Frequently Asked Questions
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GENERAL

1. What is Leapfrog Works?
Leapfrog Works is a dynamic 3D subsurface modelling solution that turns complex data into clear, easy to interpret models. Works helps you visualise and understand the geology so you can communicate and make better decisions on all your civil engineering and environmental projects.

2. Who is Leapfrog Works for?
Leapfrog Works is designed specifically to support civil engineering and environmental project workflows and can benefit all teams involved in civil engineering and environmental projects, from global design and build corporations, to government bodies, to the smallest geotechnical or environmental consultants. Leapfrog Works is particularly relevant for reducing risk on projects involving:
- large scale or deep earthworks, such as tunnelling, rail, roads, dams, or commercial buildings,
- complex or challenging geology,
- groundwater or contaminants,
- multiple internal or external parties in the project venture, who need to collaborate around a common understanding of the ground conditions.
- Building Information Modelling (BIM) workflows

3. How does Leapfrog Works benefit Civil Engineering projects?
With Leapfrog Works you can rapidly model geological and geotechnical domains and then import the engineering design into the model to visualise the impact, and design better solutions for the prevailing ground conditions. It provides insight into what to expect in the construction phase of the project and helps identify areas where the design may need to be examined more closely given the expected geology. You can then publish the geological or geotechnical interpretations as a 3D BIM model for projects utilising BIM workflows.

Even the best model is of limited use unless you can share it and collaborate around it with confidence. Leapfrog Works is part of an ecosystem of solutions that enable effective model management and easy sharing anywhere in the world.

4. How does Leapfrog Works benefit Environmental projects?
With Leapfrog Works you can model both ground and groundwater domains fast and effectively in full 3D to create static models of contaminant plumes or the freshwater/saltwater interface, and with the optional Hydrogeology solution kit geological models and unit properties can be exported to run flow simulations and the time sequenced output of the flow model can be viewed and shared through Leapfrog Works.

Environmental projects have diverse stakeholders with varying levels of technical knowledge. Leapfrog Works is part of an ecosystem of solutions that enable effective model management and straightforward sharing of your 3D insights to engage stakeholders with ease and confidence.

5. We use CAD software already – why is Leapfrog Works different?
Leapfrog Works is implicit 3D modelling software, that can incorporate outputs from CAD software, and is not Computer Aided Design software itself. The key difference is that Works combines disparate data from ground investigations together with a geotechnical or geoscientist’s expert interpretation to construct a dynamically linked 3D model based on common geological principles. This is a model of the ground conditions, based on available
data which can often be sparse. Leapfrog software is based the FastRBF™ algorithm which makes the dynamic linking of data to 3D model possible. This provides critical benefits to geotechnical and environmental consultants including:

- New data or interpretations can be added and the model run again in minutes, without having to build the model from first principles again
- Cross sections can be cut from anywhere in the 3D model on demand, and are automatically regenerated when the model is updated
- 3D visualisation and easy sharing of interactive 3D scenes to engage your stakeholders.

In contrast CAD software are, as the name suggests, design packages. They allow you to draw what you intend to build or excavate, or represent an as-built design. The surfaces are often regular and controlled completely by the designer, as opposed to existing, and shaped by nature. Whilst 3D design models are becoming more common, designs may still be limited to 2D plans and sections in some cases.

6. **How does Leapfrog Works help with geotechnical analysis?**

Geotechnical analysis software allows users to set up the conditions for a specific geotechnical problem based on some initial representation of the geology. Leapfrog Works support this workflow by modelling the geology, and producing 3D volumes or the creation of 2D cross sections. Whether 2D or 3D, this geology is then used to seed the geotechnical analysis with the best representation of the geology. Typically, the results of the geotechnical analysis can then be taken back into Leapfrog Works for display in the context of the wider site.

7. **Can I try out Leapfrog Works for myself?**

Yes! It is easy to set yourself up with a trial. Simply go to [https://trials.leapfrog3d.com/](https://trials.leapfrog3d.com/) and follow the simple steps to get up and running on a free, no obligation, 14 day trial. You will receive a series of emails directing you to handy online resources to help you understand Works, it's benefits for you, and to ensure you get the most out of your trial.

8. **How do I install Leapfrog Works software?**

Depending on your internal IT policy you may need your IT department to install the software for you. The installation file is available for download on our website and can be copied to a USB or network drive for further deployment.

It is recommended that Network Administrators either take a trial themselves or run the Leapfrog Start utility to confirm that all Leapfrog web services supporting seamless operation of Leapfrog Works can be accessed from within your organisations network. For more information on Leapfrog Start see [Info for IT Admins](#).

9. **How does Leapfrog Works build reliable 3D geological models so fast?**

Leapfrog Works uses the proven Leapfrog 3D implicit modelling engine and toolset that has been used by geologists worldwide for over a decade. The Leapfrog 3D engine is fast and dynamic when dealing with complex geology and large datasets, so you can focus on applying your specialist knowledge to better understand the ground conditions. As more data becomes available simply re-run the model and enjoy the higher confidence that comes with more data.
10. **What site investigation data is supported?**
Leapfrog Works supports a wide range of site investigation data from borehole data files, with lithology and numeric data as well as a range of point, polyline and mesh data files, structural planar data, CAD data, GIS vector data from Esri or MapInfo, 2d grid data and digital elevation models, common image formats and pdfs.

11. **What common ground investigation databases are supported?**
Leapfrog Works supports both Association of Geotechnical and Geoenviromental Specialists (AGS) files and Bentley gINT database projects (.prj) letting you import or connect to your borehole database and build 3d models directly from the data.

12. **What Engineering design data is supported?**
Leapfrog Works supports drawing (.dwg) and data exchange format (.dxf) versions R13/ R14/ 2000 (R15)/ 2004 (R18)/ 2007 (R21)/ 2010 (R24)/ 2013 (R27). Native Civil3D objects in the dwg format are not supported and must first be exported to AutoCad objects in the dwg format before they can be imported into Leapfrog Works.

13. **What BIM workflows and formats are supported?**
Leapfrog Works supports export of geological, numeric and combined models in Industry Foundation Class (IFC) version 4, Bentley drawing (DGN) or Autodesk drawing (DWG) format. This allows geotechnical engineers or engineering geologists to directly publish their 3D interpretations into industry standard and open BIM projects, so all disciplines and stakeholders can see the 3D ground model and how it will interact with the 3D design. IFC exports can also take advantage of borehole database exports and user defined attributes export, for richer communication into BIM projects.

14. **Can I easily create cross sections?**
Yes. Leapfrog Works supports cross section creation and layouts which can be exported for use in reports or as inputs for other software packages. Regular sections and long (fence) sections can be simply generated from alignments, and multiple layouts managed easily using a master layout, to provide conventional project documentation.

15. **Can I model groundwater domains?**
Yes. Importing your screens and other downhole water quality data to create static models of plumes and boundaries. With the optional Hydrogeology Solution Kit transmissivity and storativity values can be associated with ground units and gridded for export to flow model simulations and the results of the simulation bought back into leapfrog Works for visualisation.

16. **How can I visualise my model?**
In Leapfrog Works, everything revolves around the 3D scene. Simply drag all or any of your data and designs into the current scene window to immediately view and intuitively slice, pan, rotate the model and adjust colour and transparency to tell the story of the subsurface conditions. 3D scenes can be saved for sharing with stakeholders without them needing to access Leapfrog Works.

17. **How can I collaborate with others around the Geological model?**
There are many options in the Leapfrog portfolio for sharing and collaboration that make it easy to communicate your understanding and insights in different scenarios. View is a web based application that lets you share interactive 3D views accessible
anywhere in the world through the web. Leapfrog Works allows you to upload Leapfrog model views directly from the 3D scene. View is ideal when you need to reach a wide audience during public consultation or for quickly sharing key project views with a client or partner company. For more information on View visit www.lfview.com

**Leapfrog Viewer** provides a detailed view of models and offers the full visualisation capabilities experienced in Leapfrog Works through an additional desktop application. Its free to download and use, and provides you with a read-only version of your model to take to meetings, to share with other technical teams or to provide a client with a complete version of the model as a key project deliverable. For more information on Leapfrog Viewer visit http://www.leapfrog3d.com/products/leapfrog-viewer.

Leapfrog Works includes tools for easily making fly through movies and rendering high quality images and section layouts for inclusion in reports and presentations.

**18. What is the best way to manage my models?**

Leapfrog Works is integrated with Central for a complete model management solution. Central's database connections enable continuous modelling over the life of the project as new data investigations and as-built surveys augment the original model, and engineering designs are revised from conceptual models through to as-builts. Leapfrog Central provides Leapfrog Works users with revision and review management as well as an audit trail across geographically or functionally diverse groups. For more information on Central visit http://www.leapfrog3d.com/products/leapfrog-central.

**19. What additional Solution Kits are available for Leapfrog Works?**

Leapfrog Works is available with an optional Hydrogeology Solution Kit for interoperability with FEFLOW and ModFLOW flow modelling software. Hydrogeology can be turned on at run time if your organisation’s Account Manager has authorised it. For more information on the Hydrogeology Solution Kit visit http://www.leapfrog3d.com/products/leapfrog-works/hydrogeology-solution-kit.

**20. Where can I learn about best practise for modelling with Leapfrog Works?**

There are numerous online resources to help you get started delivering useful models, quicker.

Explore My Leapfrog (https://myleapfrog3d.com) to find:

- Getting Started and Fundamentals training modules for a comprehensive grounding in Leapfrog Works modelling principles
- Implicit modelling modules for an overview on how implicit modelling benefits your projects
- Case studies that provide insights to how others are already using Leapfrog Works in the industry
- Industry news and insights in the new Unearthed Report as well as tips and tricks for Leapfrog users.

You can also browse the Leapfrog Youtube channel for ‘how to’ videos and guides.

**21. If we are using Leapfrog Geo or Hydro, are my projects compatible on Leapfrog Works and vice versa?**

Existing projects that have been developed in Leapfrog Geo or Leapfrog Hydro can be converted to Leapfrog Works projects simply by opening them in Leapfrog Works and following the wizard. If you want the option to continue using the project in the original software you will need make a backup copy when prompted during the conversion process.

Once it’s converted it is not possible to open a Works project in another Leapfrog product.
**22. Can I record my software use against a particular client, job or department code?**

Yes. A reference code can be entered by the user into Leapfrog Works and changed at any time as the user changes the job they are working on. All reference codes entered on a given user day will be shown in usage reporting and can be used to gain insights into software usage or to on-charge software licenses to a client if required. Helpful settings let you prompt for codes and even require that a code be entered, as well as build code picklists in line with your company policy.

**LICENSING**

**23. How is Leapfrog Works licensed?**

Leapfrog Works is integrated with My Leapfrog to provide access to software licences via your unique login. Once set up, to use Leapfrog Works you simply run the software, signing in using your My Leapfrog credentials and select which of the available products you want to use in the current session. The products available to you are controlled by your organisation’s License Administrator.

**24. What different Leapfrog Works products are available?**

Leapfrog Works provides full Geological and Numerical 3D modelling and the inputs and outputs to support it. A Hydrogeology Solution Kit is available as an add-on to Leapfrog Works for interoperability with FEFLOW and ModFLOW flow modelling software.

**25. How does the My Leapfrog licensing work?**

When you sign in with your My Leapfrog credentials Leapfrog Works will connect to a cloud-based license server to verify you, and the products you have access to. There is no hardware dongle required, so deployment is quick and flexible.

**26. Do I need to be connected to the internet to use Leapfrog Works?**

You do need an internet connection to successfully sign in when you initially run the software. After that it is possible to disconnect from the internet and still use Leapfrog Works for up to 24 hours. After 24 hours have elapsed you will need to connect to the internet to continue using the software.

**27. Will Leapfrog Works operate within my company firewall?**

Some firewall configurations can prevent the Leapfrog Works software from communicating effectively with the licensing server and require minor configuration to allow Leapfrog Works licensing to operate.

Leapfrog works can be easily configured for operation with proxy servers using a range of authentication methods. It is recommended that Network Administrators run the Leapfrog Start utility, or take a trial of Leapfrog Works to confirm that all Leapfrog web services supporting seamless operation of Leapfrog Works can be accessed from within your organisations network. For more information on Leapfrog Start see Info for IT Admins.

**28. How can I get set up with the entitlements to run Leapfrog Works?**

If you have authority to purchase software in your organisation simply contact us at support.civil@leapfrog3d.com to sign up for Leapfrog Works. Organisations signed up to use Leapfrog Works provide Seequent with a list of users they authorise to run Leapfrog Works. To be added to the user list within your organisation please contact your organisation’s Leapfrog Works Licence Administrator. If you don’t know your organisation’s Leapfrog license administrator contact support.civil@leapfrog3d.com for
assistance.

29. **How is Leapfrog Works usage charged?**

Our licensing options are flexible and scalable to fit you and your organisation’s needs. Choose from User-Days or Annual Subscription.  

With **User-Days**, there is no limit on the number of users that can access the software at once. A User-Day lasts for 24 hours, beginning when the user runs Leapfrog Works continuously for more than 10 minutes. Usage is billed in arrears at the end of each month. Additionally, each user that has not previously trialled the software is entitled to 5 days free when they join in order to make the most of online learning modules.  

With an **Annual Subscription** a dedicated user has unlimited use of the software over 12 months. The subscription offers the security of predictable costs while allowing unrestricted usage, ideal for a Leapfrog Works super user.  

To combine Leapfrog Works with Central for auditable model management please contact us at support.civil@leapfrog3d.com to discuss enterprise options.

30. **As a License administrator how do I add and remove users?**

If your organisation is on a User Days agreement, users can be added at any time by a Leapfrog Works Licence Administrator. Simply send updates of authorised users to support.civil@leapfrog3d.com. We can only accept additions or deletions from the named Leapfrog Works Licence Administrator(s).  

If you wish to add users on an annual subscription basis, please contact support.civil@leapfrog3d.com to purchase additional subscriptions.

31. **How do I check my usage or that of my organisation?**

Visit the licensing section of My Leapfrog to view your software usage. Licence Administrators can view usage for all users within their organisation. If you are not a Licence Administrator, you will only be able to view your own usage.

**MY LEAPFROG**

32. **What is My Leapfrog?**

My Leapfrog is the user portal where you can easily access all your Leapfrog information in one place.  

The Leapfrog Works product page provides users with access to download Leapfrog Works, view product documentation, search the knowledgebase, view e-learning content, post comments or feedback in the Leapfrog Works forum and submit a support request if needed.  

Licensing provides an online view of your software usage.

33. **How do I access My Leapfrog?**

You can access My Leapfrog (https://my.leapfrog3d.com) at any time when you’re online or by selecting My Leapfrog from the main menu, or My profile from the user menu the Leapfrog Works software.

34. **Where can I find product help?**

Product Help is available by using the Help command [F1] from within Leapfrog Works. In My Leapfrog the help is also available from the Leapfrog Works home page.
35. **What other e-learning resources are available in My Leapfrog?**

Leapfrog Works comes with a demonstration project with handy links to explain the modelling process and connect you with further help and training options. Use the demo project or navigate directly to the full range of online tutorials for Leapfrog Works and short and simple how-to videos for specific Leapfrog Works features which can be accessed from the top navigation bar or the Works product page.

36. **What do I do if I need support using Leapfrog Works?**

Follow these 3 simple steps to get support for Leapfrog Works

1. Check the available resources in your My Leapfrog Works home page to see if your question is already answered.

2. Post a question in the Leapfrog Works Forum and the members of the user community or the Leapfrog Works team will get back to you as soon as possible with ideas and next steps.

3. Contact support on support.civil@leapfrog3d.com or raise a support request from within My Leapfrog.
Experience Leapfrog Works

Download the latest version here
Contact us at support.civil@leapfrog3d.com

Seequent is a global leader in the development of visual data science software and collaborative technologies.

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