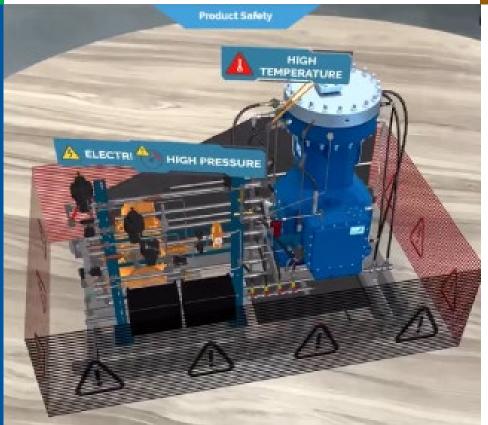
GTI ENERGY NextGen TRAINING CONSORTIUM

January 14, 2025





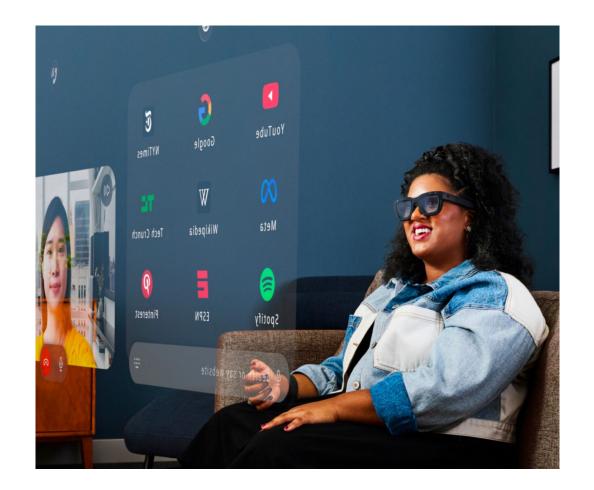
3D Visualization with Augmented Reality

Jayant Mathur, Sr. Program Specialist



Meeting Agenda

- Introduction to Augmented Reality (AR)
- Features and capabilities
- Benefits of the technology and Use cases
- Development and distribution
- Open forum and wrap-up (not recorded)
 - We have a new GTI Energy offered course on innovative training technologies!





Introduction to Augmented Reality



"Digitally overlaying visual and auditory 2D/3D content onto the real-world environment", augments and enhances one's perception of the physical world.

Training about hidden assets can benefit from digital augmentation of the physical space.



Features and Capabilities



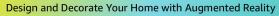
Object recognition

Marker recognition and geo-location positioning



Benefits of the Technology and Use Cases

View in Your Room





Retail



Maintenance and Repair



Construction

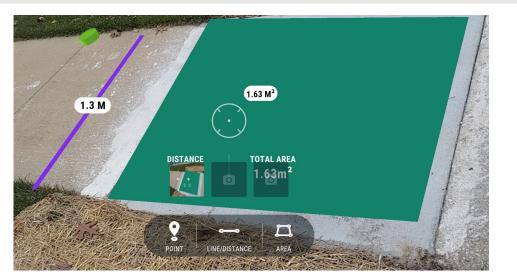
Visualizing digital twins and assets in physical spaces promotes informed decision-making.



Benefits of the Technology and Use Cases

Topics well-suited for AR-aided training

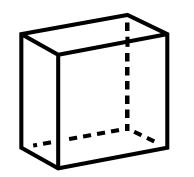
- Damage Prevention
- Facility Locating and Marking
- Site Surveying and Navigation
- Excavations
- Machine Operations and Maintenance







Development and Distribution



Collect or produce 3D assets

(e.g., CAD models, 3D scans, digital-twin data, etc.)



Import into an augmented reality (AR) development environment



Leverage a content distribution platform, serving as the primary location to **run** and **deploy** to devices



Non-immersive devices



Digitally immersive devices

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Thank you. Questions?

Or share a little about these:

- Was this your first time learning about Augmented Reality?
- Did you notice any technology limitations that would make you hesitate to use it at your organization?
- What was something new or interesting in today's demonstration?



New Course on Training Technologies

March 21, 2025

Innovative Training Technologies: Exploring Tools and Applications

Virtual Instructor-led Training

Course Overview:

This engaging training program introduces participants to cutting-edge technologies that are transforming the learning and development landscape, particularly with utilities, pipeline operators, and trade schools. Attendees will gain practical insights into how these innovations enhance training effectiveness, boost learner engagement, and improve knowledge retention.

Target Audience:

- Training and Development Professionals
- Instructional Designers and Educators
- Technology Enthusiasts
- Organizational Leaders
- Technical Trainers

When

March 21, 2025 F: 10:30 am-1:15 pm CST

Course Format

Virtual Instructor-led Training

CEU 0.25 | PDH 2.5

Registration Cost

\$125





Scan the QR code to register for this course!

Or contact Ray Deatherage at rdeatherage@gti.energy