Industrial Scenes
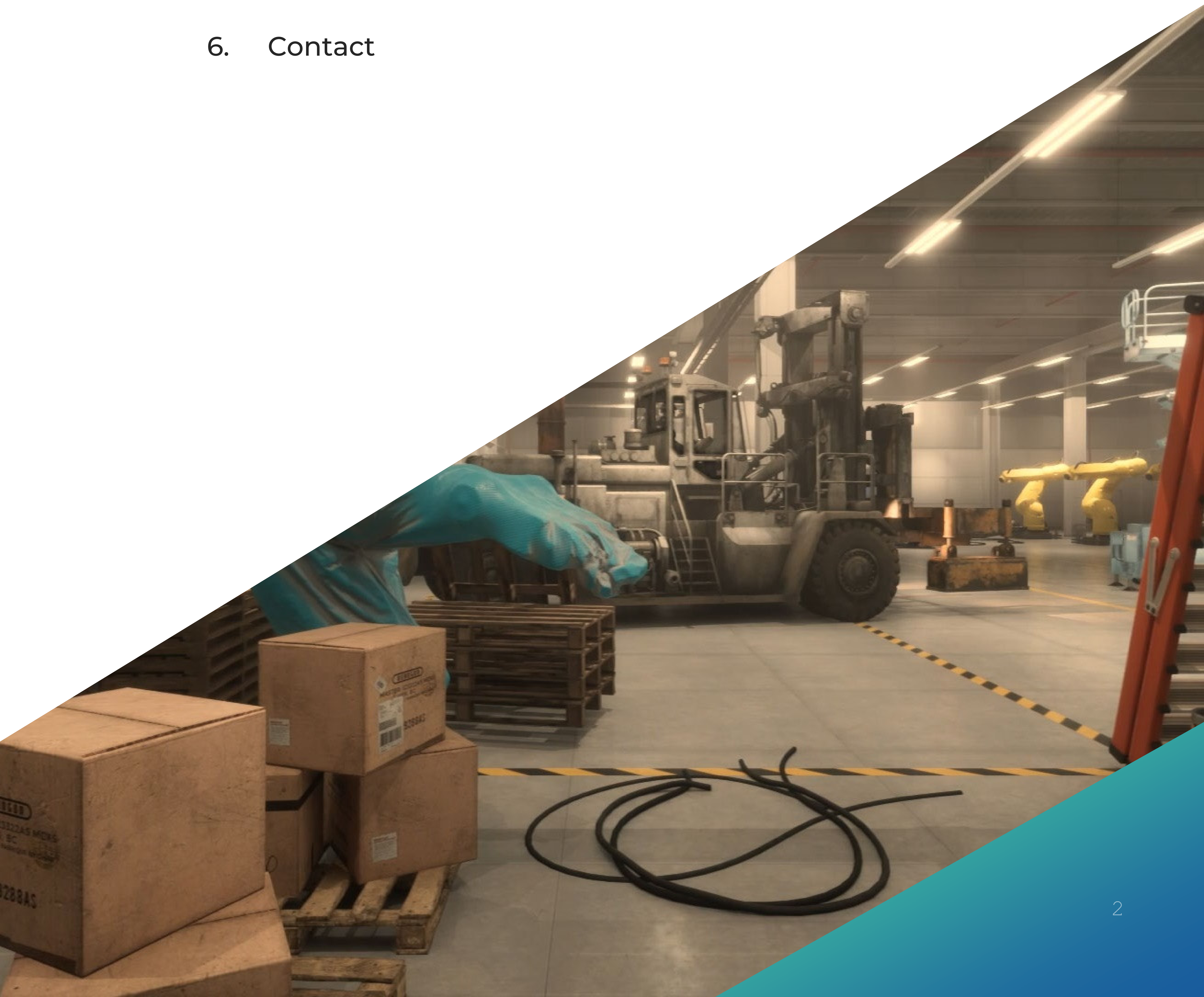
Master the Digital Twin, Enhance the Real Thing

WWW.INDUSTRIALSCENES.COM

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About us

Based in Austria, we excel in industrial plant and
infrastructure engineering, programming and 3D
modeling. With over 20 years of experience, we
understand our clients' needs, using digital twins
to deliver innovative solutions for industries
globally.

Cinematic shot of an eagle flying over
a multi-square-kilometer refinery.

What we offer

We create digital twins that serve as virtual worlds. Whether you have an existing facility to incorporate into a virtual world, plan to revamp a facility, are working on a greenfield project, need a study for a future project, or manage a construction site, we can assist in all scenarios.

Our virtual environment can be utilized in two ways: for cinematic presentations or real-time exploration of the virtual space.

Cinematics, functioning like movies, are an ideal way to showcase your project to stakeholders, including investors, contractors, residents, or government officials.

The digital twin also supports real-time exploration, a mode we believe is truly innovative, as it simplifies the management of projects and existing industrial environments.

Additionally, we provide a wide range of design, engineering and simulation features.

Key Sectors

We can visualize a variety of sectors, including:

Industrial Plants and Buildings, Chemical Plants, Refineries, Infrastructure (Bridges, Tunnels, Railroads, Subways, Roadways), Urban Areas, Construction Sites, Renewable Energy (Wind Farms, Solar Farms, Hydroelectric Power Plants) and much more.

Cinematic shot of a fully explorable refinery in real-time.

Presentate

We create cinematics to present your projects. Instead of static images or traditional CAD models, we deliver cinematic presentations that achieve nearly photorealistic quality. The level of detail and complexity you desire will determine the manpower and computer resources we invest to achieve stunning results.

Explore

Exploring virtual worlds in real-time is a game changer. We create drafts normally within days, so you have them when you need them. We strongly recommend using at least drafts for study cases and during the initial phases of projects. Our digital twins can grow with your project, which is particularly handy for documenting construction site progress.

Level up

Use digital twins in meetings to show planning progress, share construction site updates and boost discussion efficiency.

Identify

Quickly identify and showcase issues in the virtual environment instead of relying on paper records or CAD drawings.
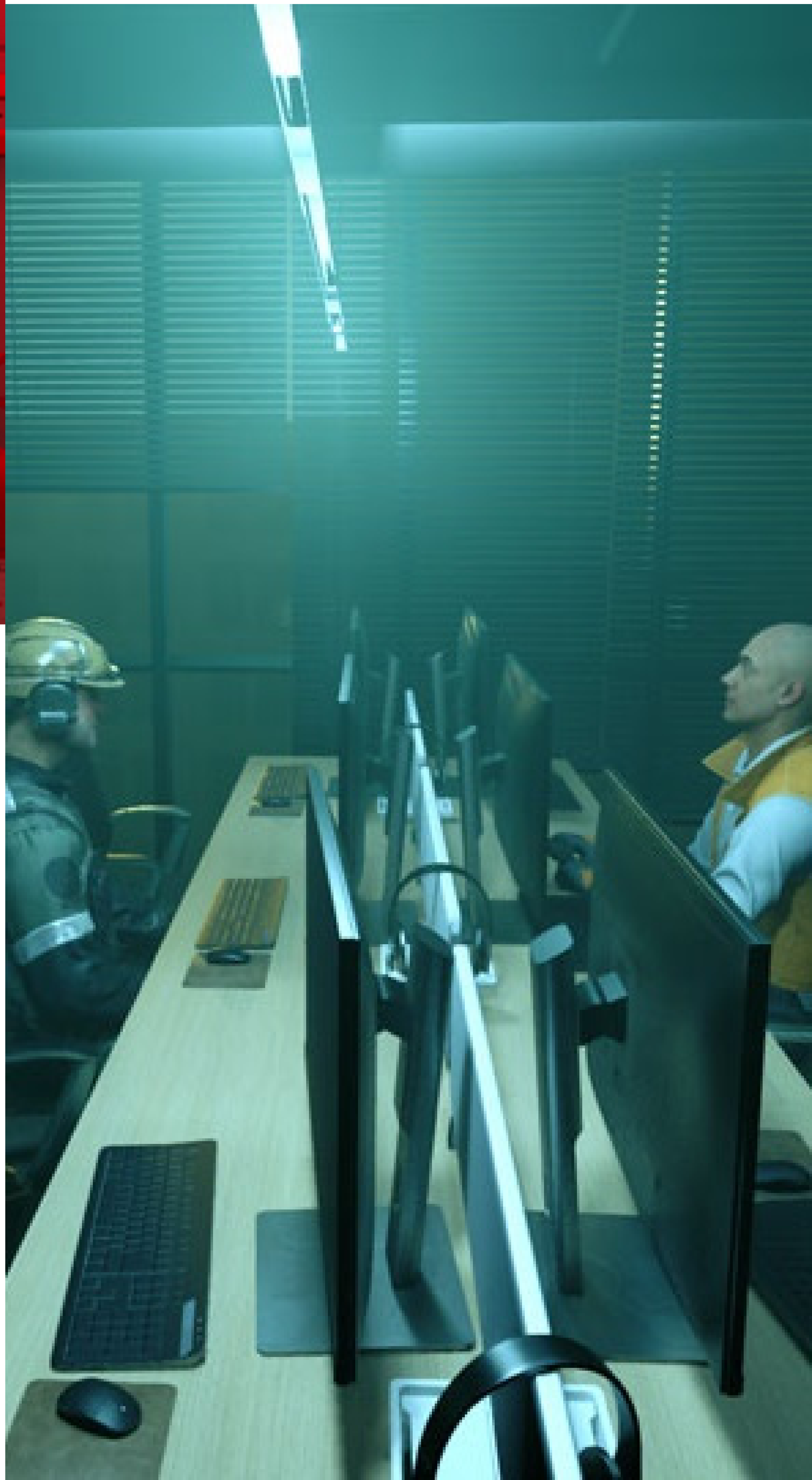
Stay Secure

Design and test emergency escape routes using AI-controlled characters. Use hundreds or even thousands of characters to test if you have enough emergency exits to clear the hazardous area in a certain time.

Convince

Present the digital twin to government officials to facilitate a streamlined approval process. Include various simulations to demonstrate preparedness and explain how the industrial plant works. Highlight fire protection measures, fire department access, emergency exits and workplace arrangements to make it easier for officials to grant approval quickly.

Locate

Use our digital twins to easily locate industrial equipment as it appears in the real world. Once you find it, you'll discover it at the same spot in reality.
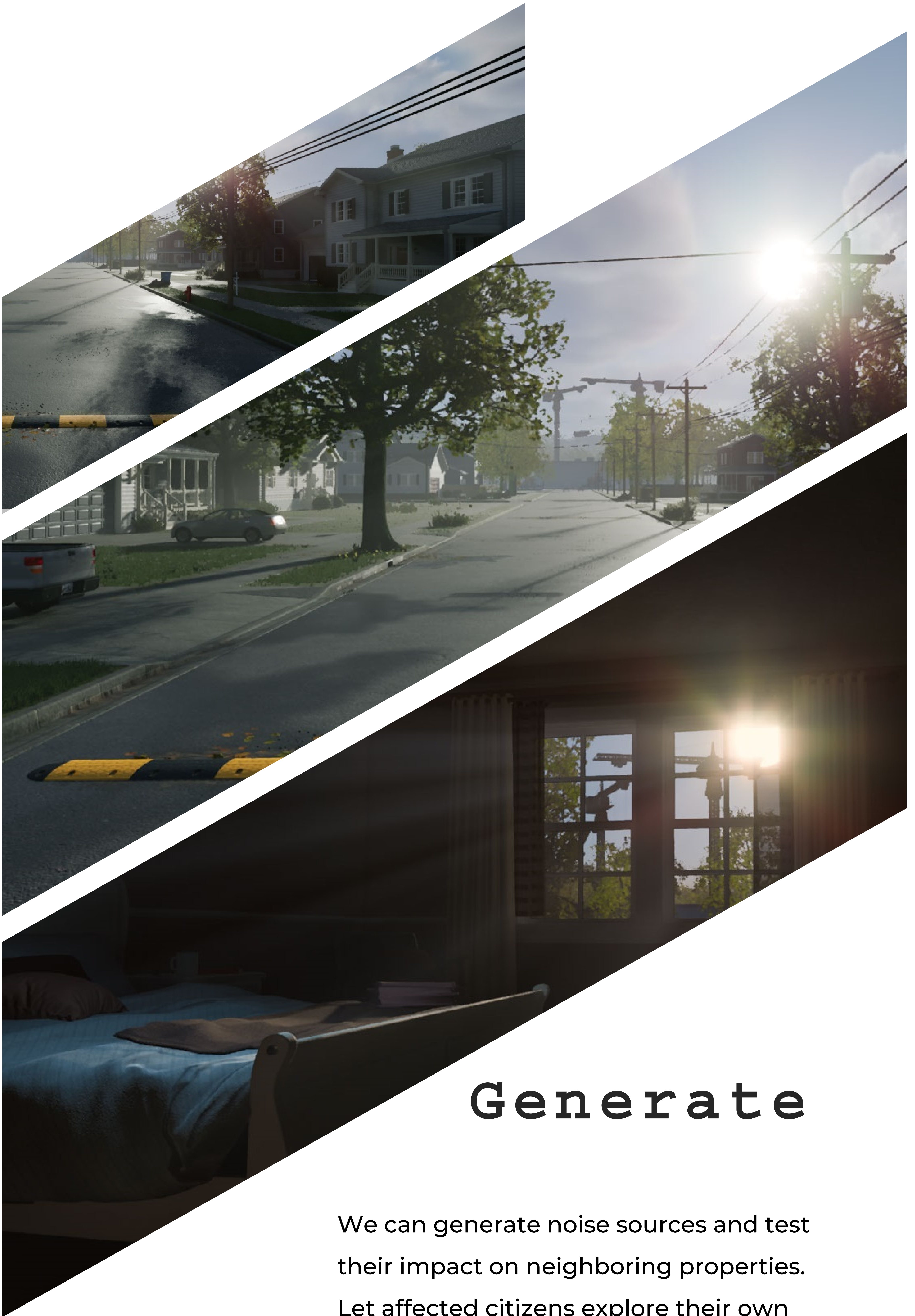
Protect

We plan and visualize lightning protection systems. We utilize the lightning protection ball method to ensure EU compliance.

Place

Plan and simulate crane positioning on construction sites, ensuring the crane's approach is free of obstacles and testing its ability to reach all necessary positions safely.

Generate

We can generate noise sources and test their impact on neighboring properties. Let affected citizens explore their own areas and homes in real-time and decide together which measures are necessary.
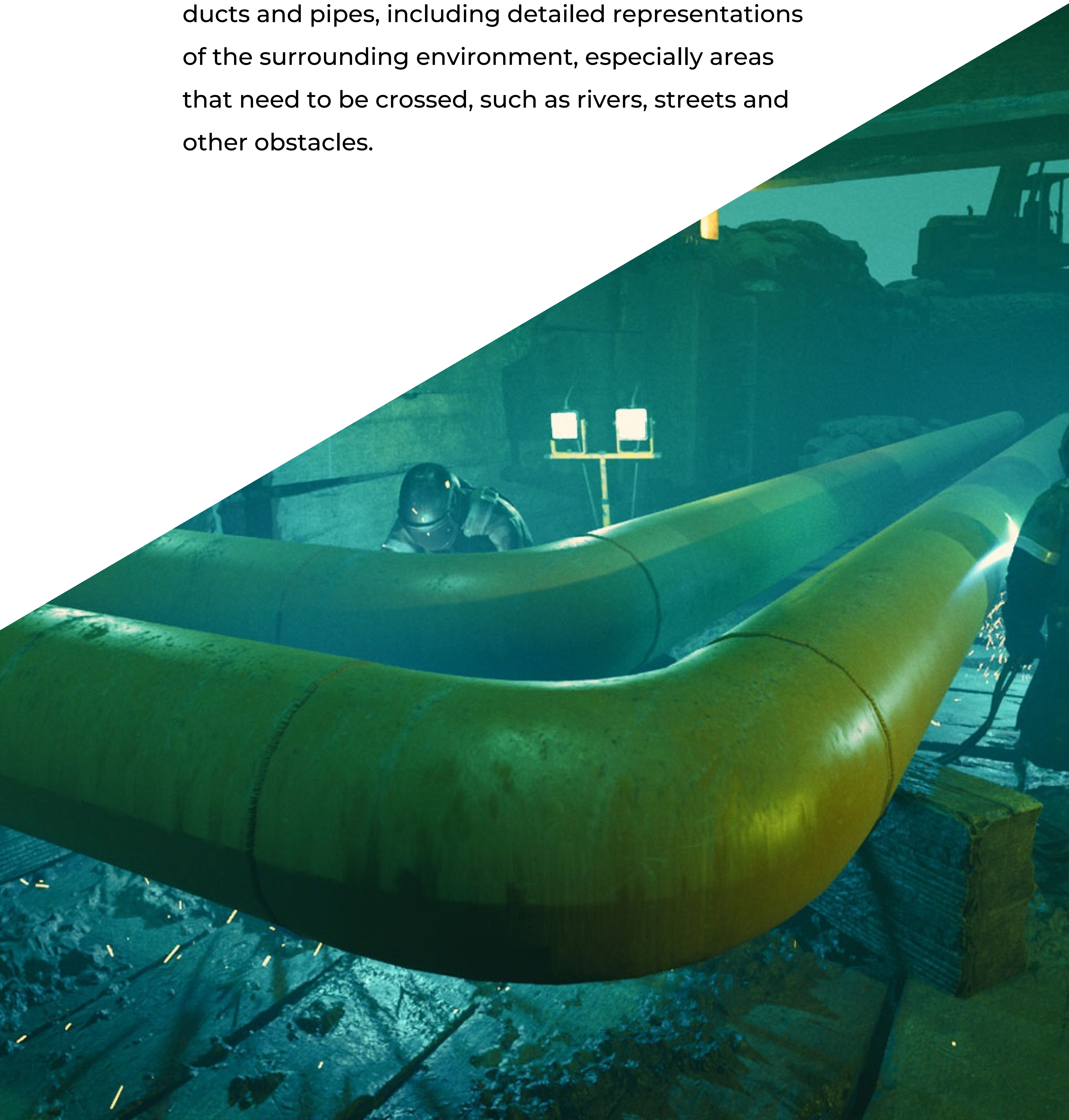
Plan

Plan the layout of construction sites to obtain builder approval. Enhance site facilities by visualizing key areas as a operational plan for contractors to follow.

Connect

Visualize trenches with multiple kilometers of cable ducts and pipes, including detailed representations of the surrounding environment, especially areas that need to be crossed, such as rivers, streets and other obstacles.

Train

Allow employees to get familiar with the digital twin before transitioning to the real one. This prepares them in a safe environment to navigate hazardous areas and locate equipment efficiently. We can also implement interactive tutorials to boost learning and engagement.
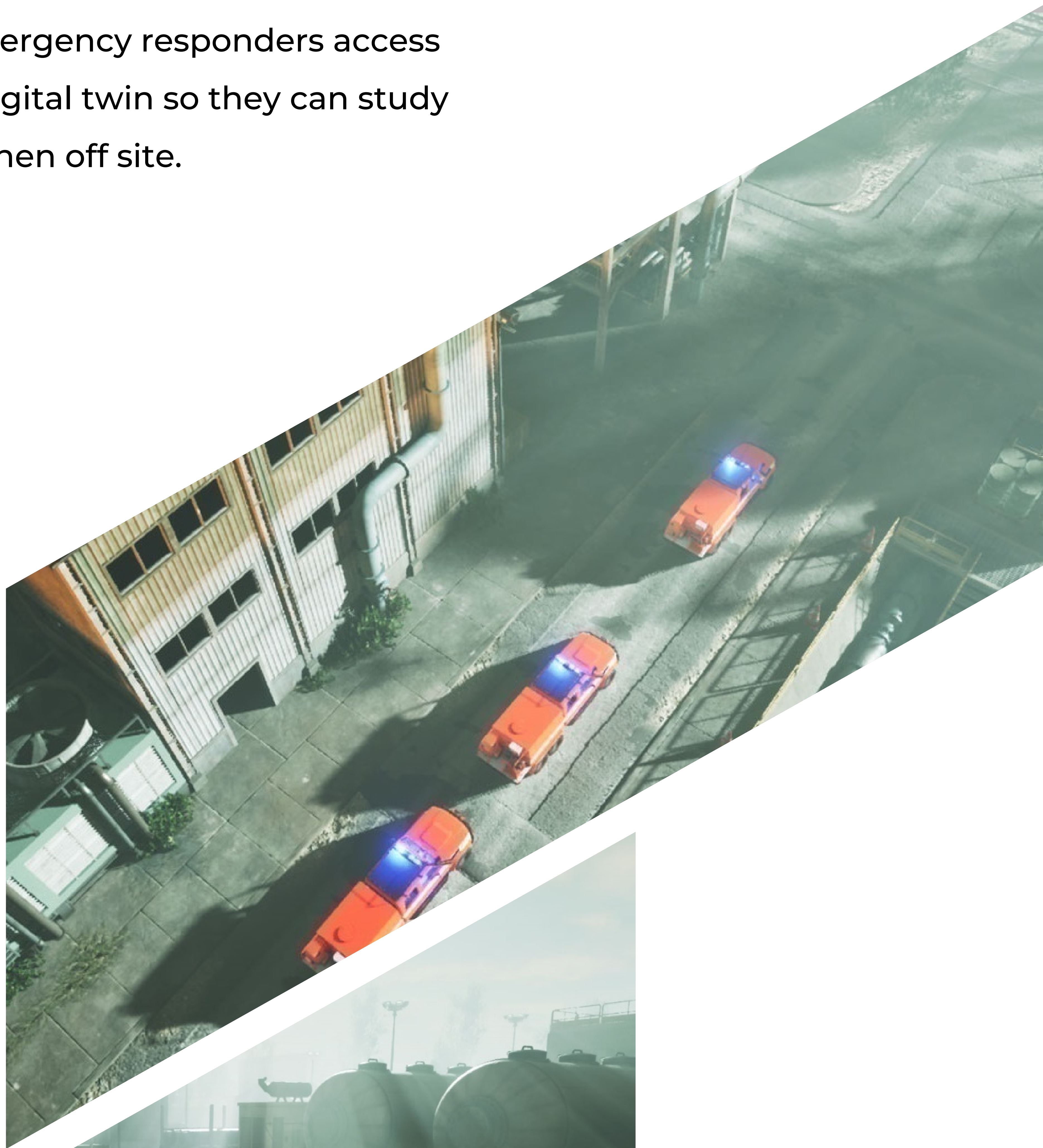
Evaluate

Plan optimal locations for fire hydrants and no
parking areas, then test accessibility with emergency
response vehicles.

Simulate

Simulate and discuss emergency scenarios with your local fire department or in-house fire department to optimize further.

Prepare

Grant emergency responders access
to your digital twin so they can study
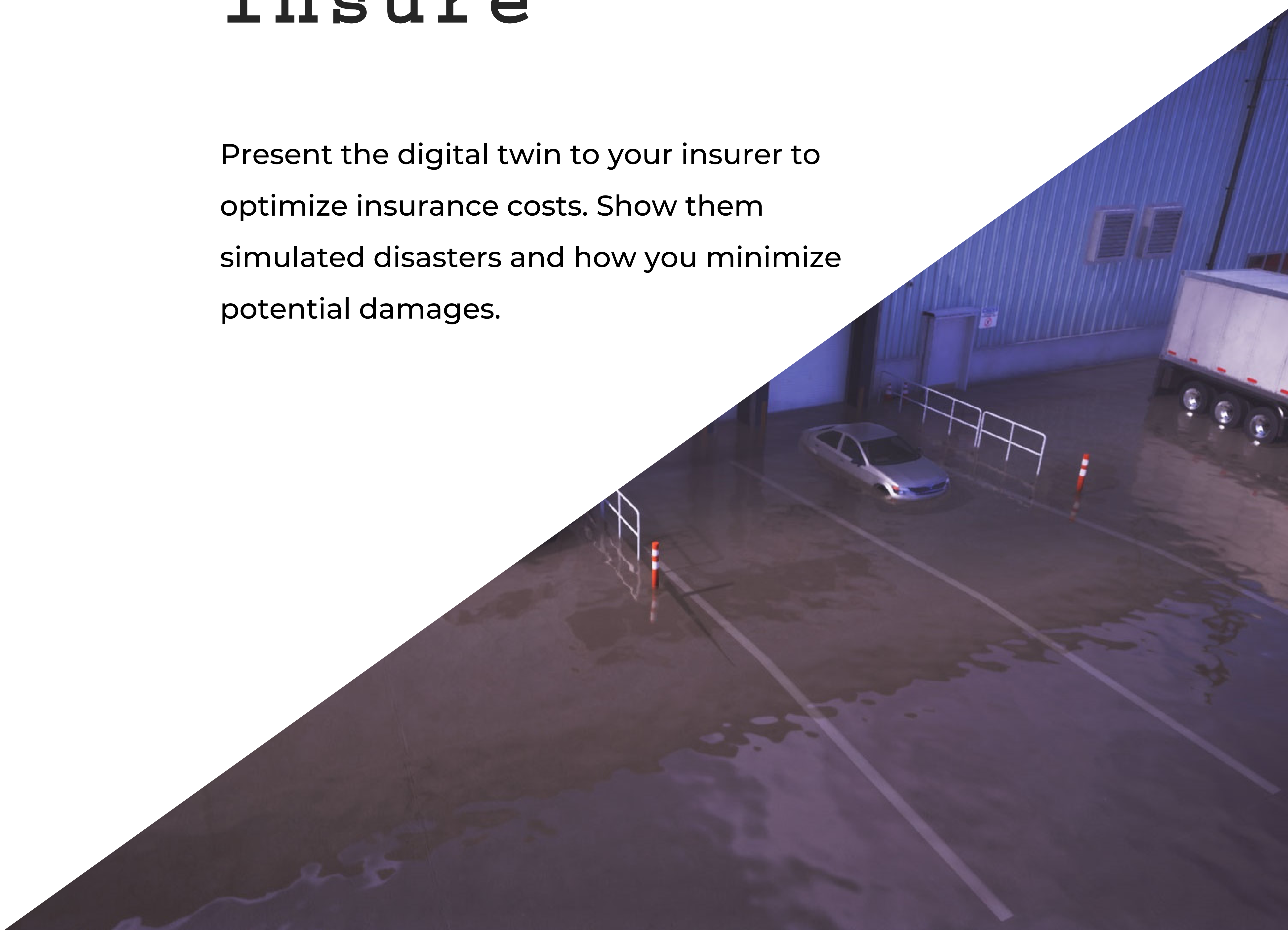it even when off site.

Measure

Simulate in real-time the approaches of firefighters and ambulances with drivable vehicles.

Insure

Present the digital twin to your insurer to optimize insurance costs. Show them simulated disasters and how you minimize potential damages.

Participate

Team members and other stakeholders unable to be on-site can virtually experience the construction environment.
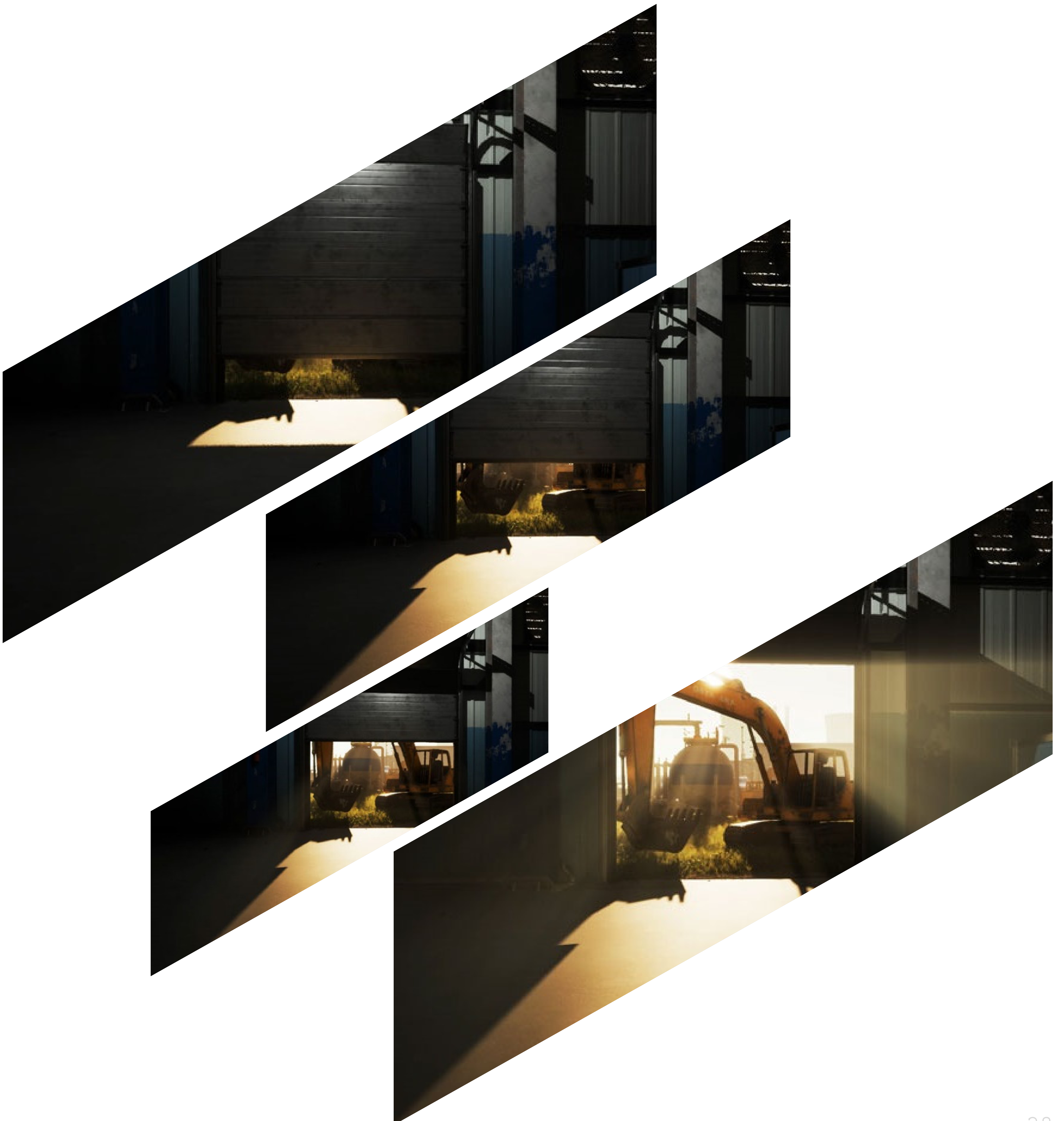
Detect

Strategically plan camera placements for enhanced security and fire detection. We can implement real-world camera settings, including angles, focus, aperture, ISO, and shutter speed, as these elements significantly impact image quality and installation location.

Control

Control and automate the digital twin using PLCs, making it an ideal solution for testing purposes and training new employees. Our digital twins can be connected seamlessly with industry-leading software and hardware.

EXIT

Fire door
keep shut

Push bar t

SAFE
FIRST
WOR
SAFE

Cinematic shot of an industrial building
showcasing the planned emergency routes.

Supported Hardware

Our digital twins run on desktops, smartphones, tablets, and notebooks. The quality in real-time mode depends on the hardware. Desktops and notebooks typically provide the highest quality. If desired, we can also provide a version for virtual reality glasses, although at this moment, we consider them more of a gimmick than a useful tool.

CONTACT US

Want to know more about all possibilities?
Drop us an email or call us, and we will get
back as soon as possible.

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