3D Immersive Virtual Reality Training

Peter Richmond
EYESIM Product Manager
Mobile App: Please take a moment…

Check into Session by:
- Select Detailed Schedule
- Select the specific session
- Click on “Check in”

Take Session Survey by:
- Select Detailed Schedule
- Select the specific session
- Scroll Down to “Survey” and Provide Feedback
The next generation…
The next generation....
Immersive 3D virtual reality

- 3D CAD
- HD Photo
- Laser Scan
- Dynamic Simulation
- Operating Scenarios
- Mobile Apps
- Dynamic Animation
- Augmented Reality

EYESIM
One Platform - Many applications

- Licensed Technology VR Showroom
- Procedure Training
- Safety Scenarios
- Maintenance Planning
- Crew Training
- Equipment Understanding
- Hazop Design Evaluation

EYESIM
Product Videos

- Here I will show 3 / 4 video clips of the technology
Scalable Technology

CAD Like Graphics
- Import
- Navigation
- Selected object Interaction
- Increased interaction

Photorealistic Graphics
- Increased Texturing
- Dynamic Animations
- Complex Scenarios

Increased interaction
Increased Texturing
Dynamic Animations
Complex Scenarios
EYESIM for CAD review

Ergonomic CAD Review
Interactivity

3D VR
Dynamic Plant
Trainee (Field)
Trainee (Control Room)
Augmented Reality
Training on Safety and Critical Tasks

- Rarely performed in reality
- React quickly and correctly
- High stress conditions
- Team training
- Communications
Instructor Performance Analysis
EYESIM Hardware Options – Any VR

VR “CAVE”

EYESIM “KIOSK”

EYESIM PC(s) wt NVIDIA Graphics

VR “Helmet”

Occulus (prototyping)

3D TVs

3D Projection
Training Facility of the future
New Virtual Reality Technology

- Oculus Rift
- EYESIM engine ready
- LEAP Motion
- R&D review
New Virtual Reality Technology

Oculus

VR Control

Omni Platform

V1 Prototype

STEM System

Wireless Motion Tracking System
Operate and Maintain…
Next generation delivery

EYESIM in the Cloud

EYESIM Apps
Recent Projects
ENI Refining - Italy
Department of Energy - USA

DYNSIM & EYESIM Technology is Powering the AVESTAR Training Center

Combined Coal Gasification, Power Plant and CO₂ capture

Control Room & Field Operator
- 25 different plant sections
- 200 field operator actions and process malfunctions
- 30 major malfunctions/accidents
- Full Training Program
Major Petrochemical Company
BG Group – Offshore application
Kuwait Oil Company (KOC)

Oil and Gas Gathering Facility
- Complete OTS and ITS System
Thank you!