

# Gold Standard for On-Aircraft Upset Prevention & Recovery Training

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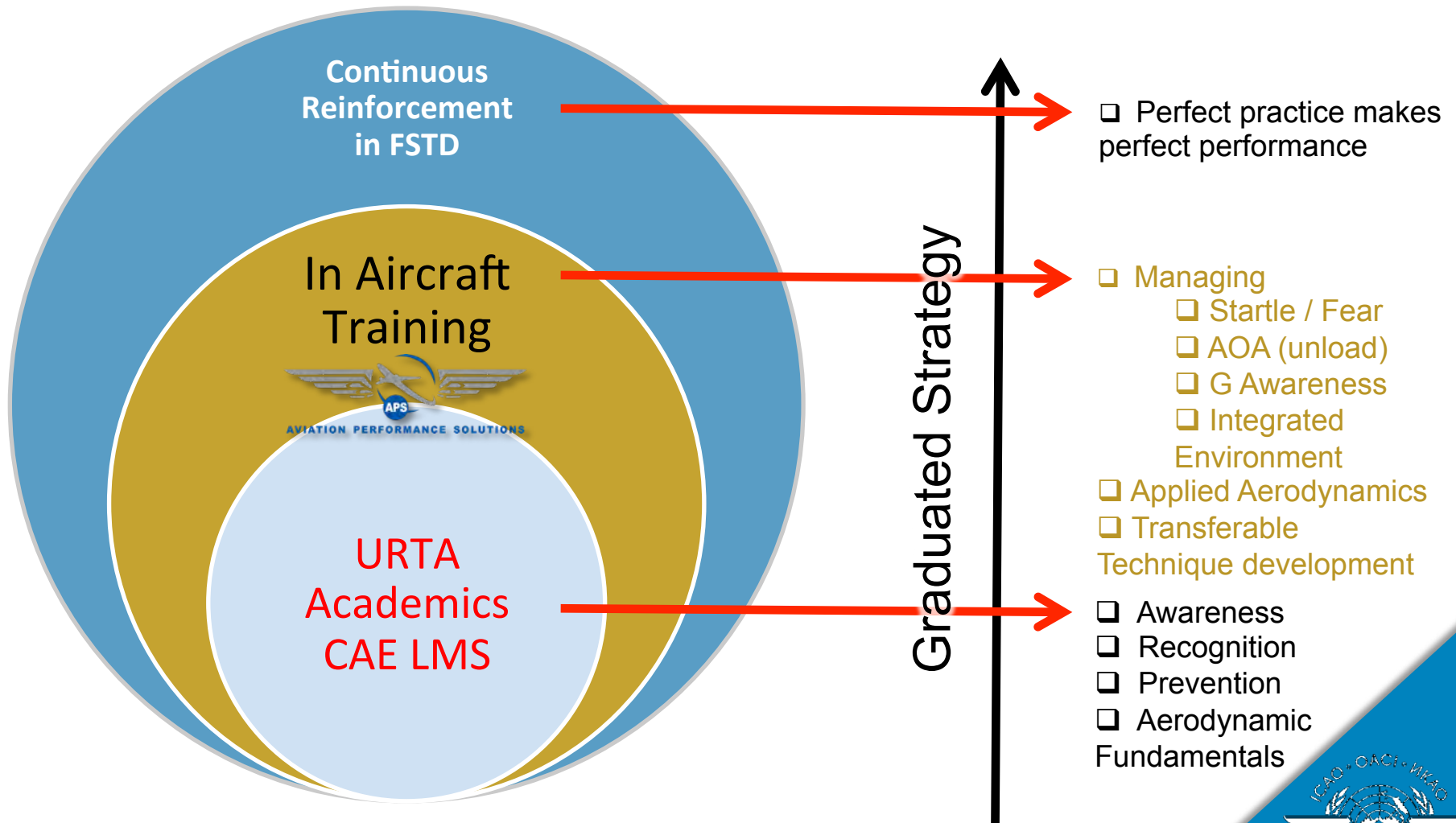
# Agenda

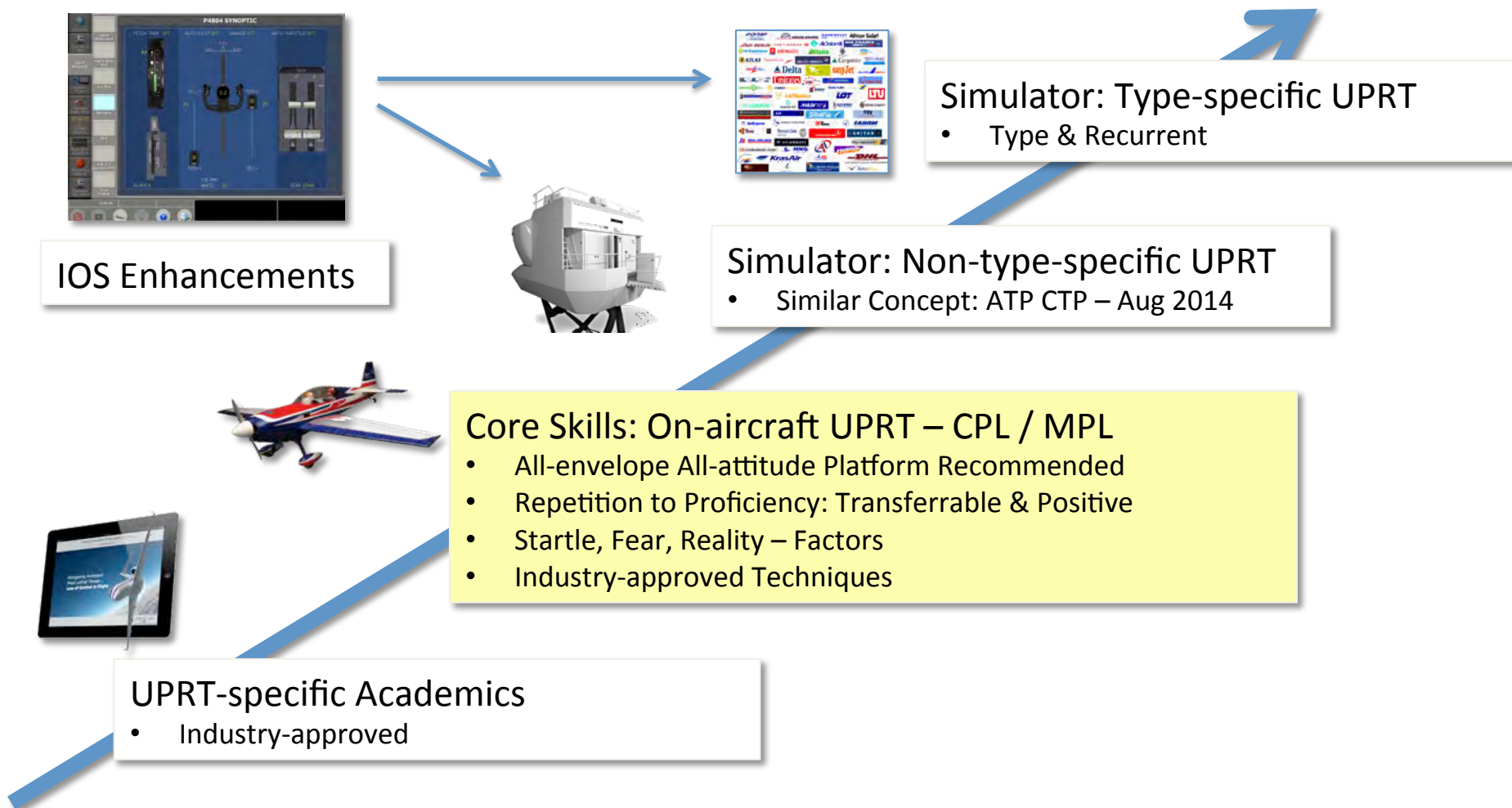
## On-aircraft Upset Prevention & Recovery Training

- Graduated Strategy
- On-Aircraft UPRT
  - Critical Framework
  - Instructor QA
  - Margins of Safety
  - Transfer of Skill
- The Gold Standard



# Graduated UPRT Strategy





# ICAO Manual on UPRT: Impact

Career Path of Professional Jet Pilots

**Note to Reader: APS Already Offers Comprehensive Industry-compliant Solutions in All These Areas of Training.**

# Critical Role of Simulation



OH MY GOD

It's a Shark.



## CORE TRACK



UPRT-specific Academics



Core Skills: On-aircraft UPRT



Simulator: Non-type-specific UPRT



Simulator: Type-specific UPRT

## SUPPORTABLE ADDITIONS



Calspan Learjet



UAT | Stallion 51

- L39 Albatross
- P-51 Mustang



Flight Research

- MB-326 Impala
- T-39 Sabreliner



APS

- A4 Skyhawk



ETC

EU Desdemona

- SUPRA

# UPRTA-proposed Supportable Additions (UPRTA.org)

Representative Platforms: Claim More Realism in Some Respects

## CORE TRACK

## SUPPORTABLE ADDITIONS



UPRT-specific Academics



Core Skills: On



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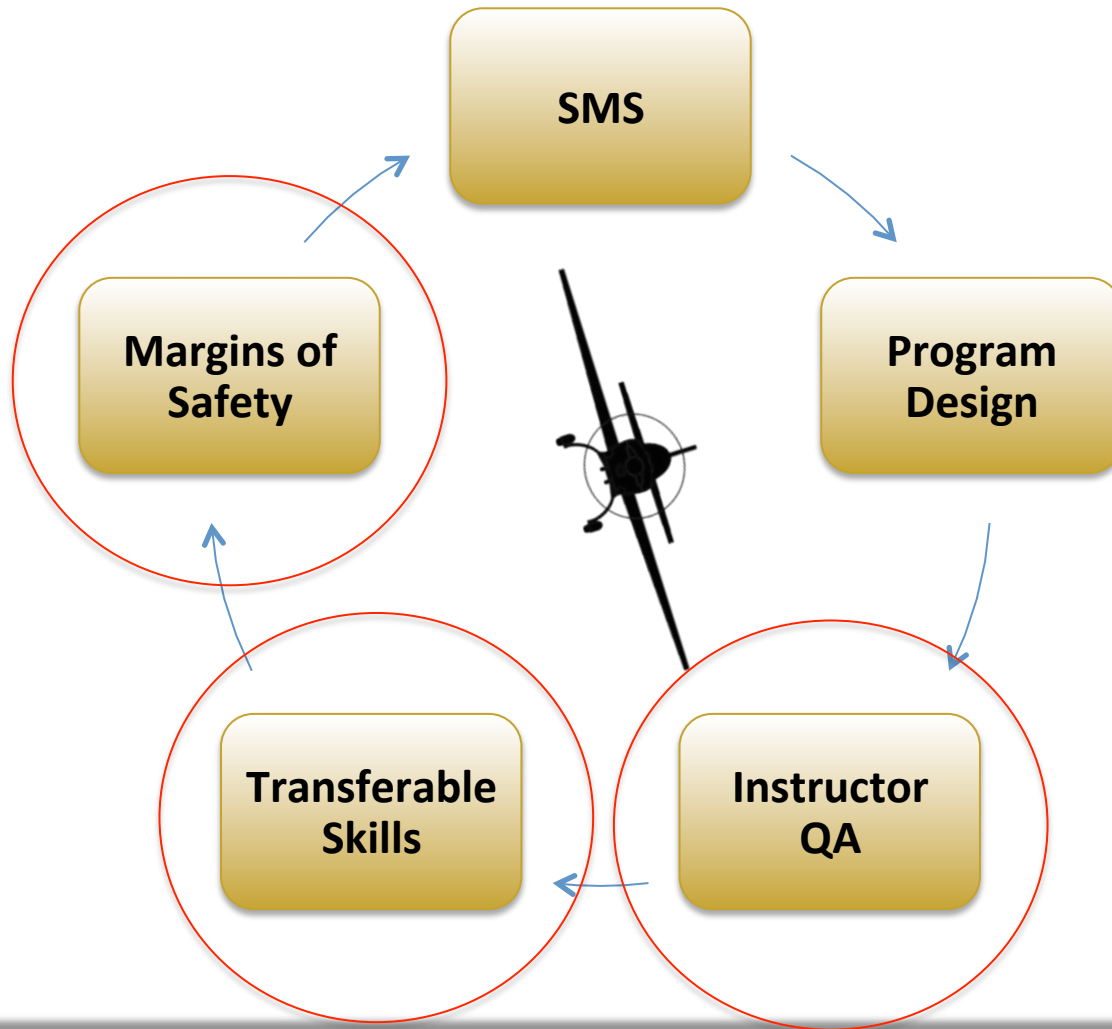
**Expert UPRT Instructors**  
Standardized & Quality Assured  
Transferrable Concepts  
Type-specific Training in Type Only  
**TRAINING vs. EXPOSURE**

Upcoming proposed Supportable Additions (UPRTA.org)

Representative Platforms: Claim More Realism in Some Respects



# On-Aircraft UPRT Framework





# Instructor Quality Assurance

- Selection
  - Experienced Teachers
  - All-attitude Experience
  - Real World Background
- Quality Assurance
  - Enforce Standards
  - Critically Assess Proposed Variations
  - Maneuvering Margin of Safety



# Transferable Skills

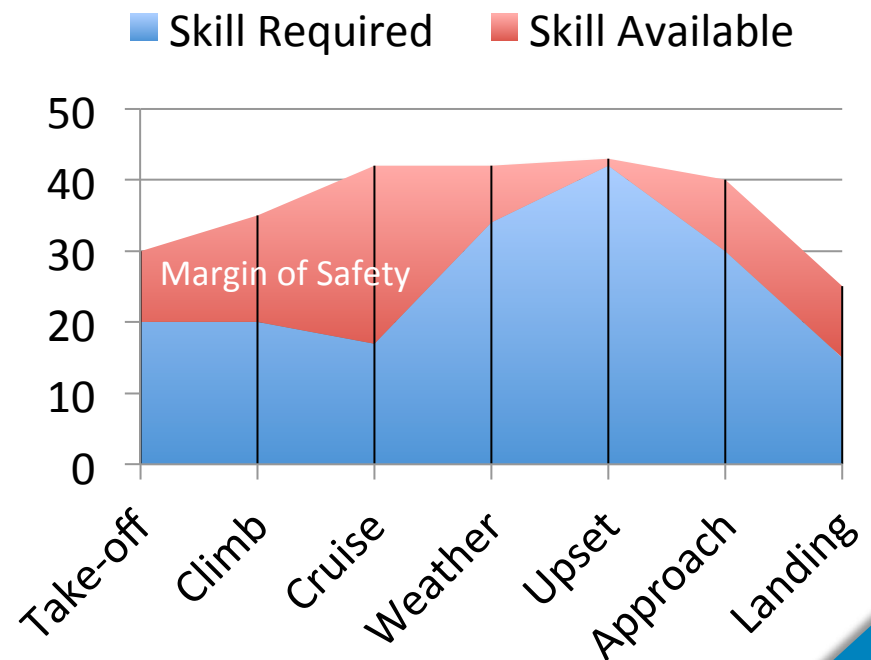
- Established Program
  - Industry-compliant (content)
  - Focused on Transfer (future use)
- Negative Training
  - What is it?
  - Incorrect Principles
- Negative Transfer of Training
  - What is it?
  - Not Reliably Transferable



# Margins of Safety

- Instructor Margins
  - Skill & Experience MUST Exceed the Curriculum Significantly
  - Currency & Fitness
- Airplane Margins
  - Must Exceed the Curriculum Significantly
  - Flight Test Limitations
  - Certification Limitations

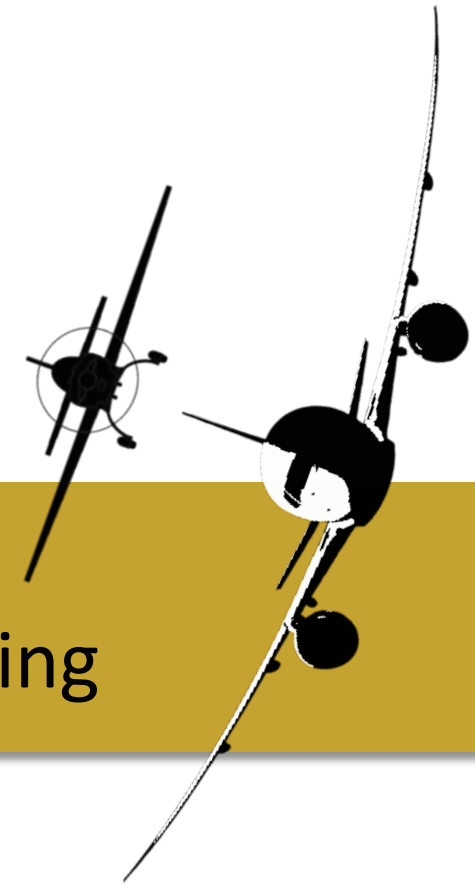
## Traditional Example



# Reaching for the Gold Standard

- SMS
  - Vetted and Recognized
  - Demonstrated
- Program Design
  - Industry-compliant
  - Building Block
- Instructor & QA
  - All-attitude Experience
  - Standardized and Quality Assured
  - Experienced in Instruction
  - Real World Experience
- Transferable Skills
  - Positive Contribution to UPRT Target
  - Negative Aspects Fully Mitigated
- Margins of Safety
  - Maneuvers Performance vs. Airplane Limitations
  - Instructors Experience and Proficiency Beyond Scope





# Gold Standard for On-Aircraft Upset Prevention & Recovery Training



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