Welcome

Training For Tomorrow, Today
Transforming MEWP Safety
with AI & Immersive VR/XR
Technology

Terry Allen President and CEO

SERIOUS INDUSTRIAL MOTION SIMULATORS



Introduction & Partnerships









"The Dream Team in AI/VR/XR"

Our Partnership Brings Together:

- SIMS Motion-based MEWP & Forklift VR simulators with proven results and deployments in Government, Petrochemical, Oil&Gas, Construction, Training, Engineering, Airline and Aerospace. DRG & Mass Virtual in the US Military (Mission Ready).
- From The Future Al-powered training platforms and VR development expertise since the industry's inception
- Shared Vision Creating safer, more competent operators through immersive, intelligent training solutions
- Proven Results Measurable reductions in incidents, improved proficiency, and clear ROI



VR Journey: From 1990s to Today

Early 90s: First Wave: High Friction Era

VR attempted but impractical - massive equipment, tethered systems, prohibitive costs

2009-2012: Palmer Luckey's Breakthrough

Working from a trailer, Palmer Luckey cracks the VR code and founds Oculus, selling to Facebook for \$3 billion

2014: Oculus Rift Launch at Comic-Con

From The Future team developed the launch VR experience that introduced the world to consumer VR

2016: HTC Vive at US Tennis Open

FTF created the Maria Sharapova tennis experience - so immersive, users dove for balls

2018: Wireless Revolution: Oculus Go

First wireless mobile headset - game changer for training. No more tethers or massive computers

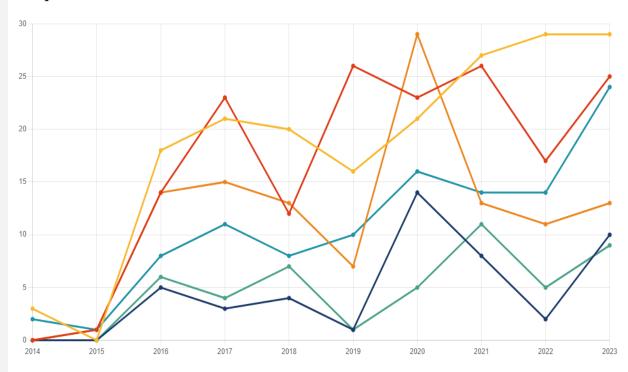
Today: High-Fidelity Full-Motion Operational Training

Full physics-based simulations of boom lifts, scissor lifts and Forklifts. Equipment can tip, malfunction - true-to-life training not replicated in the yard





Top Six Fatal Incident Trends



- IPAF 2024 Global Safety Report, 145+ MEWP Fatalities
- Over 96,000 serious forklift incidents across North America led to injuries, damage, and work stoppages
- OSHA estimates that 70% of forklift accidents could be prevented with better training





Deaths Serious Injuries Non–serio

Forklift accidents in the United States cause around 85 deaths, 35,000 serious injuries, and 62,000 non-serious injuries each year, according to the Occupational Safety & Health Administration (OSHA).



Non-serious Injuries



The Skill Gap: What Needs to Change?

- 1. Train to a higher safety standard
- 2. Train for competency and continuous improvement
- 3. Measure competency continuously or on-demand



SIMS MEWP VR Simulator

The award-winning SIMS MEWP VR Simulator is the world's leading tool for building advanced MEWP and Forklift skills with motion-based VR platforms and realistic controls.

97% Predictive | 30-min Assessment | 45-min Upskilling | >50 Scenarios

- ✓ Motion-based platform with real-world machine controls
- ✓ Built to OSHA/ANSI and IPAF Standards
- ✓ Practice challenging maneuvers in risk-free environments, Assessment and Remediation
- √ Targets areas for improvement based on operator behavior

"Since using the VR simulator, we have increased staff competency and drastically reduced incidents involving lifts around our aircraft." — Rick Brown, United Airlines







Game Changer: Al-Powered Training

From The Future's HoloGPT Platform: Al is real-time instructor, assessor, and grader simultaneously

Comprehensive Knowledge Base

Al knows all rules, regulations, operator manuals, and standard operating procedures

Interactive Real-Time Coaching

Operators can ask questions during training and receive immediate, contextual guidance

Live Assessment & Feedback

Continuous proficiency scoring based on efficiency, safety, and procedural compliance

Maintenance & Troubleshooting

Al teaches equipment maintenance, quizzes on requirements, creating well-rounded operators



Innovation Example: Al Spotter Persona

Intelligent Coordination Between Operator and Spotter

Knows SOPs & Regulations

Al persona understands all standard operating procedures, safety protocols, and spotter requirements

Communication Mastery

Understands all communication terms, hand signals, and verbal commands used in MEWP operations

Behavioral Coaching

Recognizes what operators should and shouldn't do, providing real-time behavioral guidance

Coordination Training

Trains both operator and spotter roles, teaching seamless coordination and teamwork



Three Applications for Maximum Impact

1. Initial thru Advanced Training

Build foundational competency and advanced skills for operators. Learn equipment operation, safety protocols, and best practices in a risk-free environment before touching real equipment.

2. Competency & Readiness Checks

Pre-work practice for specific job sites and tasks. Assess operator readiness before working onsite or for specialized environments like confined spaces or aircraft maintenance. Example: Dow Chemical requires 7 to 8 scenarios before working at height onsite.

3. Extended Reality (XR) Bridge

Transition from VR simulation to XR for actual procedure practice. Position equipment in VR, then switch to XR to perform real tasks such as maintenance on aircraft components accurately and safely.



The Business Case & Proven Results

Measurable Business Impact

Reduced Incidents

Proven track record of drastically reducing MEWP-related incidents

Improved Proficiency

Measurable increases in operator proficiency scores in just 45 minutes

Increased Productivity

Better-trained operators work more efficiently and confidently

Clear ROI and Risk Mitigation

Quantifiable cost savings through incident prevention and improved efficiency

Microsoft/Mace Engineering (Powergate) Case Study



A major UK builder was constructing a data center for Microsoft.

A wide variety of operator licenses and proficiency levels on site meant risk levels were uncertain.

After several incidents in 2024 including a fatality, Microsoft intervened and asked the builder to improve their MEWP safety.

Working through a rental company, the builder acquired two SIMS simulators to assess and train all their operators.





1280 Operators assessed over 15 months completing 1552 Scissor and 314 Boom assessments

On boom lifts, **34% failed** the assessment.

On scissor lifts, **21% failed** the assessment.

Operators who failed were required to continue upskilling or not approved to work at height

Case Study, Continued



Proficiency levels rose across the workforce, with improvements recorded by the simulator.

Some operators required multiple attempts to pass the Verification of Competency (VoC) assessment, highlighting variability in individual performance The simulator is now a regular part of the onboarding and upskilling for all operators.

In the 15 months since implementation, there have been zero MEWPs incidents or near misses.

Microsoft Mandating Simulator VoC at all locations

"Most of these guys are learning more with me during these assessments than they are when they're supposedly getting trained in the first place."

Onsite Training Lead



Safety and Incident Reduction

Eliminating Operational Hazards through VR Training

- **Zero Incidents:** Achieved a 100% reduction in MEWP-related incidents at Powergate
- Collision Mitigation: 88% of initial failures were collision-related, addressed through immersive VR training, reducing risks to personnel and high-value assets.
- Safety and Readiness: Eliminated MEWP incidents, protecting personnel and ensuring uninterrupted construction schedules in high-stakes environments.

Training Effectiveness & Error Reduction



Improving Operator Performance and Situational Awareness

- Error Reduction: Reduced observational errors by 50–59% and entrapment errors by 60–63% through VR-based refresher training, improving operator situational awareness critical for working at height and logistics.
- **Skill Gap Identification:** Assessed 1,280 operators, revealing 21% (scissor lifts) and 34% (boom lifts) failed initial tests, enabling targeted upskilling to ensure competency.

Driving Sustainability and Budget Optimization (Cost/Resource Efficiency)

- **Efficiency Gains:** Simulator-based training minimized equipment wear and fuel use, supporting Corporate cost-saving goals.
- **Cost Efficiency:** Zero-emission VR training reduces reliance on live equipment, lowering maintenance costs and aligning with an organization's sustainability objectives.

How the VR Simulators Make a Difference

Quickly and accurately assess all operators' proficiency, no matter what licenses they hold

Provide targeted upskilling to address any skill gaps

Regular re-assessment and upskilling as necessary – onsite, without disrupting operations





The Future

Where We're Heading

- Continued AI advancement with more sophisticated personas and predictive competency modeling
- Seamless XR integration allowing operators to transition from simulation to real-world procedure practice
- Scalable training solutions deployable across entire organizations with centralized analytics
- Industry-wide safety improvements through data-driven insights and continuous competency development and measurement (Periodic Competency Check attached to Operator Card)

