HazView.

Cross-Platform Ecosystem For Managing Hazards

Questions or contact:

support@hazview.com

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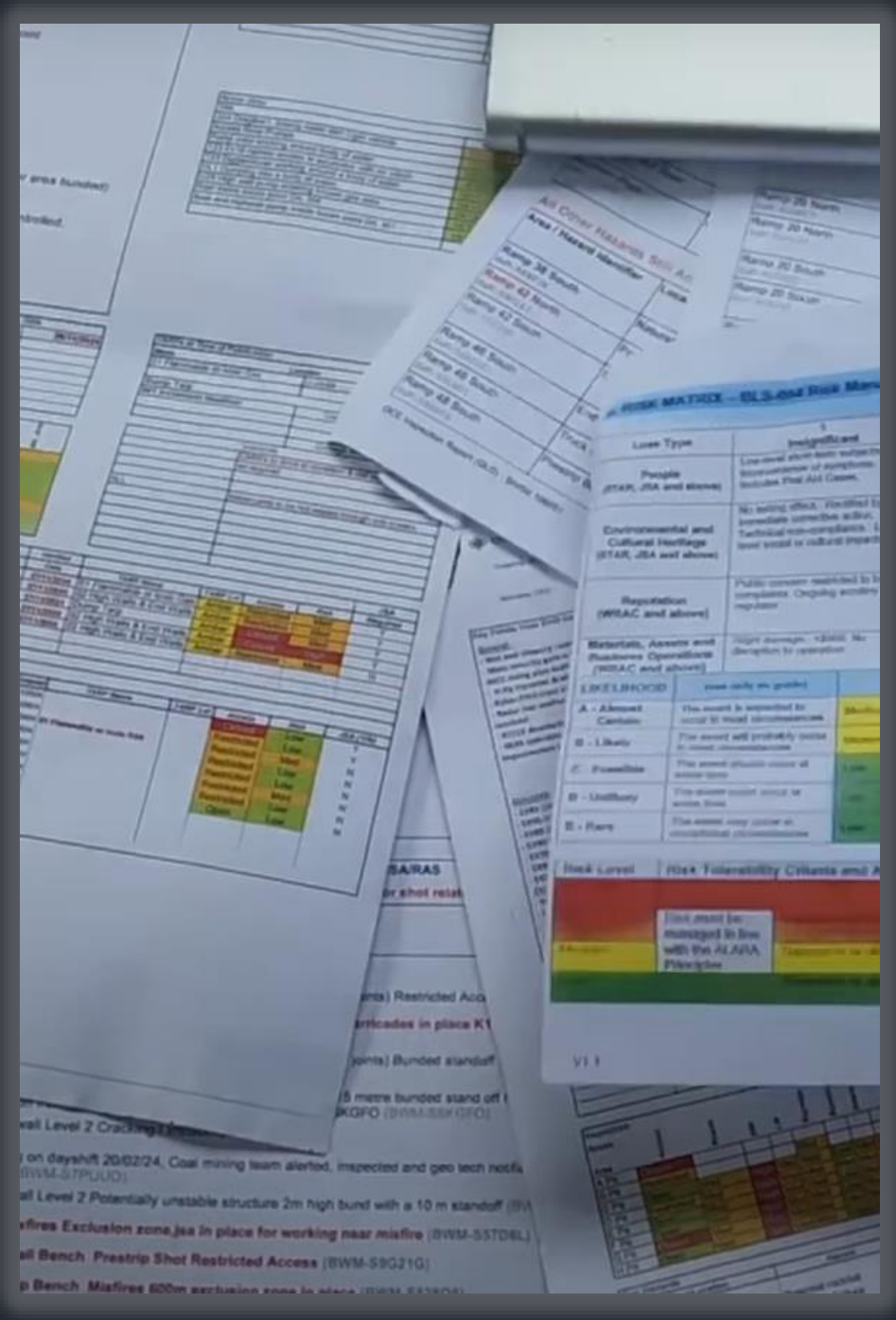
Hazard Reporting at Mines

Common feedback from workers:

- CMWs often don’t read the full OCE report.
  - Typical exposure is during pre-starts.
- Printed documents are quickly outdated.
- Text based descriptions aren’t easily recognised in the pit.
- Generalised inspection checklists miss key information. Where is the crack?
- Difficulty in reporting leads to a lack of reporting. It has to be simple.



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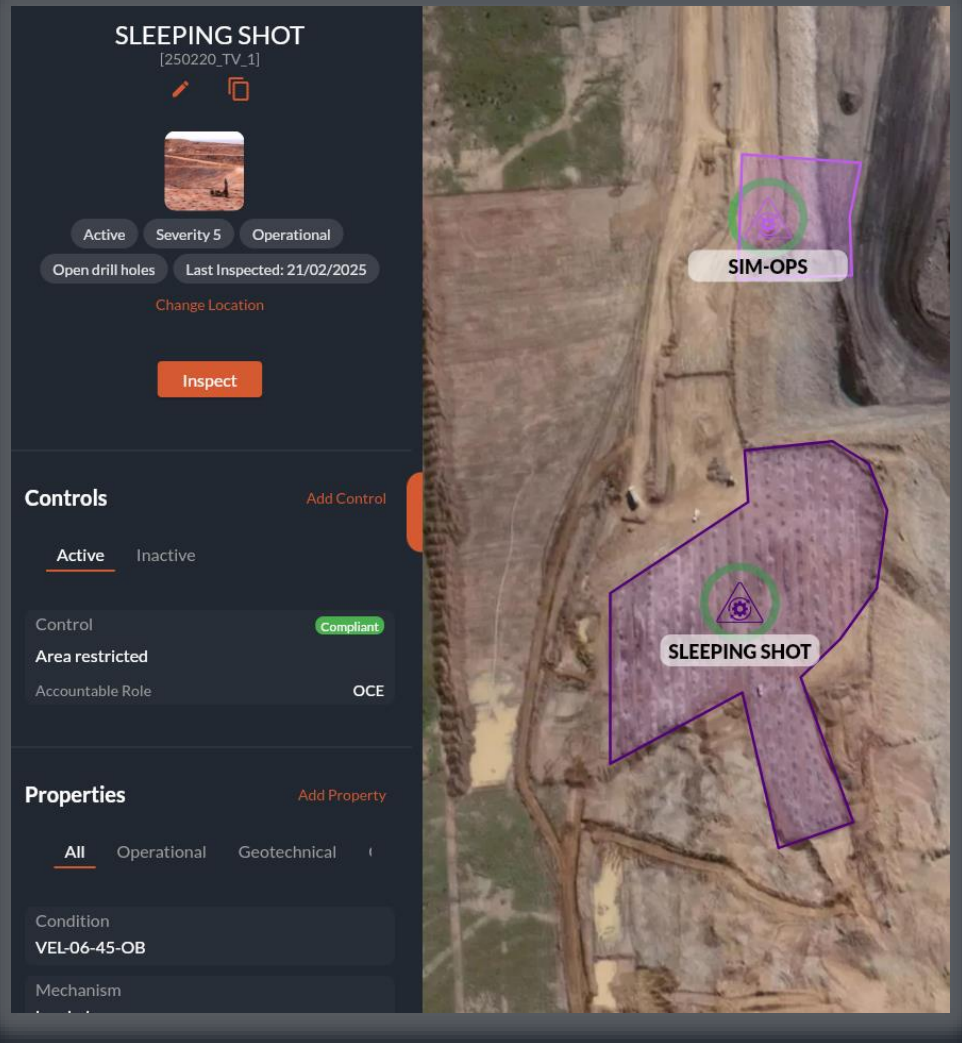
Generalised checklists:

Interactive Hazard Map:



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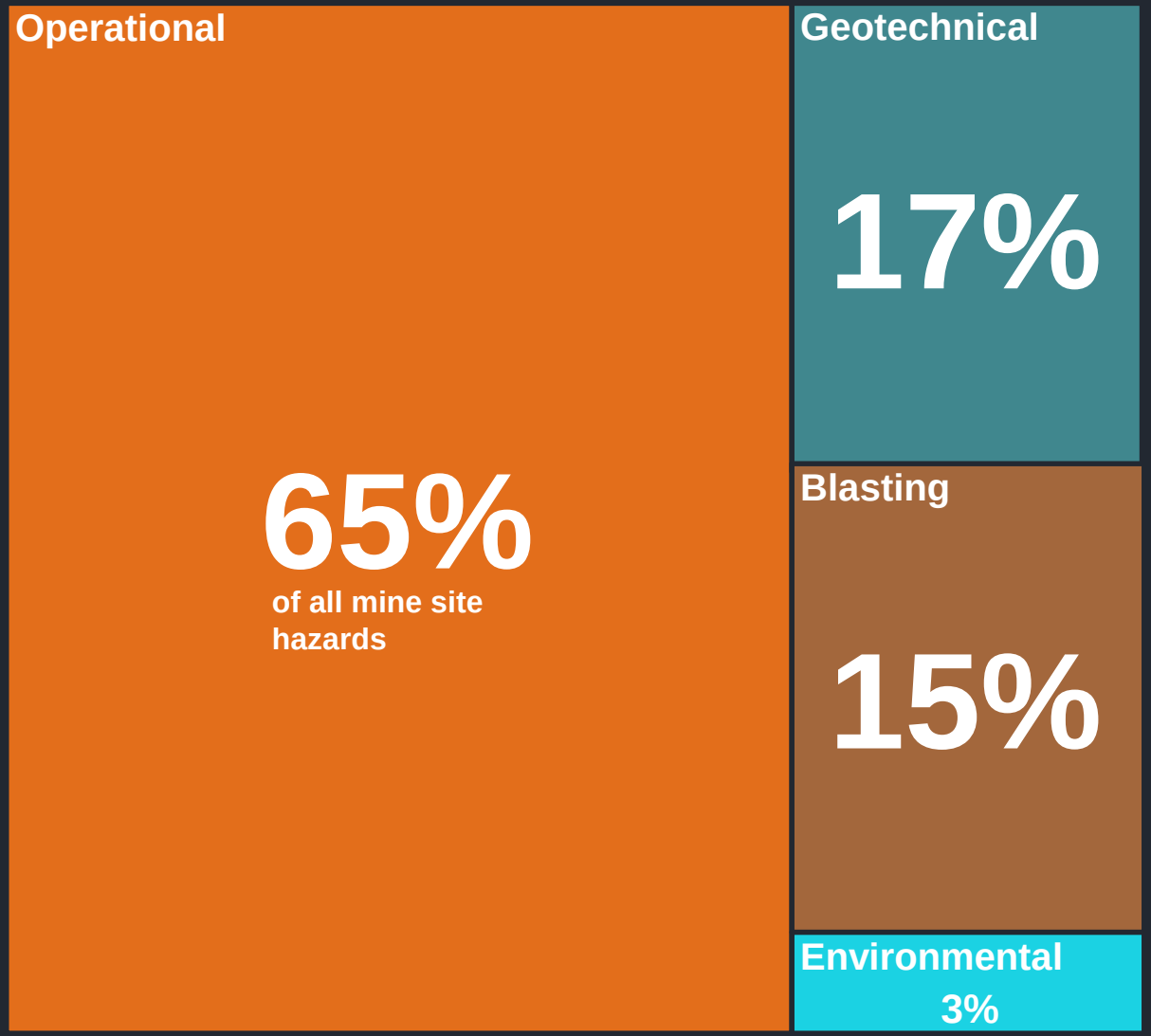
HazView Manages **All Hazards** and makes reporting **Simple**.



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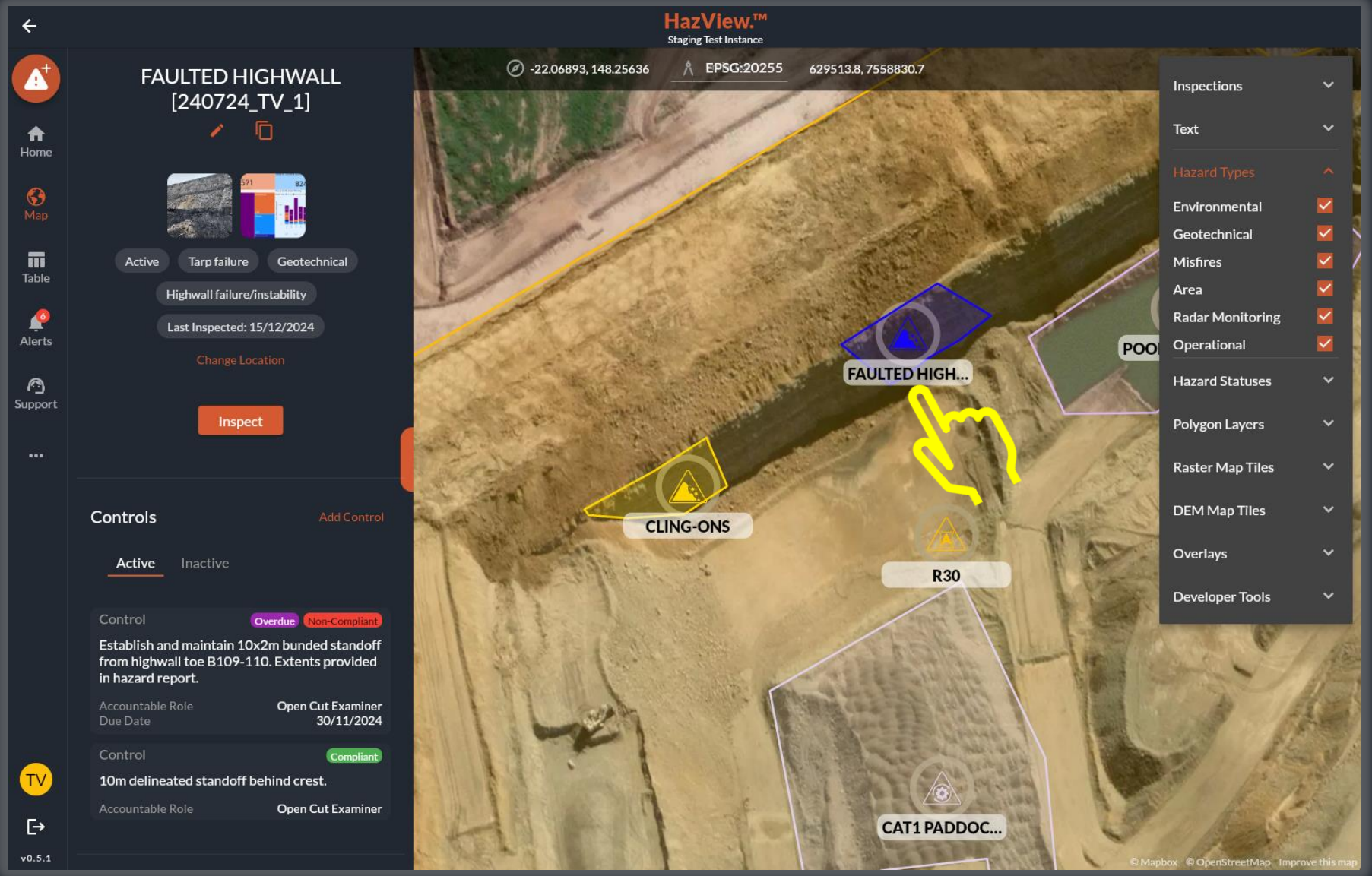
HazView gives every worker an interactive hazard map.



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Solution Overview

- HazView is a cross-platform app
  Native Apple Mac, Native iOS, Native Android, Native Windows and Web!
- HazView works with or without internet.
- Hazard data is synchronized automatically.
- HazView is for everyone. You get unlimited users with role-based permissions.

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Easy Set Up

🔑 Turnkey - We'll set it up!

HazView will reduce your workload – not add to it!

🚀 Instant access from any browser!

We don't need to spend time installing software on every new users computer.

👩‍🎓 Easy to learn

Simple and intuitive UI so you can get up and running in 5 minutes

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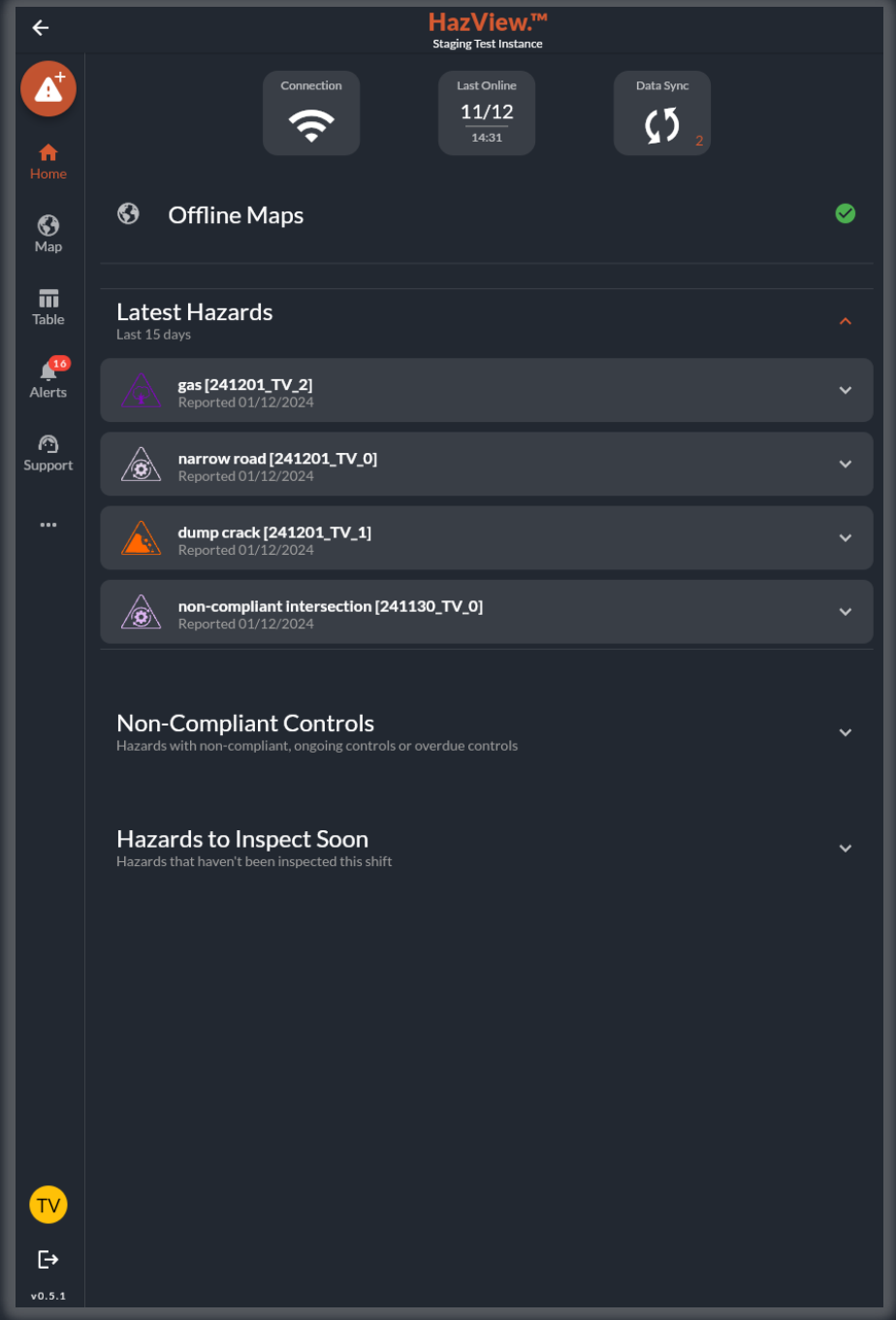
HazView. Home Page

- Connection status – Am I online?
- Last updated – Do I have the latest data?
- Data sync – Is HazView updating right now?
- Update maps – Get the latest site imagery
- Latest hazards – What's new?



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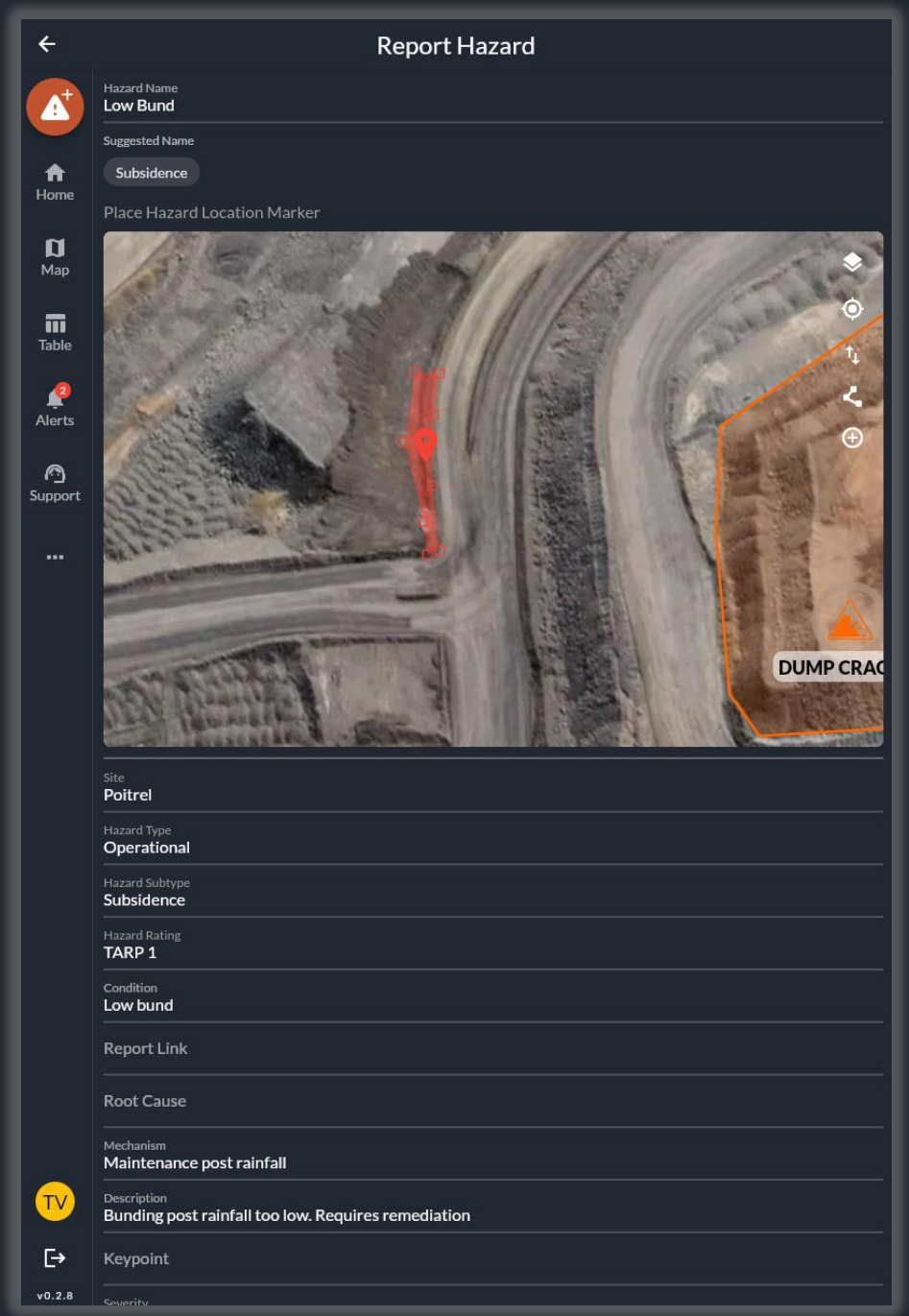
Quick and Easy Hazard Reporting

1. Press the “Report Hazard” button
2. Fill out the name
3. Select a location
4. Draw an area (if applicable)
5. Add the required properties
6. Add photos, videos or documents
7. Submit!



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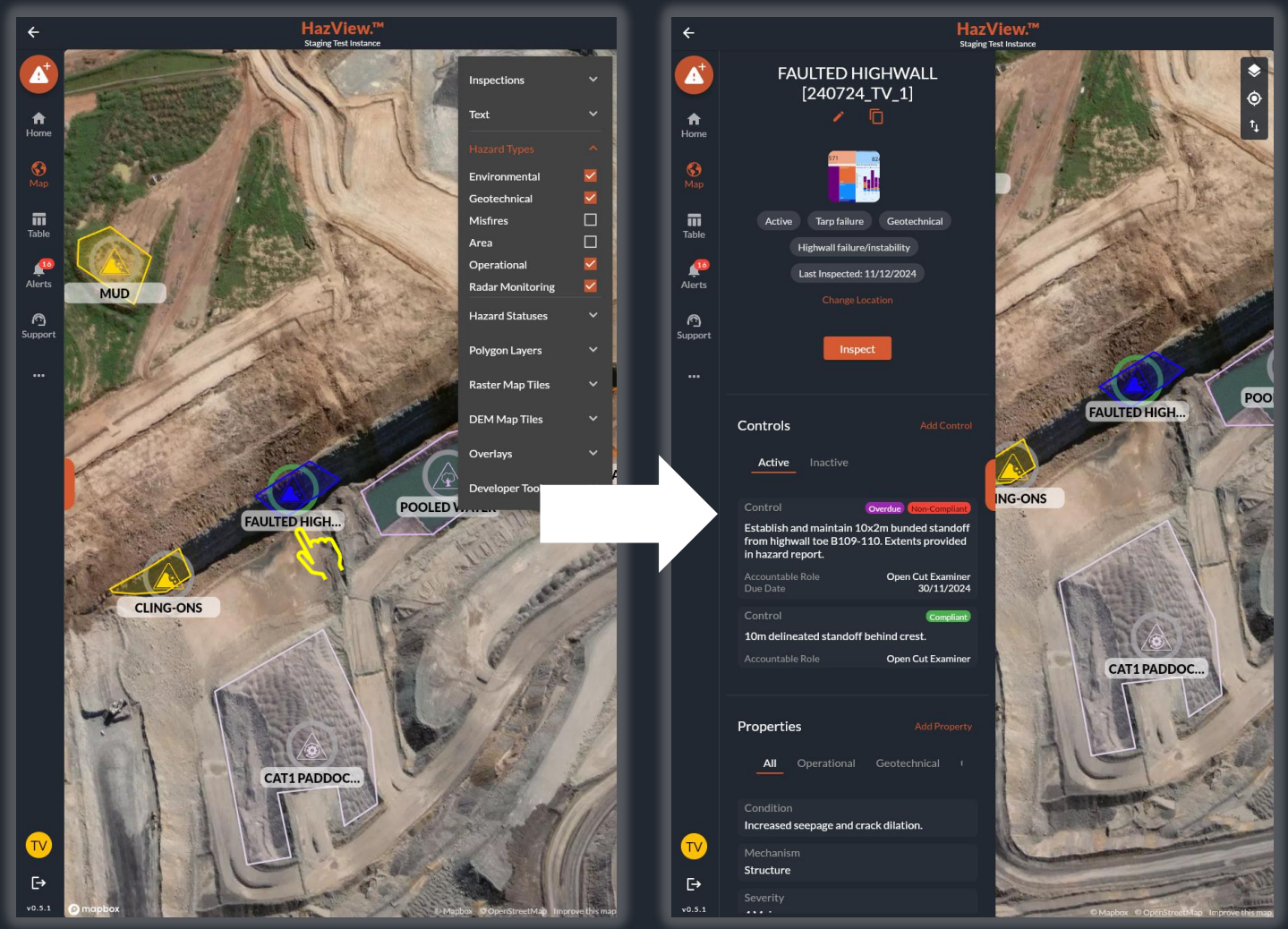
Hazard Map

- Your site imagery
- Hazard-type specific markers
- Hazard inspection status
- Click to see hazard properties
- Toggle layers
- Export to DXF



Click on a hazard marker to reveal the side bar!

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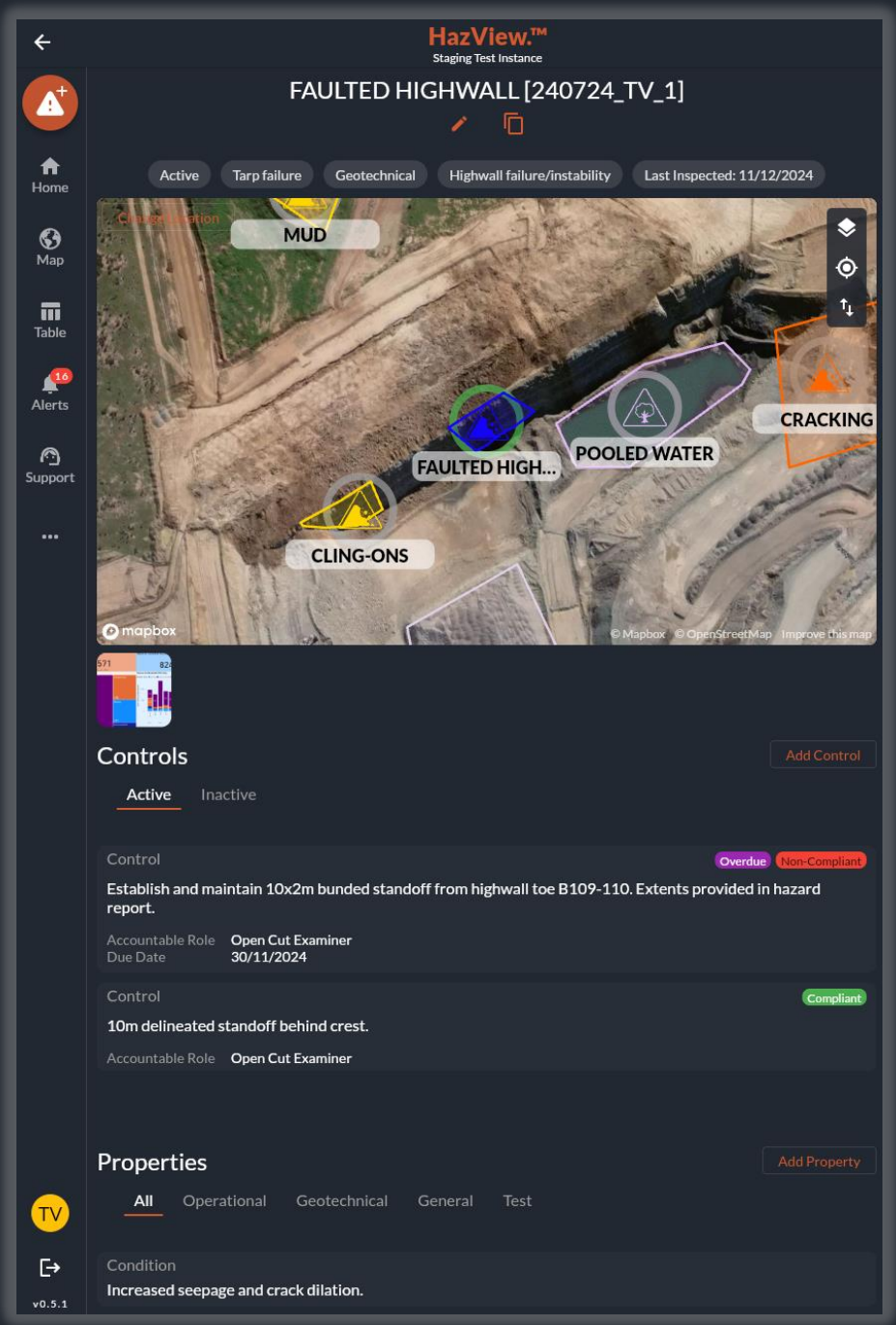
Hazard Page

- Hazard ratings
- Location and area
- Controls
- Properties
- Inspections
- Comments
- Media + files
- Full changes history!



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Hazard Table

- Query and filter all hazards (active and resolved)
- Arrange columns in a convenient way
- Hide columns
- Sort columns
- Export to .csv

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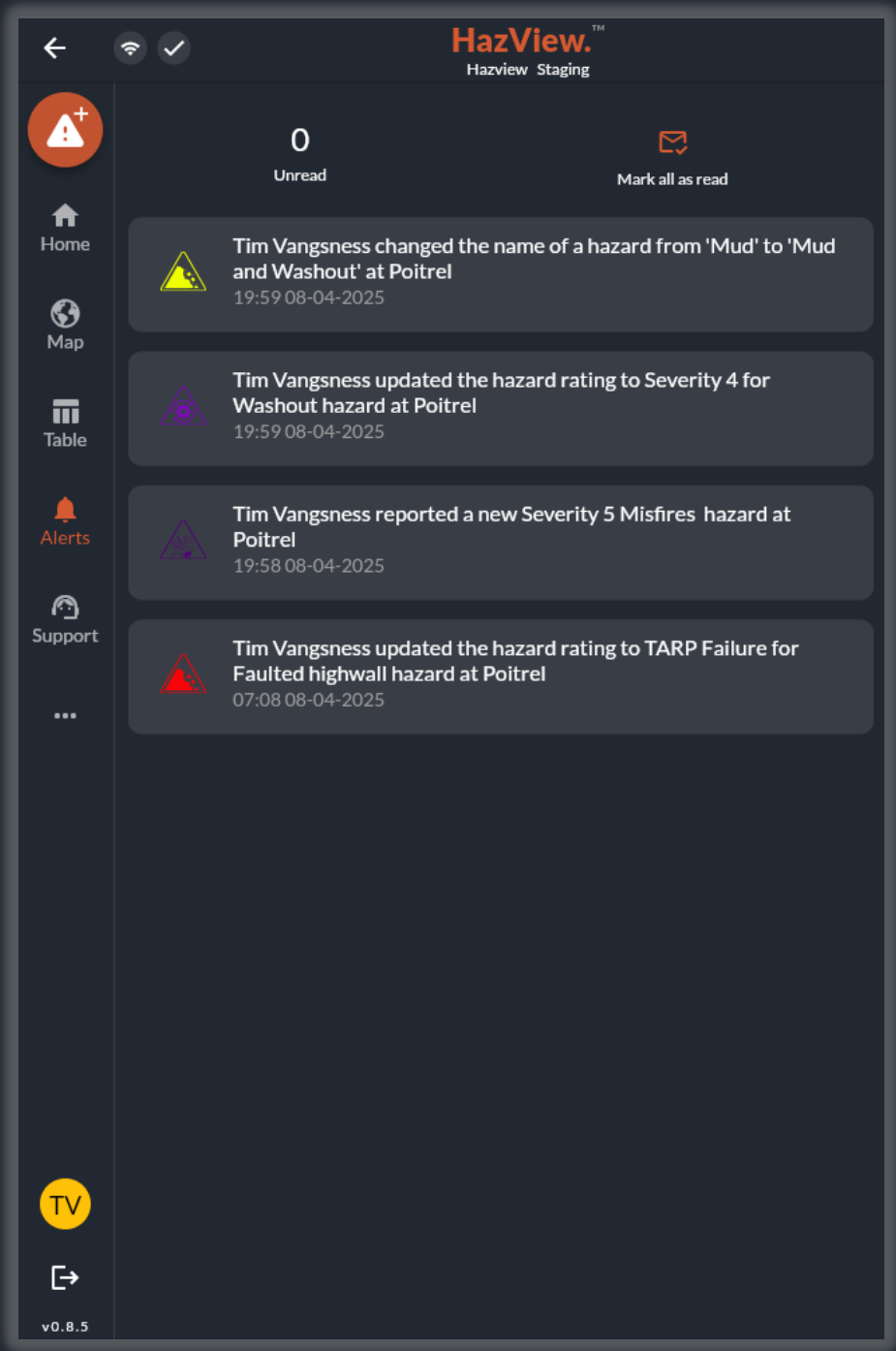
Notifications

- In-app notifications are generated for all substantial hazard changes
- Email notifications are sent out based on user-roles
- Custom settings to determine which user types get what notifications



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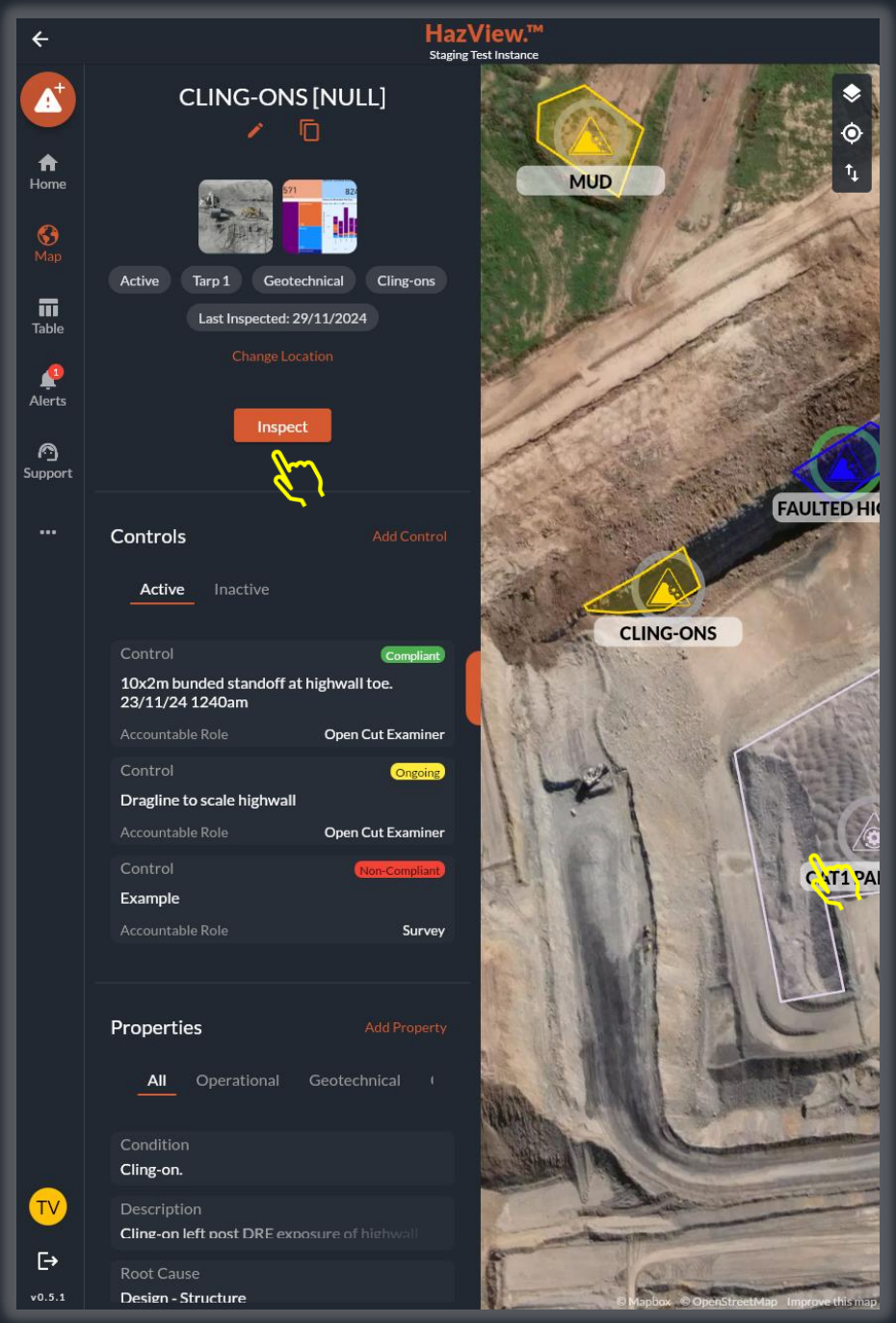
Inspections

- Set-up your own inspection schedule (multiple per day, daily, weekly etc.)
- Inspections can be restricted to pre-defined user roles
- Visual corona to see what hazards have been inspected.
- Custom inspection types (Environmental, Geotechnical e.g.)



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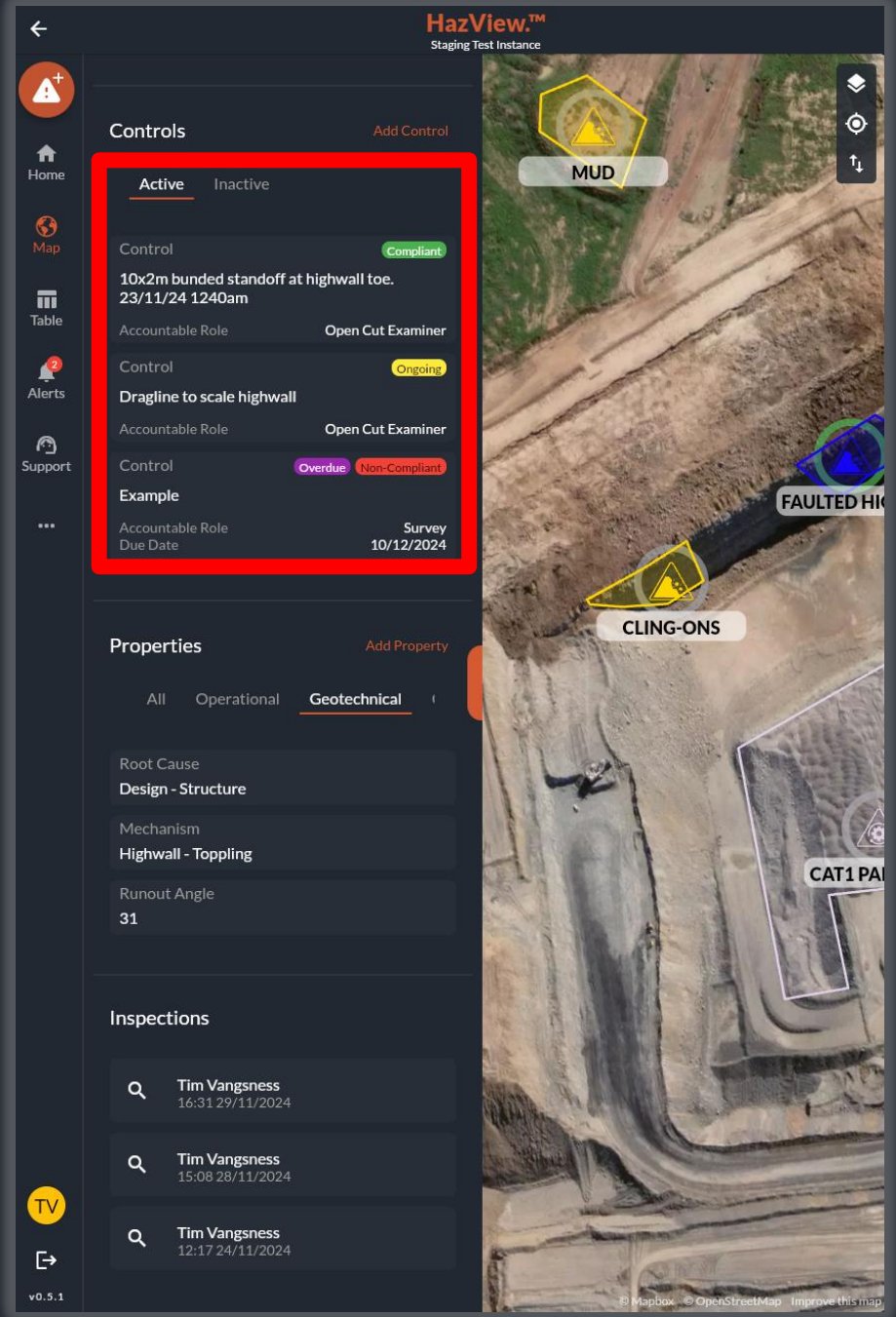
Controls

- Add controls to hazards when necessary
- Mark the controls as Non-compliant, Ongoing or Compliant
- Assign an Accountable Role
- Assign a Due Date



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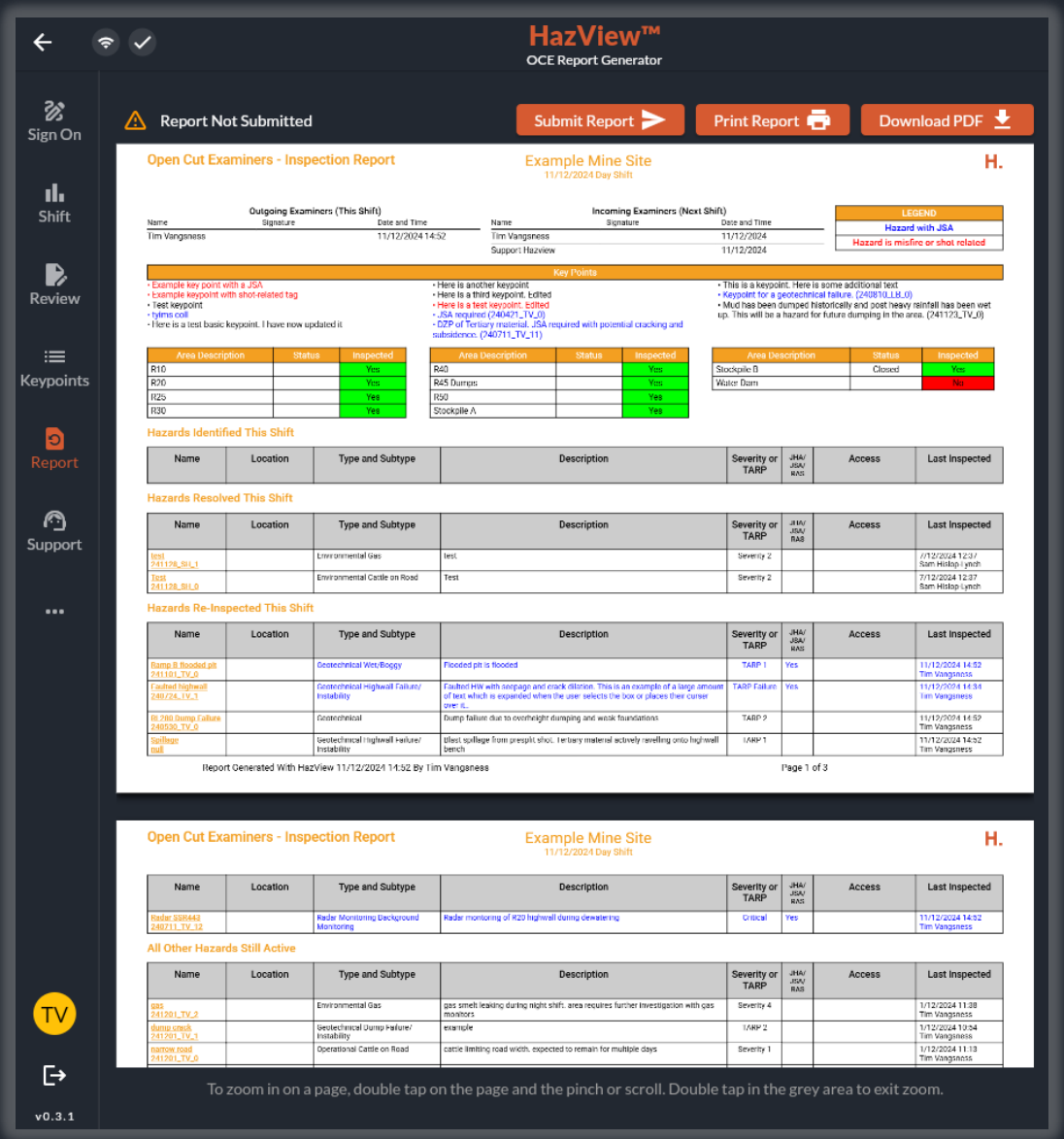
HazView Report Generator

- HazView generates shift-based reports with the click of a button.
- The format is completely customisable.
- PDF is updated live and automatically
- Submitted reports are archived in the cloud
- Inspectors automatically signed on
- Updates with inspection schedule
- Easily manage keypoints



HazView Data Interoperability

Pull data into HazView – Export data from HazView

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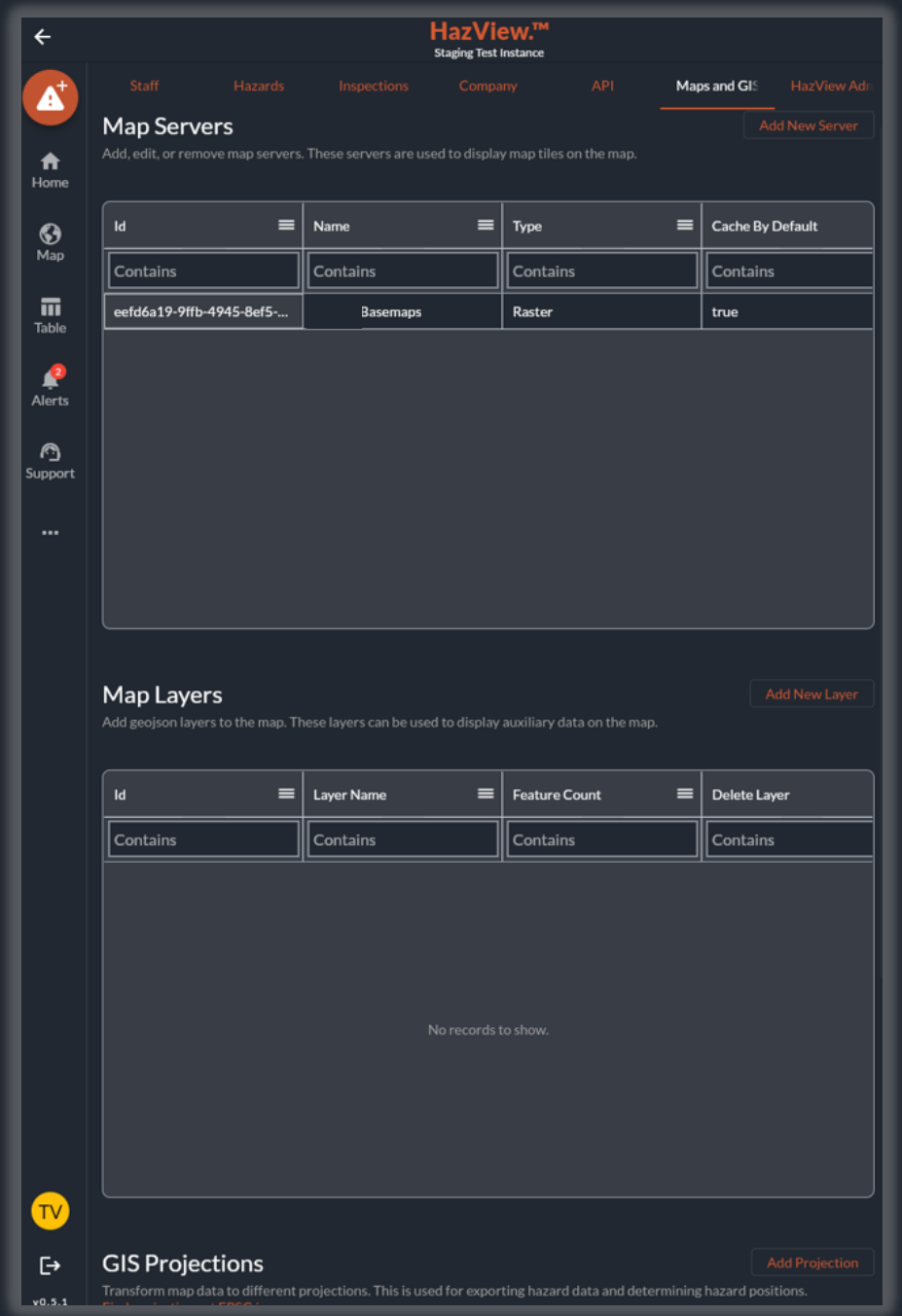
Map Sources

- HazView can accept and display multiple map sources
- Add both raster (flyover mosaic) and digital-elevation-model (DEM)
- Selectively cache map sources for offline viewing
- Customise Online and Offline quality



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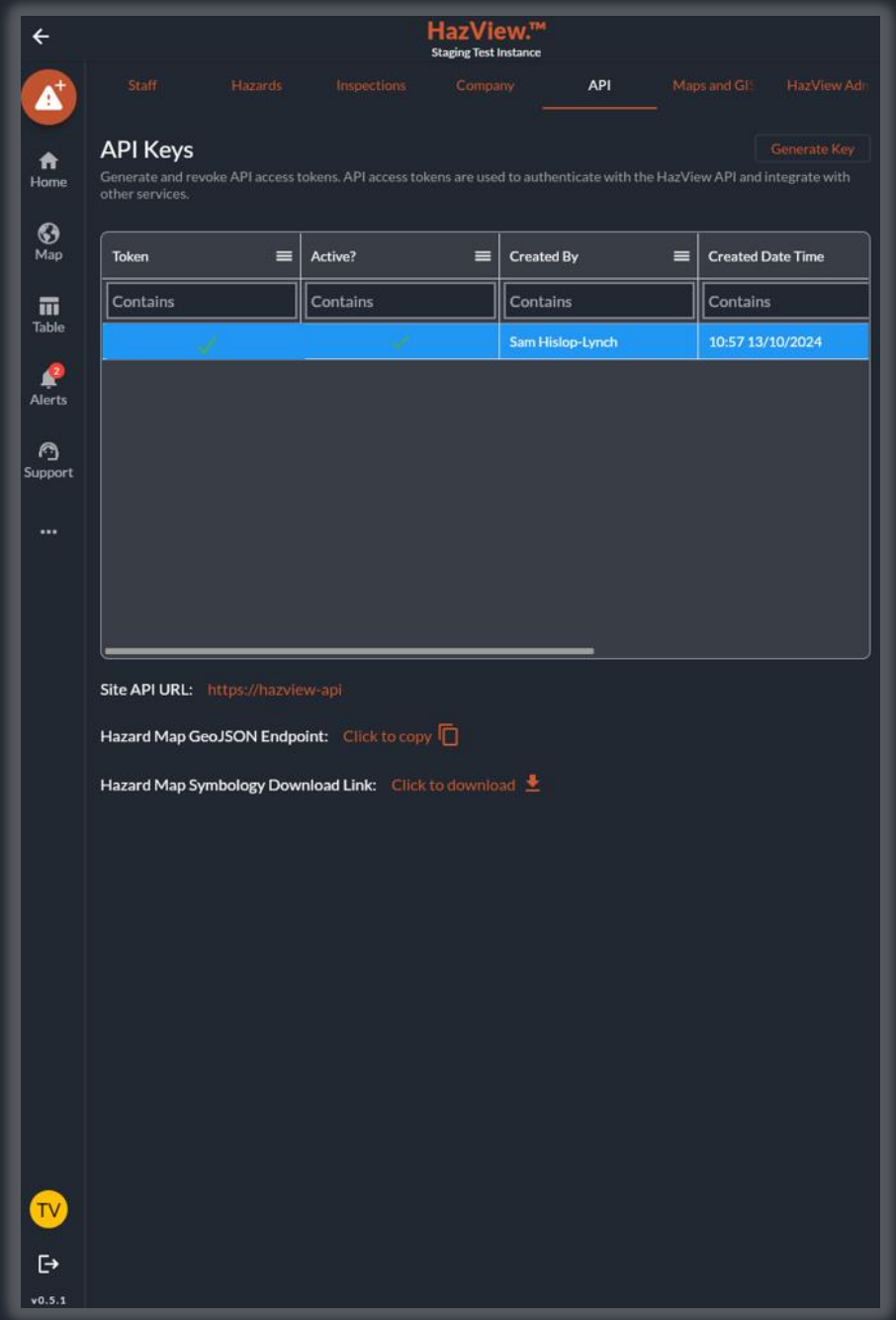
HazView REST API

- Extend your existing software with the HazView REST API
- Retrieve hazard data on-demand
- Protected read-only endpoint with token authentication
- Create and revoke tokens for added security



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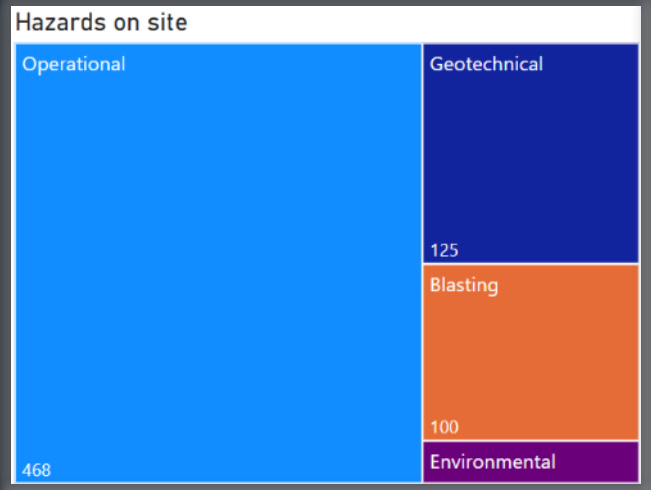
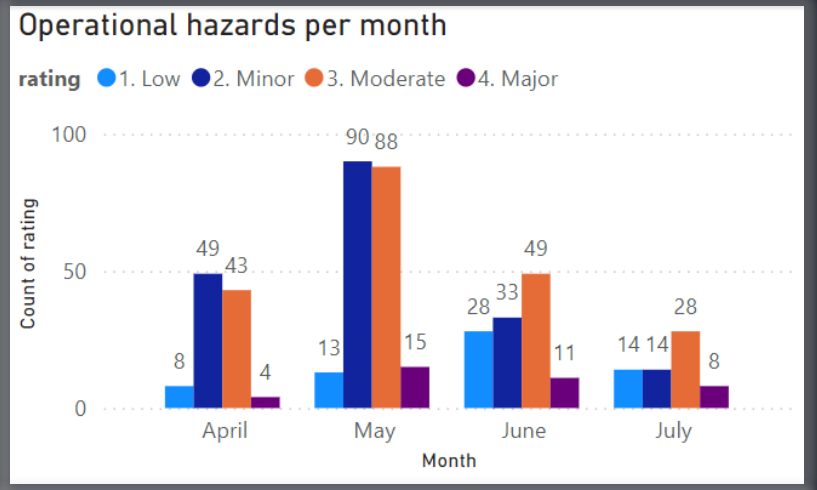
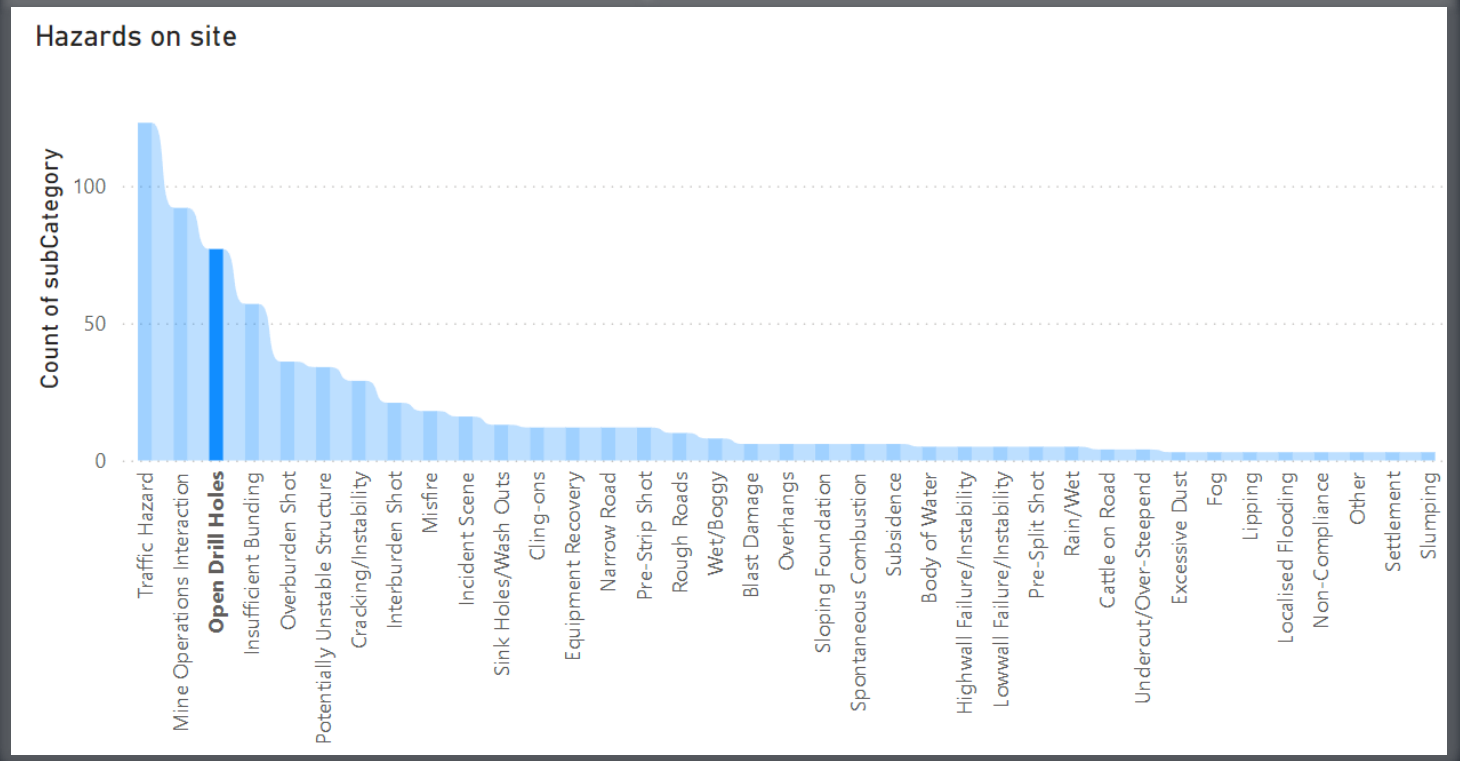
Business Intelligence / Analytics

- Connect your database to PowerBI
- Monitor and evaluate site-specific risks
- Transform data into strategic decisions
- Visualise and communicate trends







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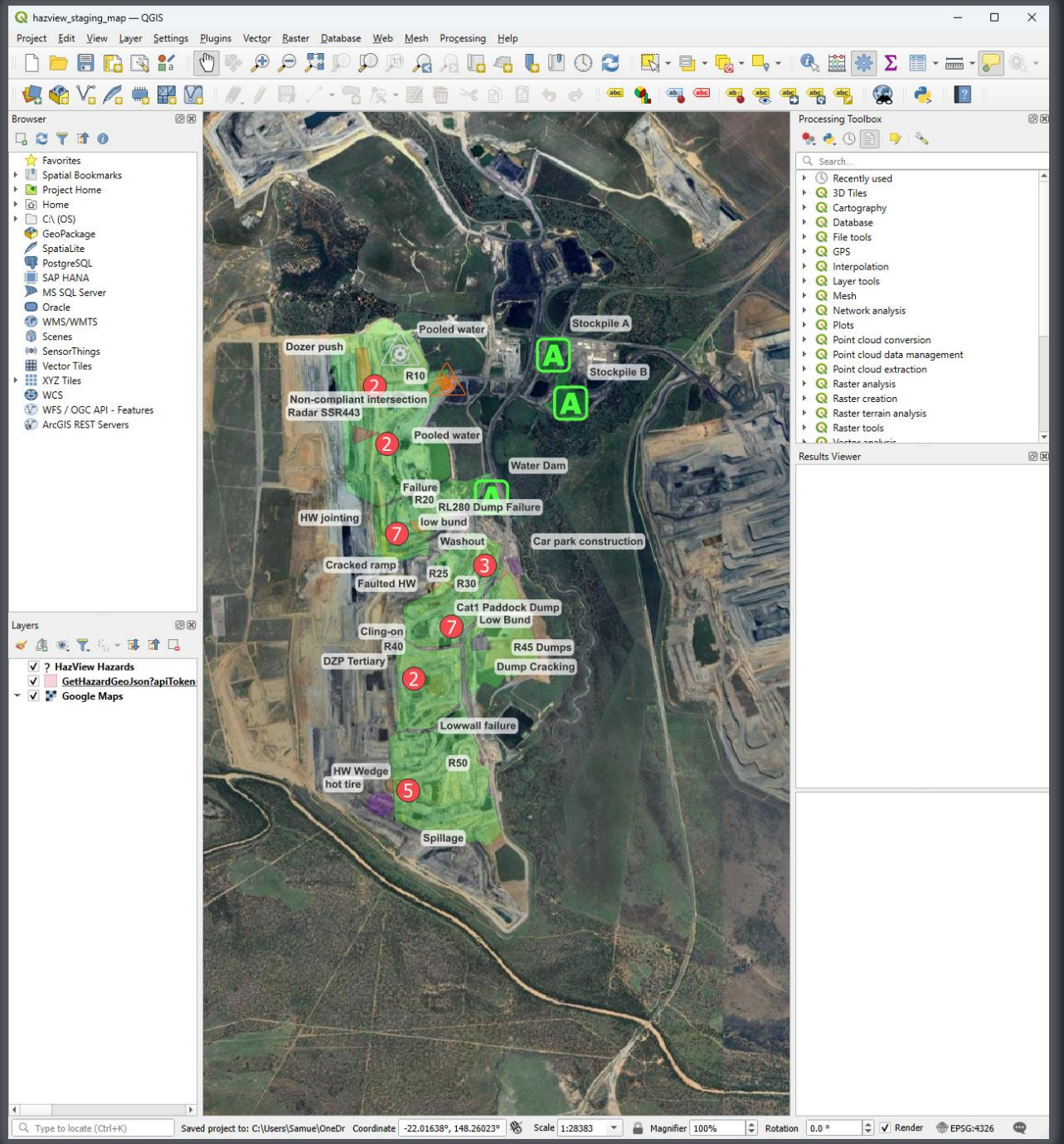
GIS System Integration

- Live GeoJSON endpoint
- Download your HazView symbology
- Connect HazView to QGIS and other GIS applications
- Integrate with ArcGIS online†

† Requires additional setup to refresh



Who Can Access HazView?

Is the data available to everyone? Are there permissions to control who can edit the hazard data?

HazView Users

- Everyone can have a copy of HazView on their device
- Setup custom roles (e.g. OCE, Geotechnical Engineer, Supervisor)
- Role-based read/write privileges
- Administration control for adding and deactivating accounts (contractors, ex-employees)

What Does a HazView Trial Look Like?

How long does long is a trial and what's involved?

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HazView Demonstration

Online meeting to demonstrate HazView:

- Functionality.
- Integration.
- Trial structure.
- Live demonstration.

Business solution: Sites current systems and HazView integration.

- Production manager.
- Technical services manager.
- OCE supervisor.
- Geotechnical supervisor.

Technical Overview: Required structure, roles and functionality.

- OCEs
- Geotechnical engineers.
- Mine planners.
- Survey supervisor.

Procurement: Vendor approval, legal and IT.

- IT representative.
- Procurement officer/representative.

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Trial Agreement:

- Both parties agree to undertake a 6-week free trial of the HazView software.

Internal Champion Nomination:

- Internal champion will be point of contact for data handover, site visit organisation and helping to facilitate meetings.

HazView set-up (Week 0): Getting everything ready.

- HazView will request data from internal champion.
- Aerial imagery.
- Typical OCE report.
- Hazard reports.
- .dxf of general areas and hazard locations.
- Site specific lat/long to easting/northing transforms.
- Site specific TARPs and risk rating systems.
- Trial agreement between HazView and Site will be signed.
- Determination and agreement of trial success KPIs.

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Kickoff On-Site (Week 1-2): Testing the software

- HazView team come to site and launch the trial.
- Finalise site setup.
- Training for all users.
- Site users test the software:
  - Build familiarity.
  - Trial the software in the field.
  - Maintain up-to-date hazard information.
  - Generate shift-based reports.
- Weekly meetings to discuss progress, collect feedback and ensure successful onboarding.

Full Transition (Week 3-6): Using the software

- Site uses HazView as main source of truth.
- All teams keep their information updated (OCE, geotechnical e.g.).
- Reports are generated and published based on HazView data.
- All users have access.
- Vendor confirmation.
  - HazView to be set up as a vendor.
  - Processing of any required security, legal and procurement requests.
- Weekly meetings to discuss progress, collect feedback and ensure successful trial.

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Safety Just Got A Major Upgrade