

Immersive Technology in the Education of the Community Paramedic





Disclosures and Introductions

- Co-Creator of the first rural USA based CP program in 2009
- International CP Curriculum
- RN and Sudden Cardiac Arrest Survivor
- Director of Nursing for VRpatients

Overview

As healthcare education grows increasingly complex, immersive technology has **emerged as an accelerant to learning.**

Experiential learning - from virtual (VR), augmented reality (AR), to mixed reality (MR), **increases the effectiveness of recall and retention.**

XR provides real-life experiences without real- life consequences.

This presentation will explore the impact and potential of immersive technology in the education of the Community Paramedic.

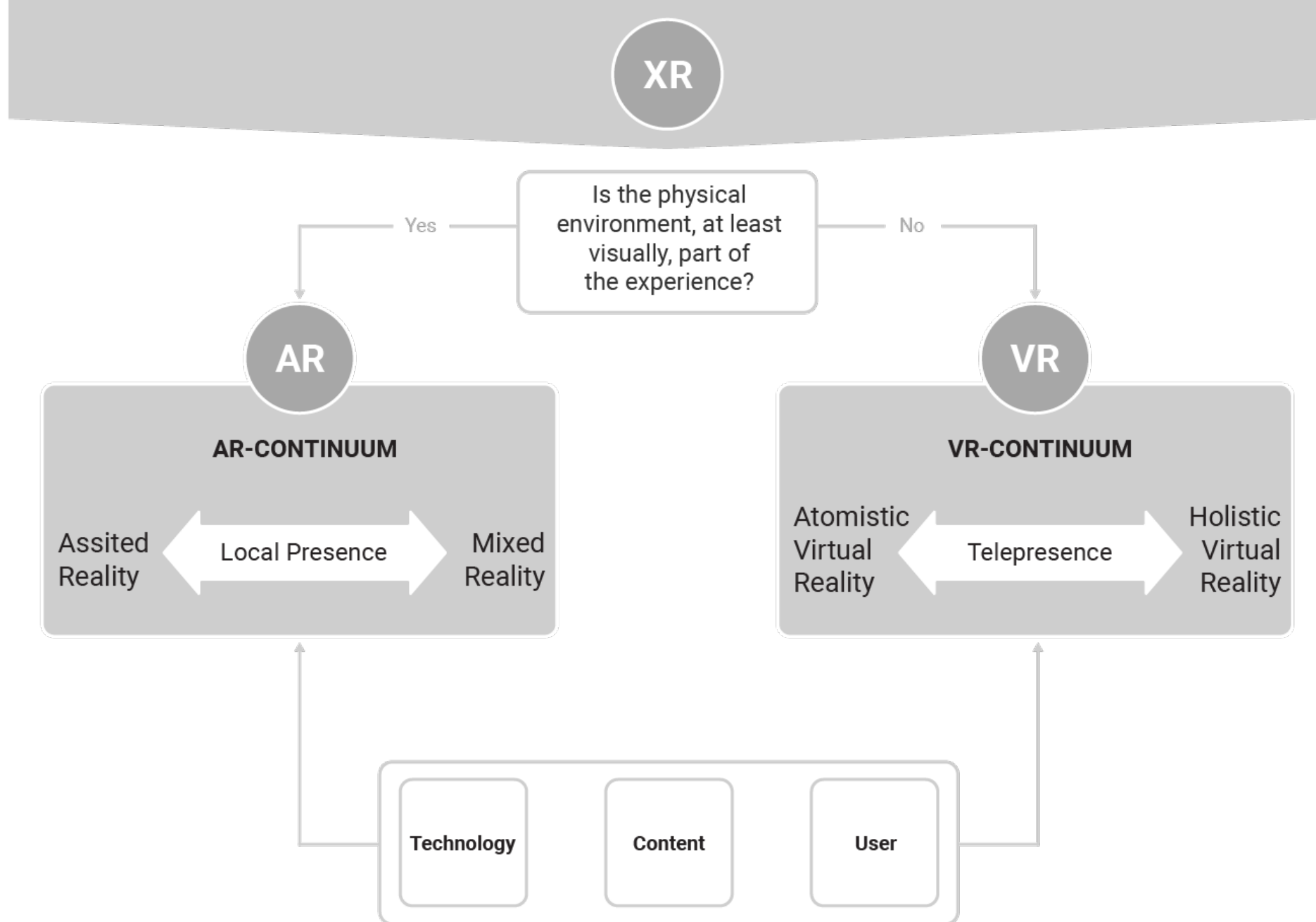
IRCP Friends for Life



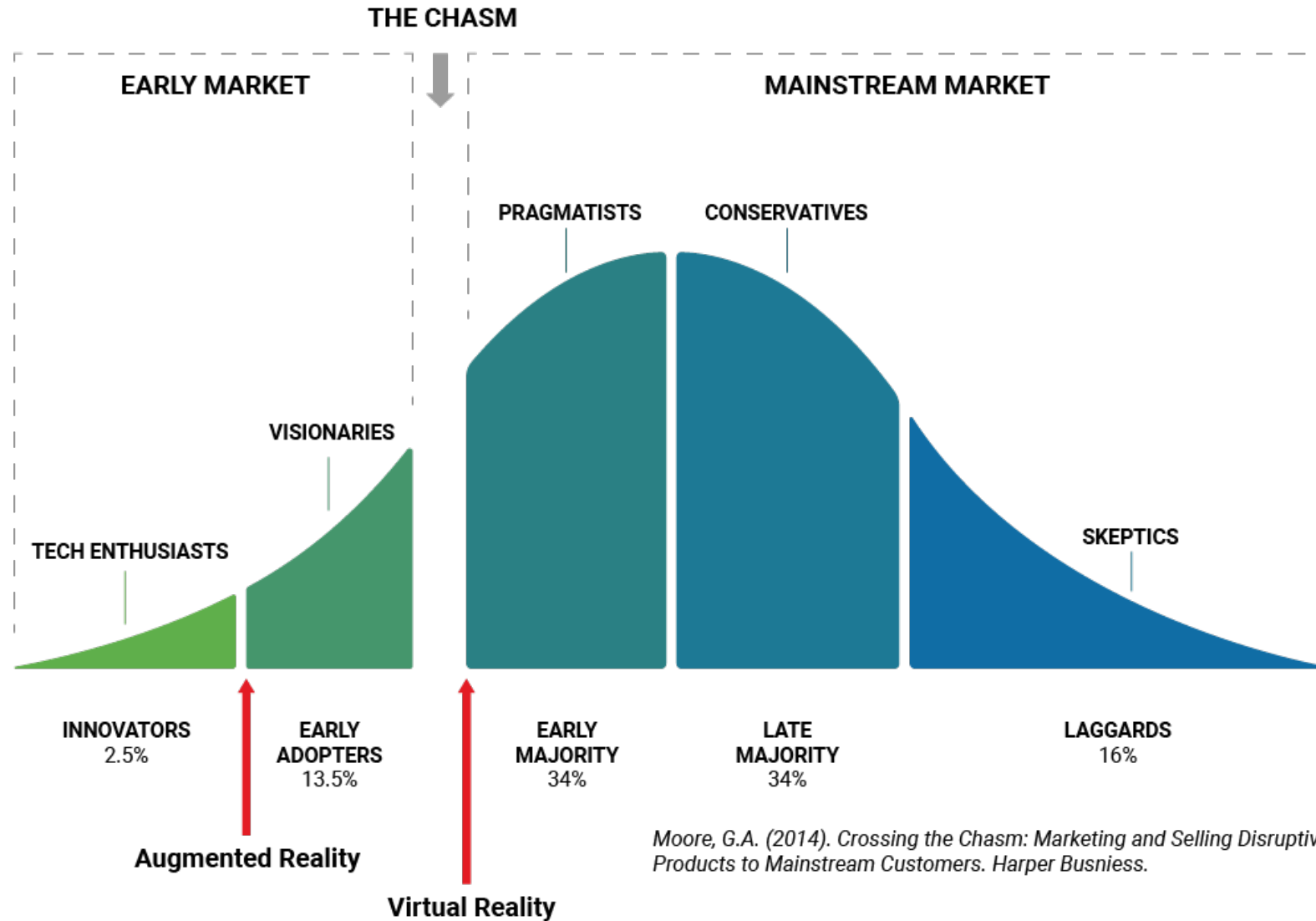
Virtual Reality: Beyond the Hype



1. Critical Thinking Scenarios
2. High Accuity, Low Frequency
3. Bringing Healthcare to Rural Areas
4. Supporting Providers



The Adoption Curve



The Value and Opportunity with VR

Virtual Reality creates an enriched, sensory experience that leads to higher knowledge acquisition, comprehension and performance. **Research shows high school students scored 20 percentage points higher** on curriculum taught using VR versus classroom training alone.

In the healthcare industry, **VR/AR is growing 55% annually**. The healthcare market is second only to gaming in overall size and growth rate and **VR/AR market projections are estimated to reach \$5.1B by 2025**.

Forbes magazine recently cited **VR among its list of nine technology trends** that will transform medicine and healthcare in 2020 and beyond.

Beijing Bluefocus E-Commerce Co. and Beijing iBokan Wisdom Mobile Internet Technology Training Study, 2016

Goldman-Sachs

Virtual Reality in Healthcare Market: Global Industry Analysis, Trends, Market Size and Forecasts up to 2023, Infinium Global Research

SMART Partnership for Your Success

Partnerships and the Role to Support the Customers:

- Commitment to provide an **effective, robust, tested & validated, medical education platform**.
- Should only integrate **deployable, scalable, and sustainable technologies**, as timeframe appropriate, into a platform.
- Choose a platform that will give you **both PC and VR applications**
- Should consult with internal IT for integration to existing digital infrastructure.
- **Should focus to protect and enrich your digital investment**, while remaining relevant with technology and as medical education subject matter changes.

Global Digital Technology Society Consensus:

- Artificial Intelligence (AI) will have significant effects on society, to the same or greater magnitude as the telephone, TV, computer, cell phone and the internet.
- **Virtual Reality (VR), Mixed Reality (MR), and Augmented Reality (AR)** will all have an impact on digital delivery interface for society in the future, and they **are at different stages in the adoption curve today**.
- It is a new era in the digital evolution.



Benefits to VR include:

- It's FUN – it's the first digital generation
- Goal-Oriented Learning
- Recruit Next Generation
- Cost-Effective Learning
- Standardization of Assessment and Treatment
- 100% Objective

Value Proposition

- Increase **Student Pass rates** from memorable and experiential Scenario's
- Increase **consistency & reproducibility** in education experiences across all students
- Increase student's **frequency of occurrence** with High Acuity and Low Occurrence (HALO) patient encounters
- Improve student **diversification of encounters** in clinical decision-making scenarios
- No two patient encounters are alike, and one can **keep up with the true training requirements pace**
- **Eliminate or reduced time** for educators to create/reset/clean-up simulations.
- **Reduces costs in capital and operating expense** in Simulation

Case Studies of Successful Immersive Technology Integration

- Idaho Trauma & EMS Conference
- State of Maine EMS
- Extensive studies ongoing showing effectiveness



The Way Forward for Community Paramedics



Embrace Technology



Beyond Initial Education



Simplicity is Key



Questions & Thank You!

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