



Joint Base Lewis McChord/ Yakima Training Center 5G Enabled AR/VR Prototype

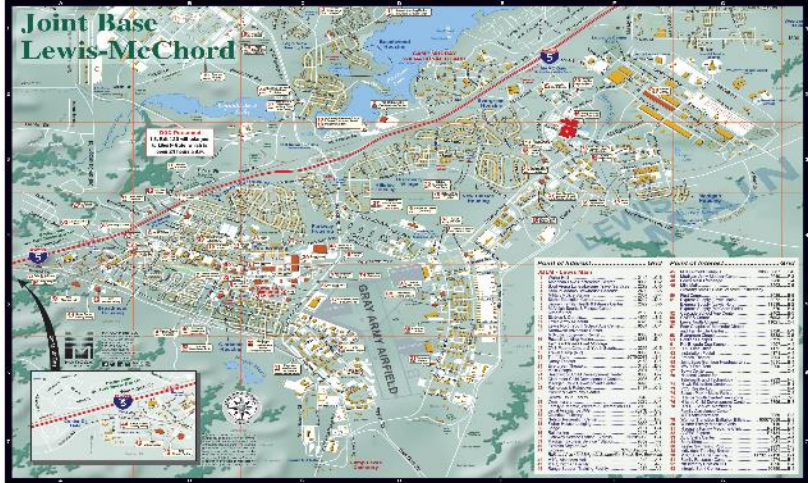
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Joint Base Lewis McChord & Yakima Training Center



- **JBLM Mission Training Complex**
 - Battle Command & Leader Training for Large & Medium Sized Units (Collective Tng Focus)
 - Call for Fire Trainer (CFFT)
 - First Person Sims (FPS)
 - Engagement Skills Trainer 2000
 - Force XXI Battle Command Brigade and Below (FBCB2) Training

- **Yakima Training Center (YTC)**
 - 511 square miles
 - 400-4100 elevation
 - 22,000 acres impact area
 - Weapons, aviation, and other specialized ranges
 - Multipurpose Training and Exercise Facility



5G Infrastructure and Network Experiments



• 5G Infrastructure

- Radio Access Network (including fixed and mobile base stations as required)
- Transport Network (connectivity between RAN elements and Core)
- Core Network (virtualized and stand-alone)

• Network Experiments

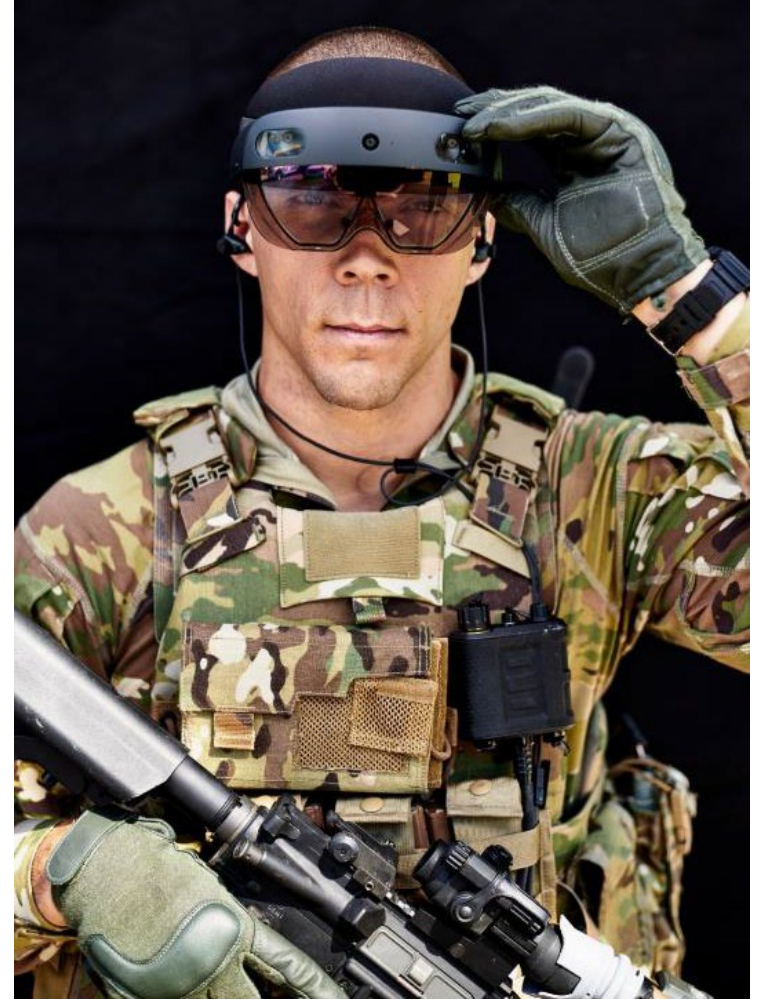
- Large bandwidth channels
- Network slicing
- Advanced network security
- Massive Machine to Machine Communications (MTC)
- Open 5G implementations



Augmented Reality/Virtual Reality (AR/VR)



- Prototype and integrate enabled AR/VR hardware and software
 - Integrated Visual Augmentation System (IVAS)
 - Synthetic Training Environment (STE)
 - Multiple Integrated Laser Engagement System (MILES)
- Develop a venue (i.e., testbed) to characterize the capabilities
- Assess the efficacy of the prototype in supporting AR/VR enhanced distributed ground combat training
- Contribute to Army AR/VR operational concept development





AR/VR Outcomes



- **Rapidly field a scalable, resilient, and secure 5G network at JBLM and YTC that serves as a prototype design for the DoD and Army Enterprise**
- **Provide a JBLM test bed for experimentation with advanced 5G networking capabilities**
- **Develop and field an Army 5G enabled AR/VR capability for mission planning and training**
- **Improve the operational capability of the JBLM MTC and the lethality our Soldiers in the field**



Its important that we get your best...

