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Morning Featured Speaker — Current State of Military and Civilian Pilot Pipelines

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Current State and Forecast
Civil and Mil Pilot Pipeline

Dr Michael McGee
15 AUG 17
RAND Pilot Pipeline Model

**Training**
- Civilian Pilot Training
  - 4-Year Accredited Undergraduate w/Part 141 (500 Hr ATP-R Credit)
  - 2-Year Accredited Undergraduate w/Part 141 (250 Hr ATP-R Credit)
  - Part 141
  - Part 61

- Military Pilot Training
  - 750 Hr ATP-R Credit

**Experience Building**
- Commercial
  - Part 135 nr ATP
  - Part 91 (incl Corp)
  - Part 91(k) nr ATP
  - Part 125 SIC
  - Part 137

- Instruction
  - Part 141
  - Part 61

- Self-Finance

**Minors**
- International
  - ATP Minors
    - Part 121 Regional
    - Part 121 Supp
    - Part 121 Small Cargo
    - Part 135 PIC req ATP
    - Part 91(k) PIC req ATP
    - Part 125 PIC
    - Large Corp PIC

**Majors**
- ATP Majors
  - Large Passenger
  - Large Cargo

- Attrition
- Retire
- Furlough
- Requires Comm or Comm/CFI
- Requires ATP/ATP-R License

McGee, RAND, RGSD-351, Updated
**RAND Pilot Pipeline Model**

Primary Flows

**Training**
- Civilian Pilot Training
  - 4-Year Accredited Undergraduate w/Part 141 (500 Hr ATP-R Credit)
  - 2-Year Accredited Undergraduate w/Part 141 (250 Hr ATP-R Credit)
  - Part 141
  - Part 61
- Military Pilot Training
  - 750 Hr ATP-R Credit

**Experience Building**
- Commercial
  - Part 135 nr ATP
  - Part 91 (incl Corp)
  - Part 91(K) nr ATP
  - Part 125 SIC
  - Part 137

- Instruction
  - Part 141
  - Part 61

- Self-Finance

**Minors**
- ATP Minors
  - Part 121 Regional
  - Part 121 Supp
  - Part 121 Small Cargo
  - Part 135 PIC req ATP
  - Part 91(K) PIC req ATP
  - Part 125 PIC

- Large Corp PIC

**Majors**
- ATP Majors
  - Large Passenger
  - Large Cargo

**Attrition**
- Retire
- Furlough

Requirements:
- Requires Comm or Comm/CFI
- Requires ATP/ATP-R License

Source: RAND RGSD-351, updated
Pipeline Fragility

- Nodal progression – pilot availability
- Intranodal transfers – stability and training costs
RAND Pilot Pipeline Model

Training
- Civilian Pilot Training
  4-Year Accredited Undergraduate w/Part 141 (1500 Hr ATP-R Credit)
  2-Year Accredited Undergraduate w/Part 141 (250 Hr ATP-R Credit)
  Part 141
  Part 61
- Military Pilot Training
  750 Hr ATP-R Credit

Experience Building
- Commercial
  Part 135 nr ATP
  Part 91 (incl Corp)
  Part 91(K) nr ATP
  Part 125 SIC
  Part 137
- Instruction
  Part 141
  Part 61
- Self-Finance

Minors
- International
- ATP Minors
  Part 121 Regional
  Part 121 Supp
  Part 121 Small Cargo
  Part 123 PIC req ATP
  Part 91(K) PIC req ATP
  Part 125 PIC
  Large Corp PIC

Majors
- ATP Majors
  Large Passenger Cargo

Requires Comm or Comm/CFI
Requires ATP/ATP-R License

McGee, RAND, RGGD-351, Updated
Military Flow into Pipeline

Military pipeline is currently out of equilibrium
USAF AD Losses

Strong statistical relationship between USAF AD losses and Major Airline Hiring

Source: RAND RGSD-351, updated AFPC