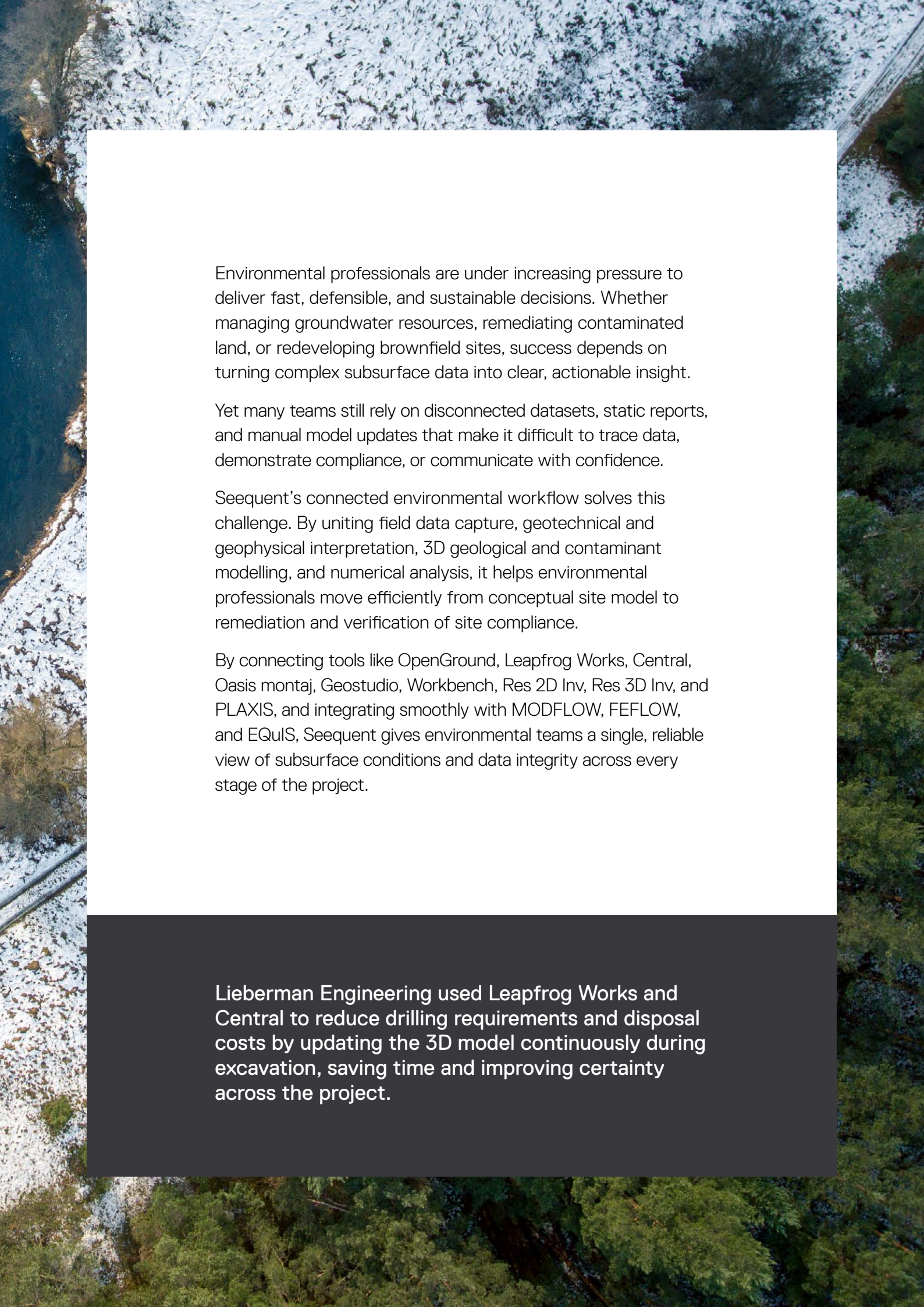
SEEQUENT

SOLUTION BRIEF

UNITE ENVIRONMENTAL DATA, MODELLING, AND ANALYSIS IN ONE CONNECTED WORKFLOW

Seequent, The Bentley Subsurface Company



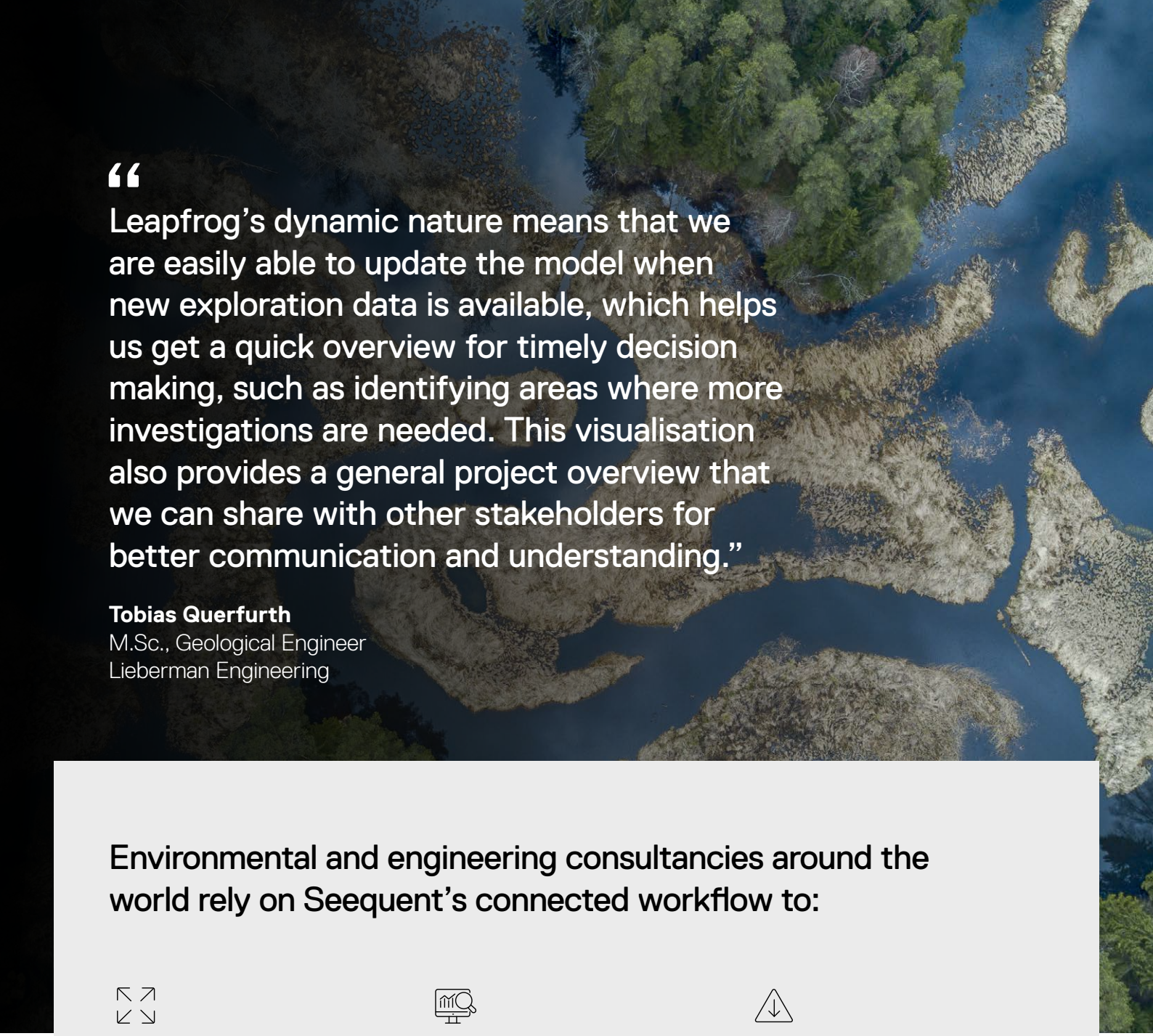
Environmental professionals are under increasing pressure to deliver fast, defensible, and sustainable decisions. Whether managing groundwater resources, remediating contaminated land, or redeveloping brownfield sites, success depends on turning complex subsurface data into clear, actionable insight.

Yet many teams still rely on disconnected datasets, static reports, and manual model updates that make it difficult to trace data, demonstrate compliance, or communicate with confidence.

Seequent's connected environmental workflow solves this challenge. By uniting field data capture, geotechnical and geophysical interpretation, 3D geological and contaminant modelling, and numerical analysis, it helps environmental professionals move efficiently from conceptual site model to remediation and verification of site compliance.

By connecting tools like OpenGround, Leapfrog Works, Central, Oasis montaj, Geostudio, Workbench, Res 2D Inv, Res 3D Inv, and PLAXIS, and integrating smoothly with MODFLOW, FEFLOW, and EQuIS, Seequent gives environmental teams a single, reliable view of subsurface conditions and data integrity across every stage of the project.

Lieberman Engineering used Leapfrog Works and Central to reduce drilling requirements and disposal costs by updating the 3D model continuously during excavation, saving time and improving certainty across the project.



“Leapfrog’s dynamic nature means that we are easily able to update the model when new exploration data is available, which helps us get a quick overview for timely decision making, such as identifying areas where more investigations are needed. This visualisation also provides a general project overview that we can share with other stakeholders for better communication and understanding.”

Tobias Querfurth
M.Sc., Geological Engineer
Lieberman Engineering

Environmental and engineering consultancies around the world rely on Seequent’s connected workflow to:

- Maximise the value of environmental data
- Increase efficiency from field data capture to model delivery
- Reduce errors and risk with transparent, connected data and version-controlled workflows
- Engage stakeholders through 3D visualisation that simplifies complex subsurface storytelling or collaboration
- Support sustainable outcomes by improving understanding of contamination, groundwater flow, and remediation performance
- Bridge the skills gap with intuitive, easy-to-learn tools that democratise modelling and analysis

Successful environmental projects are powered by Seequent

From groundwater management to contaminant migration, every decision depends on confidence in your conceptual site model. Seequent's connected approach brings all the disciplines together to deliver that confidence.

Maximise the value of environmental data

Many environmental datasets remain underused. Seequent helps organisations connect every dataset, from boreholes and lab results to geophysical surveys, into a single, integrated understanding of the subsurface. By bringing together geotechnical, geophysical, and hydrogeological information, teams can identify patterns and relationships that would otherwise remain hidden, improving both model accuracy and decision quality.

Increase efficiency from field data capture to model delivery

Environmental consultancies face unprecedented pressure to deliver more with less, and do it faster. Seequent software streamlines data handling, interpretation, and communication. Integrated tools, from OpenGround for field and lab data to Leapfrog Works for 3D modelling and Central for collaboration, allow data to flow seamlessly without repeated reformatting or file conversions, saving time and accelerating project turnaround.

Reduce errors and risk with transparent, connected data and version-controlled workflows

Seequent's connected workflow ensures that data is never lost. Every dataset, interpretation, and model version is stored, tracked, and shareable, delivering full transparency and defensible decision-making. Transparent, version-controlled data ensures every interpretation is traceable, supporting due diligence, regulatory compliance, and clear audit trails for both regulators and clients. This digital best-practice approach supports consistency across project teams and helps organisations prove their work with confidence, whether for internal QA/QC or external regulatory review.

Engage stakeholders through 3D visualisation that simplifies complex subsurface storytelling or collaboration

Complex contamination and hydrogeological problems are difficult to explain in 2D cross-sections or spreadsheets. Leapfrog Works transforms environmental data into dynamic 3D visualisations that regulators, developers, investors, and community stakeholders can intuitively understand, improving trust, transparency, and collaboration throughout a project's lifecycle. These interactive models also help teams demonstrate technical expertise, communicate risk clearly, and visualise complex environments to build confidence with clients, regulators, and the public.

Bridge the skills gap with intuitive, easy-to-learn tools that democratise modelling and analysis.

As experienced professionals retire, the next generation must master advanced modelling with limited time. Leapfrog Works' intuitive interface makes it easy to learn and remember, helping organisations upskill teams quickly and maintain productivity despite workforce transitions. Central's cloud-based environment further supports resource flexibility, enabling remote collaboration and ensuring everyone works from the same version-controlled model.

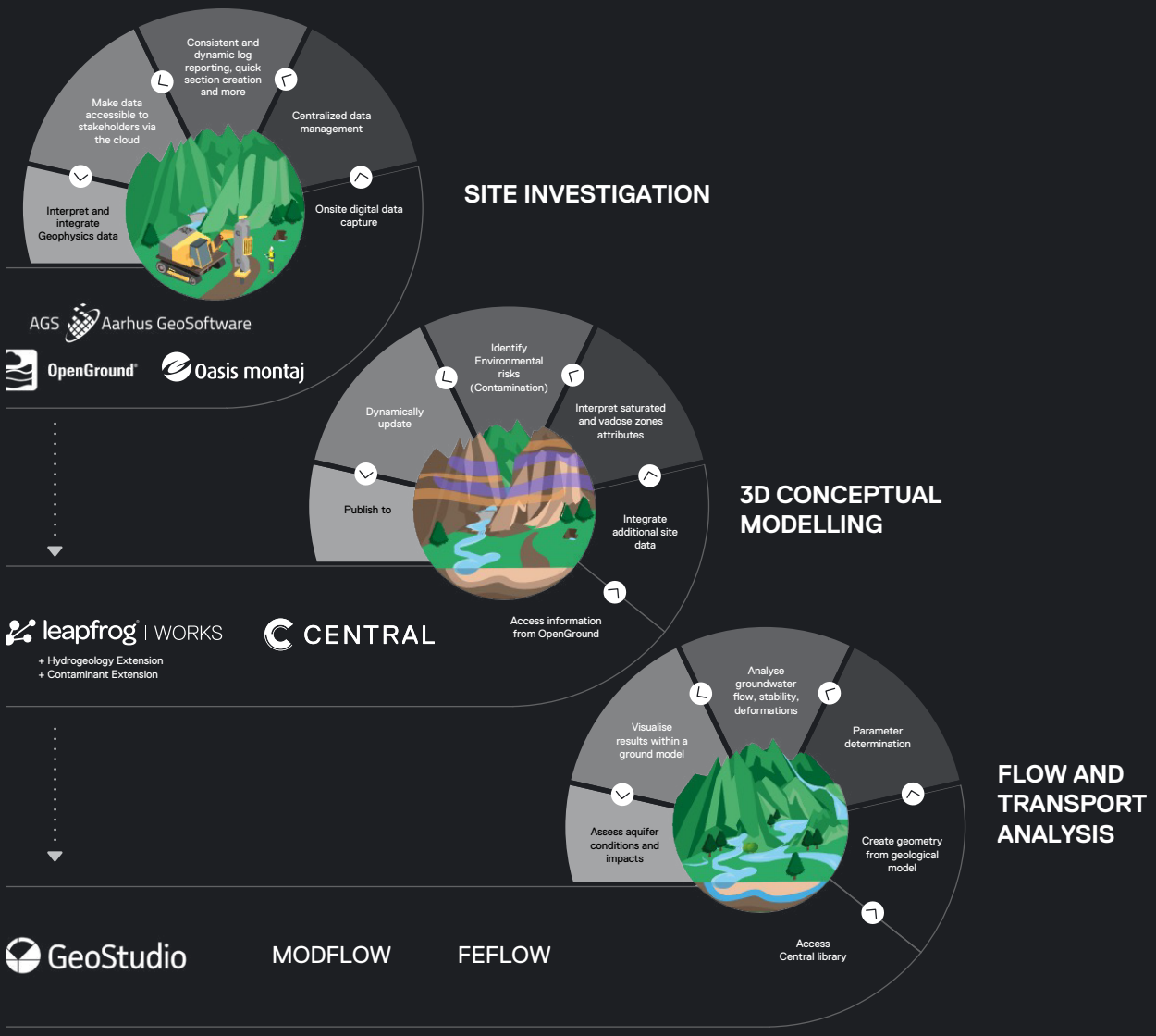
Support sustainable outcomes by improving understanding of contamination, groundwater flow, and remediation performance

Whether assessing PFAS, hydrocarbons, or heavy metals, Seequent tools help visualise complex plume behaviour and remediation progress, providing a clear picture of how contaminants move and respond to treatment over time. Continuous model updates allow teams to track contaminant plume reduction, evaluate remedial options, and demonstrate measurable environmental improvement to regulators and communities.

Geo-environmental connected product workflow

Familiar tools, unified for better outcomes

Seequent's connected environmental workflow integrates the tools most commonly used across the contaminated land, groundwater, and brownfield redevelopment lifecycle.



OpenGround

A secure, cloud-based platform for managing geotechnical and environmental data, enabling consistent digital logging, laboratory integration, and AGS-compliant reporting.

Oasis montaj

A comprehensive environment for processing and visualising geophysical and remote sensing data, gravity, magnetic, electromagnetic (EM), hyperspectral, and Induced Polarisation (IP) resistivity surveys, providing valuable context between sampling points and supporting both groundwater and contamination assessments.

Workbench

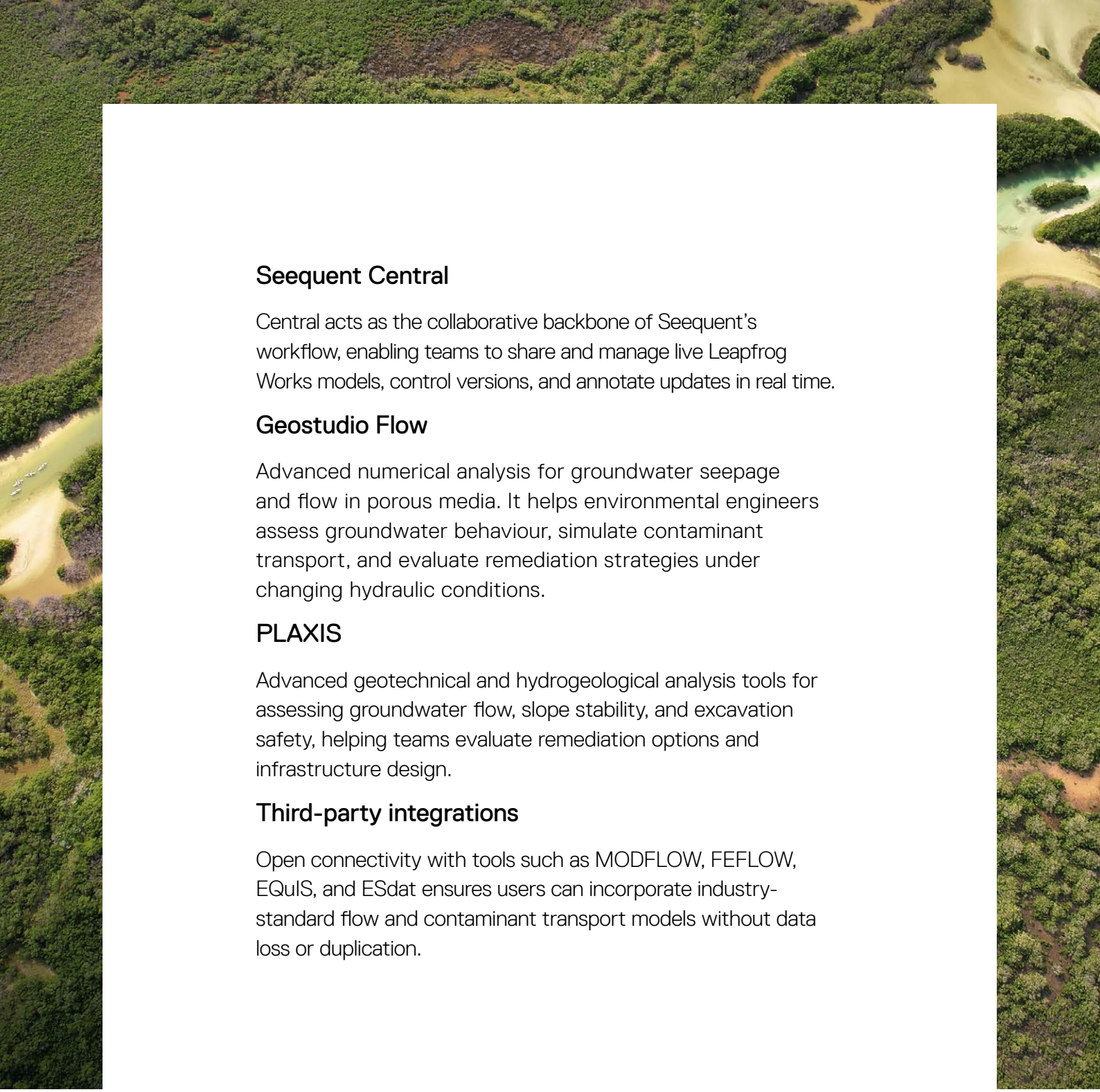
Workbench is a powerful solution for processing, inverting, and visualising electromagnetic and resistivity data using purpose-built extensions. It streamlines data exchange and validation, ensuring data integrity and consistency across field teams, consultants, and regulators.

Res2DInv/Res3DInv

Fast, reliable resistivity and induced polarisation inversion for near-surface investigations and contamination mapping, fully compatible with Oasis montaj and Leapfrog Works.

Leapfrog Works

The core of the connected workflow. Leapfrog Works enables geologists, hydrogeologists, and environmental engineers to visualise borehole and chemistry data, interpret hydrostratigraphic surfaces, and model 3D contaminant plumes. Dynamic updates keep conceptual site models current as new data arrives.



Seequent Central

Central acts as the collaborative backbone of Seequent's workflow, enabling teams to share and manage live Leapfrog Works models, control versions, and annotate updates in real time.

Geostudio Flow

Advanced numerical analysis for groundwater seepage and flow in porous media. It helps environmental engineers assess groundwater behaviour, simulate contaminant transport, and evaluate remediation strategies under changing hydraulic conditions.

PLAXIS

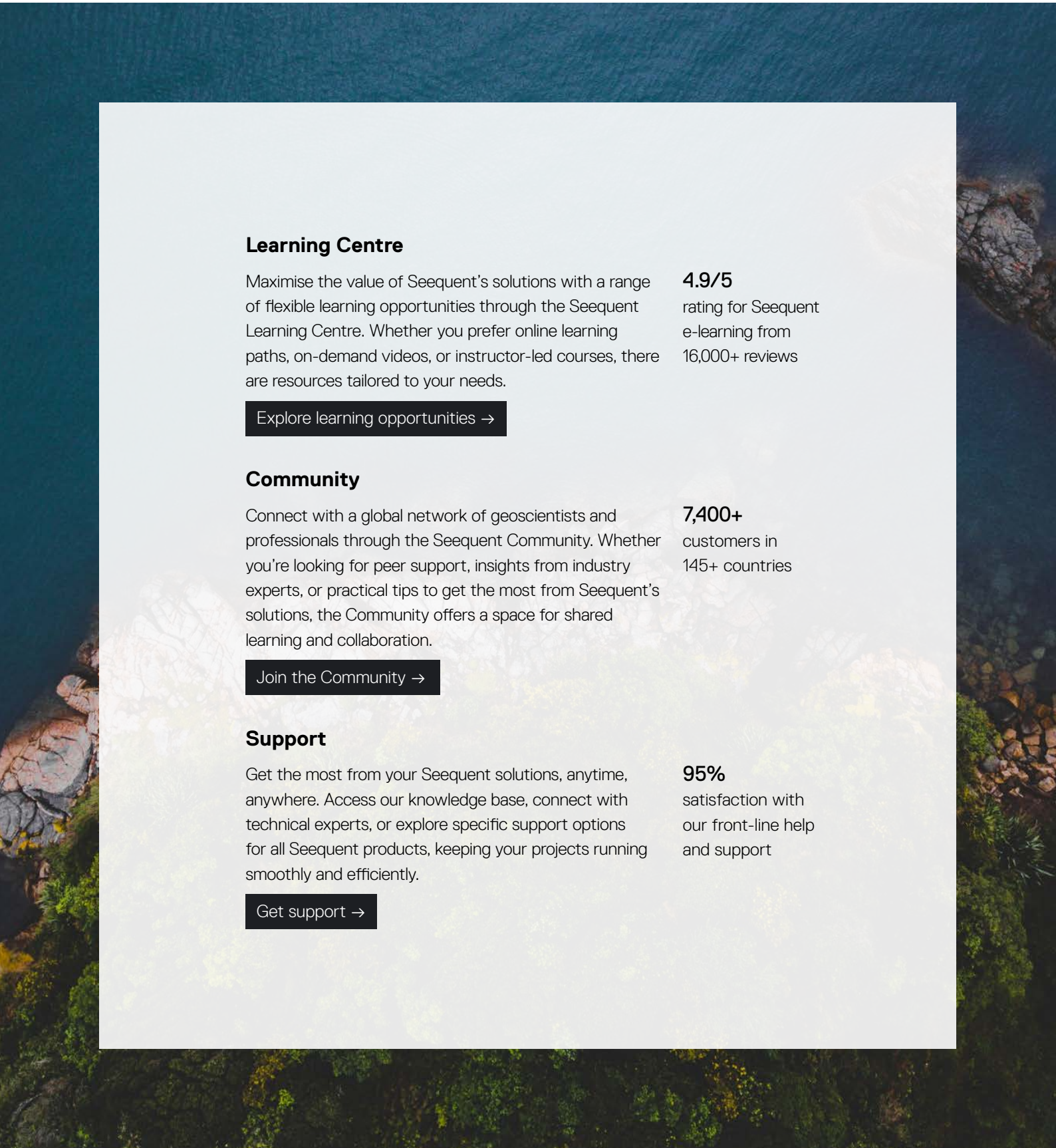
Advanced geotechnical and hydrogeological analysis tools for assessing groundwater flow, slope stability, and excavation safety, helping teams evaluate remediation options and infrastructure design.

Third-party integrations

Open connectivity with tools such as MODFLOW, FEFLOW, EQuIS, and ESdat ensures users can incorporate industry-standard flow and contaminant transport models without data loss or duplication.

A world of support at your fingertips

Beyond the powerful features of a connected environmental workflow, Seequent offers comprehensive support and learning resources to help you get the most out of your investment.



Learning Centre

Maximise the value of Seequent's solutions with a range of flexible learning opportunities through the Seequent Learning Centre. Whether you prefer online learning paths, on-demand videos, or instructor-led courses, there are resources tailored to your needs.

Explore learning opportunities →

4.9/5
rating for Seequent e-learning from 16,000+ reviews

Community

Connect with a global network of geoscientists and professionals through the Seequent Community. Whether you're looking for peer support, insights from industry experts, or practical tips to get the most from Seequent's solutions, the Community offers a space for shared learning and collaboration.

Join the Community →

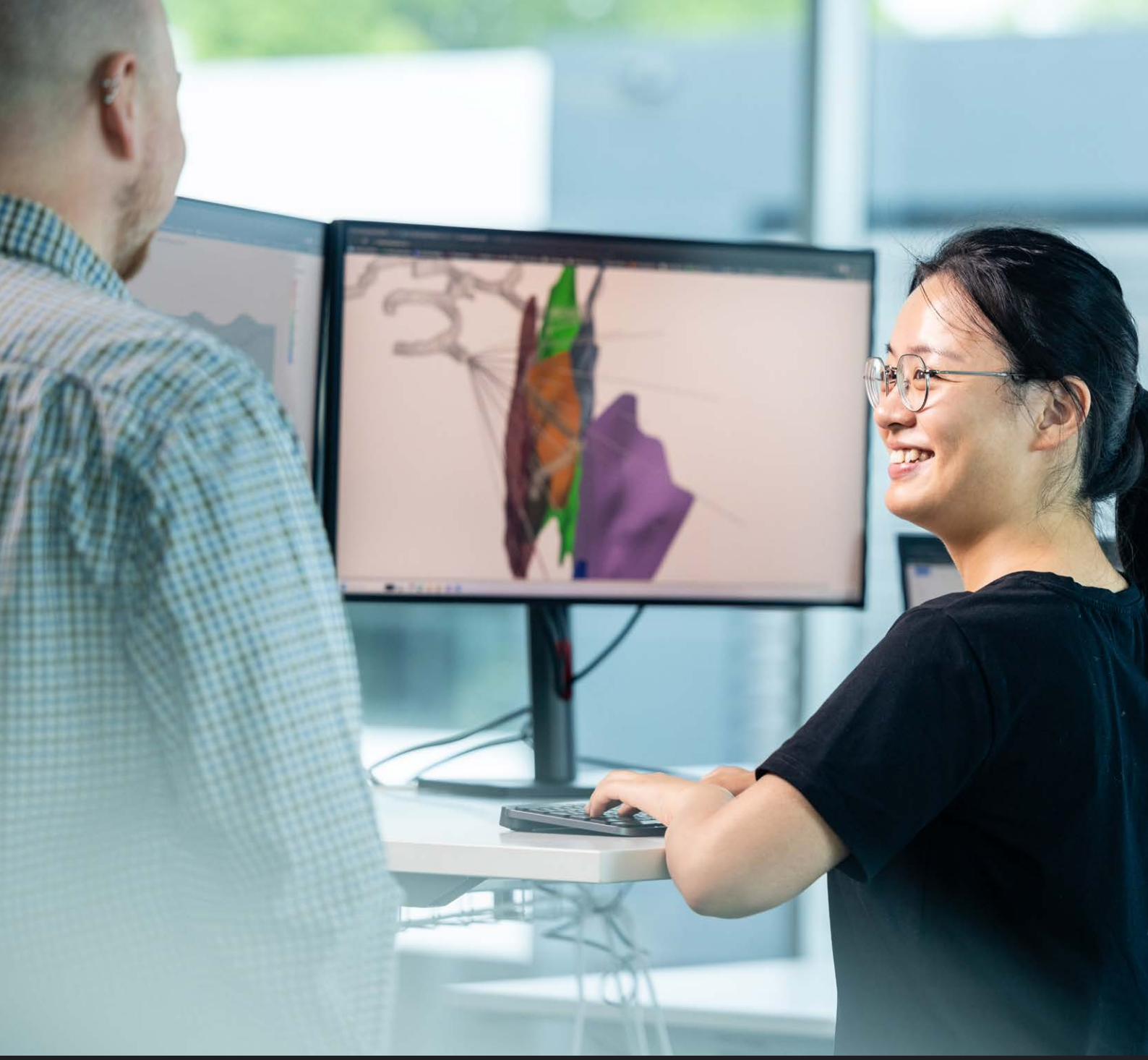
7,400+
customers in 145+ countries

Support

Get the most from your Seequent solutions, anytime, anywhere. Access our knowledge base, connect with technical experts, or explore specific support options for all Seequent products, keeping your projects running smoothly and efficiently.

Get support →

95%
satisfaction with our front-line help and support



Discover the power of Seequent's connected workflow

Visit www.seequent.com to explore product videos, customer success stories, or request a live demo.


SEEQUENT
Understand the underground to build a better world.
Seequent is evolving the way organisations work through better subsurface understanding.
As the world leader in subsurface earth-modelling, analysis and data management, and collaboration software, Seequent is at the forefront of building a collective understanding of the Earth.
We hire amazing people who collaborate with our customers to find technology solutions to their challenges that deliver more positive outcomes for a better world.
As The Bentley Subsurface Company, Seequent connects our natural environment with the built world so organisations can manage the impact of their projects at every stage.
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