

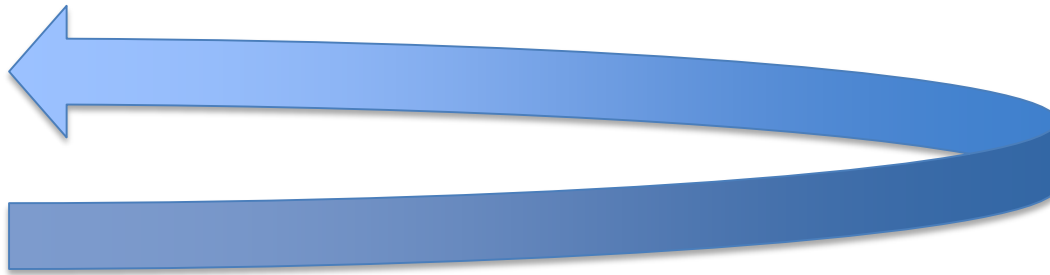


DEFSEC 2017

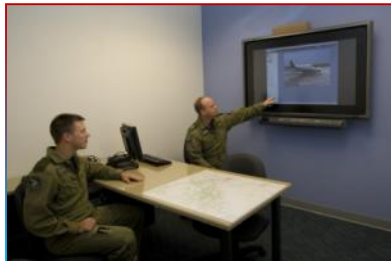
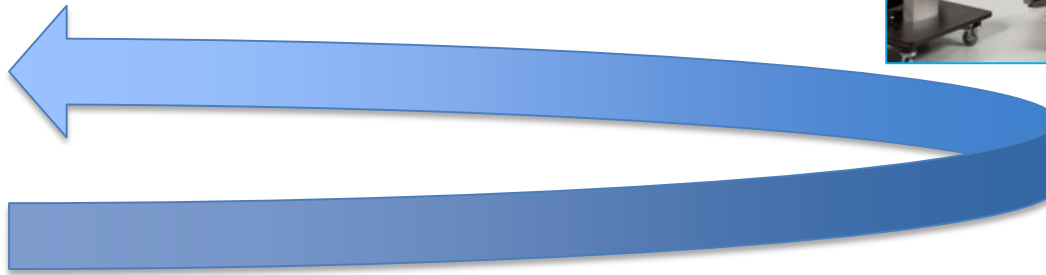
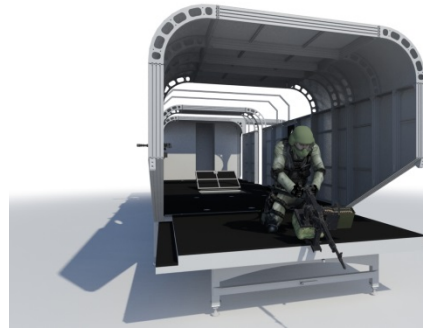
Date: 6 September  
2017

# STATUS OF TRAINING CONTINUUM AND FUTURE EVOLUTIONS

# Today

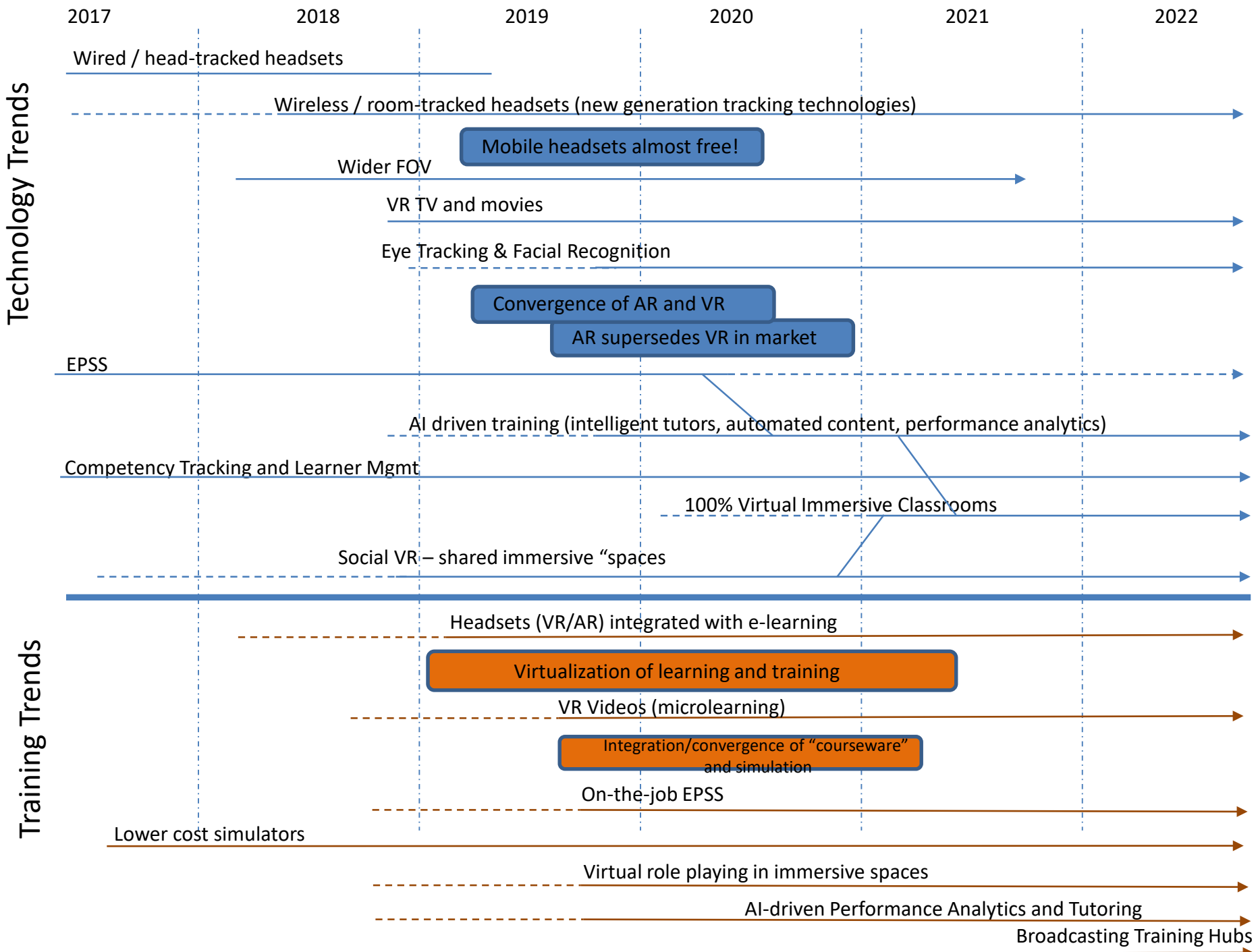


# New Training Continuum



# Future of training – More virtual





Technology Trends

Training Trends

2017                      2018                      2019                      2020                      2021                      2022

Wired / head-tracked headsets

Wireless / room-tracked headsets (new generation tracking technologies)

Mobile headsets almost free!

Wider FOV

VR TV and movies

Eye Tracking & Facial Recognition

Convergence of AR and VR

AR supersedes VR in market

EPSS

AI driven training (intelligent tutors, automated content, performance analytics)

Competency Tracking and Learner Mgmt

100% Virtual Immersive Classrooms

Social VR – shared immersive "spaces"

Headsets (VR/AR) integrated with e-learning

Virtualization of learning and training

VR Videos (microlearning)

Integration/convergence of "courseware" and simulation

On-the-job EPSS

Lower cost simulators

Virtual role playing in immersive spaces

AI-driven Performance Analytics and Tutoring

Broadcasting Training Hubs

# Bluedrop collaboration with Boeing

- Investment Framework transaction
- Development of state-of-the-art Rear Crew Mission Trainer (RCMT) for the Chinook CH-47 helicopter
- Use of latest immersive and tracking technology from gaming and movie industry



# Boeing RCMT Virtual Reality



Inside hardware structure

Virtual View





# RCMT installed at Boeing



# R&D Challenges and opportunities

- Technology
  - How should a pair of goggles follow the movement of the eye to allow the processor to manipulate the plane of focus?
  - How long should a trainee remain in a virtual environment without having negative side effects?
  - Effectiveness of complete immersive training products suite to improve training effectiveness
- Training Methodology
  - Ease of adoption
  - Transform training courseware design and interactive content
- Training Innovation
  - Improve training outcomes by bringing effectiveness through predictive and adaptive analytics
- Manufacturing Innovation
  - Adopt just in-time integrator model
  - Leverage 3D printing