OpenGround®

Regaining control efficiency and confidence in your geotechnical workflows

OpenGround is a secure enterprise geotechnical data management and reporting solution enabling connected digital workflows throughout every stage of the ground investigation lifecycle, designed for site investigation (SI) contractors, engineering consultants, Departments of Transportation (DoTs), and federal agencies.

IMPROVE DATA QUALITY AND REPORT CONSISTENCY

Deploy fully customizable configuration packs and report templates to meet corporate, client, and project requirements. Enable standardization to save time and provide repeatable workflows across applications, projects, and teams of all sizes.

RETAIN AND SHARE PROJECT KNOWLEDGE

Maintain an accessible, spatially aware single source of truth for all your current and historic geotechnical project data to more efficiently understand ground conditions, assess financial implications, and determine risks.

ENABLE GREATER COLLABORATION

Control access to federated data across distributed teams and the wider supply chain. Improve efficiency among all contributors who utilize ground investigation data for timely data-informed decisions.

REDUCE DATA ENTRY COSTS

Deploy configurable data entry profiles across mobile and desktop devices to optimize data collection, validate data at the source, and synchronize across field teams while on site.

MAXIMISE DATA REUSE

Leverage connected digital workflows to seamlessly integrate geotechnical data into design, modeling, analysis, and reporting environments, as well as synchronize data updates across applications when changes occur.

INCREASE DATA ACCESS

Deploy a fully managed and scalable platform with cloud connectivity to meet security and compliance requirements with active monitoring, automated backups, and robust disaster recovery.

EXTEND EXISTING PLATFORM CAPABILITIES

Utilize the extensive and fully supported web API to integrate with internal systems and third-party applications to drive efficiency, innovation, and future-proof your ground investigation data.
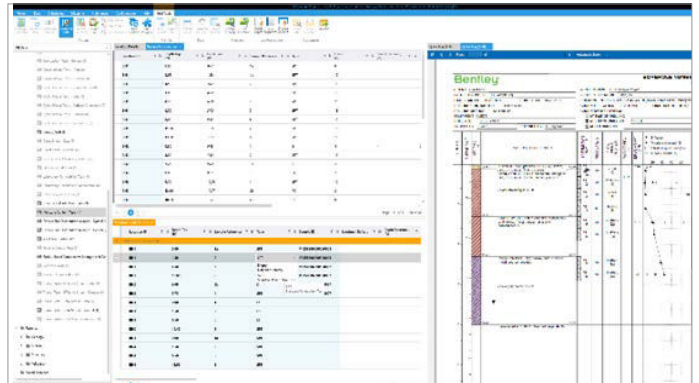
Standardized configurable and repeatable data entry and reporting across projects
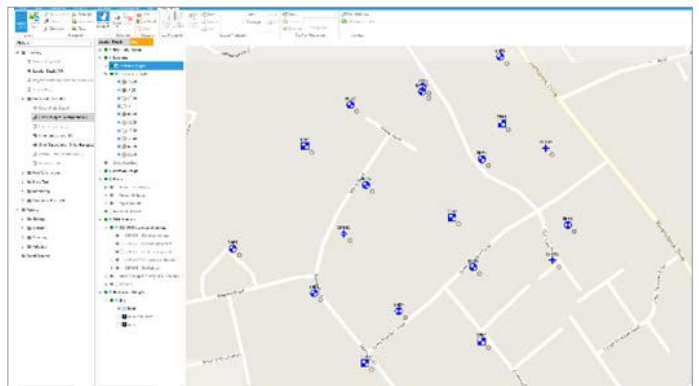
Spatially aware single source of truth for all your current and historic geotechnical project data

SYSTEM REQUIREMENTS

MINIMUM: Desktop: Windows 10 64-bit; 8 GB of RAM; 5 GB of available hard drive space; 1920 x 1080 display; current version of Edge, Chrome, or Firefox. Mobile: 64-bit CPU; Android v.7 and up; 2 GB RAM; 1 GB Disk space; 7" screen size.

OpenGround At-a-glance

GENERAL

DATA MANAGEMENT

- Secure centralized database management system with data recovery and disaster management
- Multi-project environment
- Extendable core data model
- Data mining (filter/order/group/saved searches)
- Zone projects with location groups
- Pick list and abbreviations management
- Scalable Cloud Calculation Engine for advanced calculated fields
- Integrated document management

ACCESS MANAGEMENT

- Configurable role-based user permissions
- Flexible team-based groups and roles

INTEGRATED GIS

- Microsoft Bing mapping
- Support for DXF, SHP import
- Dot plot overlays and site plan generation
- Link to online datasets using WMS
- Position locations for drilling teams

OPENGROUND APPLICATIONS

- Install and update new apps with a single click
- Receive notifications for app updates
- Information about service updates
- Manage app rollout across your organization
- No IT access required for app updates
- Single sign-on support

ADAPTABLE DATA INPUT

DATA ENTRY

- Web and desktop-based data entry interface designed for efficient data entry
- Support for unit conversion to enter data in various units of measurement
- Integrated validation and custom spell-checking
- Customizable soil description builder
- Replicate location data
- Support for calculated fields and default values
- Customizable grid-based workflows

FIELD DATA COLLECTOR

- Multiuser application
  - Enables multiple field crews to work in parallel on the same project
  - Field crews can reference other boreholes from the app to better understand site conditions while work is underway
- Data Collection
  - Enter data once, in the field
  - Works with or without an internet connection
  - Near real-time data sync between field and office when an internet connection is available
  - Collect consistent, complete, higher-quality data with standard data entry profiles
- Use tablet GPS to record borehole coordinates
- Easily capture photos directly to enhance documentation and context
- Preview log from the field to ensure data has been collected
- Generate and print sample labels from the app to ensure accurate identification and traceability
- Customizable
  - Create re-usable data collection profiles in minutes
  - Configuration options for data entry profiles, steps, forms and grids, default values, calculated fields, expressions, data validation, and conditional logic

DATA IMPORT

- Web portal for secure multistage data import process with validation
- Data Collaboration Portal (for supply chain data upload)
- Batch import gINT project files (.gpj)
- Import data in CSV, AGS, gINT®, and pLog Tablet
- DIGGS import via third party application

VERSATILE REPORTING OPTIONS

REPORT PRODUCTION

- Fast graphical log preview and PDF printing
- Logs, sections, site plans, summary sheets, engineering summary charts, and tables
- Lab test results reporting
- Flexible reporting options to allow for customisation at runtime
- Default localized report templates
- Dynamic querying, analysis, and automated reporting with Excel extension

CUSTOMIZABLE REPORTING TEMPLATES

- Borehole logs, project sheets, site plans, and sections
- Combined logs showing multiple drilling types
- Dynamic logs for flexible user configurable report templates
- Engineering summary charts, tables, and lab summary eeports
- Customizable report template design interface
- 35+ pre-made drag-and-drop object types
- 100 pre-made expressions
- Save and reuse templates at configuration pack, project, or local level

INTEGRATIONS

- In-house or partner applications via REST API
- Design analysis with dynamic integration in Bentley Open™ (Roads, Rail, Tunnel, Site, Bridge) Designer products and AutoCAD Civil3D
- Modelling and visualisation with dynamic integration in Leapfrog® Works
- Engineering analysis into GeoStudio® and PLAXIS® via Seequent® Central
- Enterprise reporting in PowerBI using the OpenGround PowerBI Connector

PLATFORM DEVELOPMENT

- Extensive (REST) web API access for custom and 3rd party integrations
- Produce output in any application
- Link data into any application
- Import data from any application
- Free Bentley Developer Network membership for internal app development
- Application development support

Bentley
Advancing Infrastructure

FIND OUT MORE AT BENTLEY.COM

1.800.BENTLEY (1.800.236.8539) | Outside the US +1.610.458.5000 | **GLOBAL OFFICE LISTINGS** bentley.com/contact