



# Air Force Simulators Innovation The Innovation Match Game

TSIS, Orlando FL 16 June 2021

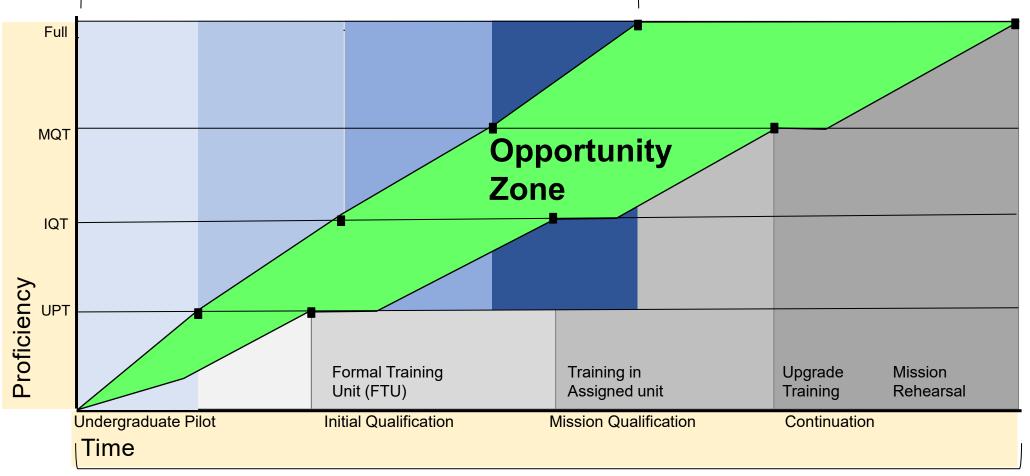
Cleared for Public Release on 9 June 2021, Case Number AFLCMC-2021-0123



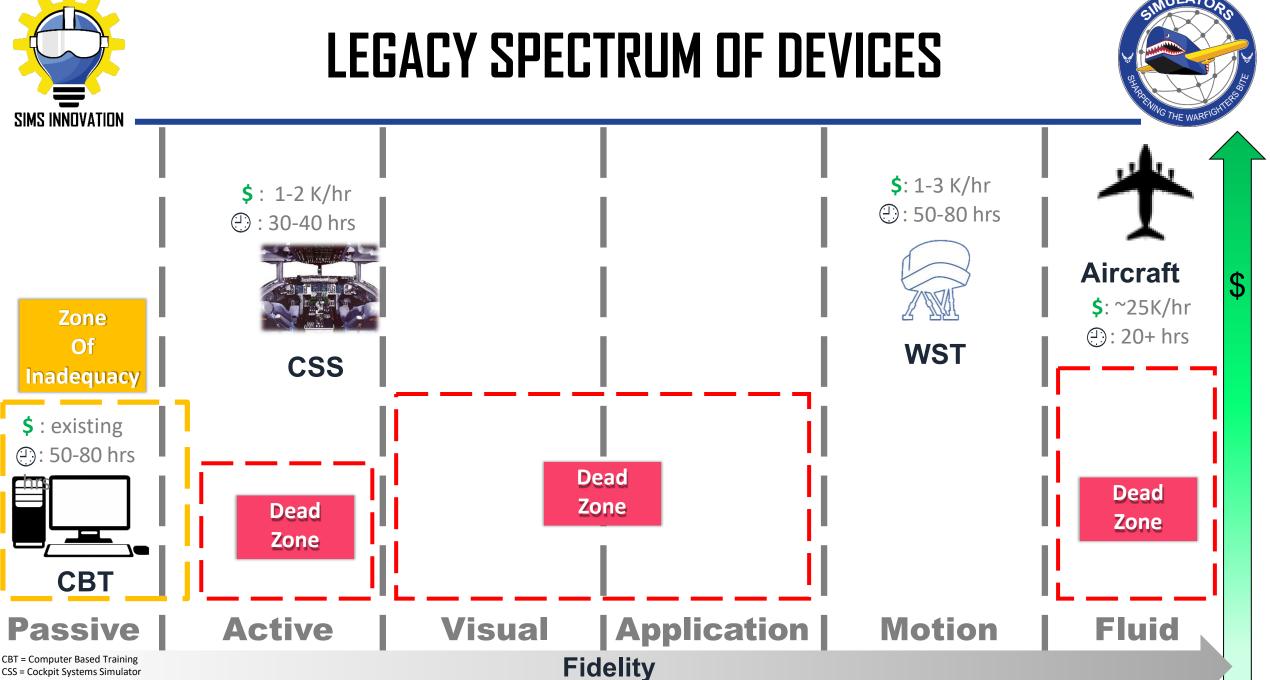
## The Goal: Improving Aircrew Production



Goal State – cut time, the same levels of proficiency

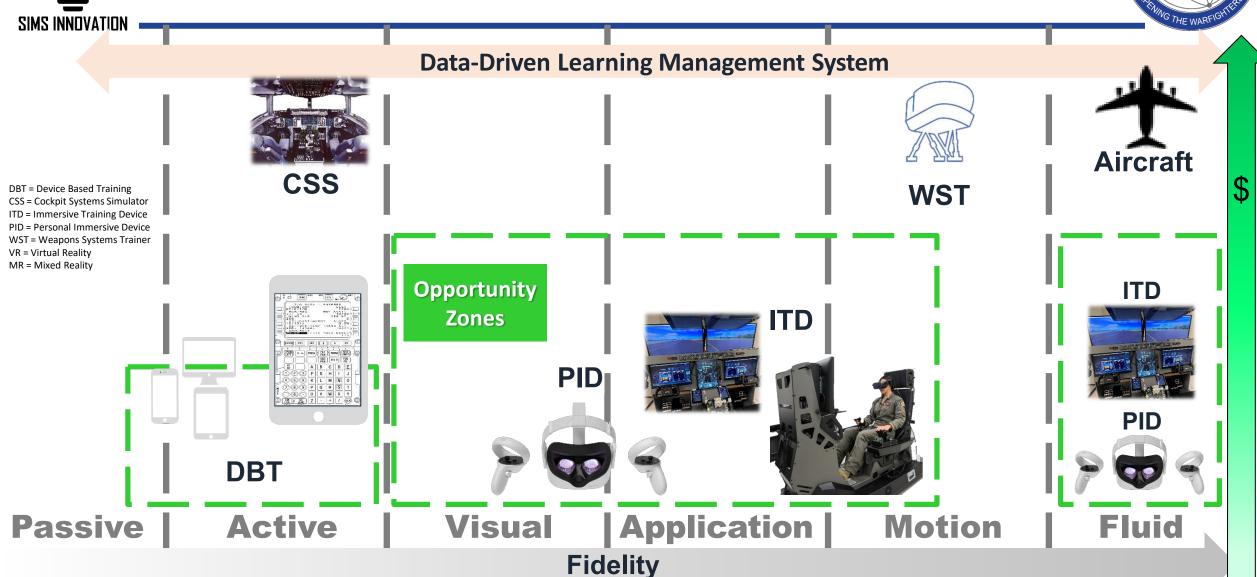


**Traditional Pilot Training - many years to full proficiency** 



WST = Weapons Systems Trainer

#### **NEW SPECTRUM OF DEVICES**



Concept adapted from 97th OG





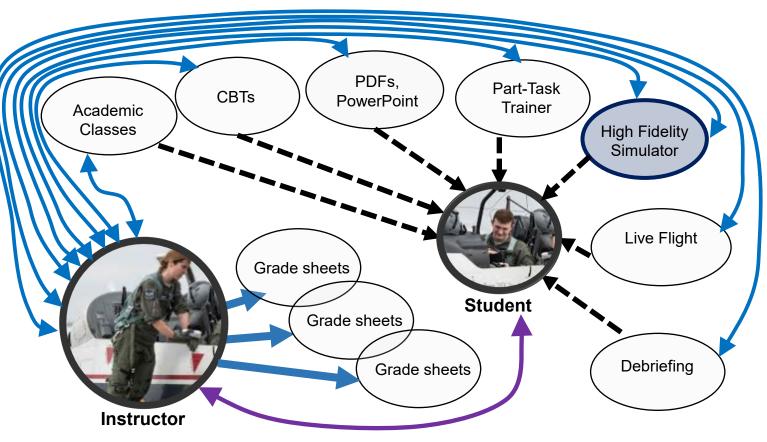
Information flows to student through tools, with little to no feedback

SIMS INNOVATION

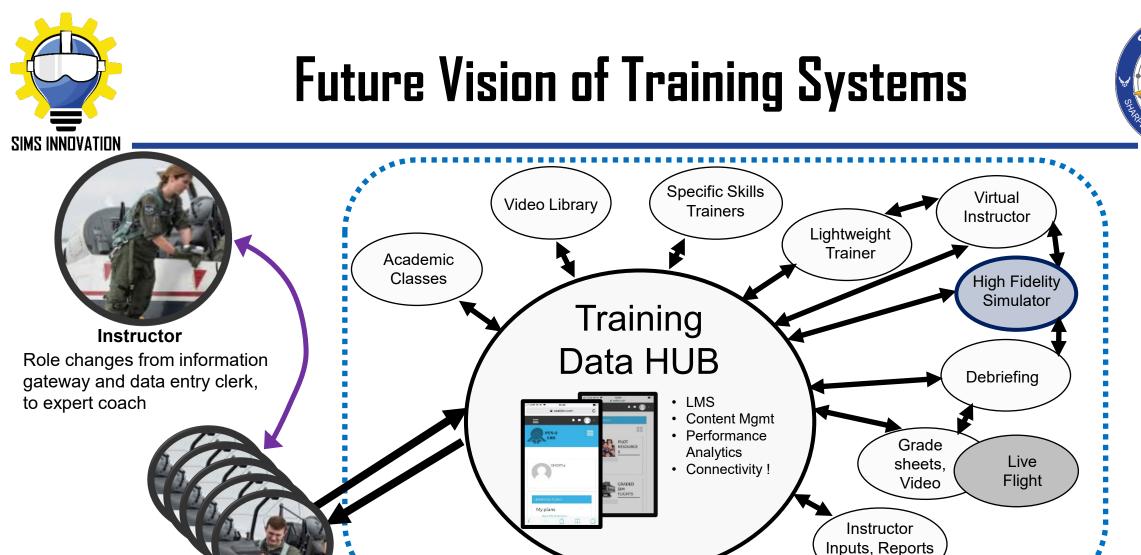
Instructor works through each tool separately with student

Data collection on performance is mostly entered by the instructor

Feedback to student is largely through instructor



This manually intensive for instructors to manage, & does not scale



Future is Data Centric, with networked tools that assist Instructors, and provides students with self-executed training options

Concept adapted from Maj Mark Budgeon, 11th BW

**Students** 



### Sims Innovation Update



- Ten Pitch Day 2020 SBIR Phase II projects
- Six Pitch Day 2019 SBIR Phase II projects, at or near completion
- Two Successful transitions to Phase III contracts, more in progress
- Challenge projects
  - With AFWERX and ACC Accelerating Pilots to Combat Ready Aviators
  - With AFWERX/STRIKEWERX & GSC Mixed Reality Air Refueling Challenge
  - With RCO B-21 Raider Training Systems Innovation Challenge
- So, what's next?



# I/ITSEC Special Event – Innovation Match Game



- Goal is to transition from ideas prototype to deployment
- Match Innovation technology to use cases in a game show format
  - Submissions from vendors and use cases will be gathered prior to event
  - Vendor technologies available to view on Expo Floor during I/ITSEC
- Benefits
  - Showcases training technologies ready for transition
  - Targets successful SBIR Phase II tech, but not limited to SBIRs
  - Match vendors with end users ready to deploy ideas
  - Provides expertise from Sims Innovation toward getting on contract



#### **Playing Innovation Match Game**







- 1. Aircrew Training personnel describe the challenge
- 2. Present three different prototypes
- 3. Audience Votes !
- 4. Reveal the choice for transition project



### Innovation Match Game – How To Participate



- Requirements for Training Unit submissions
  - Identified training need/gap
  - Willingness to participate in prototype transition
  - Advocate for sponsorship/funding within their organization
  - Unit submissions will open in July <a href="https://www.aflcmc.af.mil/simulators/">https://www.aflcmc.af.mil/simulators/</a>
- Requirements for vendor submissions
  - Successful previous DoD prototype implementation (SBIR or otherwise)
  - Willingness to pitch at I/ITSEC Event
  - Vendor submissions will open in August <a href="https://www.aflcmc.af.mil/simulators/">https://www.aflcmc.af.mil/simulators/</a>
- Note! No contracts will be awarded at I/ITSEC as part of this event
  - Timeline for each project is dependent on budgets and organizational need







# I/ITSEC 2021 Innovation Match Game