

#### Integrating Immersive Technology | 17 August

# Training in the Metaverse: How the DoD is Setting the Standard

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# Training in the Metaverse

How the DoD is Setting the Standard

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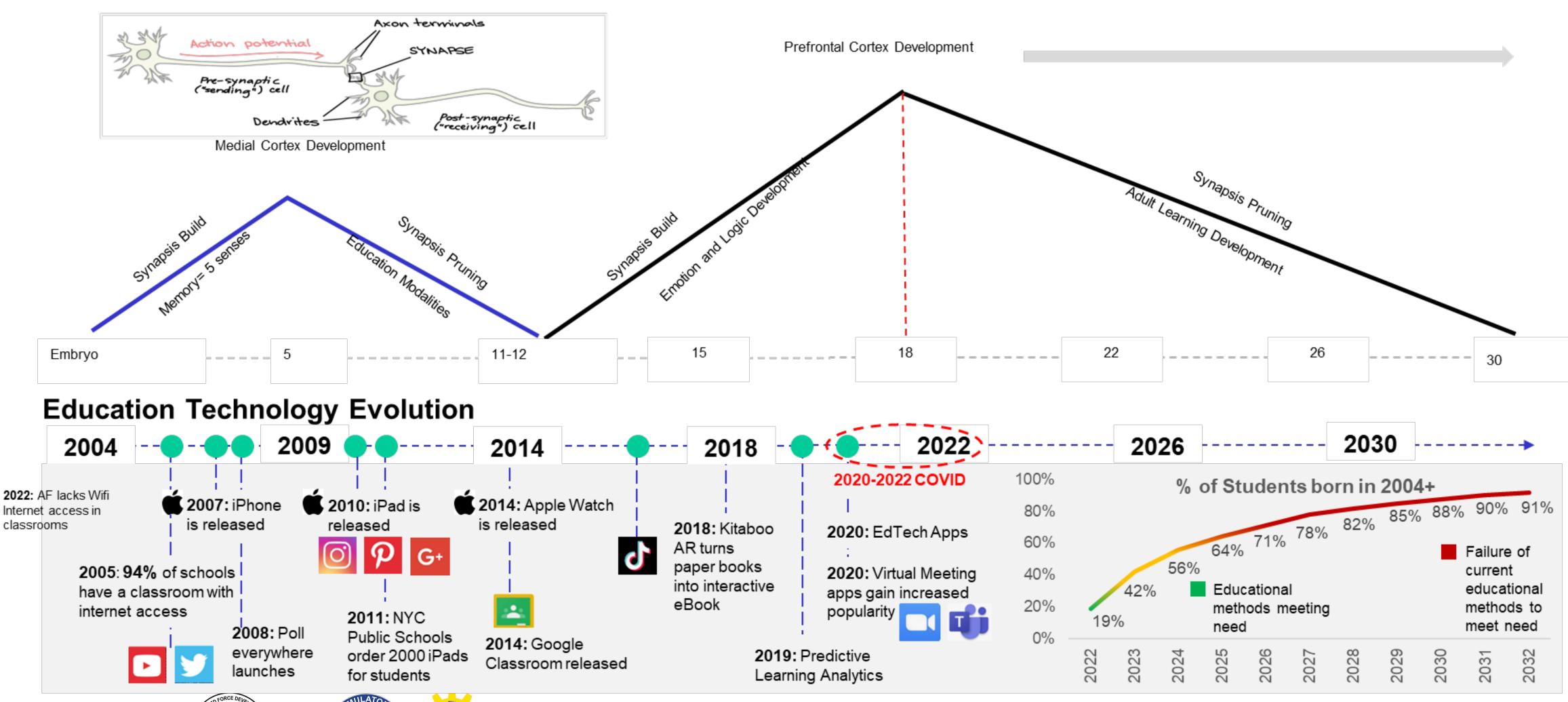
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# Learning Throughout the Lifespan



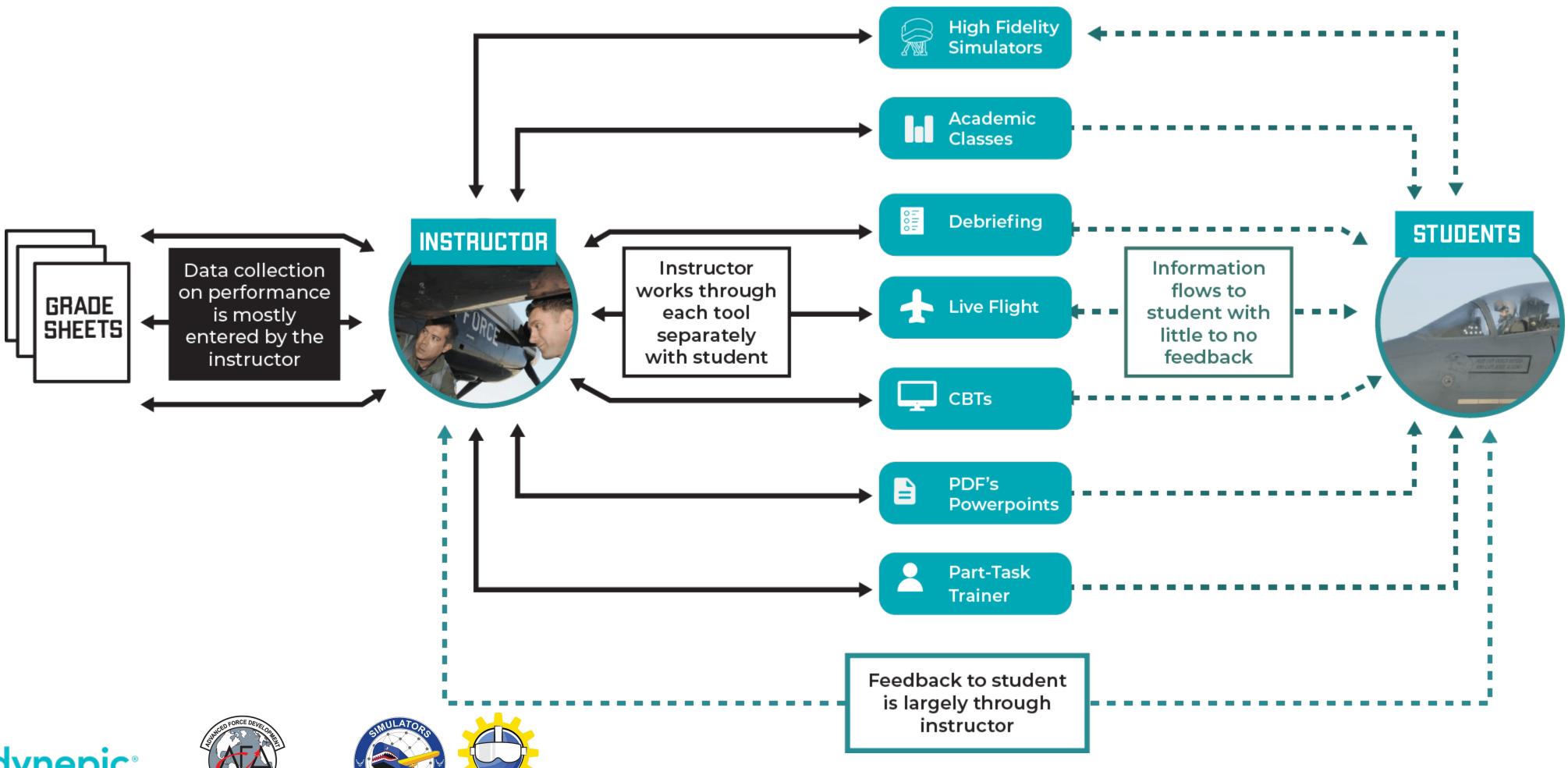






# Typical Training Process Today

Stove-Piped Systems. Manual Processes. Difficult to Update. Limited Metrics









#### **Enter The Metaverse**

- Not a new concept but has reached pop culture status
  - Everyone has different definitions!
- A digital representation and network of virtual worlds where social experiences across domains exist
- Training in the metaverse?
  - Simply refers to a digital network where immersive training can live...
  - No single or cohesive metaverse at this point
  - This talk will focus on one aspect of the 'metaverse' Extended Reality (XR)







# DoD and XR Training

XR Training is being used across the services!















# Challenges With XR Training

1 Lack of infrastructure to track, host, and report the training data outcomes

XR training solutions are stove-piped

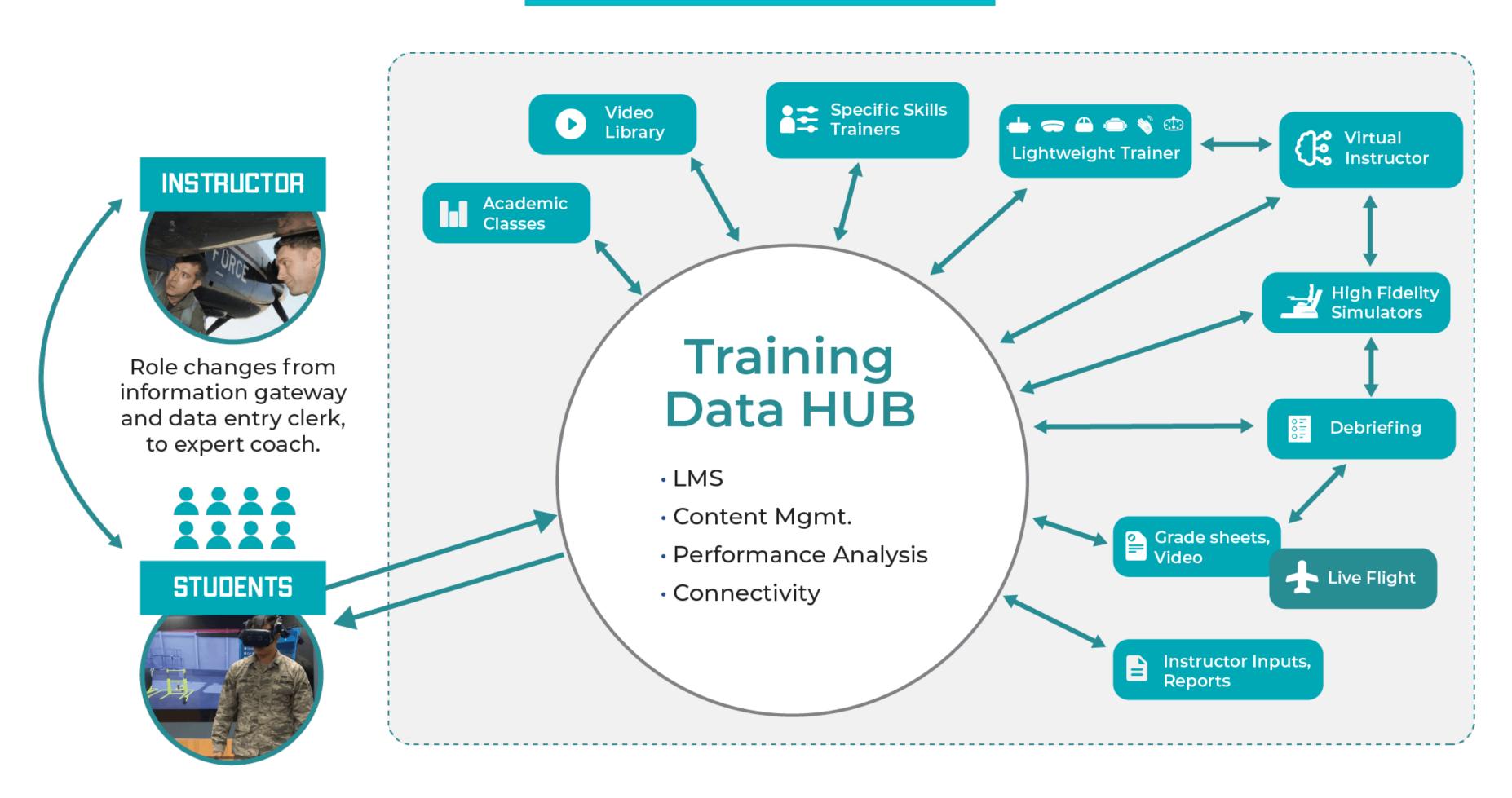
13 Lack of system integration between XR training technologies and the standard LMSs







#### Future Vision For Air Force Lightweight Sims Ecosystem (LSE)





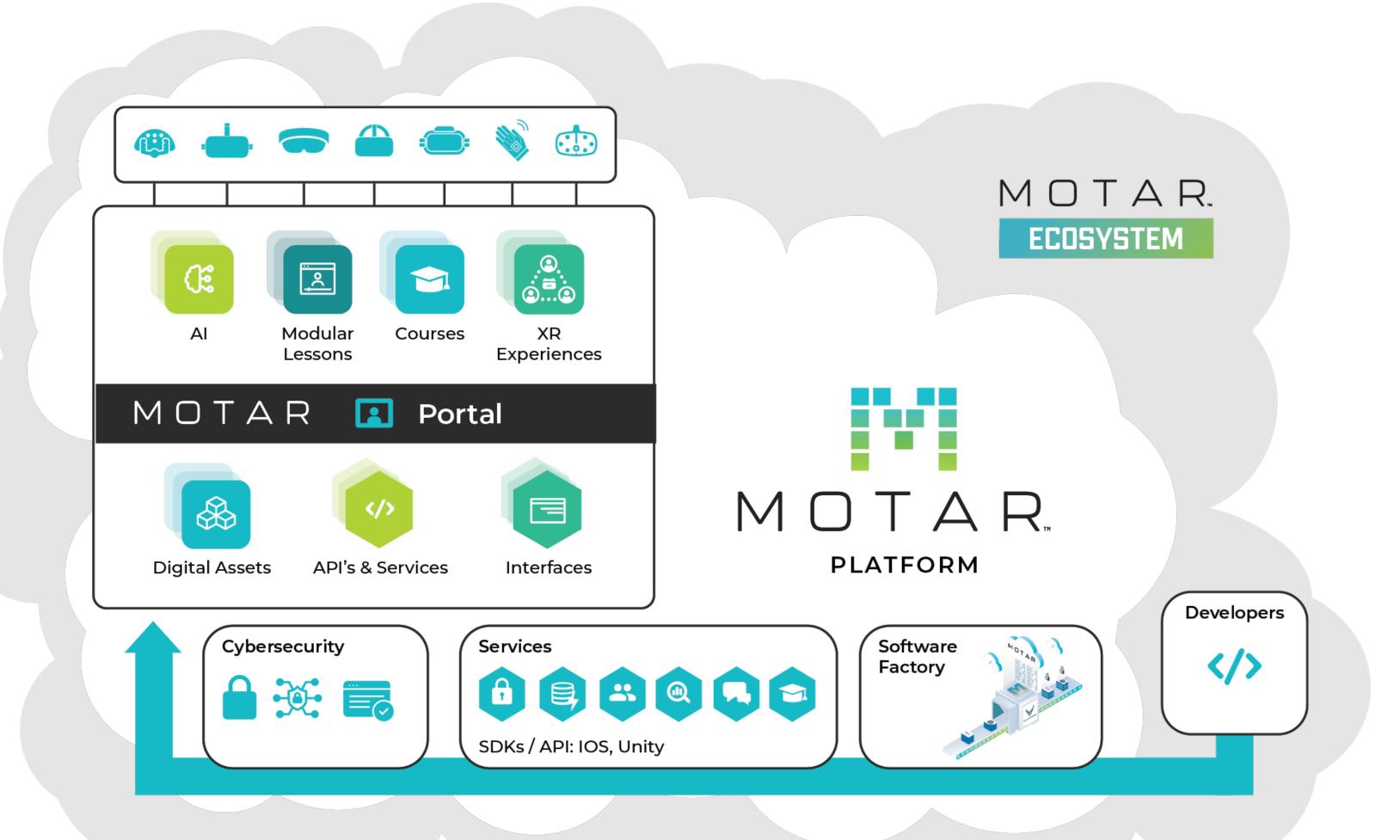


SIMULATORO

OFFIRM OF THE WARF CHAMPER

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

# Building an Open Ecosystem

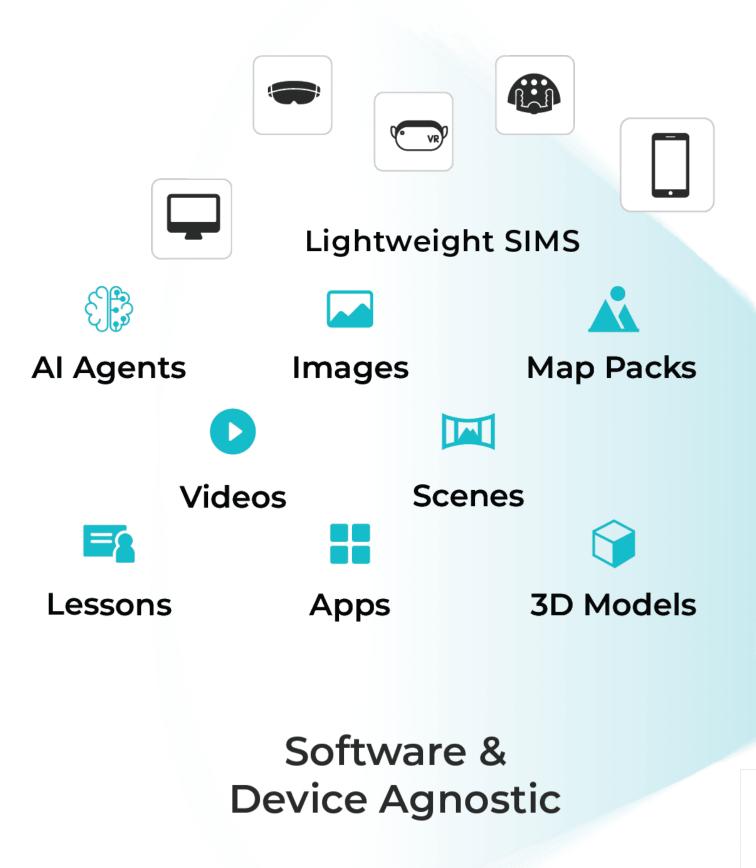


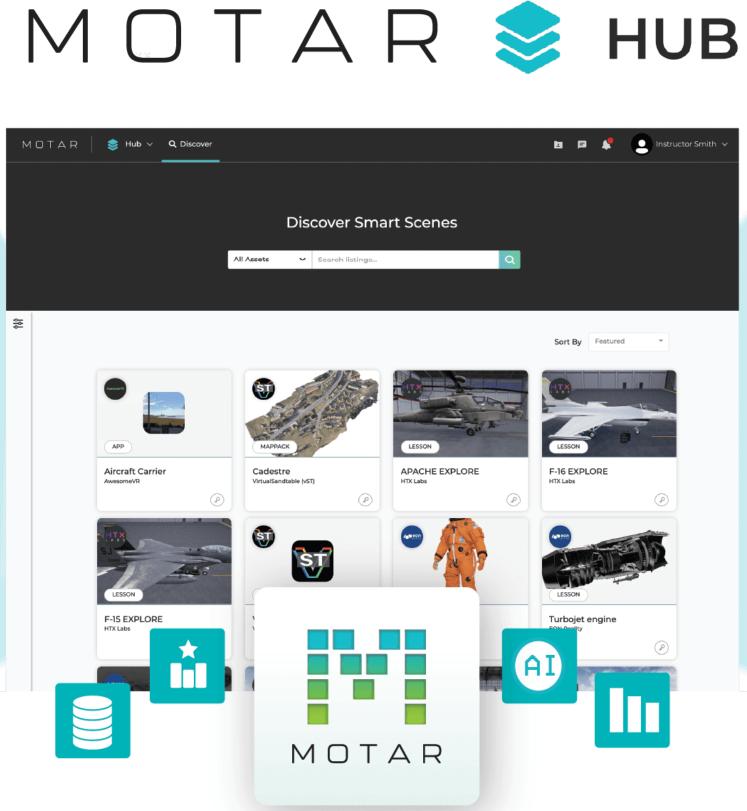






# Implementing the Vision







Modular Open Systems Approach
Open APIs and SDKs



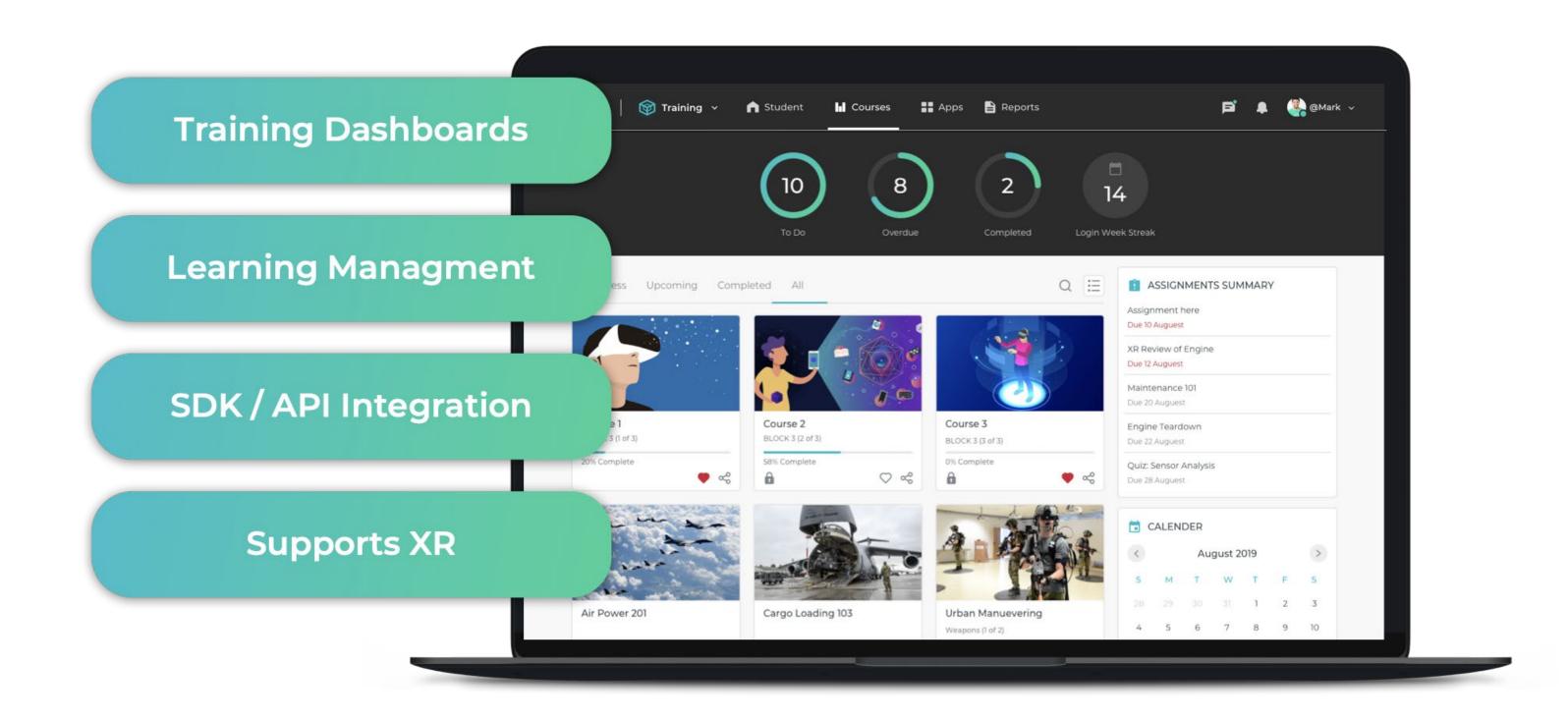






# Delivering XR Training

MOTAR is delivering XR content and reporting data through xAPI industry standards for total interoperability









### Realizing Benefits

- Pilot program with MOTAR Crew Chief Fundamentals Course
  - Powered 4 XR company's training content in one seamless experience
  - Students completed the course 42% faster than traditional instruction
  - No performance trade-offs!
  - Saves approximately \$27,000 per airmen



The DoD is revolutionizing the mechanism for delivering and reporting XR training enabling a new metaverse for military training!











# THANKYOU

### Questions?

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