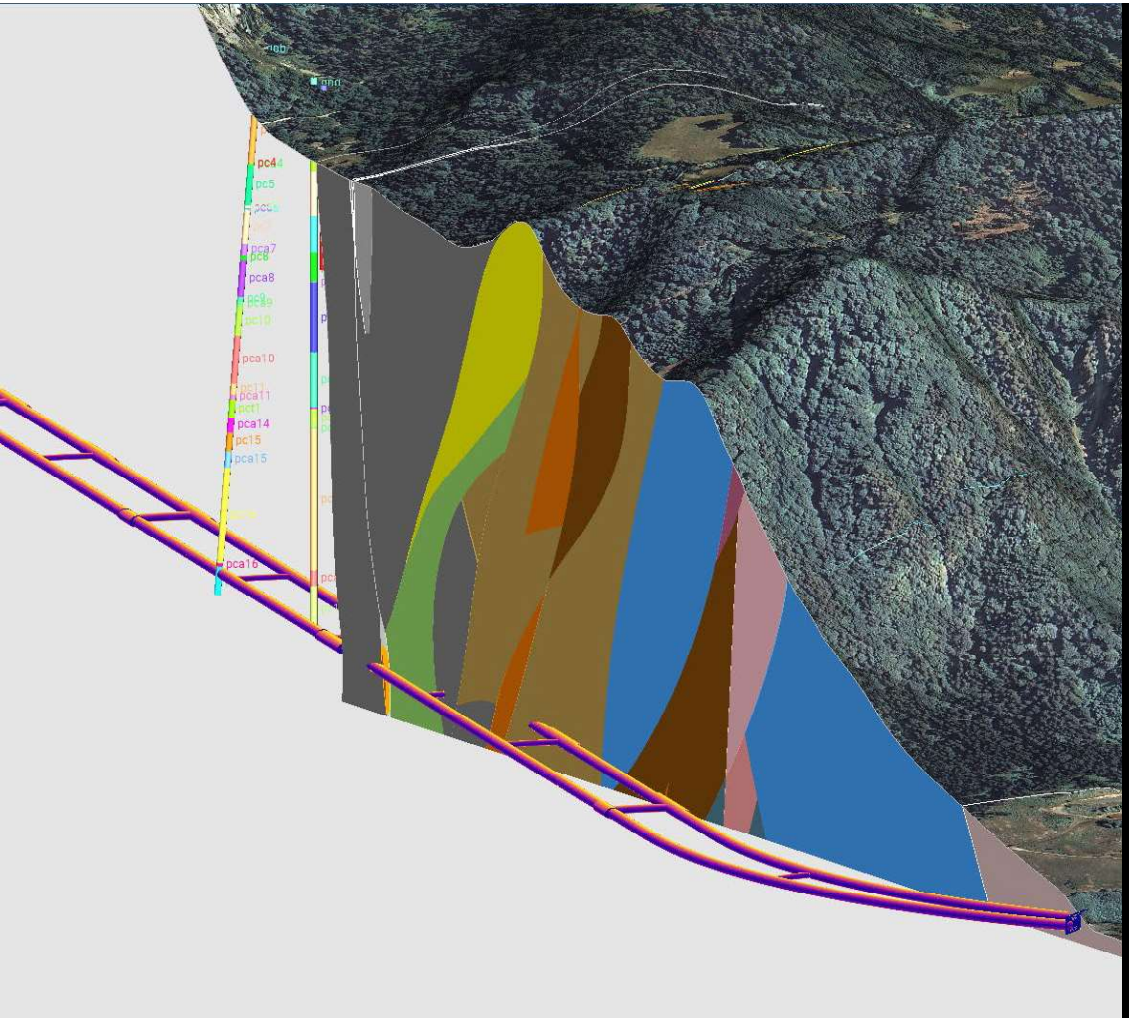
What is Leapfrog Works



leapfrog | WORKS

Leapfrog Works is a 3D 3D implicit geological modeling software designed for civil and environmental industries.
It allows you to quickly construct models directly from various sources including boreholes, points, and surfaces.

Visualize complex geotechnical, geological, and environmental data in one environment, enhancing understanding of subsurface conditions and managing uncertainty.

Widely used in infrastructure, tunneling, ground engineering, and contaminated site remediation projects,

Why Leapfrog Works

3D Visualization	Intuitive Interface	Data Integration	Dynamic Updating	Risk Management
Allows teams to visualise the underground environment in 3D making complex data easier to understand and communicate.	User-friendly interface with logical workflows and context-aware tools, to quickly get started with minimal training.	Integrates geophysical, geological, hydrogeological, and geotechnical data in one space, for easy interpretation.	Changes in data or project specifications automatically reflect in the models, reducing the chance of working with outdated information.	Helps identify and mitigate potential subsurface risks, increasing confidence in project decisions.

Key features of Leapfrog Works

1-INTEGRATION OF MULTIDISCIPLINARY DATA

- Elevation Grid
- GIS Vector Data
- 2D Grids
- Images (Maps/Photos)
- Borehole Data
- Points
- Polylines
- Designs
- Geophysical Data
- Structural Data
- Meshes
- Cross Sections
- Block Models
- FEFLOW Models
- MODFLOW Models



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2-IMPLICIT MODELLING

Quickly construct models directly from various sources:

- Boreholes
- Points
- Surfaces

Construct first-pass surfaces quickly; **modified** as needed to fit your **geological interpretations**

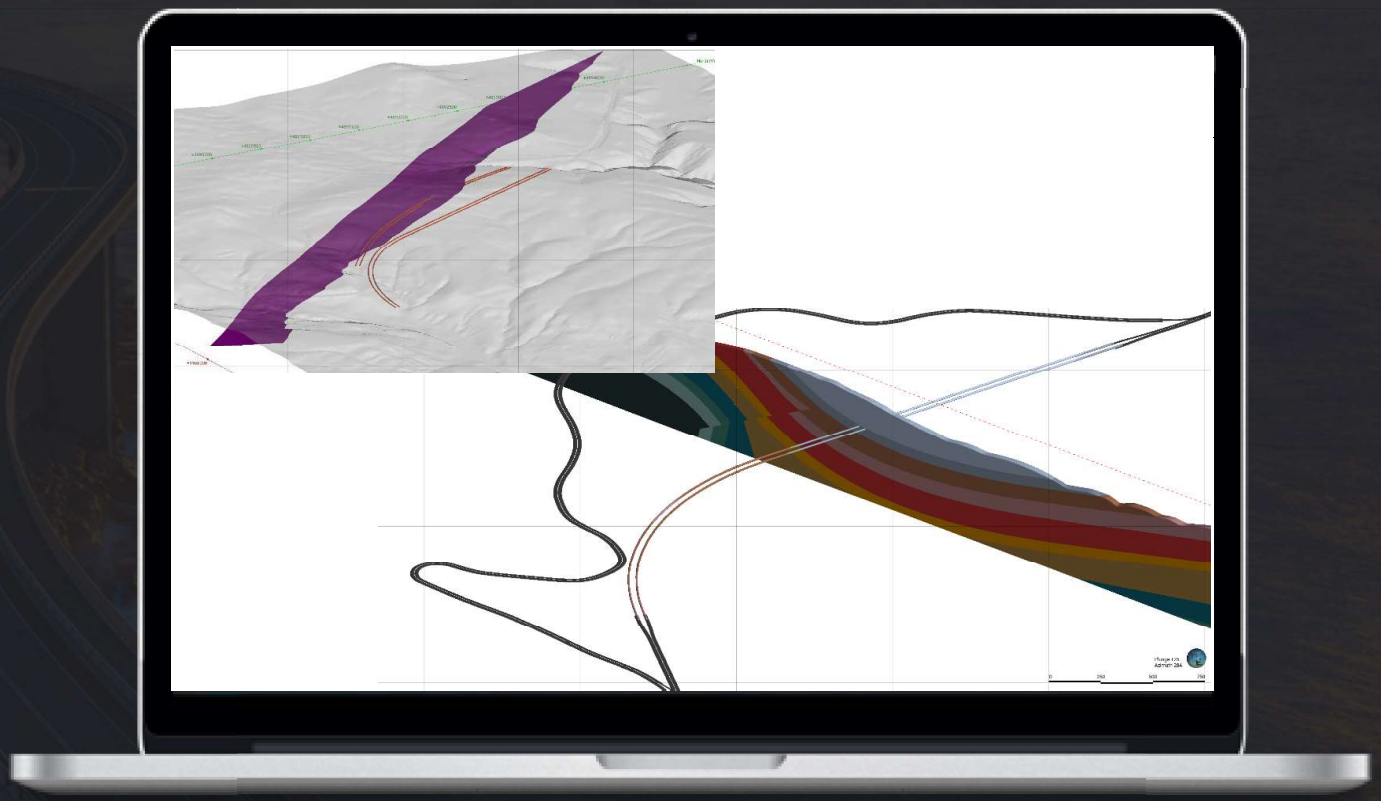


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3-DYNAMIC UPDATING

Due to its **implicit** nature, your models can be **dynamically updated** to honour new input data at any time

Identify and communicate where **more data** is required

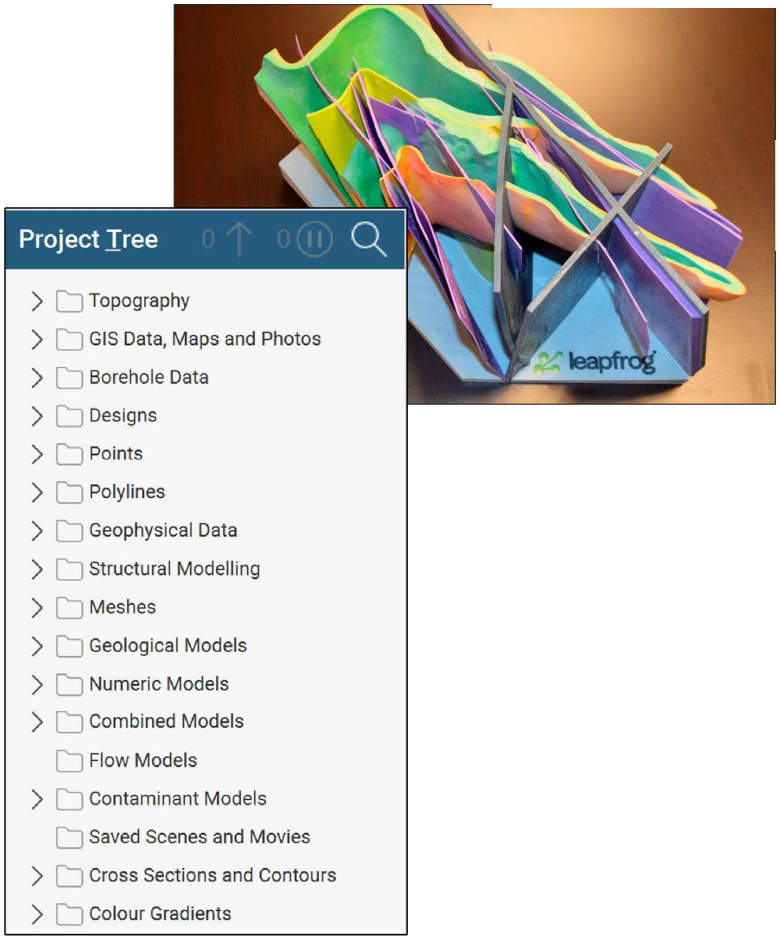


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4-COMPREHENSIVE DATA OUTPUTS

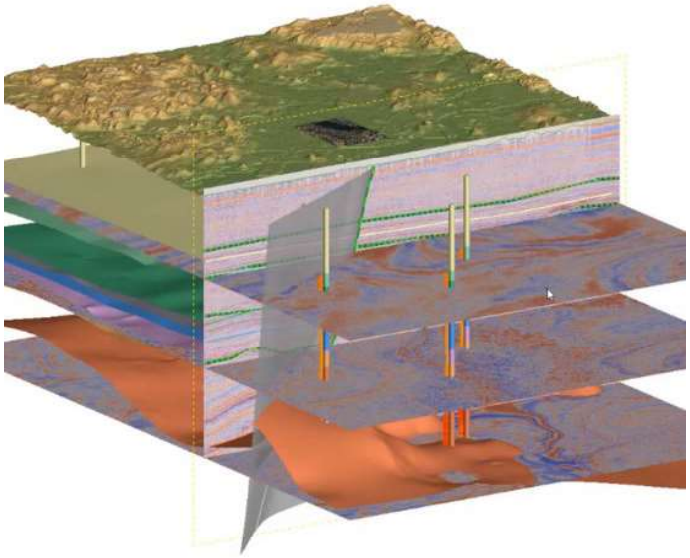
leapfrog | WORKS

- 3D Surfaces/Volumes
- GIS Lines, 2D Grids
- Images (Maps/Photos)
- Movies
- Borehole Tables
- Planned Boreholes
- Points, Polylines
- Designs
- Geophysical Data
- Stereonets
- Structural Data
- Cross Sections
- 3D Scene Files
- Block Models*
  (*with Contaminants extension)
- Graphs and Statistics
- FEFLOW & MODFLOW Models**
  (**with Hydrogeology extension)
- 3D Printed Models
- Publish Projects to Central

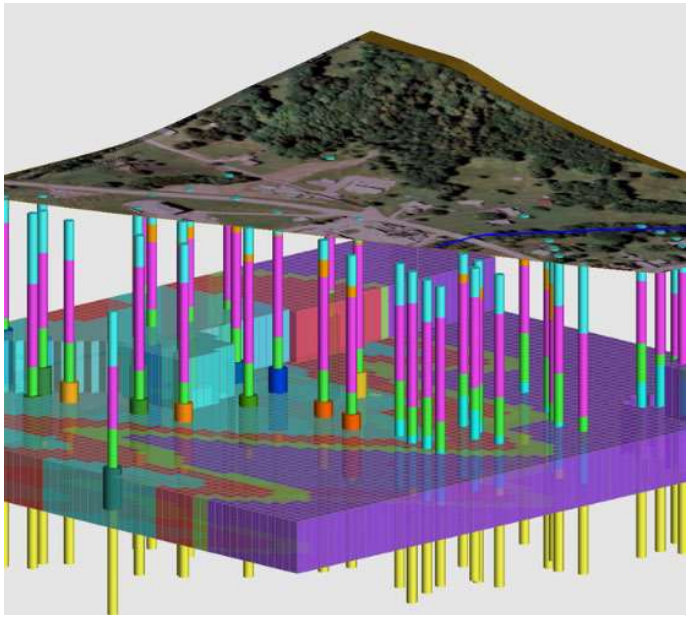


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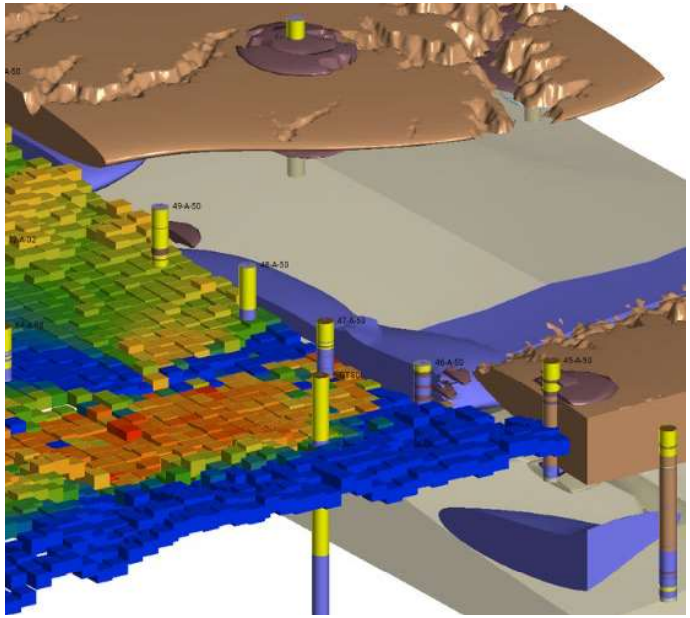
Leapfrog Works Extensions



- **Geophysics Extension**
- Adds geophysical data for a more detailed subsurface understanding.



- **Contaminants Extension**
- Integrates contaminant data to model and visualise plumes.

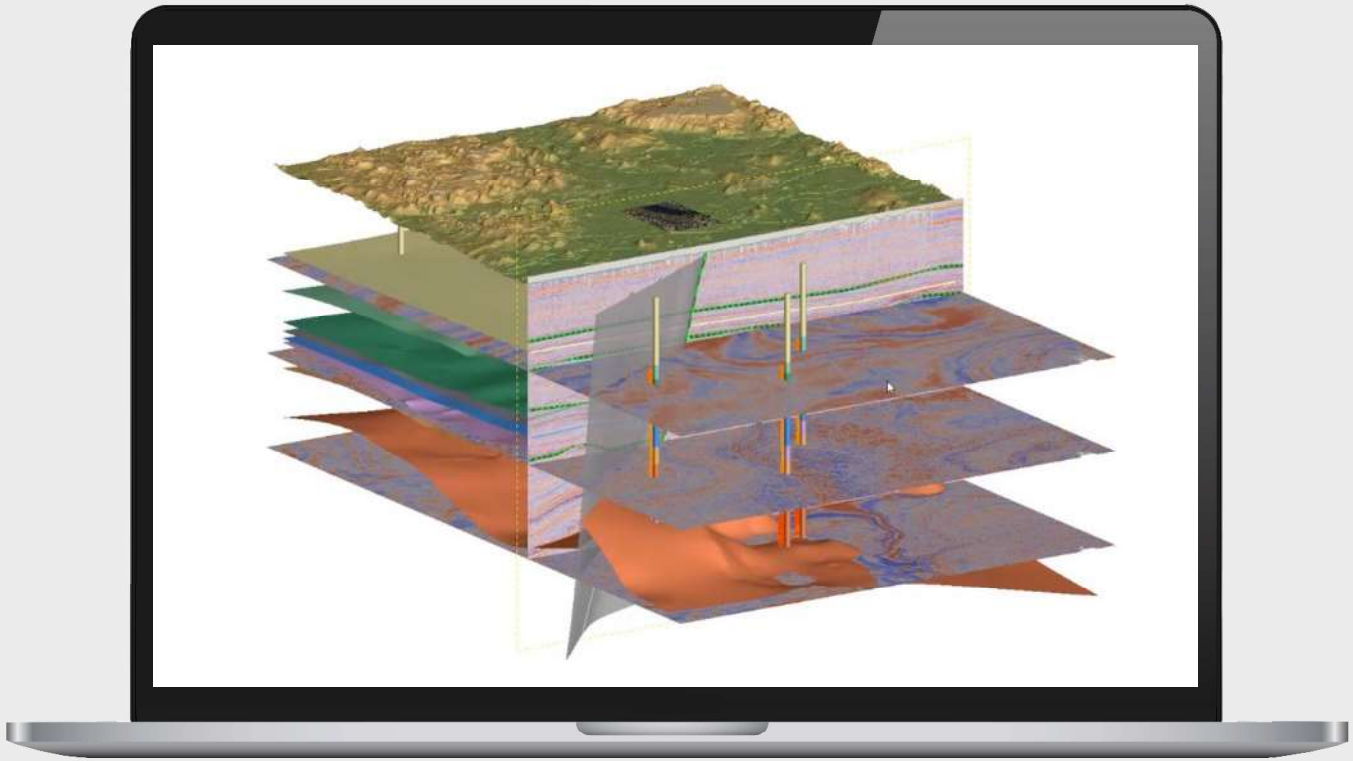


- **Hydrogeology Extension**
- Incorporates groundwater data to model flow and transport.

Geophysics Extension

Adds geophysical data for a more detailed subsurface understanding.

Leverage the power of your geophysical data in Leapfrog Works to visualise, analyse and guide interpretation of Seismic data and Ground Penetrating Radar (GPR), in the context of your 3D geological model.

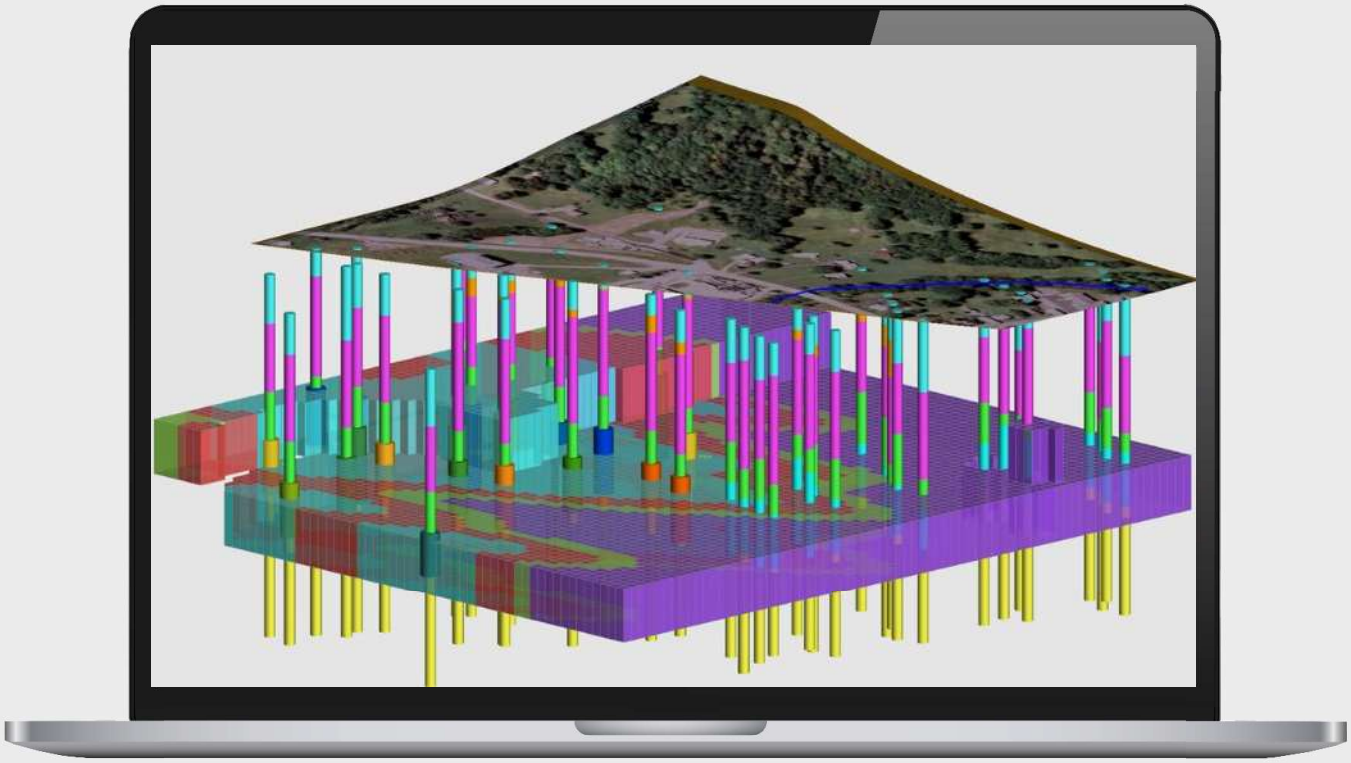


Contaminants Extension

Integrates contaminant data to model and visualise plumes.

Bring contaminant data directly into your Leapfrog Works 3D geological models.

This intuitive, interactive extension allows you to characterise, visualise, and create auditable geostatistical analysis of contaminant mass and location in a variety of subsurface environments.



Hydrogeology Extension

Incorporates groundwater data to model flow and transport.

Incorporate MODFLOW, and FEFLOW models to aid understanding of flow conditions and further reduce risk.

Use geological and numerical models to inform flow models and deepen your understanding of hydrogeological properties of the subsurface environment.

