

# Natural Resources

Effectively manage natural resources with  
comprehensive insight via powerful geoscience  
industry solutions and expertise

# Exploring New Frontiers

Pitney Bowes Business Insight brings together award-winning location intelligence software, specialist geospatial data and service solutions and renowned data integration capabilities to profoundly change the way businesses manage and evaluate their geospatial and technical data. Our expertise in the geoscience industry delivered by our natural resources group provides award-winning Encom Software solutions to help with every aspect of the natural resource industry. With our powerful visualisation and interpretation environments, we help you to effectively manage resources, analyse your data, reduce risk, maximise your successes and deliver a superior return on your technology investments.

The breadth and depth of our expanded offering significantly increases the value we can provide to our customers, in a way that has not been seen before in the natural resources sector.

## Maximise the Value of Your Data

A lot of time and money is spent collecting data that is critical to your business success. Pitney Bowes Business Insight helps natural resources organisations maximise the value of their data by offering solutions that effectively manage, share, integrate and analyse their technical data. We do this by providing our customers with leading-edge geospatial software, data solutions and services that extend far beyond the isolated data islands in the technical computing world. We bridge the gaps between these specialised, technical data sources and the larger world of business computing.



### GIS Solutions

The natural resources industry relies on technical data to locate, define, assess and exploit important assets. By integrating all of your technical and business data, you are able to perform a much wider range of analytical processes such as analysing the complex transport and processing logistics between raw materials and market demographics.

To fully maximise the value of your technical data, our GIS solutions and data can be integrated with your other core enterprise systems through spatially-enabled information management systems and software development kits. These integration tools break down the barriers between specialised spatial data systems and your traditional business data systems.

#### Key Offerings

**MapInfo Professional**® is a powerful desktop location intelligence application.

**Encom Discover** extends MapInfo Professional with geospatial capabilities designed specifically for the natural resources industry.

**Encom Discover 3D** turns your two-dimensional GIS into a full 3D visualisation and modelling system.

**Encom Discover Mobile** is a GPS-enabled in-field data capture, sample logging, mapping and navigation solution.

**SpatialWare**® allows spatial data to be stored in a relational database management system (RDBMS) along with all your non-spatial data.

**MapXtreme**® and **MapXtreme Java** are software development kits (SDK) for integrating spatial data and location intelligence with existing server-based, Web-based, desktop and mobile business systems.

**AnySite**® lets you perform site analysis from critical demographics using powerful predictive analytics and modelling functions.

### Geophysical Solutions

The detection and assessment of geological anomalies and natural or un-natural subsurface hazards are vital to the prosperity of the industry and the safety of the people who work in it.

Pitney Bowes Business Insight is working with scientists, mathematicians and engineers who are at the forefront of research into geophysical phenomena in order to provide the most innovative geophysical solutions to assist geoscientists in every sector of the natural resources industry enabling you to collect, process and better understand the complex relationships between physical anomalies and the geophysical fields they create. We have the tools you need to handle airborne and field-based seismic, magnetic, gravity and electromagnetic surveys used in mineral exploration, mining operations, petroleum and natural gas, environmental engineering and the construction industry.



## Key Offerings

**Encom PA** lets you step outside the box of conventional processing and extend the power of existing software investments through collaboration in a single, multi-dimensional, decision making environment.

**ModelVision Pro** is a powerful, general-purpose 3D modelling and interpretation tool, suitable for any 3D potential field problem.

**Encom QuickMag** allows you to construct realistic geological models of magnetic anomalies and finish survey interpretations in hours rather than days.

**EM Flow** has revolutionised the speed at which airborne EM data can be processed to produce a conductivity image of the subsurface.

## Data Solutions

When data is spread across the country or around the world, it can be difficult to locate and extract the data you need, when you need it. We provide our customers with the tools they need to efficiently manage and protect their physical and electronic data. Over 80 percent of data stored and maintained by organisations has a spatial component, and over 90 percent of that data is stored in proprietary formats. Our data solutions are not only spatially-enabled, they also provide instantaneous, graphical, worldwide access to authorised personnel regardless of the location, origin and format of the data.

We also recognise that when data is isolated from other potentially related data sources, its true value is diminished.

Our integration tools, such as Data Flow, SpatialWare, MapXtreme and Envinsa will ensure that you can extract the full value from your technical data. For example, use Data Flow to automate the extraction and storage of sample data from multiple laboratories and merge with your other borehole data in a relational SpatialWare database, which is in turn located and extracted through a corporate Compass Enterprise catalogue for analysis, mapping and evaluation with Discover.

## Key Offerings

**Compass Enterprise** delivers an enterprise-wide data discovery and data management system with a powerful spatial searching capability.

**SpatialWare** allows spatial data to be stored in a relational database management system (RDBMS) along with all your non-spatial data.

**GPinfo** is a data subscription service that provides current petroleum exploration information for Australia, New Zealand and Papua New Guinea.

**Encom PA** assists geoscientists to quickly integrate data from multiple disciplines and collaborate with other team members.

**Data Flow™** is a general-purpose, pipelined data processing engine that uses transformation objects to implement data integration, data analysis and information delivery services.

**MapXtreme** and **MapXtreme Java** are software development kits (SDK) for integrating spatial data and location intelligence with existing server-based, Web-based, desktop and mobile business systems.

**Envinsa®** is an enterprise development platform for integrating location intelligence into existing server, Web and wireless business applications.

*“With Compass, we offer our global users a central information portal, through which they can access data such as plans, images, documents, photos and maps in a quick and intuitive way.”*

Shaun Centa,  
Geoscientific Systems & Data Specialist,  
**Rio Tinto Exploration**

## Service Solutions

We help organisations to maximise the value of their technical data by providing expertise to assist with time-critical and business-critical tasks. The services offered by the geoscience consulting services (GCS) group include supplying both off-site data processing and mapping services and on-site personnel and expertise. Pitney Bowes Business Insight is frequently called on to provide independent reviews of sampling programmes to identify and remove assay bias and to assess compliance of ore reserve statements with industry (JORC) standards. Our geologists and geophysicists are helping project teams around the world, in the field and in the office to collect, process, integrate, interpret and analyse all forms of

exploration data. We deliver unique benefits through the close integration of our geophysical and geological expertise and the leverage of our extensive software resources.

GCS provides personnel and consulting services to mineral and petroleum exploration companies for:

- Exploration field services and interpretation
- Geophysical survey, quality control and processing
- Specialist reports for prospectus
- Exploration project management and planning
- Data acquisition, management and analysis
- Mapping and plotting services

## Exploration and Mining

Pitney Bowes Business Insight products and services encompass the needs of exploration geologists, geophysicists, engineers and environmental scientists working in the field, laboratory, mine and an office. Our software is multi-disciplinary and is designed to work with your special-purpose design, modelling, analysis and planning systems. We also supply enterprise-wide system integration solutions that understand and exploit the geospatial nature of your data, making it easier for you to find, share and analyse your technical data, no matter where it is located or in what format it is stored. By making data accessible to personnel across your entire organisation, your project teams are better able to visualise, communicate and collaborate. Pitney Bowes



Business Insight has the technology, resources and skills to make a profound difference to the way you work and help you to extract the true value from all of your business-critical data.

## Energy

We are transforming the way energy companies collect, process, analyse, interpret and manage their assets. Our solutions include tenement management, exploration data management, data interpretation and potential field modelling.

Our data subscription service delivers monthly updates on petroleum exploration data in Australia, New Zealand and Papua New Guinea. Our spatial data management systems are used by local and distributed global enterprises that need to locate and recover diverse spatial information through metadata and spatial searches.

Our powerful geological mapping and 3D geological model building tools are well suited to many of the daily activities of energy explorers.

Our non-seismic geophysical methods deliver comprehensive 3D subsurface geological modelling and inversion of magnetic and gravity data with the ability to integrate diverse geological constraints to create realistic geological models of basement and intra-sedimentary intrusions.

## Engineering and Environment

Our solutions enable construction, infrastructure and environmental engineering clients to more effectively and reliably manage spatial data. Whether you are running bathometric dam surveys, monitoring airborne and groundwater contaminants, looking for subsurface hazards with seismic surveys, mapping changes in habitats, logging GPS-referenced data in the field or evaluating the geo-technical properties of embankments and foundations, we have the right solution to assist in the collection, validation, visualisation and integration of all of your spatial data enabling you to quickly and effectively map, store and share your information.

Traditionally, much of the data collected during site investigations and environmental monitoring programmes has been stored and analysed in customised spreadsheets and databases, which can seriously restrict how the data, especially time-stamped, spatially referenced data, can be utilised. Issues of compliance and corporate governance

aside, ad hoc data management increases costs, restricts access, adds risk and limits the value that can be extracted from the data. With Pitney Bowes Business Insight, you will discover the true spatial form of the data, including full 3D stereo immersion, and how the form of the data can change over time.

## Turn Exploration into Reality

When you partner with Pitney Bowes Business Insight we give you the capabilities you need to reduce exploration costs and make better more insightful decisions. We will help you seamlessly merge your critical business data in an interactive environment that lets you create, explore, query and communicate complex ideas in new ways.

We make it easy for you to:

- Optimise exploration decisions
- Explore the limits of your data
- Prepare the ultimate presentation
- Collaborate with colleagues
- Communicate your interpretations
- Ensure effective decision making

Visit [www.pbbusinessinsight.com](http://www.pbbusinessinsight.com), for more information about our dynamic geoscience solutions.

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