

Twinspect

high performance asset inspections

HIGH-TECH SOLUTION FOR INDUSTRIAL INSPECTION

Twinspect is an asset inspection platform that brings all inspection data and expert insights together. It enables all the project stakeholders to seamlessly view, annotate, and take action on the data.

Fragmented chats, cumbersome file-sharing and tedious approval processes are a thing of the past. Twinspect integrates all inspection processes on a single platform, enhancing the efficiency and transparency of the inspection workflow.



INDUSTRIAL FACILITIES



INFRASTRUCTURE



POWER UTILITIES



OIL & GAS



MARITIME



RENEWABLES



TELECOMMUNICATION



COMMERCIAL STRUCTURES

HOW TWINSPECT IS USED

Twinspect is delivered as a modular inspection platform that supports different stages of inspection maturity and organisational scale.

Customers typically start by showcasing inspection capabilities and delivering client-ready outputs, then scale into recurring inspection operations or enterprise-wide inspection programmes as requirements grow.

Capability & Business Development



- Showcasing inspection capabilities
- Creating professional visuals and reports
- Supporting bids, proposals, and client discussions

Project & Inspection Delivery



- Delivering live inspection projects
- Managing inspection data and reporting
- Scaling users, storage, and workflows

Portfolio & Enterprise Operations



- Managing inspection projects across assets or regions
- Enforcing data access, governance, and retention
- Supporting long-term inspection history and analysis

Twinspect supports this progression through different licence models, each optimised for specific use cases, ranging from business development and project delivery through to long-term asset inspection and governance.

Detailed licence descriptions, pricing, and configuration options are provided separately via the licence selector and product guides.

project settings

high-resolution images

3D model

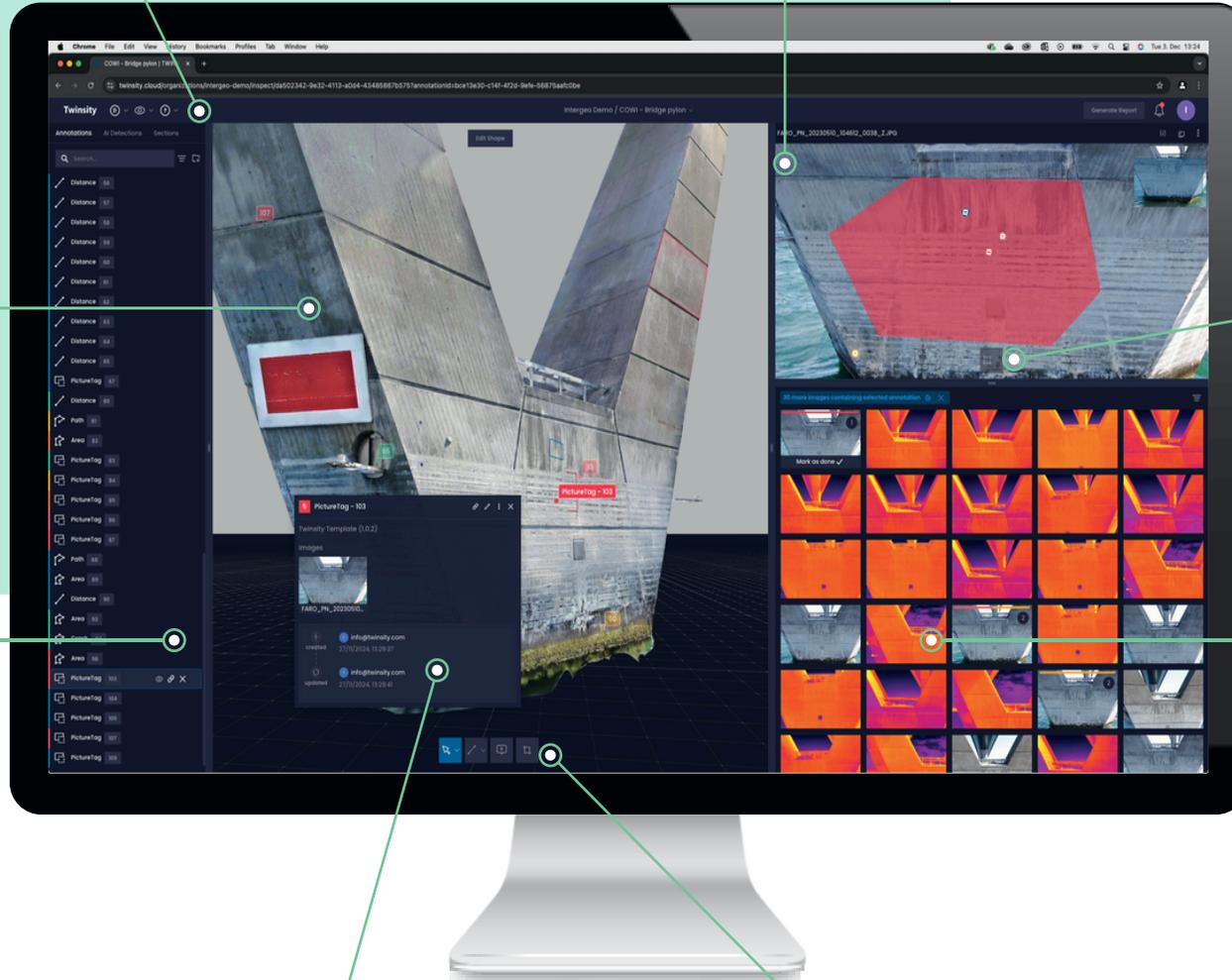
2D inspection tools

annotation list

image gallery

detection panel

3D inspection tools



FUNCTIONALITY

All intelligence in one view

Twinspect integrates all details on the screen, allowing users to see their imagery, the 3D model and all the inspection findings in a single, easy-to-navigate interface.

Effortless collaboration and sharing

Enable teams and stakeholders to collaborate by sharing a project link with all its data. Manage editing permissions easily with a dropdown list, making changes in just two clicks.

Highest resolution visuals

Engage with original inspection images and engineering-grade 3D models to examine every detail with precision. The quality of the insights you gain depends on the quality of the input data, ensuring the most informed decision-making.

Flexible annotation and measurement

Tag and measure defects in 3D models or 2D images, with automatic sync across both views. Customizable annotation templates support various inspection standards.

Automated and custom documentation

Generate inspection reports in customizable formats, including all relevant annotations, measurements, high-resolution images, and sections.

Defect location insights

Focus on specific areas of your 3D model using the section tool to slice the inspected 3D model. Include the section in your reports to pinpoint the annotation's location on the exact plane.

Structured projects

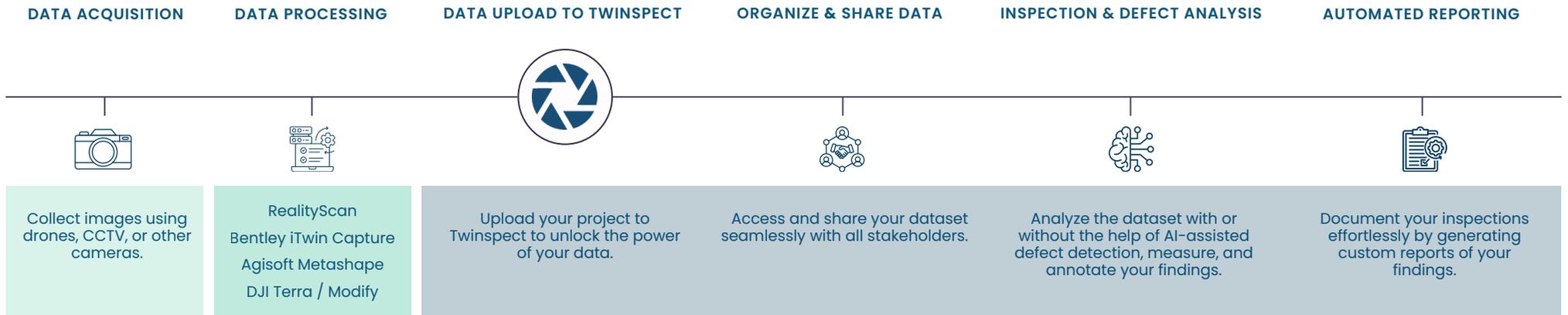
Enable seamless segmentation of your projects with workspaces. They offer a structured, collaborative, and secure environment that streamlines workflows, making them essential for effective project management.

AI-assisted defect detection

Leverage advanced AI technology to precisely identify and categorize defects, improving the accuracy and efficiency of your inspections. Choose from preset AI models or opt for a tailored solution.

WORKFLOW

Twinspect streamlines your inspection workflow. After capturing your data and processing it with any of the leading photogrammetry solutions, simply upload your project to Twinspect. From there, it handles the rest, providing data-driven insights to help you plan your maintenance efforts. Your project can include a 3D model or consist solely of images. In Twinspect, the latter is referred to as an “express project”.



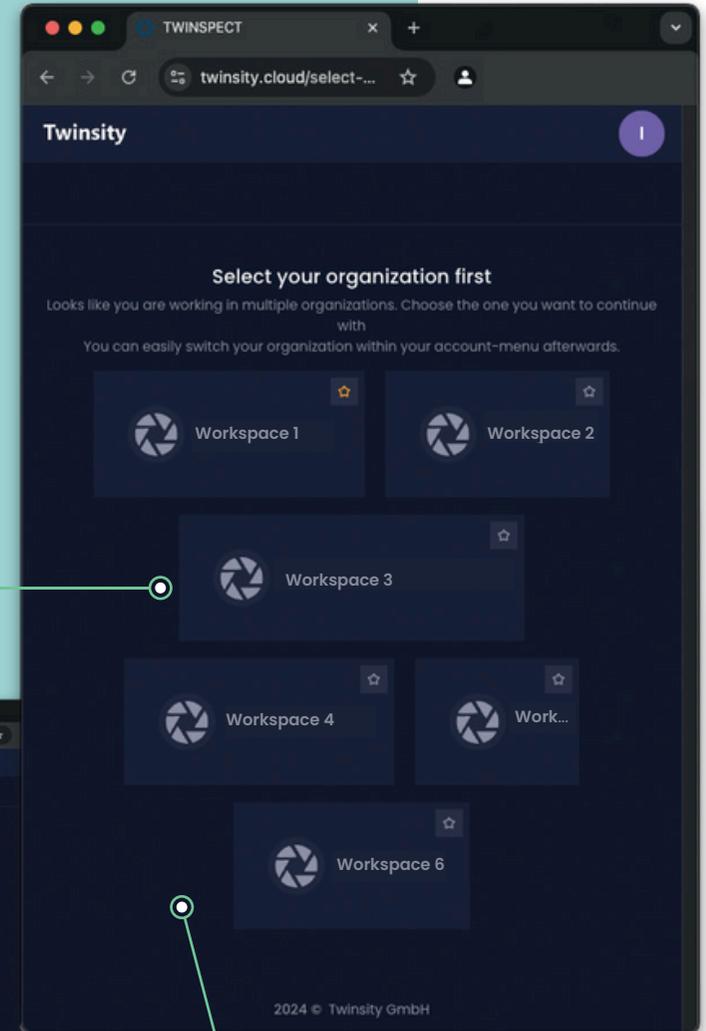
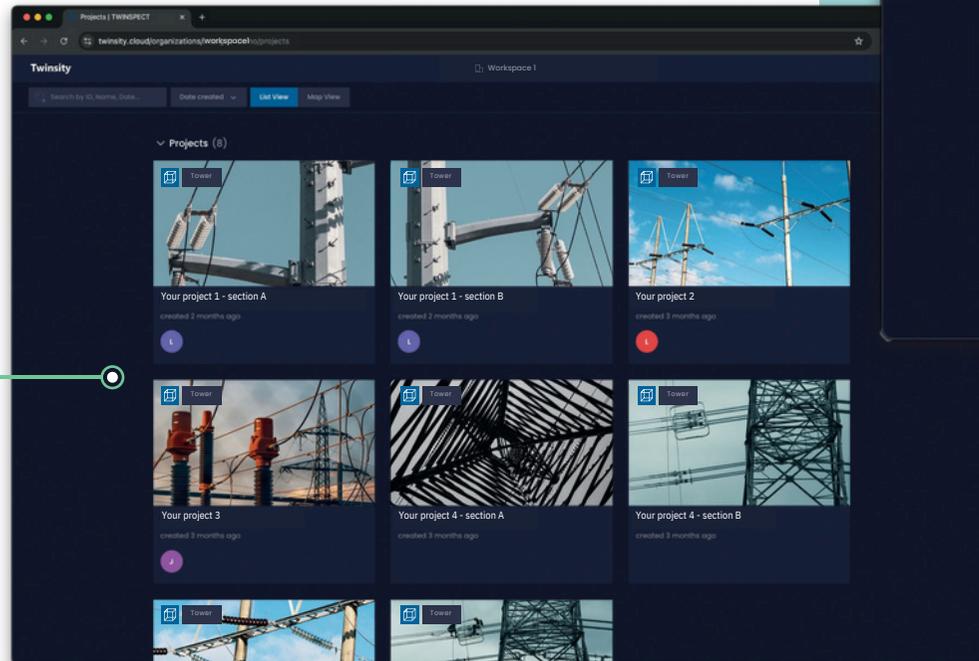
Coming soon: Twinspect integration with other data providers.

WORKSPACE

A workspace in the Twinspect platform is a collaborative environment for storing and managing inspection projects. Typically associated with a single asset-owning company, it provides structure, simplifies role assignment, and ensures the right people access the right resources. With managed permissions, workspaces enhance transparency, maintain security, and streamline auditing processes.

clear overview

structured data



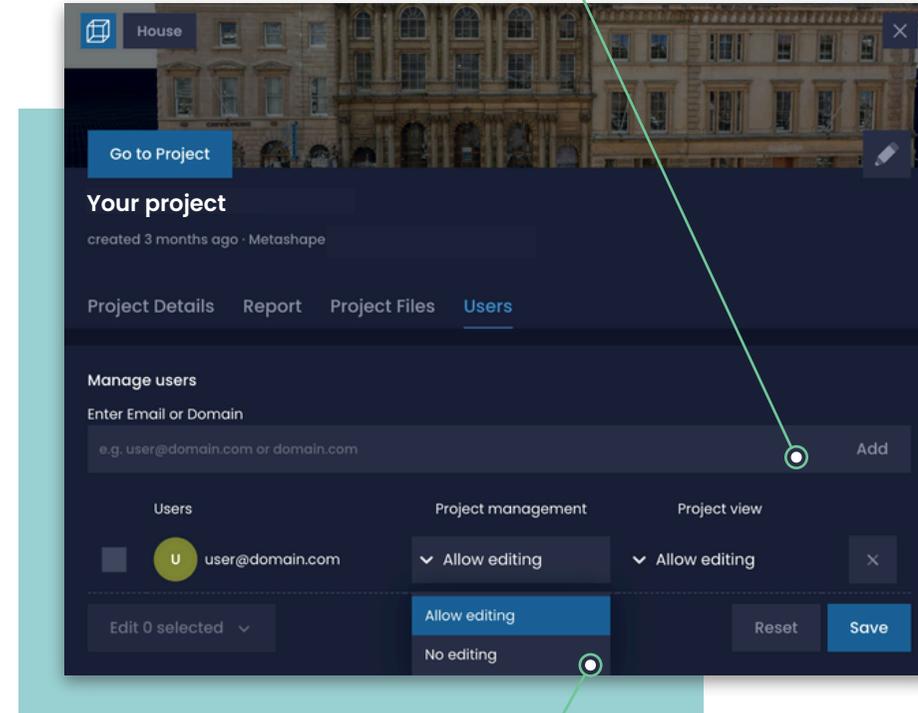
level permissions

USER ROLES

Twinspect users are differentiated by their assigned roles, which determine their access levels to projects and user management. Grouping permissions into user roles provides clear records of project access. A Twinspect license is created with one admin, who can add users and assign projects. User access can be granted either per project or per workspace.

	Admin	Editor	Viewer
Create projects	✓		
Assign editors & viewers	✓	if enabled	if enabled
Edit	✓	✓	
View	✓	✓	✓

access per resource



management permissions

ANNOTATION

The labels and notes added to images or 3D models during the inspection process in Twinspect are called annotations. These annotations document defects or points of interest on inspected assets. As a key part of the workflow, annotations help with data analysis and provide a visual representation of issues for stakeholders.

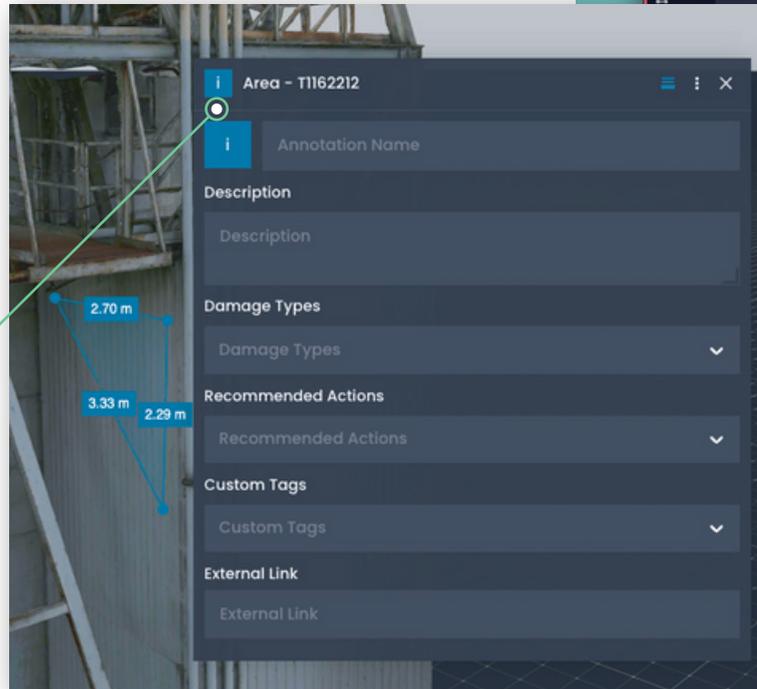
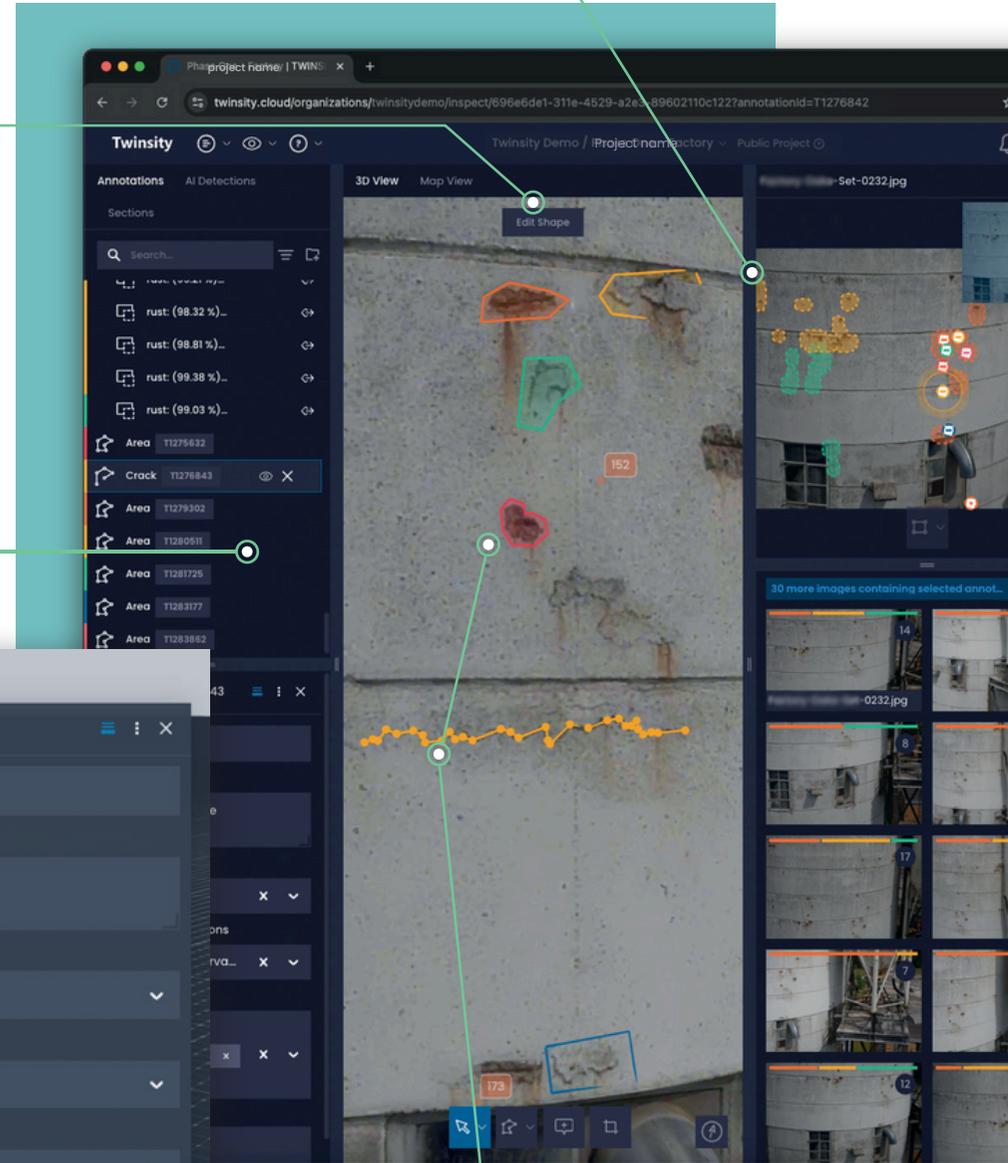
parallel display on images & model

editable shapes

defect clustering

customizable annotation template

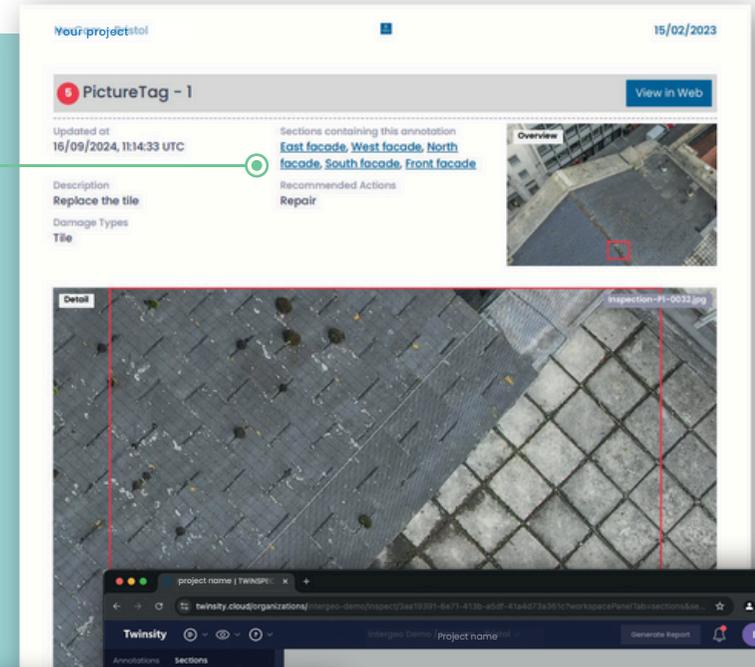
various annotation shapes



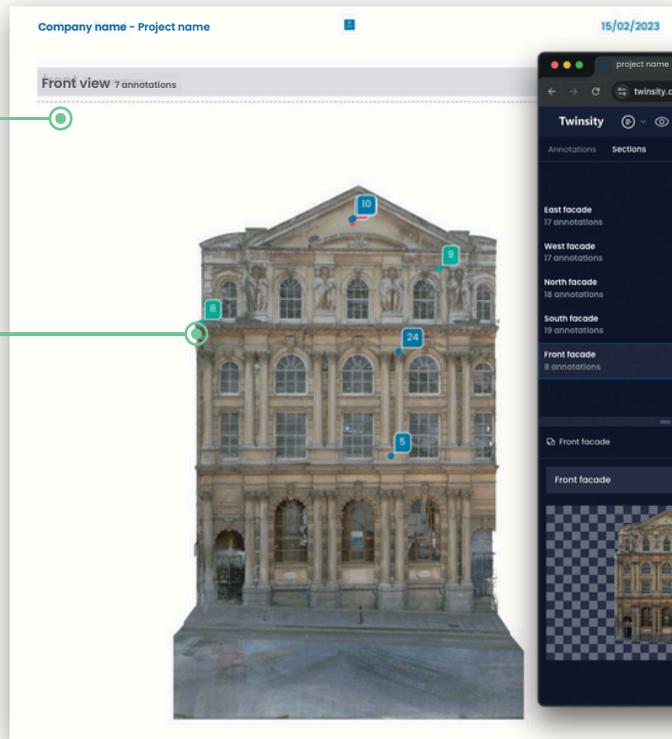
SECTION TOOL

A section represents a selected surface or virtual plane of the inspected asset. The section tool allows users to focus on specific areas within a 3D model, visualize, and document the precise location of annotations.

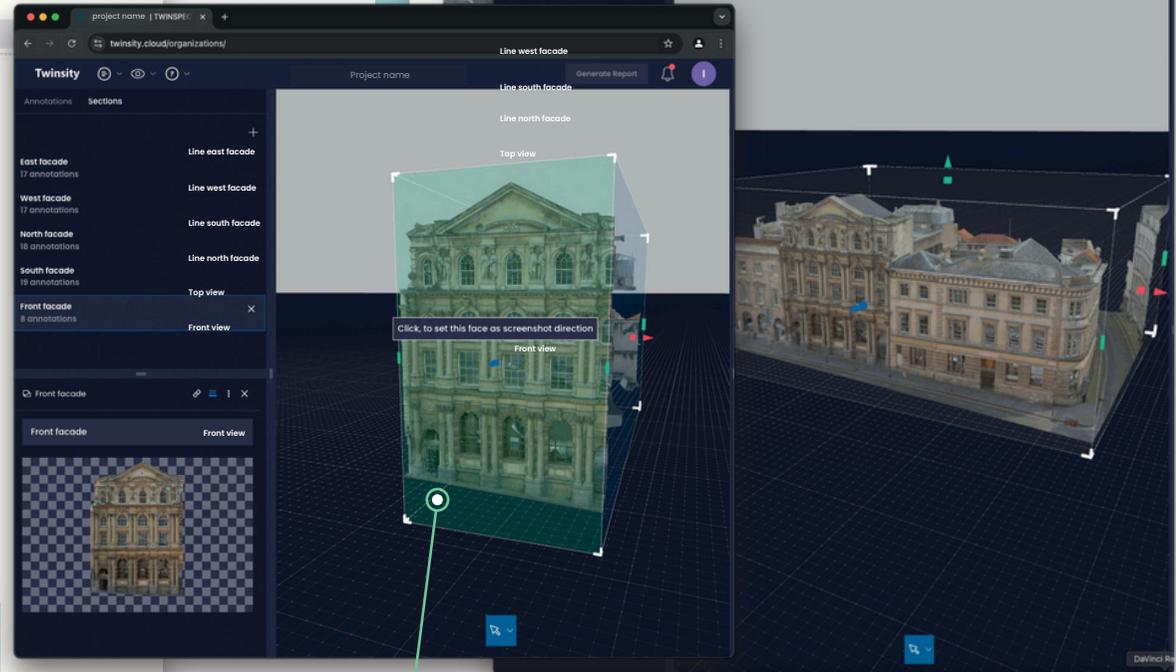
selective visualization



efficient documentation



linked annotations



isolation of specific areas

REPORT

A Twinspect report is the key deliverable of the virtual inspection. Reports compile and present inspection findings in a structured format, ensuring clear and effective communication of results to all stakeholders.

automated documentation

link to 3D model

actionable insights

configurable content

The interface displays a 3D model of a bridge pylon with various annotations. A detailed view of an annotation shows the following information:

- Annotation ID:** 1 PictureTag - 33
- Updated at:** 09/09/2024, 15:33:42 UTC
- Description:** White precipitation from castings over-tension reinforcement.
- Recommended Actions:** Hold under observation
- Damage Types:** White precipitation
- Sections containing this annotation:** North-view, East-view, West-view, Top-view
- Custom Tags:** West, Section C

The report configuration menu includes the following options:

- Front Page:** Show project preview image, Show report creator, Show inspection date, Show asset type
- Overview Page:** Show project address, Show geolocation, Show report title, Show link to access the project, Show project description, Show project creation date
- Statistics Page:** Show annotation statistics per severity, Show annotation statistics per damage type
- Annotations:** Show external link, Show annotation ID, Show hidden annotations, Show image file names, Show sections helping locating annotations in the asset

The annotation statistics per severity are as follows:

2x	1x	2x	8x	23x	5x
Rating 5	Rating 4	Rating 3	Rating 2	Rating 1	Rating 1

The annotation statistics per damage type are as follows:

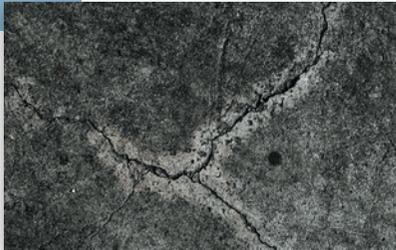
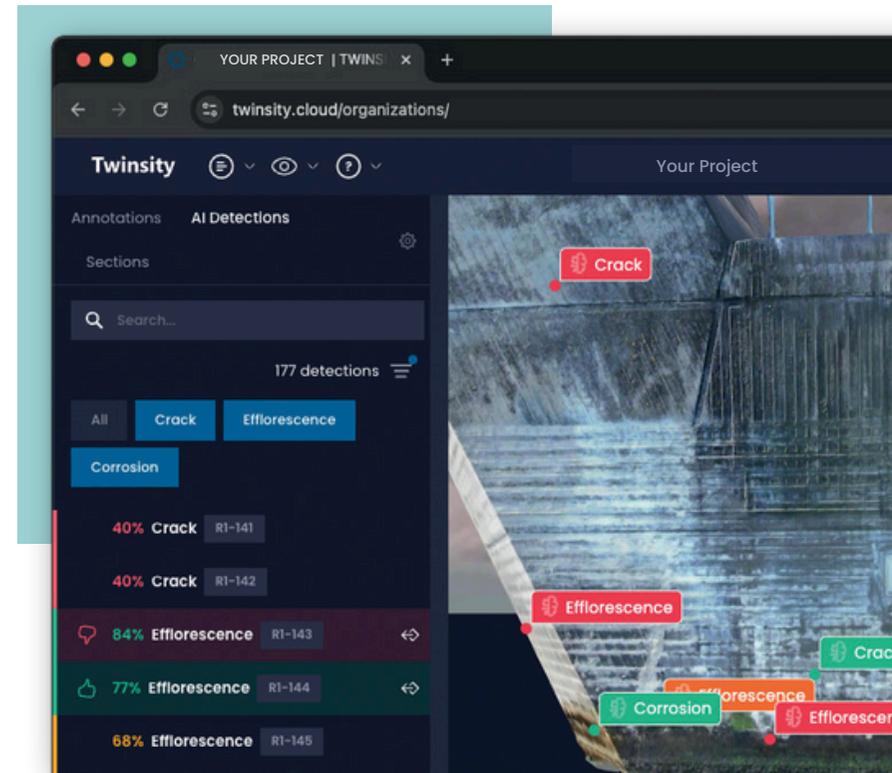
Peeling	0
Corrosion / Rust	4
White precipitation	4
Honeycombing	7
Horizontal crack	3
Crack	2
Efflorescence	1
Faulty reparations	1
Annotations without a damage type	10

annotation statistics

COMMUNITY AI

Twinspect's proprietary AI module streamlines defect detection on various surfaces, delivering unparalleled efficiency and accuracy. AI models are available for Pro and Enterprise users as community AI or custom AI.

Community AI models are preset and cater to a variety of defects and surface types. These models are continuously being developed and calibrated by the Twinsity team.



Crack
concrete, brickwork, tarmac



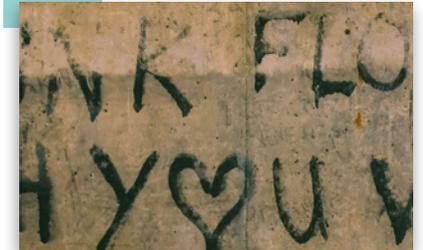
Corrosion
concrete or metal



Efflorescence
concrete



Exposed rebar
concrete



Graffiti
various

Coming soon: Twinsity is always expanding their community AI database.

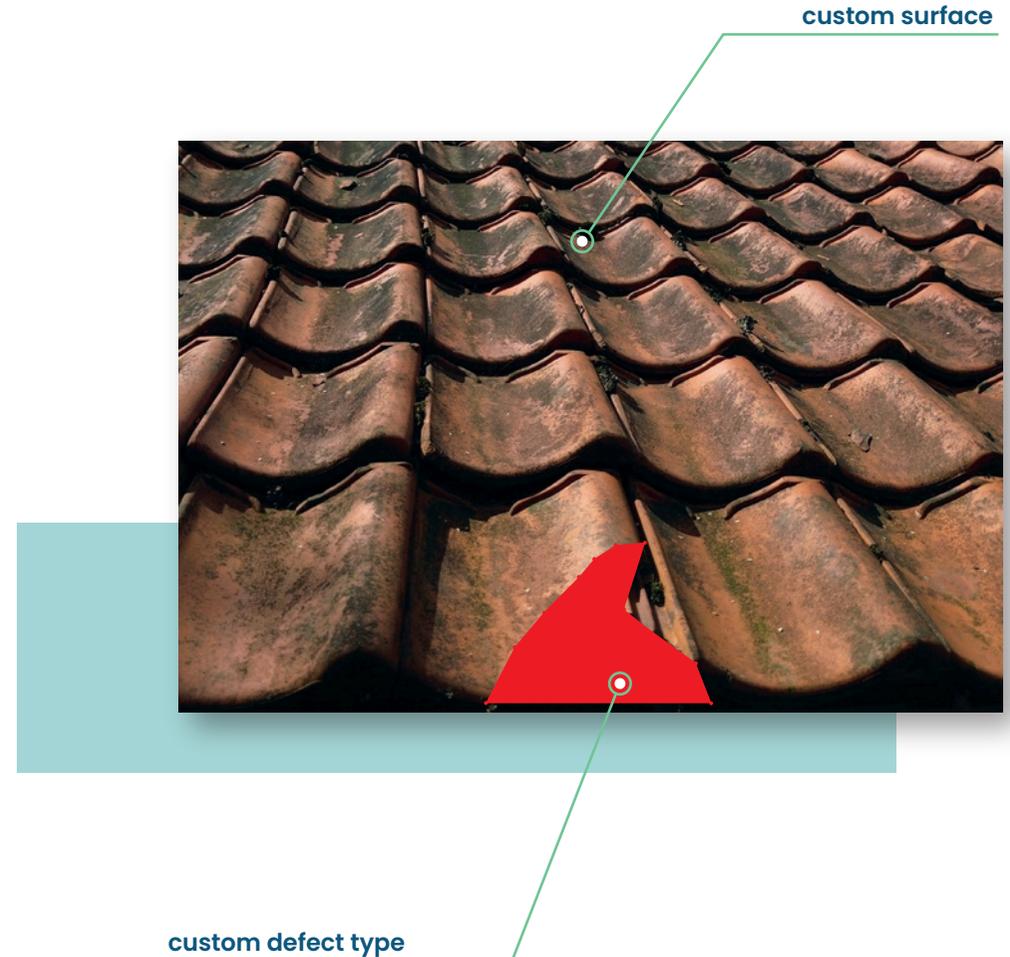
CUSTOM AI

Custom AI models are created on user's request for a specific type of defect. These models are trained on the user-provided data and are available for private use or at creators choice to open to the community.

For example, the focus of your inspections is roofs. You might be interested in a dedicated AI model trained on your existing datasets to detect defects on the tiles, such as cracks. Once developed, this AI model will be used exclusively for your projects unless you allow community access.

Designed for you: your data, your solution.

- ✓ Tailored solution to detect the specific defects you inspect.
- ✓ Fits ideally your projects, as it learns from your existing data.
- ✓ High-confidence AI detections means faster validation of defects.
- ✓ Updates and retraining are done on your terms.



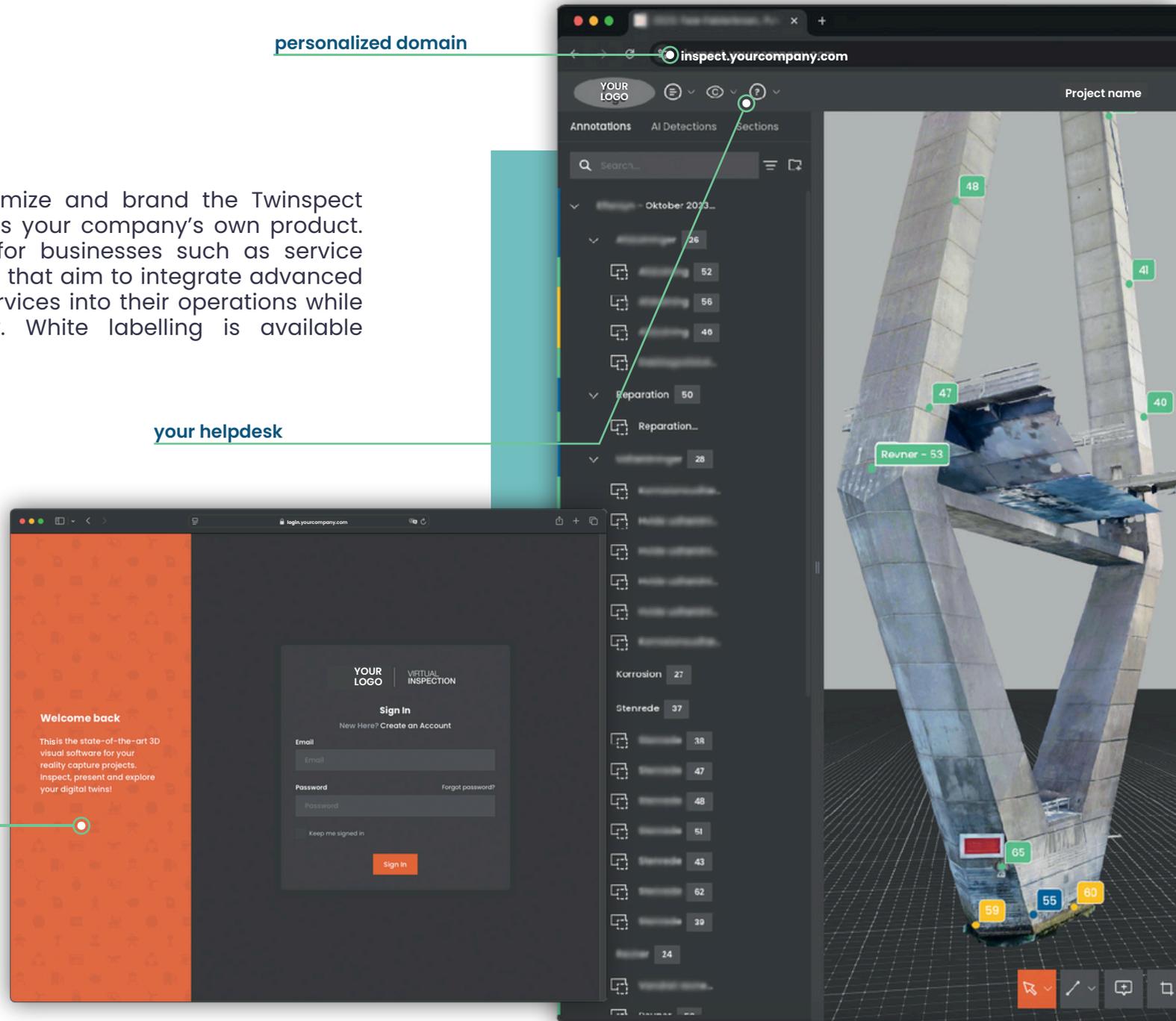
WHITE LABELLING

White labelling enables you to customize and brand the Twinspect platform, presenting its functionality as your company's own product. This feature is particularly valuable for businesses such as service providers and consulting organizations that aim to integrate advanced inspection and asset management services into their operations while maintaining their corporate identity. White labelling is available exclusively for Enterprise users.

personalized domain

your helpdesk

corporate style



DATA SECURITY

Compliance

Twinsity adheres to rigorous protocols to protect sensitive information and continuously enhances its security practices. This commitment is ensured through certification to the ISO 27001 standard.

Hosting

Twinspect is hosted on the highly secure AWS cloud infrastructure, which includes advanced security features such as multi-layered firewalls, intrusion detection, and backup systems.

Data isolation

Enterprise users can opt for isolated environments, ensuring highest level of data security and control over how their data is handled and stored. To comply with local regulations, such as GDPR in Europe or CCPA in the US, Twinspect offers regionalized and localized AWS data storage options.



ABOUT TWINSITY

Twinsity is a deep-tech startup specializing in AI-driven infrastructure inspection solutions. Our ambition is to enhance the safety and sustainability of physical assets worldwide by providing inspection teams with advanced tools for digital inspections.

Through the development of our flagship platform, TWINSPECT, we address real-world challenges in data management and analysis, empowering inspection teams to detect defects more rapidly and unlock the true value of captured datasets.

By optimizing remote inspection processes and enhancing work planning, Twinsity aspires to become an indispensable operating system for operators and engineers in asset-heavy industries, transforming industrial inspections into safer, more efficient, and data-driven processes.



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