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# Enhanced Learnability of Flight Techniques Through the Introduction of Targeted Observation Flights with Ab-Initio through Advanced Flight Training Candidates

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# Enhanced Learnability of Flight Techniques

Through the Introduction of Targeted Observation Flights with Ab-Initio through Advanced Flight Training Candidates

By:

Nicola O'Toole, Dr. John Robbins, Gary Carter



# Flight Training Success: How is it measured?

- The industry needs pilots (AOPA and others)



**29,000** Pilots who will retire from cockpits at major airlines within the next 10 years



**117,000** New pilots who will be required in North America over the next 20 years, according to Boeing

**600,000** worldwide

- Therefore: How can the demand be met:
  - Effectively and efficiently

# Observation Flights To Increase Success

- One Key Element in successful flight training
  - Successful = Effective + Efficient
- How is an observer conducted?
  - Passive
  - Structured / Targeted
  - Observer as a crewmember



# Our Experience

- Practical Side – Observations augment learnability
- Academic Side – Observations help with knowledge assimilation, retention, understanding, and correlation
- There is little empirical data, however, there are vast amounts of anecdotal data from testimonials.
- In addition, our experience.

# Benefits

- Costs
- Proficiency
- Decision Making
- Time to Certifications/Ratings
- Safety
- CRM
- Less PIC but MORE flight experience.

# Drawbacks

- Potential Negative Transfer of Learning
- Time Investment
- Instructor Limiting Feedback During Debrief
- Different Aircraft “Feel”

# Where do we go from here?

- Definitive need to conduct qualitative and quantitative research to validate anecdotal data!
- Keep encouraging our students to observe!
- Develop Industry “buy-in” regarding observations and their benefits



# Questions?

**THANK YOU!**