

**HENSOLDT Sensors – Simulation Solutions** 

# Enhanced Readiness

2024/05/28 – Tobias Sorg, HENSOLDT Sensors



Detect and Protect

**Detect and Protect** 

## **Our heritage** Innovation is at the core of HENSOLDT's DNA





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## Capabilities

Our core competence is to detect threats and protect what matters most



- Optical communication in space Planet and space observation Protection in space Space consulting
- Air traffic control Identification friend-or-foe Platform protection Air defence ISTAR
- Situational awareness
- Air mission management Electronic support and attack

- Observation and targeting Situational awareness
- Reconnaissance and surveillance
- Platform and force protection
- Electronic support and attack
- Command posts
- Smart energy solutions

- Coastal surveillance Platform protection Situational awareness ISTAR
- Navigation
- Electronic support and SIGINT

- Border protection Infrastructure protection Force protection
- Counter drone

- Controlling the
- information space
- Embedded secure IT
- Tactical cyber security
- Cryptology and secure communication
- AI-based OSINT analytics
- Private cloud service



### Detect and Protect

Enhanced Readiness through XR Gaming Technology

## **Serious Games in XR?**

## "A type of game that utilizes XR tech for a purpose other than pure entertainment."

https://en.wikipedia.org/wiki/Serious\_game





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## Some Use Cases



https://unimersiv.com/military-incorporating-vr-troop-training/



https://militaryembedded.com/avionics/software/military-skillsshortage-augmented-reality



https://www.youtube.com/watch?v=bFRB8kSWhRE

Immersive simulation scenarios.

Enhancing real-world training with digital elements.

Integrating virtual and real-world components.



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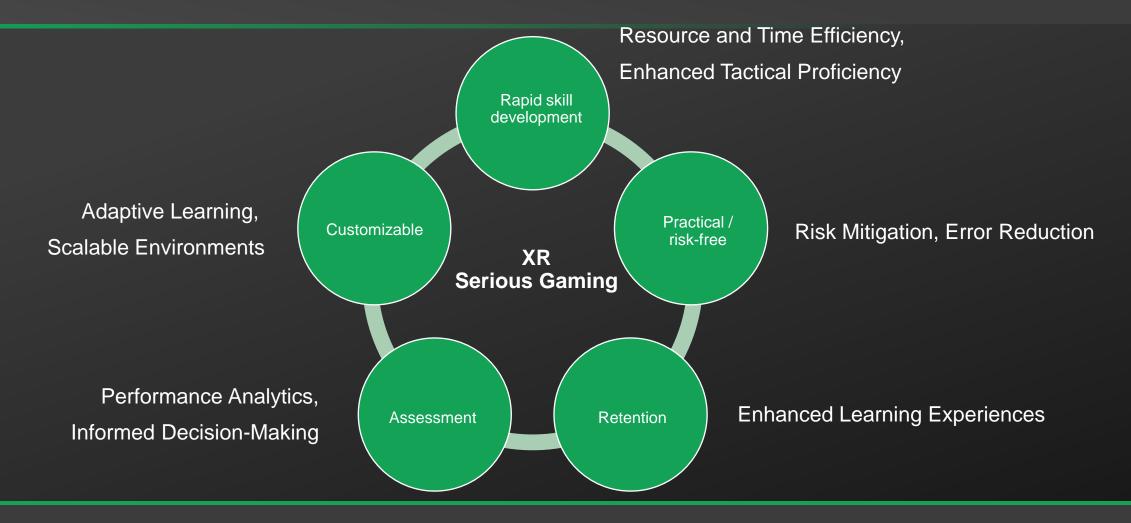
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## Challenges in Military Training 23

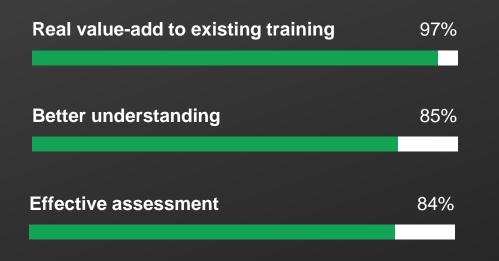


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Study: VIRtual Training of Urban Operations as a Multi-user Scenario

by HOLOGATE and German Army '2024







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## **Today's Limitations**



**Technical Limitations** 



High Initial Costs



Simulation – Reality Discrepancies



Dependency and Over-reliance



Cybersecurity



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## **Thanks for your Attention**



## Why XR Serious Gaming?

- Enhanced Learning Experiences: Increased Retention and Recall, Immediate Feedback
- Improved Realism and Immersion: Multi-sensory Engagement, Multi-sensory Engagement
- Enhanced Tactical Proficiency: Advanced Skill Development, Stress Acclimatization
- Increased Safety: Risk Mitigation, Error Reduction
- **Resource and Time Efficiency**: Cost-Effective, Time Optimization
- Global Accessibility and Collaboration: Uniform Training Standards, Enhanced Collaboration
- **Customization and Scalability**: Adaptive Learning, Scalable Environments
- Data-Driven Insights: Performance Analytics, Informed Decision-Making



### **Detect and Protect**