How Mobile AR (Augmented Reality) can transform Safety Training

Traditional training tools fail to address D.I.R.E scenarios

Dangerous

Situations are too dangerous to reproduce in real life.

Impossible

Situations are impossible to reproduce, like being in the confined space of a mine.

Rare

Scenarios depend on unexpected external factors. such as earthquakes.
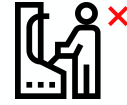
Expensive

Scenarios are too costly to reproduce in real life.

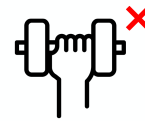# New distance learning tools fail to address real-life hands-on training

Poor knowledge retention

Students' spatial memory is not activated.

No interaction

Students don't interact with a physical device.

Lack of practice

Students lack repeated practice to build muscle memory.

AR on mobile bridges the gap between theory and practice, enabling new powerful modes of learning.

1 billion mobiles and tablets
already AR compatible

Life size

Objects are rendered in real size and superimposed over reality. There is no limit to the size of digital objects.

Motion tracking

The user's movements are tracked with the device's camera and sensors within an area of up to 500 sqm. Images displayed on-screen are rendered in real time according to the user's position.

HD 3D graphics

Digital Object details are so accurate they look real. Even the audio is spatialized and becomes louder as the user gets closer to the source of the sounds.

SENAR is the first platform to enable immersive training on mobile devices
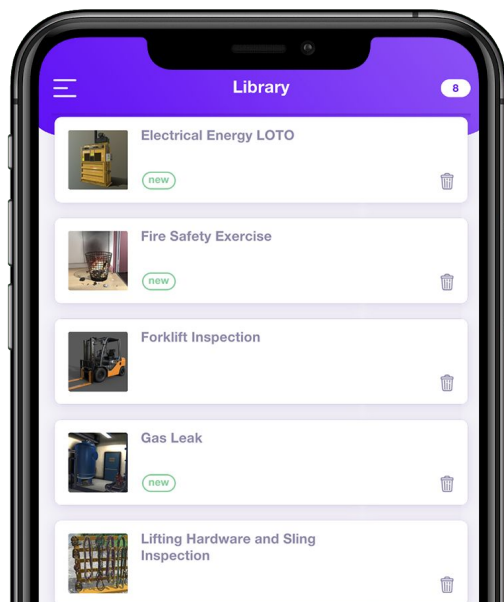
Simulator templates

A set of APIs, UX/UI, 3D templates to quickly deliver AR (Augmented Reality) simulators for safety training.
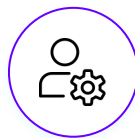
Senar Studio (backend)

Students have access to a collection of simulators based on their profile, accessible from anywhere remotely or in the classroom.

Application

Compatibility with phones and tablets, enabling fast deployment without the friction that comes with a VR headset.
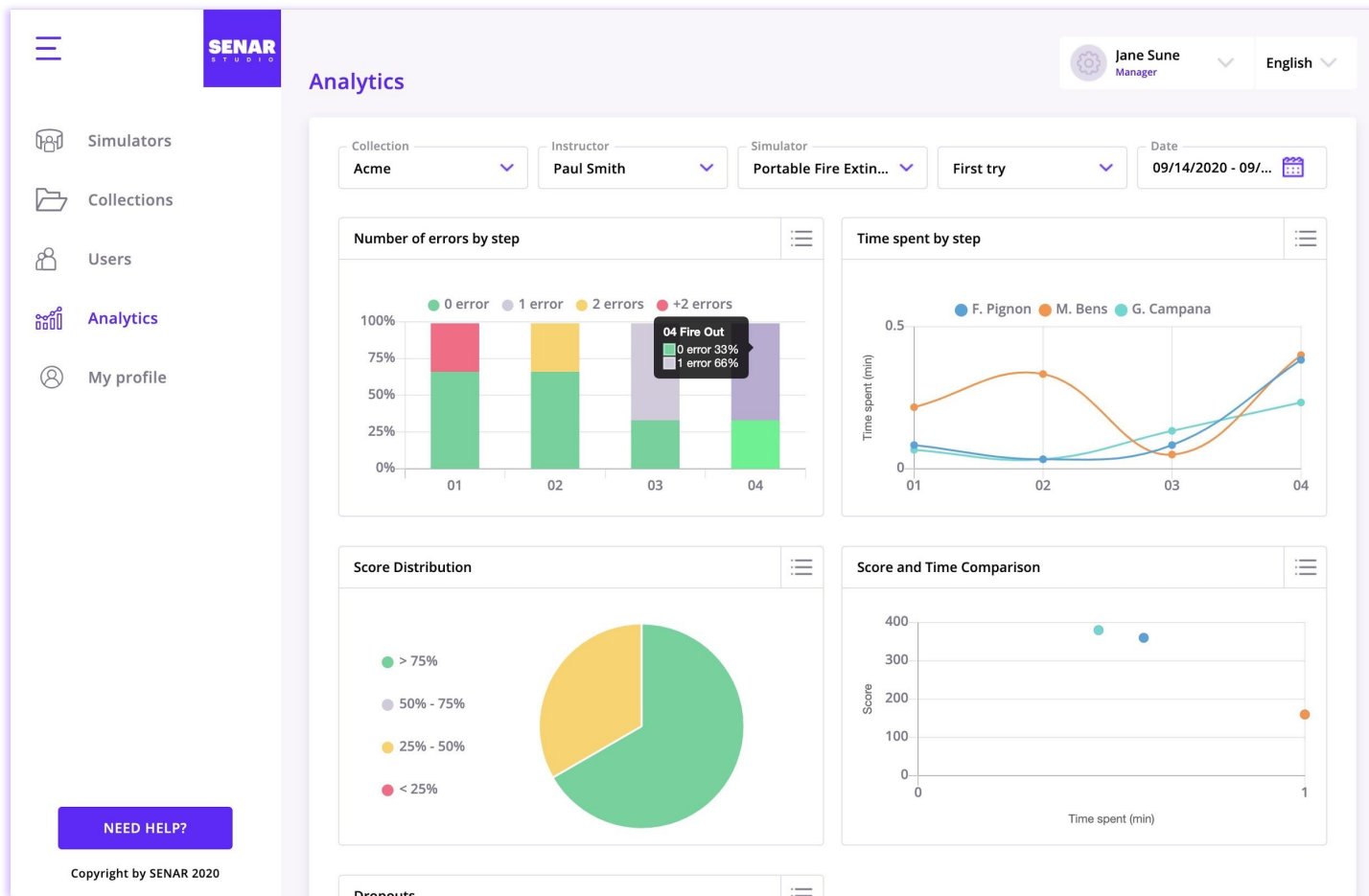
3 modes: Demo, Training or Assessment

Screen sharing through video call, remote or classroom training, assessment with score and session logs.

Analytics

The data captured by the Senar app provides a lot of insight into what students are doing and how they are progressing: number of tries, failures, success rate, duration, etc.
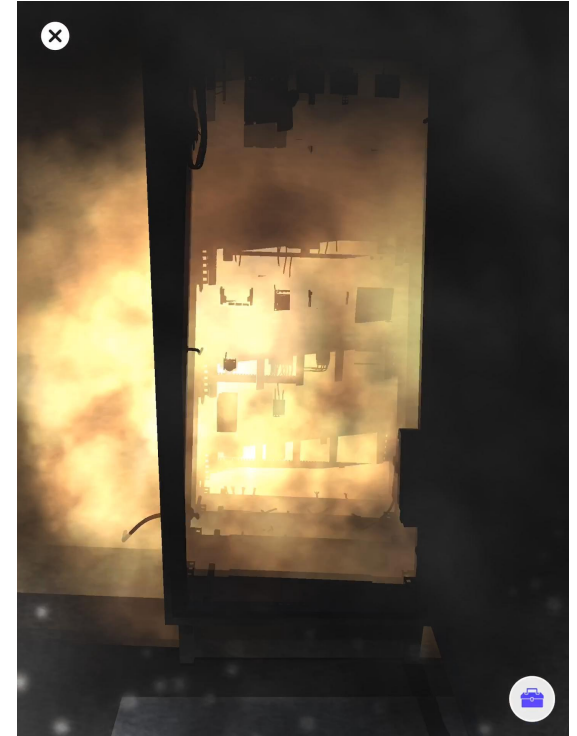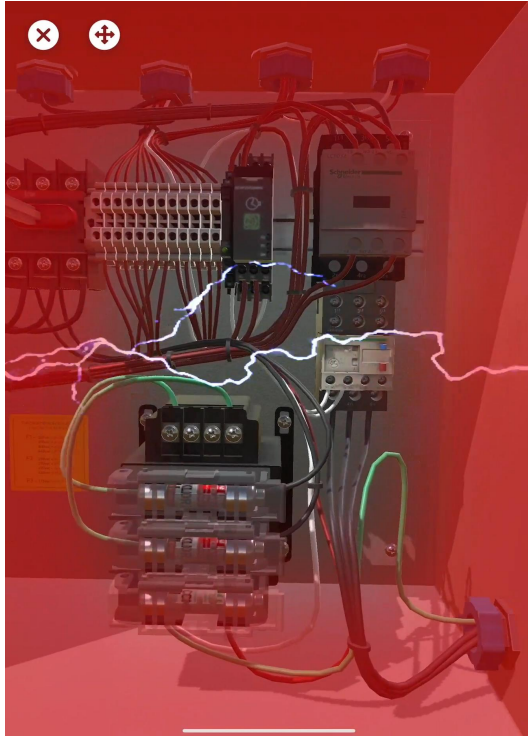
Library   8

Electrical Energy LOTO
new

Fire Safety Exercise
new

Forklift Inspection

Gas Leak
new

Lifting Hardware and Sling Inspection

Analytics
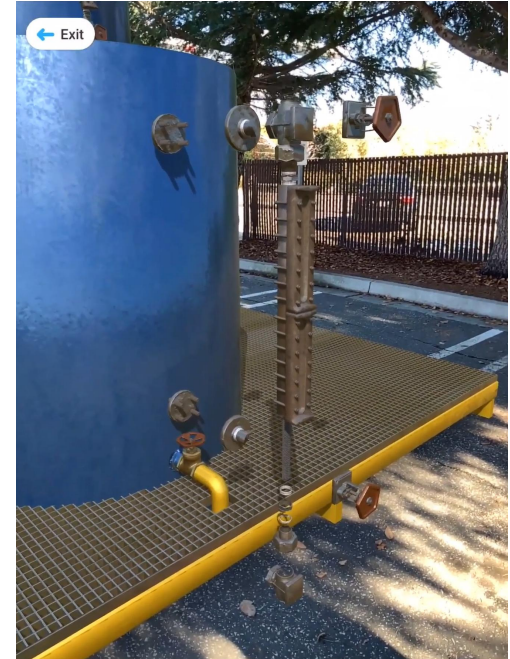
Examples

Crane accident

Examples

Electric shock, Gas leak, Arc flash

Examples

Airplane frame, Excavator, Exploded view of a gauge.

Demo 1

Harness Inspection

Demo 2

Fall Protection Training

Demo 3

Emergency Fire Safety Procedure

AR Increases Safety & Performance

Increase focus and engagement

Because AR is visual, fun and happening in the real world, it increases engagement and focus. This works particularly well with younger generations accustomed to quick feedback, reward and interactions.

Boost knowledge retention

Immersive training activates spatial memory in the brain, increasing retention by up to 80%. As a result employees performance and safety improves significantly in real life situations.

Develop practical training

By practicing first by themselves in AR, whether in the classroom or in a remote location, trainees can build awareness and get to the required level more quickly before practicing in a real environment.

Be prepared for hazardous situations

Students are immersed into "what if" scenarios where they can experience the consequences of wrong decisions for themselves. They build natural reflexes in situations which would be out of reach in real life due to difficulty, expense, danger, or sheer impossibility.

Thank you!

- **Try out 6 simulators:** download SENAR

- Watch our Demos

- Download our White Paper

SENAR