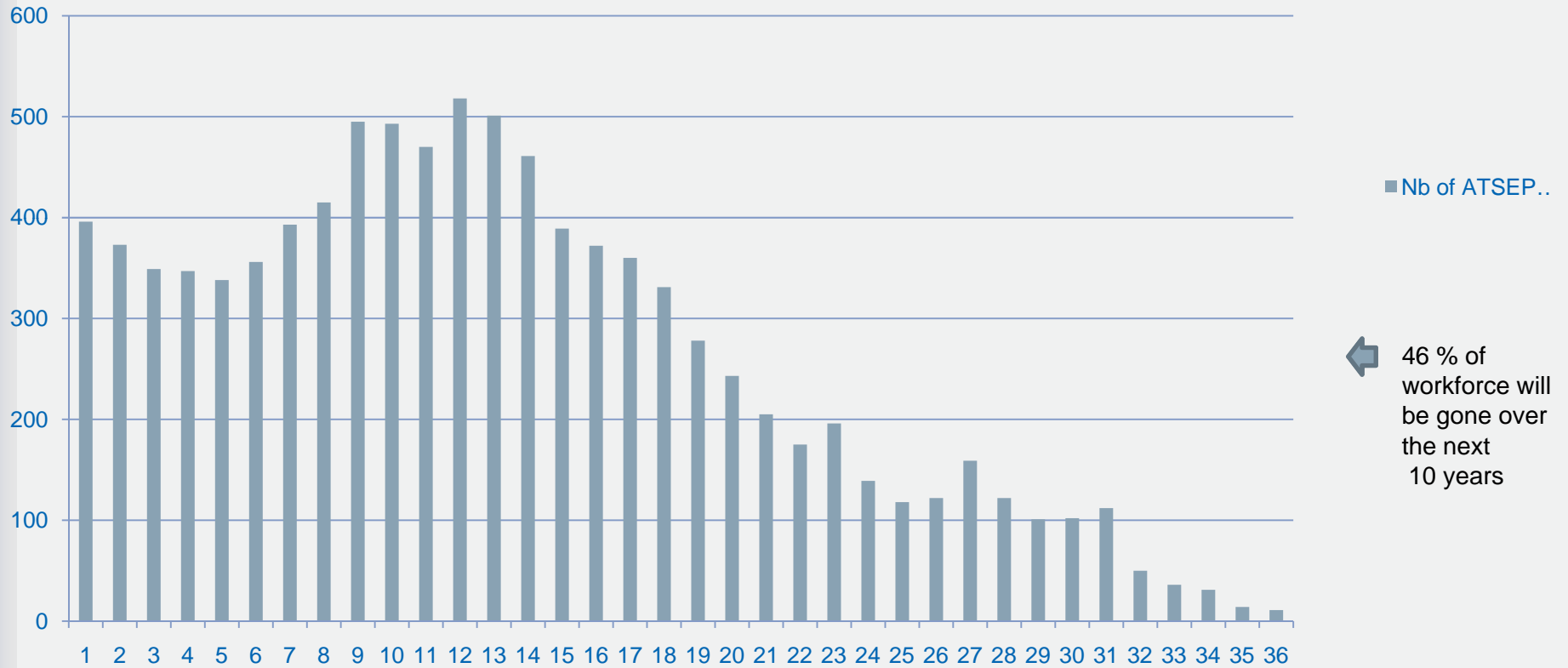




ATSEP next generation profile

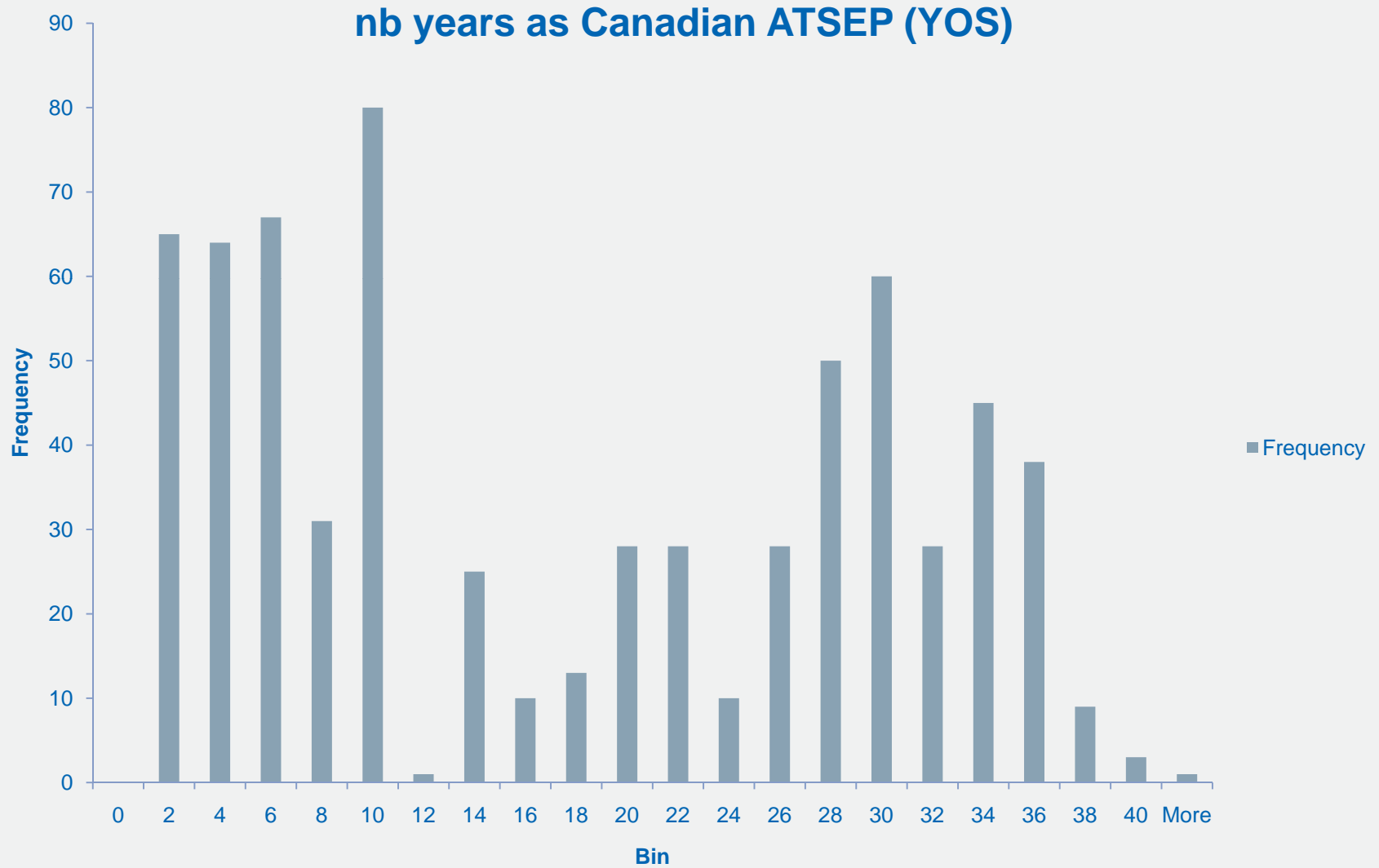
ATSEP current data

Nb of years before retirement, ATSEP (FAA) - 2008





ATSEP next generation profile



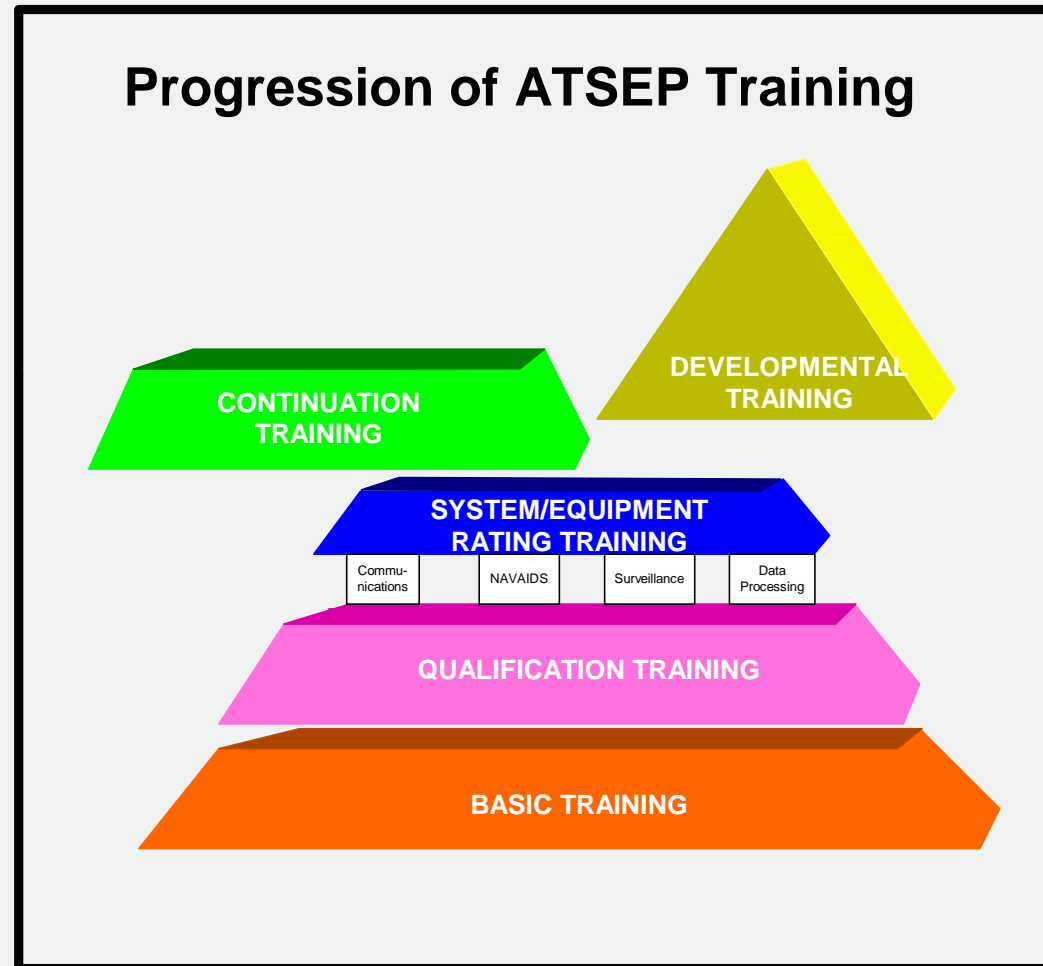


ATSEP Profile – Evolution

- Systems managers
- Systems technical operators
- Road warriors
- In-depth technology knowledge
- Emergency response
- Global networks / network security



ICAO ATSEP Training Manual : DOC 7192





ATSEP training needs

- Common Core Basic & Qualification Training
- Certified/accredited training programs
- Global and harmonized competencies
- Proficiency checkouts



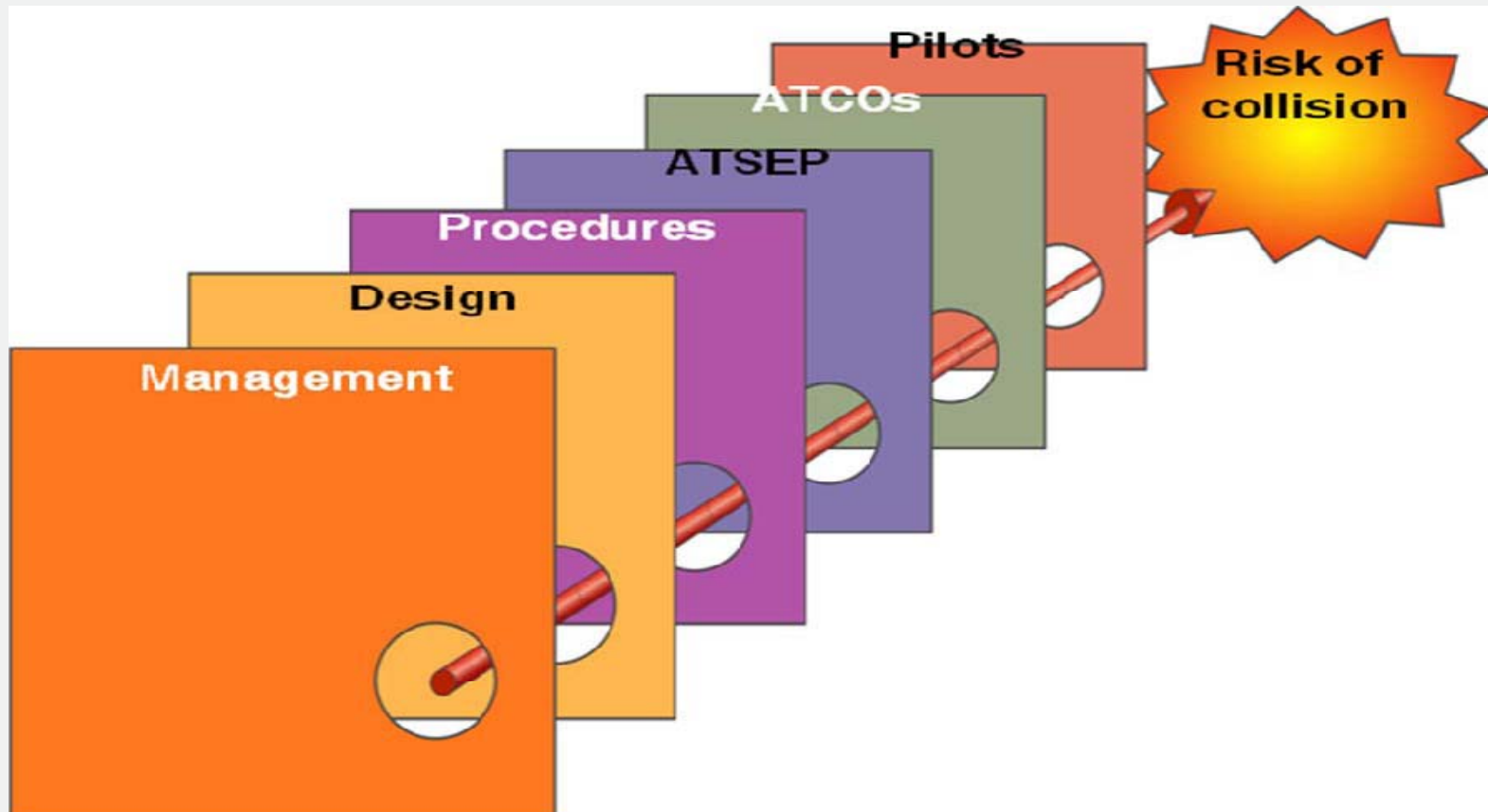
ATSEP future problems/solutions

- **Hiring**
 - Smaller pool of interested candidates for electronic profession
- **Retention**
 - Lack of profession recognition
- **Standardization**
 - Common core accredited training
 - Proficiency checkout
- **Regulation**
 - Personnel competency
 - Accreditation/ authorisation to practice



ATSEP Liability (Today & Tomorrow)

ATSEP have a major impact on Safety





ATSEP future problems/solutions

Regulations

- The work of ATSEP is global:
 - ANS systems interconnected (multiple ACC, multiple FIR, inter regional, intercontinental)
 - ANS systems connected to FMS (SESAR & NextGen)
- The 36 session of ICAO Assembly endorsed “the concept of establishing licensing requirements for ATSEP”.
- ATSEP global safety critical tasks requires global harmonized regulations.
- IFATSEA welcomes ICAO “Next Generation of Aviation Professional” task force and provide its full collaboration and support.



ATSEP future problems/solutions

On Global level our ATSEPs need

- A Common Core Content of training
- Regulation for personnel competency (ICAO Annex 1)
 - authorisation to practice
- English language
- Regulation for system security
- Regulated certification of Systems/equipment
- Common International Standards and Procedures (ICAO SARPs)
- Compatible Air Navigation Systems



Conclusion

ATSEP playground is already global. International regulations on training and competencies are mandatory to a safe, secure and efficient aviation industry.

IFATSEA is committed to it.

Questions or comments

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