

## For Driver Familiarization Training Simulation



**Connect, Visualize, Train**

### 3D Representation of Your Airfield

Illuminex AI's Digital Twin for Airside Driver Training and Familiarization leverages proprietary AI and automation to rapidly deliver an Unreal Engine-based, high-fidelity 3D model of your airfield. We capture precise details of infrastructure (surfaces, lighting, signage, and operational elements) for authentic immersion, enabling seamless replication of real-world conditions in driver simulation systems. This empowers operators to build safer skills via hands-on familiarization without disrupting live airfield operations. We offer a simple wheel-and-pedals setup as an accessible entry point for basic training. For advanced scenarios like multi-driver coordination, heavy equipment handling, or snow-clearing operations, we collaborate with simulator and equipment providers.





# 3D Model of Your Airfield

## Digital Twin For Simulation

**High-Fidelity 3D Twin:** Real-time, accurate unreal engine based model of your airport infrastructure.

**Continuous Updates:** Model can be rapidly updated to reflect changes to geometry or the addition of new airfield artifacts.

**Vendor Neutral:** Seamlessly connect the digital twin to advanced driving simulators, equipment simulators, enabling realistic training based on the most up-to-date airfield model.

**Immersive Visualization:** Supports realistic simulation environments without impacting live operations, reducing labor, enhancing safety and reducing emissions.

**Scalable and Adaptable:** Suitable for small or large airfields and easily incorporated into multiple simulation platforms at larger airports.

## Our Value Proposition

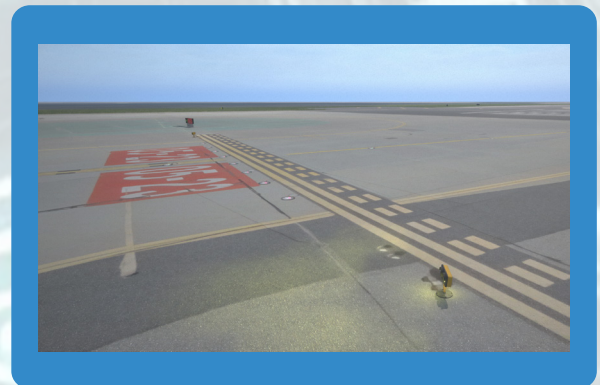
**Accuracy You Can Trust:** Training and analysis are based on the real, current state of your airfield.

**Safe, Repeatable Training:** Staff can train virtually in a fully controlled environment.

**Operational Readiness:** Ensures drivers are prepared for real-world conditions on the airfield.

**Flexible Integration:** Your airfield model can be utilized by multi-vendor simulation and equipment training for full fleet coverage.

**Future-Proof Platform:** The digital twin grows with your operations, supporting long-term training and planning initiatives.



## API Applications

- Ground driver training and certification programs
- Emergency response preparation
- Operational procedure planning and validation
- Scenario-based skills assessment