Visualizer for digital twins

PROBLEM

Our client, a company that manages infrastructure in hard-to-reach areas, needed to implement a remote preventative maintenance solution.

The solution required the use of drones to capture images and data of these infrastructures, allowing evaluation and maintenance without the need to send personnel to remote and potentially dangerous locations.

ACTIONS

We conducted a proof of concept to determine how to manipulate data output from drones and how to render large amounts of data while providing an interactive visualization.

Once the tools to be used and their capabilities were validated, the project was executed.

RESULTS

We implemented an interactive viewer to examine data, integrating drones and geospatial visualization systems.

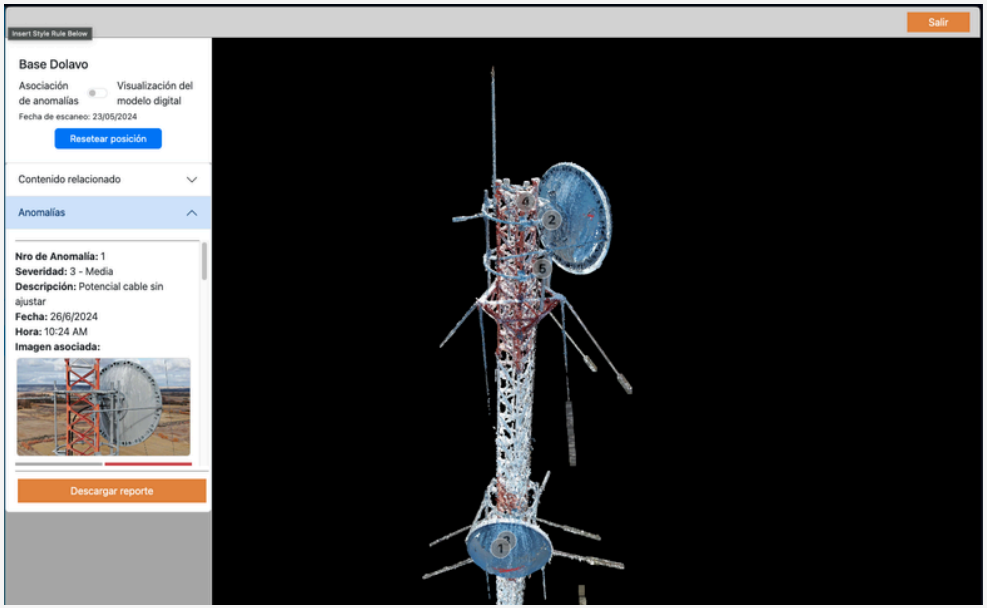
After validating tools, we deploy the solution in rigorous testing to ensure its functionality and accuracy.

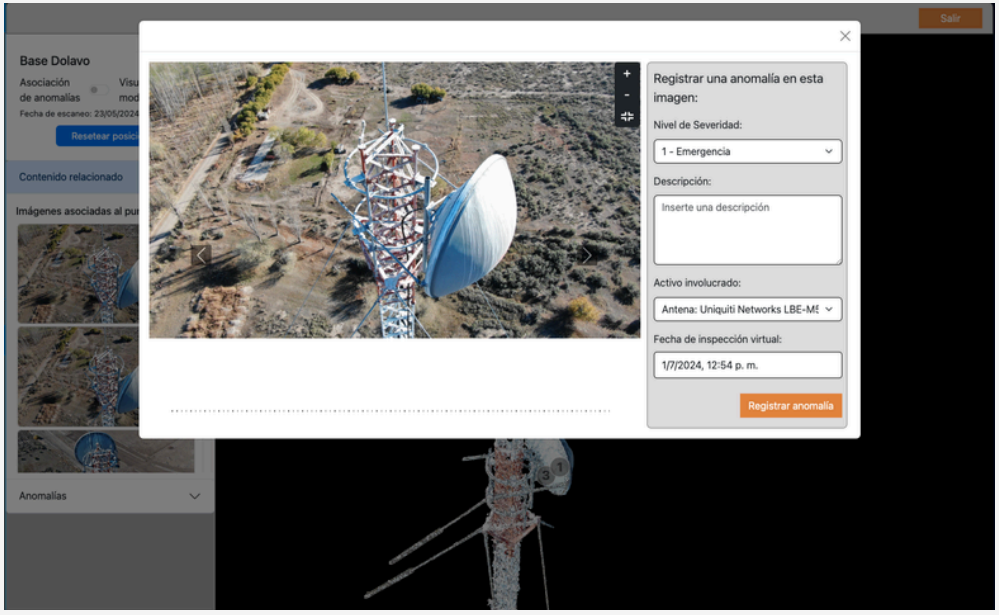
The integrated display allowed efficient preventive maintenance without physical travel.

STACK

WebGL
Potree
Three.js
AWS services

xside


Salir
Base Dolavo
Asociación de anomalías
Visualización del modelo digital
Fecha de escaneo: 23/05/2024
Resetear posición
Contenido relacionado
Anomalías
Nro de Anomalía: 1
Severidad: 3 - Media
Descripción: Potencial cable sin ajustar
Fecha: 26/6/2024
Hora: 10:24 AM
Imagen asociada:
Descargar reporte


Salir
Base Dolavo
Contenido relacionado
Anomalías
Registrar una anomalía en esta imagen:
Nivel de Severidad:
1 - Emergencia
Descripción:
Inserte una descripción
Activo involucrado:
Fecha de inspección virtual:
1/7/2024, 12:54 p. m.
Registrar anomalía