



ALDE Members' Forum – May 2023

Engineering Tools





David Glover

Principal Geotechnical Engineer



Travis Shreeve

Senior Principal Environmental Consultant

Australian Land Sector Lead

Tools

Site Tools

- Paperless forms
- Drones
- GPS-tracked compaction

Design Software

- PLAXIS
- WALLAP
- Lpile / Group
- Slope W / Slide
- Rockfall
- Swedge
- 12d
- Spreadsheets

Data Management / Sharing

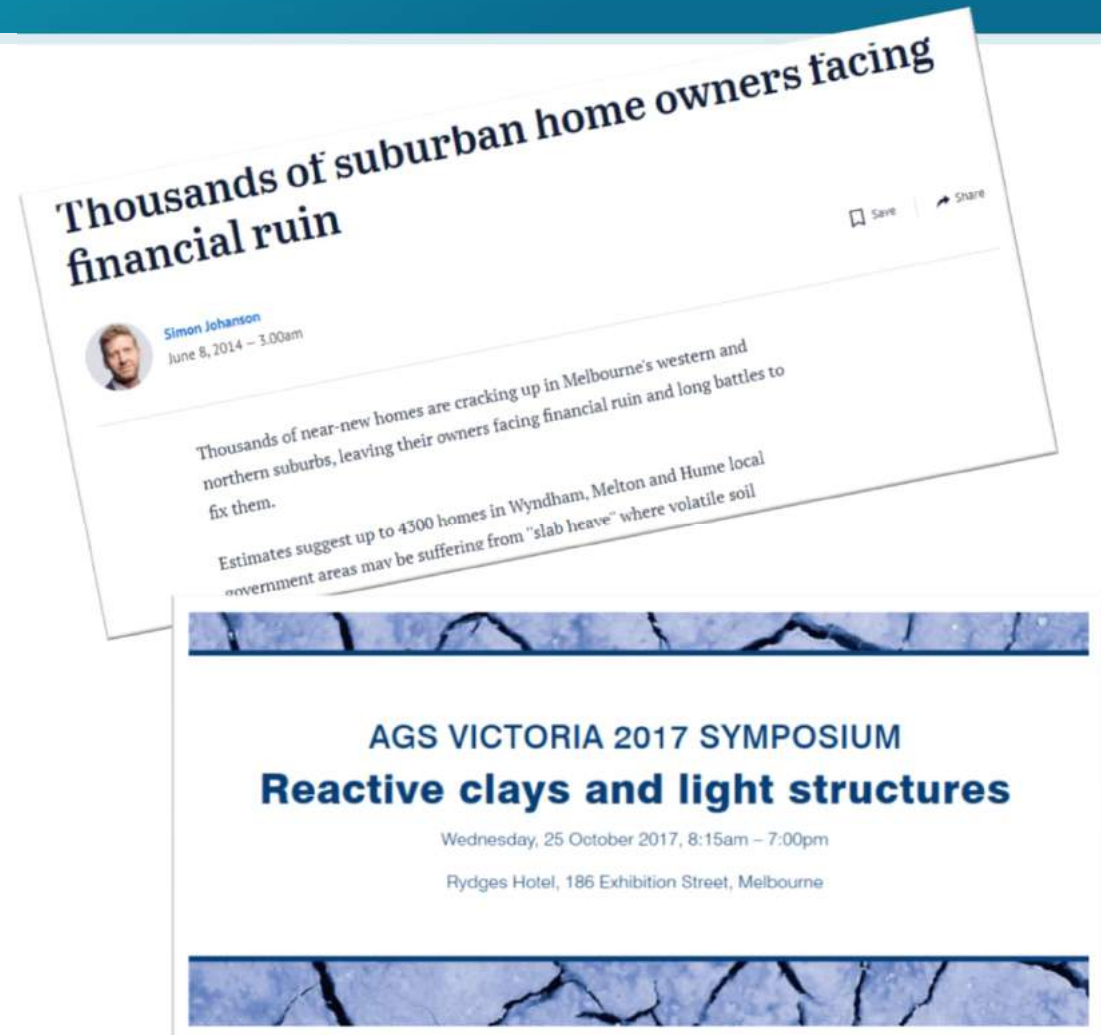
- Bluebeam
- Revisto
- ArcGIS
- AGS 4 format



AI

ChatGPT

- Privacy and commercial sensitivities.
- Verify and double-check answers.
- Valuable in some settings, potentially dangerous in others.



AI

InfinityStudio.AI

Our Products



Apeiron

An AI/ML enabled platform which digitally integrates and automates the geotechnical engineering modelling design and assessment tools for the built and natural environment.

[Know More](#)



Athena

A digital platform built around a set of tools for disaster risk reduction and disaster response designed for the built and natural environment.

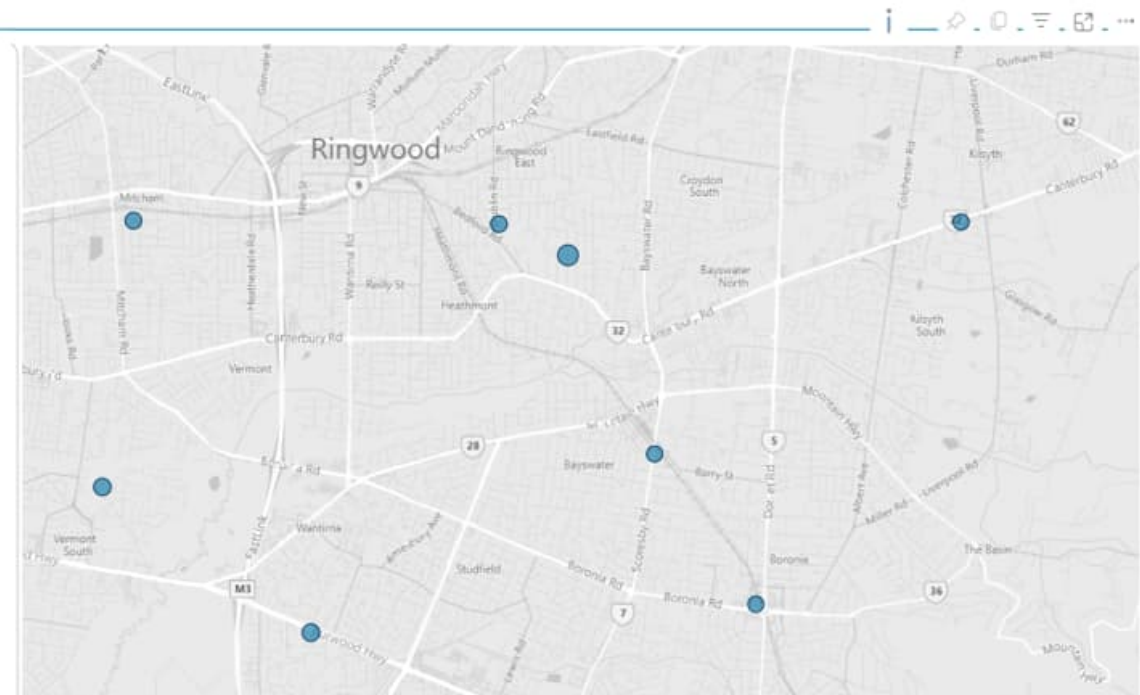
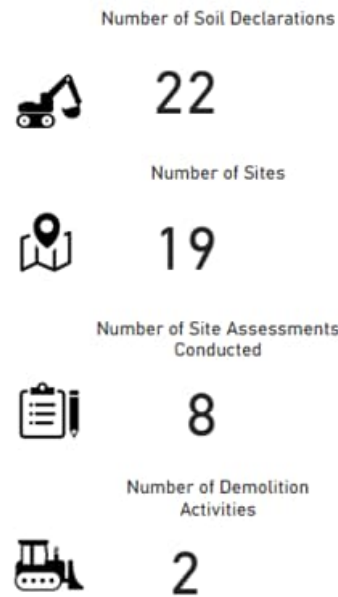
[Know More](#)

Private Databases and Mapping Tools



Power BI Dashboards

Soil Declaration Summary



Private Databases and Mapping Tools

ESDAT

Environmental data management, analysis and reporting software for environmental and groundwater data



Private Databases and Mapping Tools

Drone - Landform surveys & Real time aerial photos



Public Databases and Mapping Tools

Visualising Victoria's Groundwater

GeoVic

Melbourne 1945

Nearmap

Melways

Victoria Unearthed

Victorian Background Soil Database



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Visualising Victoria's Groundwater

GeoVic

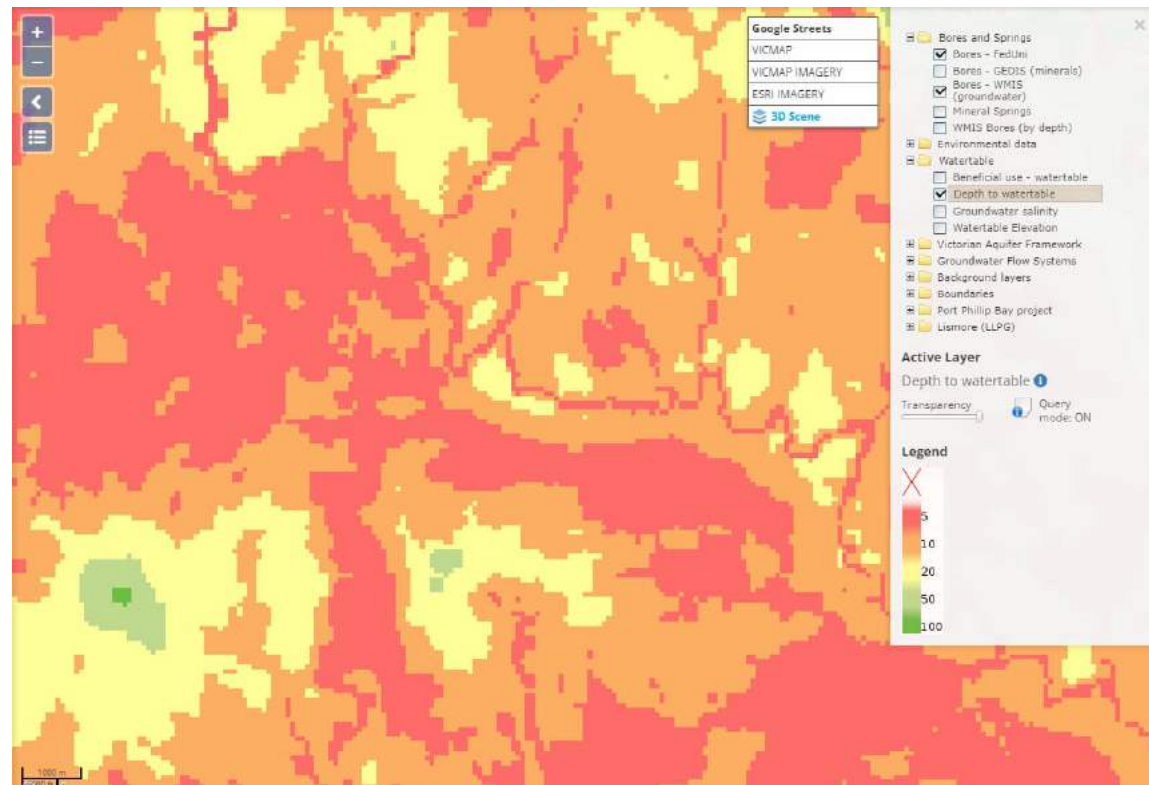
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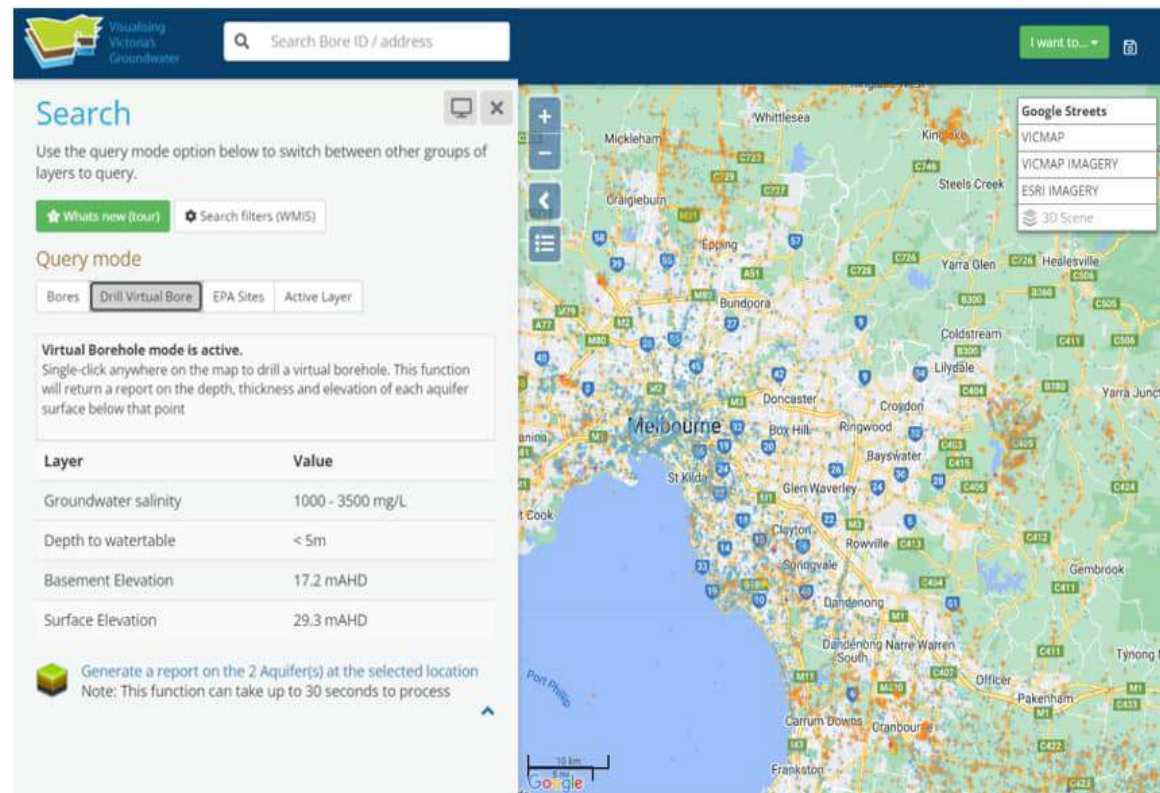
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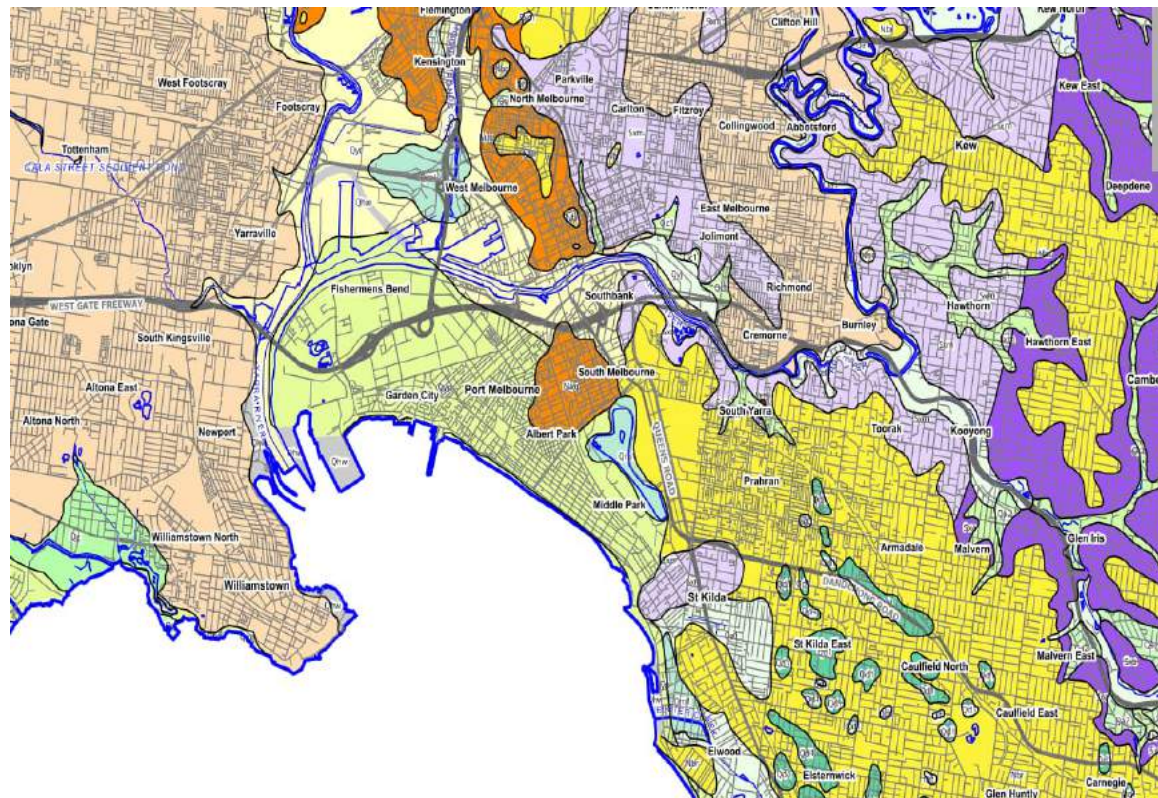
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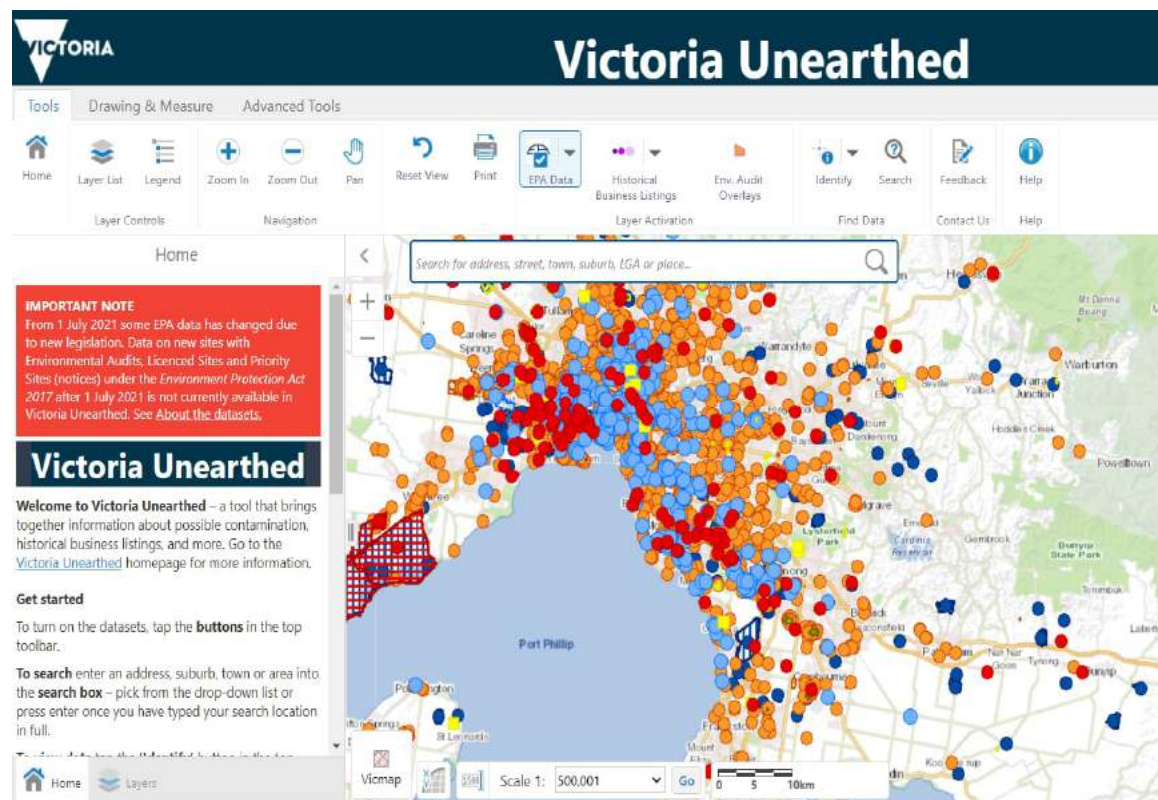
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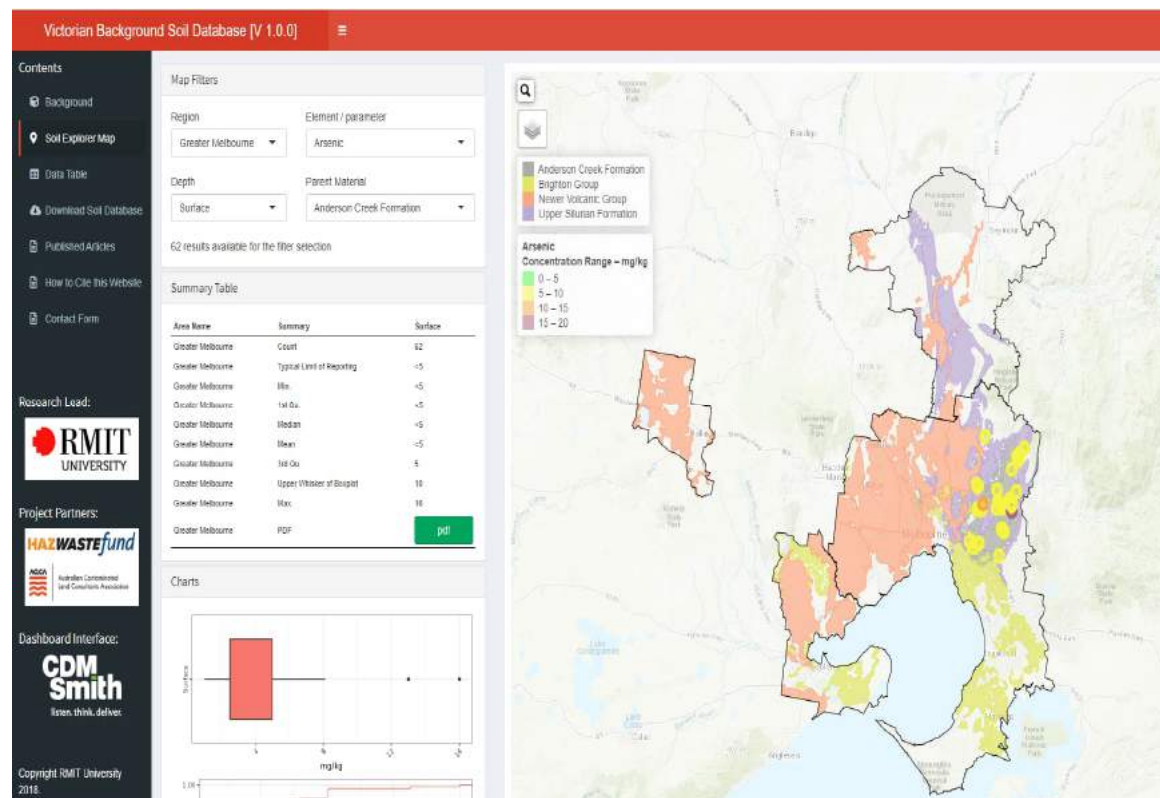
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Mikkonen, H.G., Bentley, P.D., Barker, A.O., Dasika, R., Wallis, C.J., Clarke, B.O., Reichman, S.M., 2018. Victorian Background Soil Database, Version 1.0. RMIT University, Melbourne, Australia. <http://doi.org/10.4225/61/5a3ae6d48570c>

