

Aug 15th, 9:00 AM - 10:00 AM

A Fresh Look at the Industry and Collegiate Aviation Partnership: A Discussion about the Future

Michael E. Wiggins Ed.D.
Embry-Riddle Aeronautical University - Daytona Beach, wigginsm@erau.edu

Follow this and additional works at: <https://commons.erau.edu/ntas>

Wiggins, Michael E. Ed.D., "A Fresh Look at the Industry and Collegiate Aviation Partnership: A Discussion about the Future" (2017). *National Training Aircraft Symposium (NTAS)*. 18.
<https://commons.erau.edu/ntas/2017/presentations/18>

This Presentation is brought to you for free and open access by the Conferences at Scholarly Commons. It has been accepted for inclusion in National Training Aircraft Symposium (NTAS) by an authorized administrator of Scholarly Commons. For more information, please contact commons@erau.edu.

A Fresh Look at the Industry and Collegiate Aviation Partnership: A Discussion about the Future

Michael E. Wiggins, Ed.D.

Embry-Riddle Aeronautical University

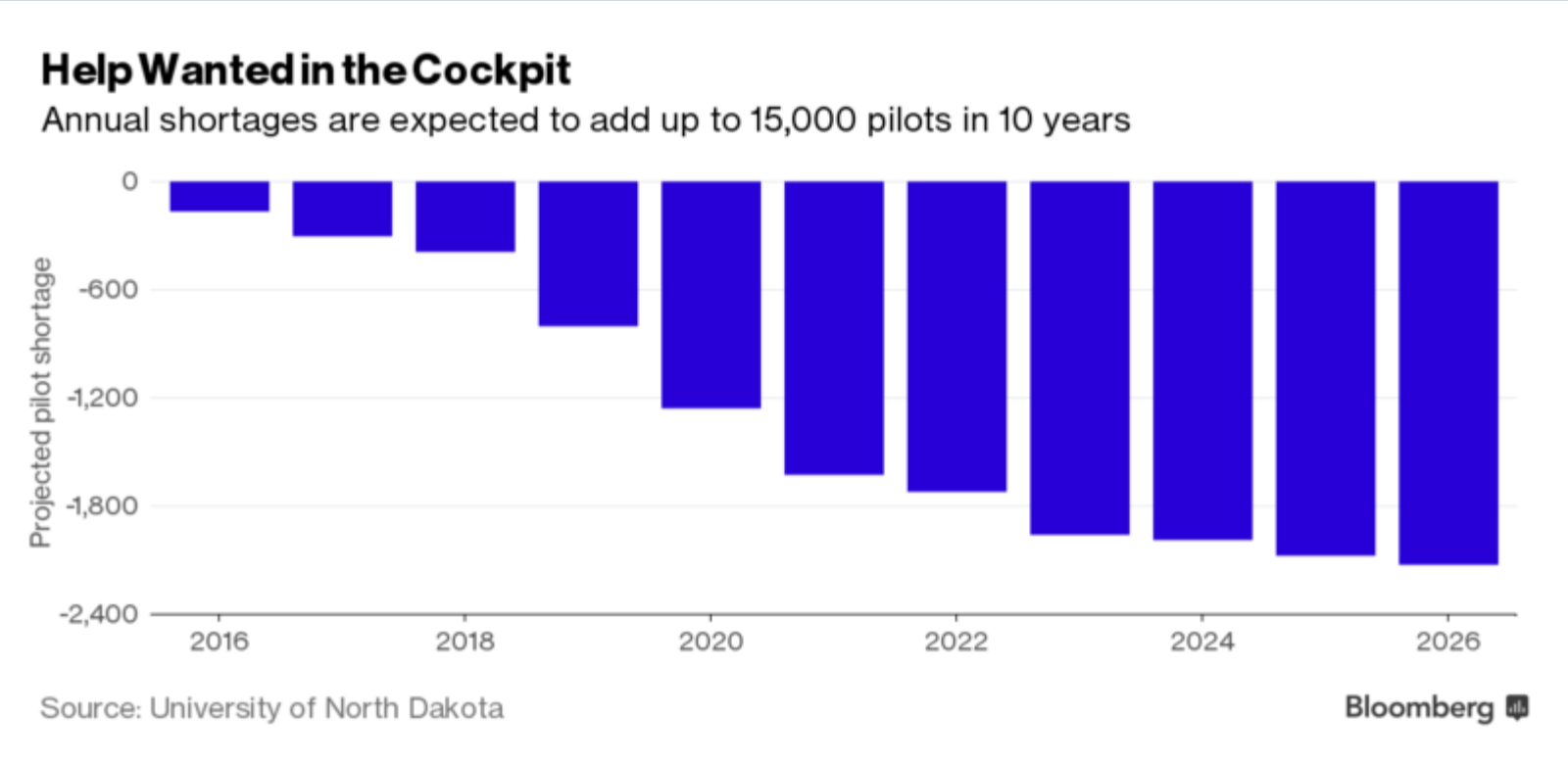
**THE TIMES
THEY ARE
A-CHANGIN'
BOB
DYLAN**



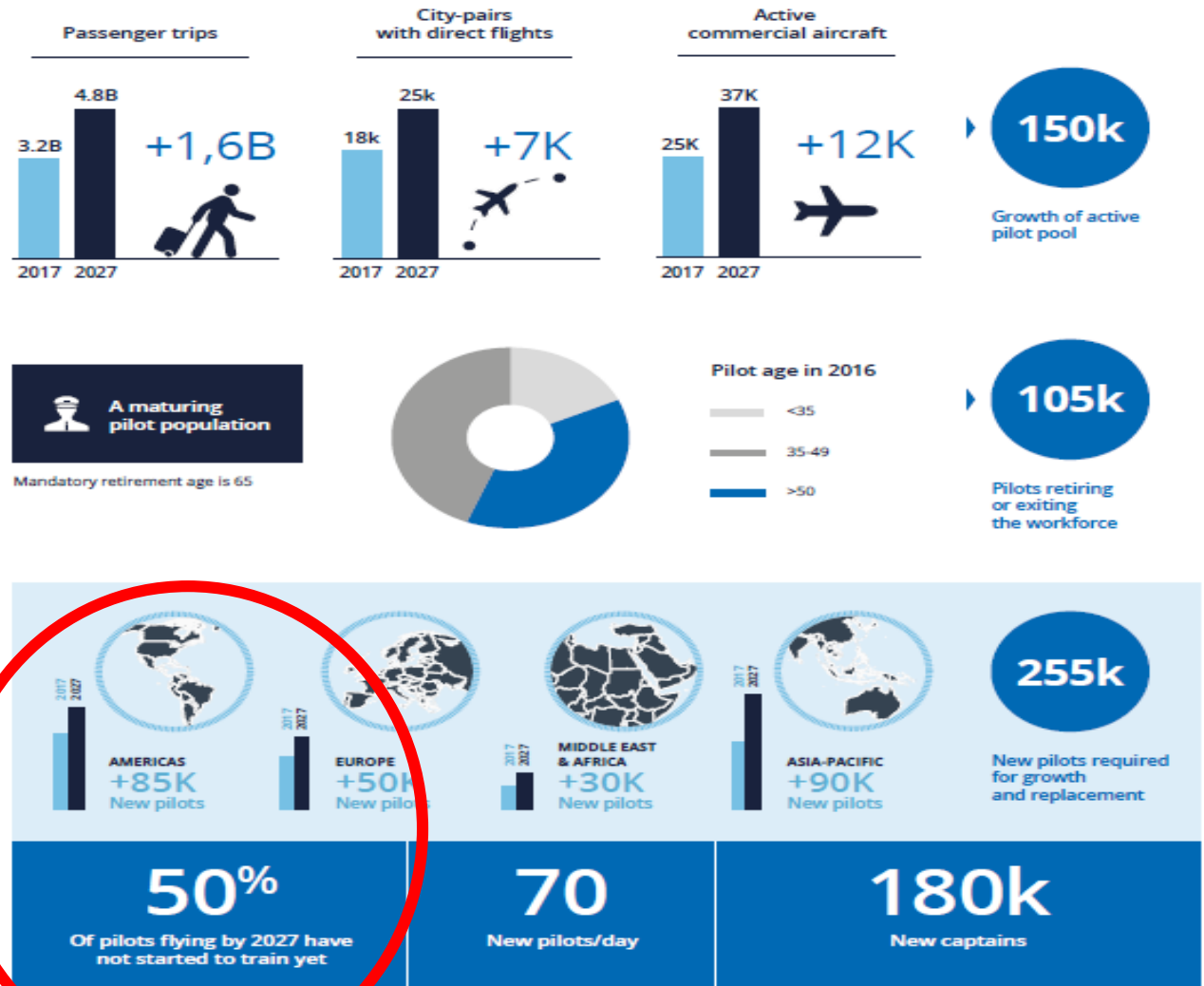
Pilots- The elephant in the room



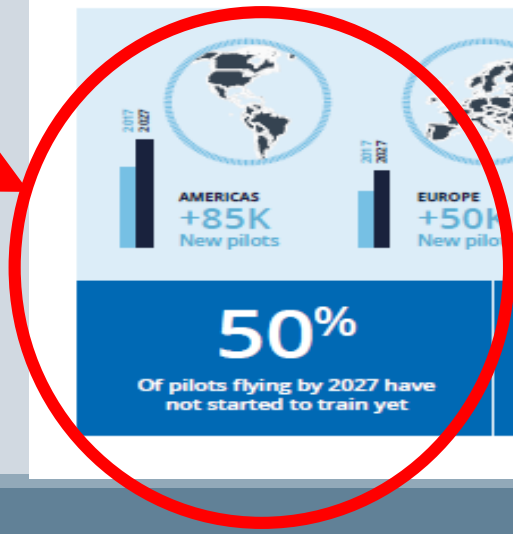
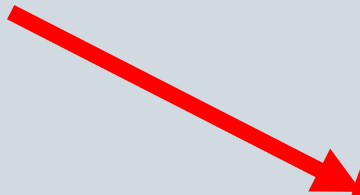
More Good News(?)



Airline Pilot Demand, 10-year outlook at a glance



THIS!



CAE - 2016

Your pilots in 5 years.



Your pilots in 10 years.

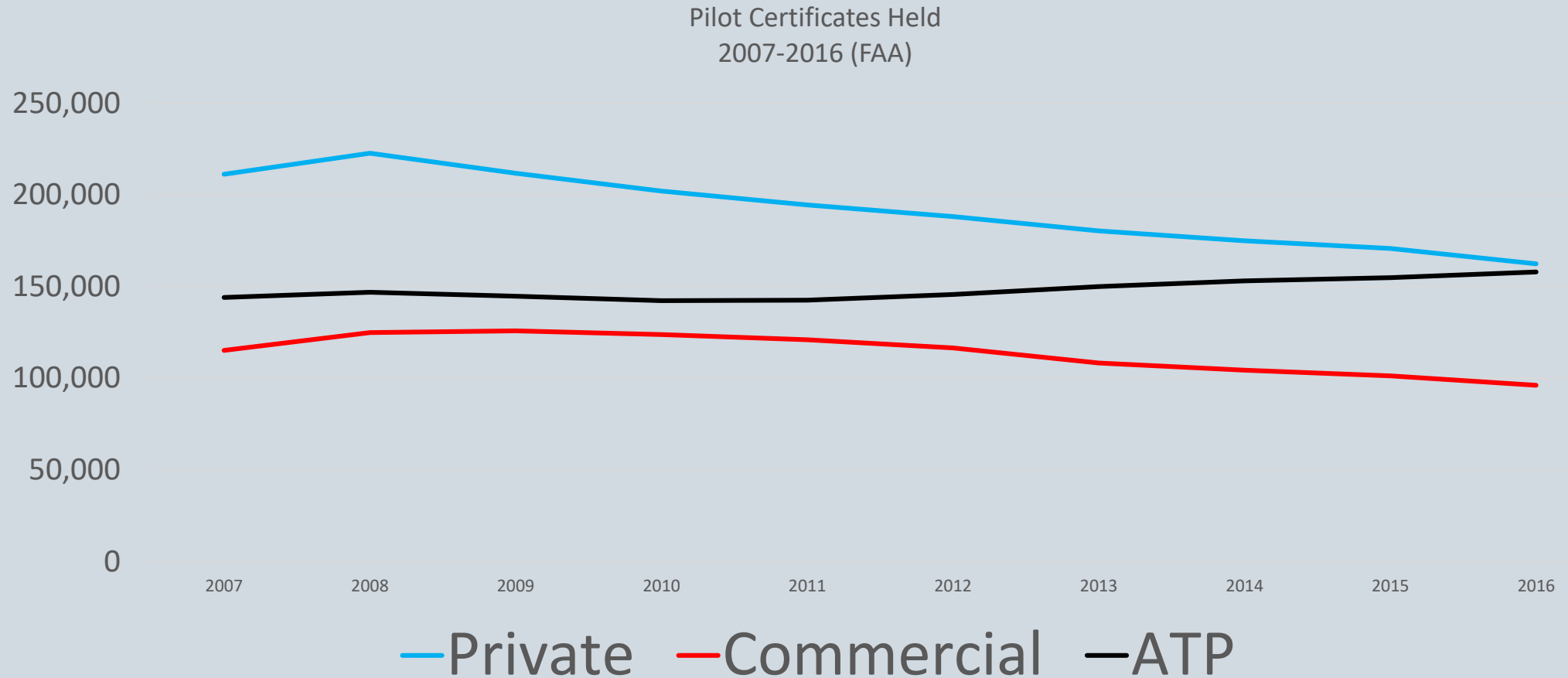


How do we spark the next generation?

This is where we all need to work together.

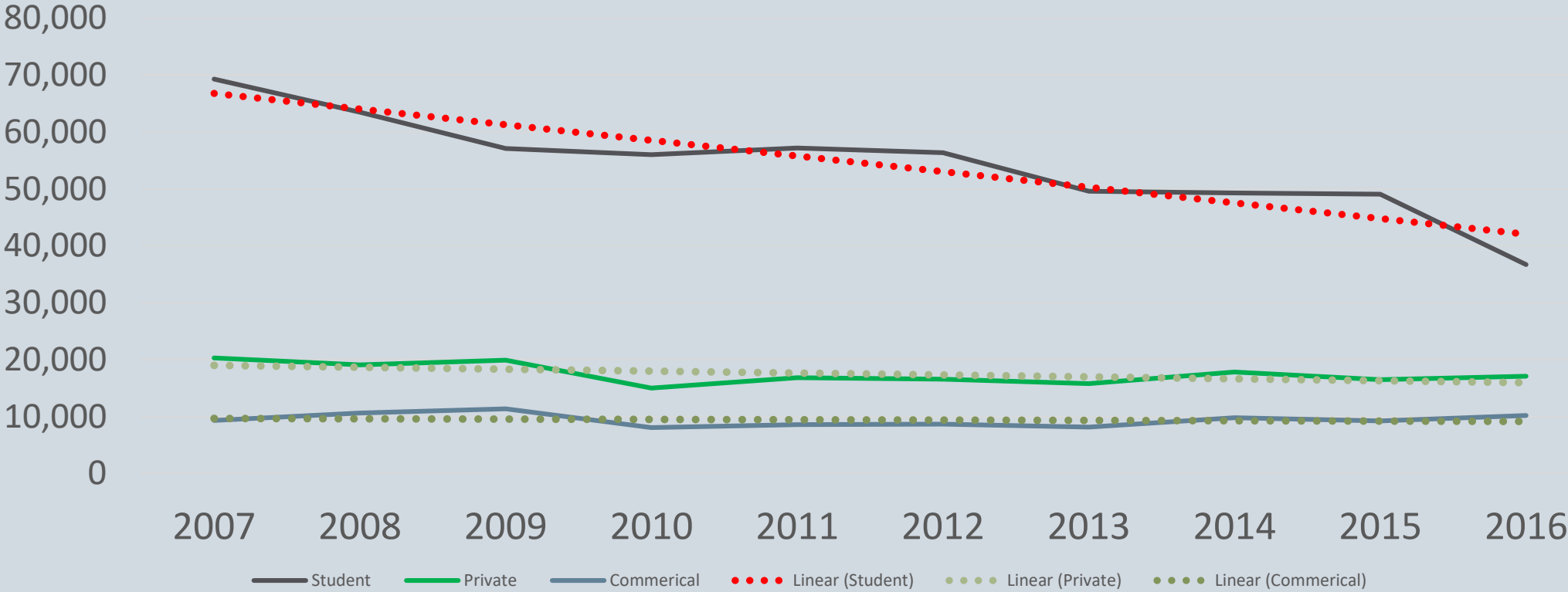
- How do we spark the love of flying to the point it becomes a career goal for them?
- What advice do high school counselors give regarding career choices? - We need to craft that message
- How do students overcome the financial barriers to entry? (learning to fly isn't cheap). Capturing the brightest regardless of socio-economic status.

Total Pilot Certificates Held



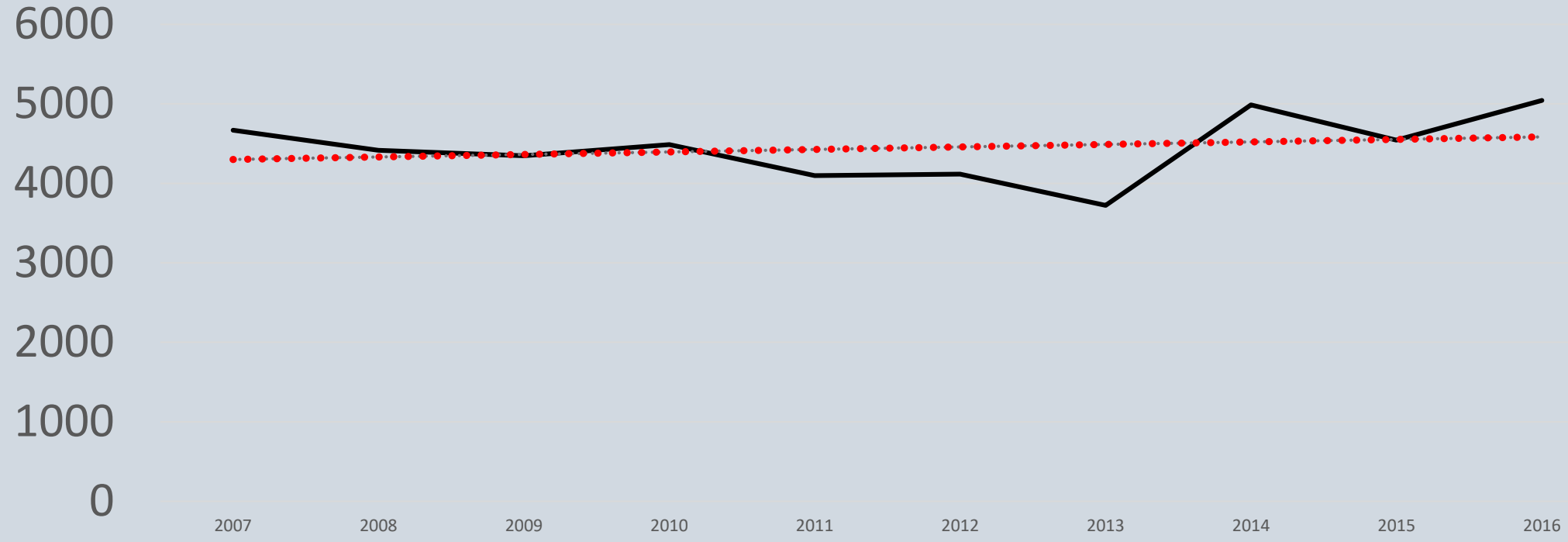
Annual New Pilot Certificates

New Pilot Certificates Issued
2007-2016 (FAA)

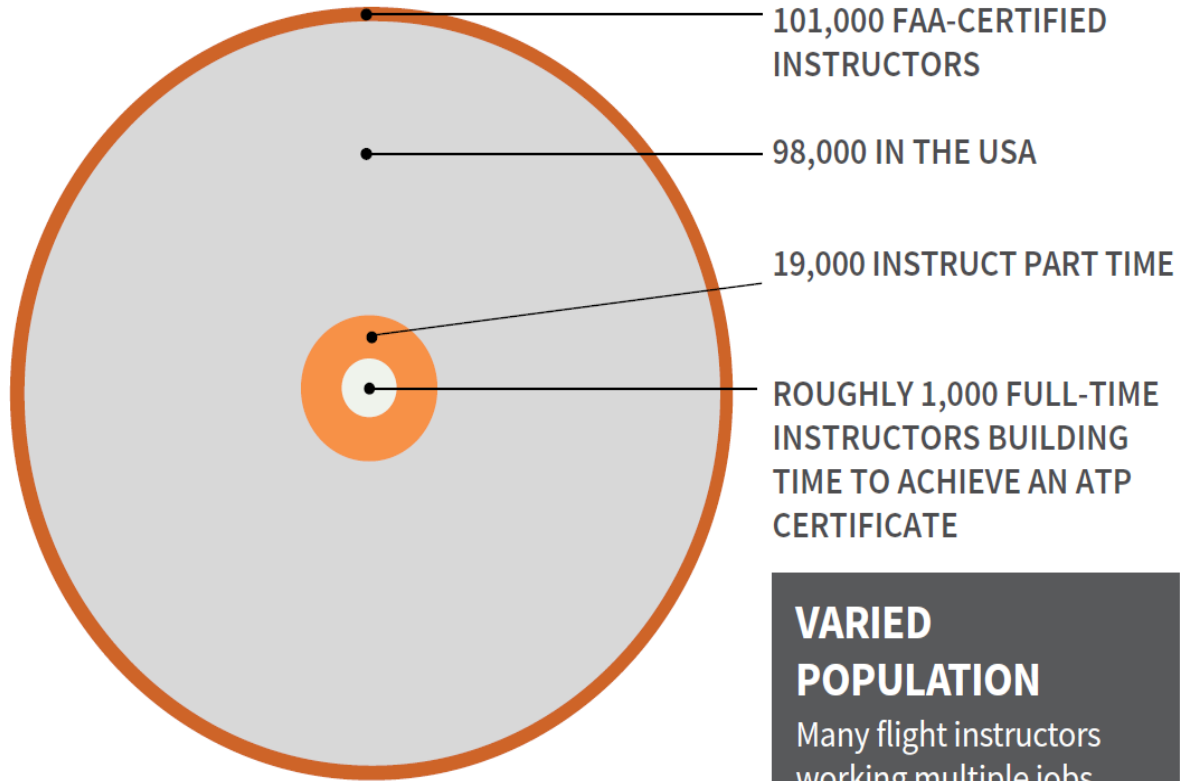


Annual New Flight Instructors

Original CFI Certificates Issued
2007-2016 (FAA)



FLIGHT INSTRUCTOR POPULATION

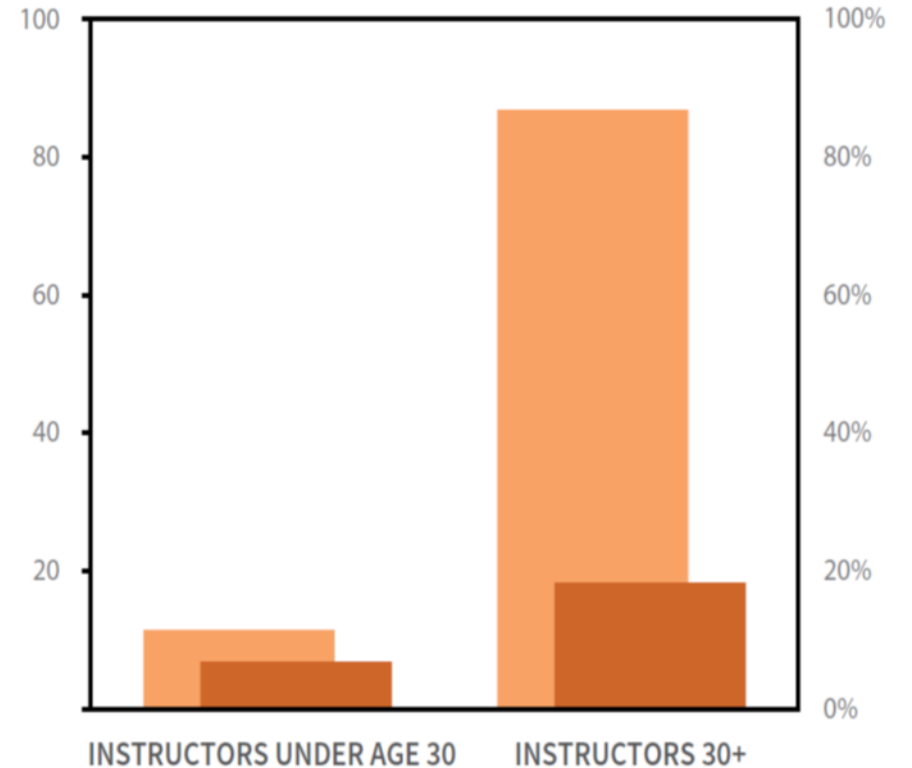


VARIED POPULATION
 Many flight instructors working multiple jobs and instructing frequently

Sources: 1) Aviator Inventory Survey 2015, Flightpath Economics. 2) FAA Civil Airmen Statistics 2014

© 2016 AIN Publications. All Rights Reserved. For Reprints go to www.ainonline.com

ACTIVE FLIGHT INSTRUCTOR POPULATION



INSTRUCTORS IN U.S. **ACTIVELY INSTRUCTING (INCL. PART-TIME)**

Sources: 1) Aviator Inventory Survey 2015, Flightpath Economics. 2) FAA Civil Airmen Statistics 2014

Challenges for Collegiate Aviation

- Stability in our instructor corps!
 - Most are leaving once they hit 1000 hours.(1 year)
- *Training the next generation of CFIs is becoming a challenge for many schools.*
- Five years to go from a first year college student to the 1000 hour CFI.

Flight Instructors- Key to the Future

Work with your college partners to help develop plans for a measured and planned progression for CFIs from the school to you.

DON'T EAT THE SEED CROPS!

No Instructors- No new pilots

These CFIs are training the next year's new hire classes. While you have a need to fill the next class, we're working to fill your classes for the next several years.

Collegiate Aviation

- Collegiate aviation is not a career or destination. It is a conduit for aspiring aviators (and other professionals) to achieve their goals of working for you.
- Our job is to give them the best education we can.
- Education vs. Training

The Future

How do colleges and universities evolve to prepare the next generation? – This is a key to the partnerships we have with you- the industry.

Framework for a partnership

- A key element that is enhancing the skills of those graduating in ways to help overcome of the concerns about pilots with less experience than in the past.
- Assisting collegiate programs gain access to the resources necessary to keep all programs current and relevant regarding the expectations of the industry. This can include training for faculty so we can build better curricula and inclusion in industry meetings and working groups.
- When the industry finds solutions to operational and safety-related problems, they can provide this information to their collegiate partners so the next generation of pilots can be better prepared.

Framework for a partnership

- Collegiate aviation can provide a test-bed for new training ideas and methods so the airlines do not have to spend valuable time and money on new but untested ideas.
- The relationship should be the foundation to ensuring pilots entering the profession have a baseline of skills and knowledge that will promote success as they transition into that phase of their profession.
- If this is successful, airlines should experience lower training costs for lower-time pilots because the baseline of knowledge and skills will be higher.

Questions?

