


Intelligence On Demand

REFLEX | Company Overview





Access to real-time, verified and accurate subsurface information is essential to making critical decisions on your mining or exploration project in a timely manner.

The unique combination of expertise from drilling professionals and geoscientists, supported by our strong R&D capability, enables REFLEX to develop fit for purpose technologies to enable the delivery of real-time intelligence to meet our clients' specific needs. For companies seeking to improve efficiencies and productivity across their exploration and mining projects, REFLEX has a well established reputation in the industry for providing reliable, accurate and cost efficient solutions.

Productivity Enabling Solutions

Resource companies and drilling contractors around the world rely on REFLEX's integrated range of innovative solutions to provide value to their operations.

Enhanced Productivity	REFLEX's integrated solutions are designed to simplify workflows and minimise delays, delivering significant productivity gains.
Greater Accuracy	Best in breed tools and in-field validation of data provides the assurance that data transmitted from the field is accurate and reliable.
Reliability	All REFLEX instruments are run through a series of rigorous sensor performance cycles, with superior calibration routines and algorithms to optimise ruggedness, accuracy and reliability.
Instant Data Accessibility	Decisions can be made in a timely manner with real-time access to relevant information from any web browser, anywhere in the world.
Easy Implementation	Ease of use for both hardware and software means site implementation is rapid and seamless
Secure Chain of Custody	Data flows securely and automatically from the tool in the field to IMDEXHUB-IQ™ and if required straight through to third party packages without any interruption in the chain of custody
Expert Data Analysis	Decisions can be made confidently, based on the superior data provided through advanced software, tools and techniques for data analysis and interpretation.

Proudly part of the IMDEX Group

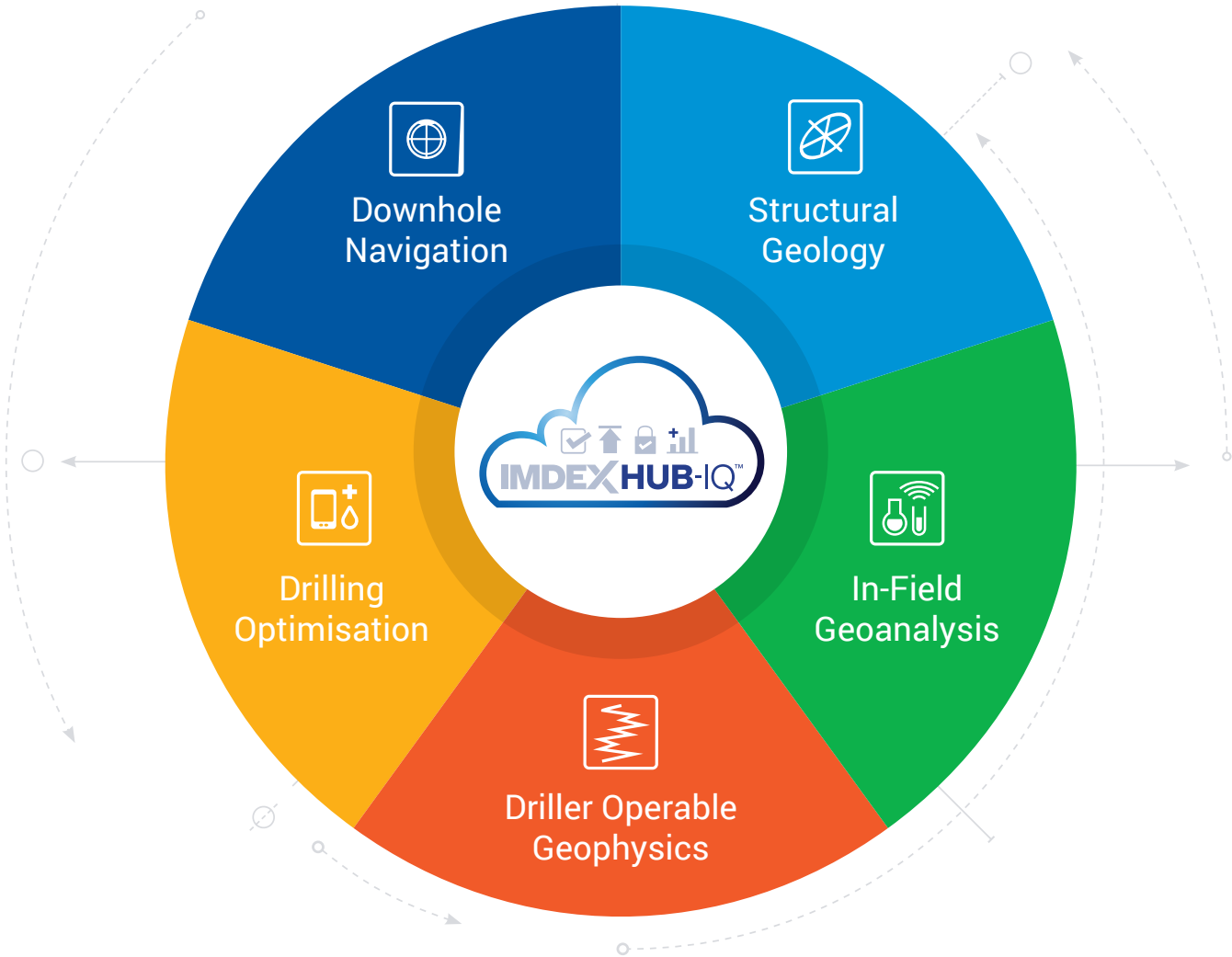
REFLEX forms part of IMDEX, a leading ASX listed METS (Mining Equipment Technology Services) company. IMDEX's vision is to be the market leader in real-time subsurface intelligence solutions.

IMDEX delivers leading technologies to the global minerals industry and target non-mining markets. The company also provides innovative drilling fluids, solids removal equipment and data management software for drilling optimisation via its AMC brand.

Together AMC and REFLEX offer an integrated range of market leading products and services to enhance clients' operations, supporting some of the largest resource companies and drilling contractors worldwide.

Our Solutions

Our integrated products and technologies assist clients to reduce their costs and increase their productivity by providing end-to-end solutions across the full mining value chain.



Game Changing Innovation

REFLEX has built its reputation on a history of industry firsts and award winning technology.

Maximising operational efficiencies is key to the success of any project. REFLEX has an established reputation of introducing new and innovative technology to the mining industry, driving changes in industry best practice, and ultimately achieving efficiencies within the sector.

REFLEX pioneered the development and introduction to the global minerals market;

- Digital survey tools (single and multi-shot)
- Digital core orientation
- Driller operated Inertial Navigation Survey Systems including MEMS and North Seeking Gyro
- Driller operated geophysical systems
- Rapid and accurate structural logging systems
- Cloud-based operational and geological data collection and management system with basic QA/QC processes, data export capability, automated and ad hoc reporting, data storage and full user log audit tracking.

These systems are now considered industry standard and are used by drilling contractors and resource companies worldwide.

REFLEX has built its reputation on a history of industry firsts and award winning technology.



“Our diverse portfolio of products and technologies let drillers and resource companies know what is going on below the ground as accurately and quickly as possible. It is this intelligence that enhances the efficiency and profitability of their operations at all stages of exploration, development and mining.”

Bernie Ridgeway – IMDEX Managing Director

Real-time Information

Resource companies around the world suffer from acquiring, accessing, managing and maintaining significant quantities of data derived from a range of sources.

The interpretation of these extensive quantities of data, in order to make effective decisions in a timely manner, is a seemingly insurmountable challenge that will only increase as even more instruments become a standard part of daily activity.

The award winning, cloud based IMDEXHUB-IQ™ makes secure, reliable information available instantly between the field and the office.

IMDEXHUB-IQ™ is the complete software-as-a-service solution for the collection, storage and reporting of critical data from the field. The analytics within IMDEXHUB-IQ™ converts the significant amount of data collected by REFLEX's instruments into relevant information which can be accessed anywhere and at anytime.

IMDEXHUB-IQ™ integrates seamlessly with REFLEX survey, structural, geochemical and geophysical analysis tools to provide real-time information to drillers, geologists, managers and other key decision makers.



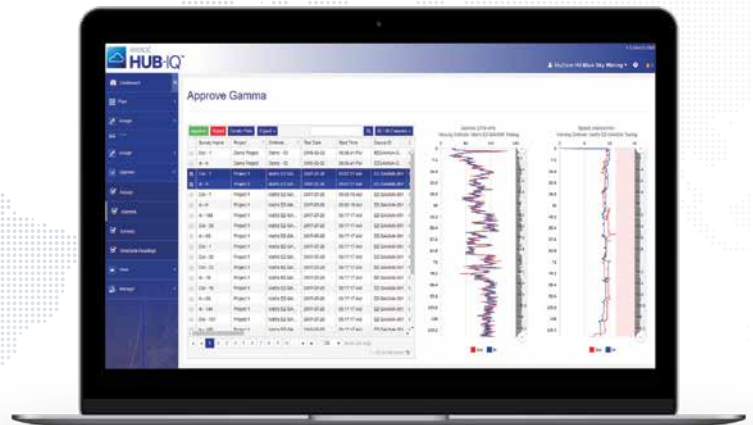
Trust your data

Transparency across multiple streams of data associated with a single drill hole, or an entire operation, allows managers to monitor activity in the field to ensure quality.

With no paperwork required, associated errors and inefficiencies from the workflow are removed.

By having access to survey and in-field analytical data in real-time, decisions on drilling and surveying can be made while the rig remains operational on site. With the significant costs associated with overdrill and mobilisation, smart real-time data removes the risk of significant time and cost blow outs.

Cost and KPI modules allow resource managers to monitor their drilling program with daily updates and results, to ensure projects are on time and budget, and that there are no unaccounted costs incurred.



Key benefits

See why companies are benefiting from using IMDEXHUB-IQ™:

- The rigorous and streamlined data validation functionality and built-in QC at the time of data collection, ensures that only data which can be transformed into valid, actionable information is transferred.
- With no manual intervention and paperwork required, associated inefficiencies and risk of errors from the workflow are removed.
- Secure chain of custody for your data and seamless and secure data transfer from field to office is made possible through the IMDEXHUB-IQ™ paperless workflow.
- IMDEXHUB-IQ™ enables key decisions to be made through real-time access to data anywhere, anytime.
- IMDEXHUB-IQ™ seamlessly integrates with IMDEX MOBILE™ - the mineral industry's leading choice for paperless data collection and productivity cost reporting.



Downhole Navigation Solutions

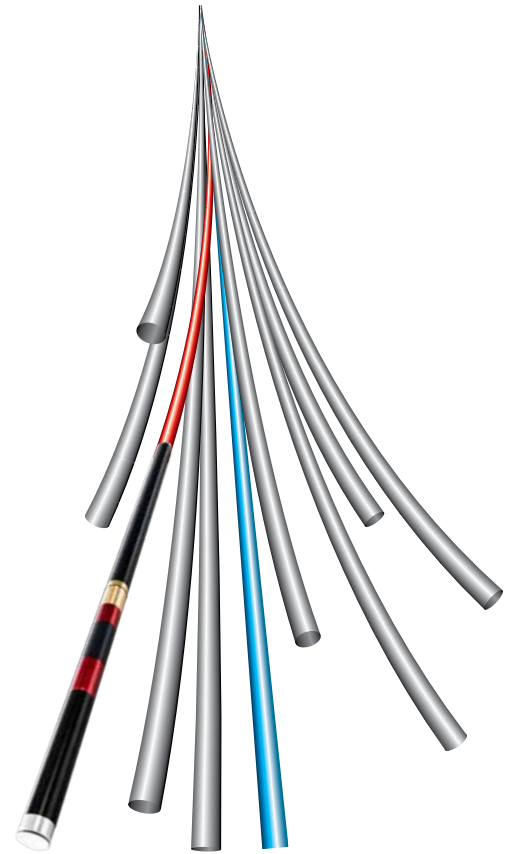
REFLEX is the industry leader in digital downhole data acquisition systems in mineral exploration. The company continues to develop practical solutions that combine cutting edge technology with over 40 years of industry leading experience.

REFLEX's range of downhole navigation solutions provides accurate, reliable information in all ground conditions, including both magnetic and non-magnetic ground.

The driller operable instruments negate the need for service technicians on site, resulting in considerable time and cost savings for the drillers and resource companies.

The next generation of REFLEX downhole navigation equipment is here, with all popular tools connected to IMDEXHUB-IQ™, creating the complete Downhole Navigation solution. With data transmitted straight to IMDEXHUB-IQ™, confidence in the data authenticity is ensured.

In-field data is visible in real-time anywhere, so decisions on drill plans or management can be made while the rigs are still on site.



REFLEX has built its reputation on the success of its innovative and award winning tools for their reliability, ease of use and accuracy.



Make good decisions with confidence

The highly sophisticated technology options in the REFLEX downhole tool range including the REFLEX GYRO SPRINT-IQ™ and the REFLEX EZ-TRAC.15™ are simple to use and provide accurate survey results. The ease of use negates the need for a survey contractor on site, reducing your drilling costs significantly. With multiple gyro and other survey instrument options, Downhole Navigation solutions will save you time and money.

Immediate information on your drillhole

REFLEX has specifically designed software for each instrument group to guide the operator through the survey process.

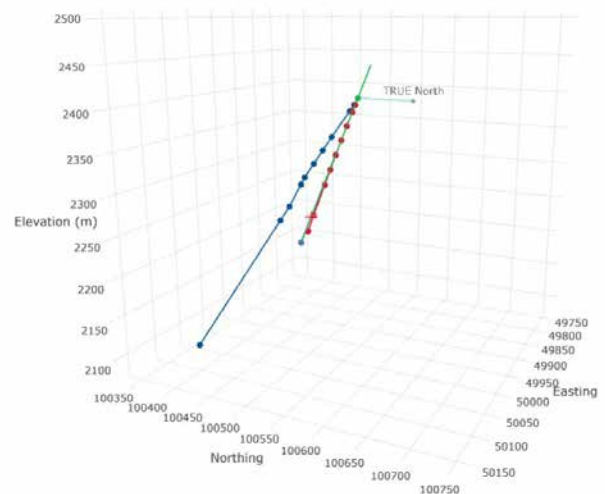
REFLEX's range of driller operable instruments are connected directly to IMDEXHUB-IQ™, a secure cloud based web portal providing quality assurance on your data's authenticity and a secure chain of custody. Now you can make timely decisions on drill plans or management while the rigs are still on site.

Through its easy to use interface, REFLEX EZ-NAV™ uses survey data to display the actual drillhole position allowing the driller to extrapolate the current drilling trend, indicating if the drillhole is tracking towards target. Early insight as to whether the original plan is achievable, provides the necessary information on which a decision can be made, as to the required action before it's too late or too expensive. The REFLEX EZ-NAV™ has the flexibility to allow for changes to be made to the plan and reduces the need to abandon drillholes that have deviated off track.

Down hole motors

The customised REFLEX motors provide the option to make alterations to the drill direction during drilling. Where there is a need for directional change, deflection settings can be adjusted simply and quickly by the drill operator to ensure intersection of the target. The robust nature of the motor ensures uninterrupted availability during drilling.

- **Increase the probability of intersecting your drilling target** - The adjustable bent allows the operator to adjust deflection settings on-site without the need to change bent subs.
- **Keep your drilling costs down** - The rugged and simple motor has been developed for ease of use and to withstand the extreme environment reducing replacement and repair costs.
- **Minimise the need for maintenance and repair** - The inclusion of a specifically developed mud lubricated friction bearing pack makes the motor cheaper to operate, faster to service, while significantly enhancing its robustness.





Structural Geology Solutions

Are you confident the structural data you are relying on for key business decisions is accurate and reliable? Have you ever had to wait days, or even weeks for results from the field before making decisions? Worse still, have you had to make a decision based on data you didn't trust?

Traditional methods of collecting and interpreting structural data from the field are prohibiting companies benefiting from true operational efficiencies. Taking days, if not weeks to collect, manipulate and then finally interpret structural data causes delays in critical decision making. The traditional approach doesn't have QA built-in, which may result in key drill and mine planning decisions being based on unreliable data.

IMDEX has developed its end-to-end STRUCTURAL-IQ™ solution so resource companies can benefit from real-time, secure access to verified structural data directly from the field, improving operational efficiencies and reducing risk from manual intervention.

The STRUCTURAL-IQ™ solution is based on REFLEX ACT-IQ™ data, the quality of which can be viewed in real-time, both at the drill site and at the office in IMDEXHUB-IQ™.

Having the IMDEXHUB-IQ™ central to the overall solution saves valuable time allowing the easy combination of survey data from REFLEX survey tools and structural data from the REFLEX IQ-LOGGER™. Finally, advanced interpretation and analysis can be conducted on all your valuable structural data by using the stereonet functionality in the IMDEX's ioGAS™ software.

The ultimate productivity enabler

The end-to-end workflow is catered for in the STRUCTURAL-IQ™ solution, offering all the associated benefits of working with one trusted technology provider for a complete solution. Resource companies can now benefit from operational efficiencies by utilising one company offering the integration of award winning technology to digitise key workflow processes, supported by unrivalled geological expertise.

SAVINGS ACROSS THE WHOLE OF THE PROJECT



- Real-time information
- Rapid logging
- Faster decision making



- Instant access to trusted field data
- Benefits associated with one provider
- Save costs of on-site technicians



- Across project synergies
- Automating workflows
- Turning data into intelligence

IMDEX STRUCTURAL-IQ™ Solution

IMDEXHUB-IQ™

The award winning cloud-based hub sits at the heart of the structural solution, providing real-time secure access to information between the field and the office.



REFLEX ACT-IQ™

This core orientation tool provides accurate, QA'd orientation data straight from the drill rig to support the collection of quality structural data.

AMC COREWELL™

Core protection systems like AMC COREWELL™ provide unrivalled protection of the core allowing you to maximise the structural data you can gather.

REFLEX EZ-GYRO™ / EZ-TRAC 1.5™

Innovative survey tools such as the range of REFLEX Gyros and REFLEX EZ-TRAC 1.5™ saves you time and costs by re-engineering the workflow, so you don't require an on-site technician for drill hole surveying.

IMDEX ioGAS™

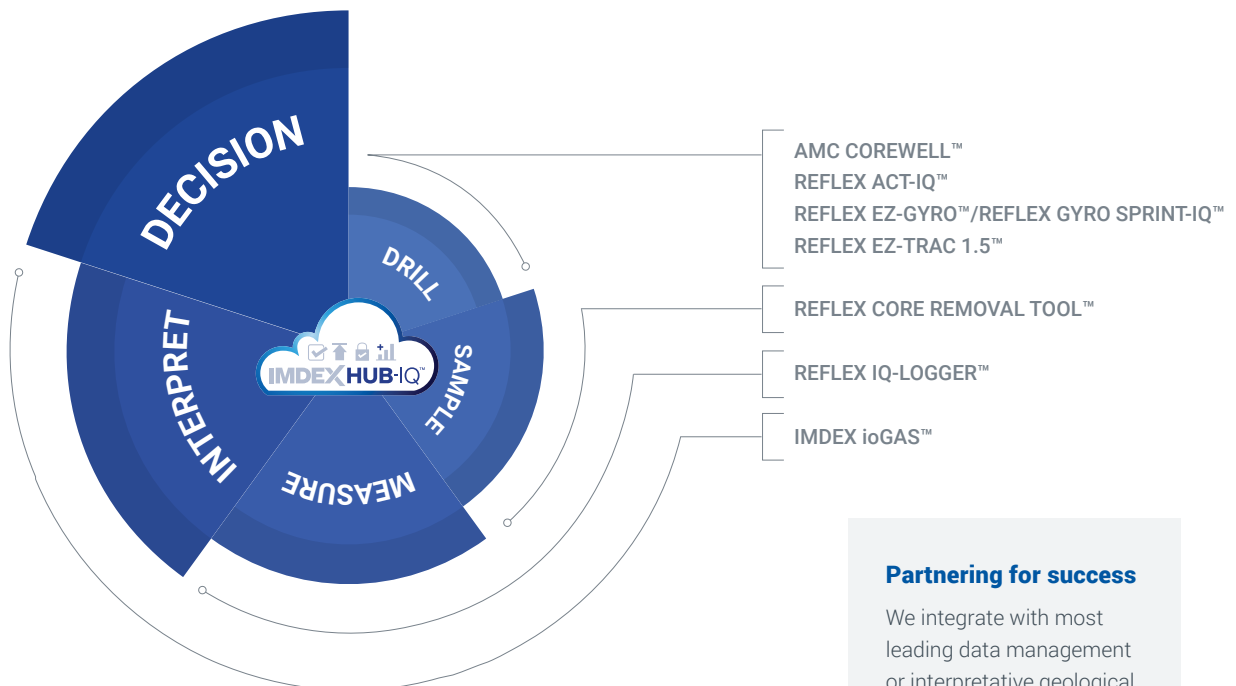
IMDEX ioGAS™ software offers advanced analytics and advanced plotting functionality with Stereonets.

REFLEX IQ-LOGGER™

The leading edge REFLEX IQ-LOGGER™ with in-built QA/QC has been developed to ensure rapid and simple structural data capture.

Third Party Integration

From data storage to 3D modelling, data from our solutions integrate seamlessly via the IMDEXHUB-IQ™.



Partnering for success

We integrate with most leading data management or interpretative geological software.

Drilling Optimisation Solutions

The combined strengths of IMDEX’s leading brands AMC and REFLEX offer a powerful Drilling Optimisation solution for any size drilling contractor or resource company.

AMC has had over 30 years experience establishing itself as one of the world’s leading brands for drilling fluids and equipment – developing, manufacturing and supplying a range of specialised and innovative products for drilling. Whilst REFLEX’s history of pioneering downhole drilling technology has cemented its reputation for providing reliable, accurate and easy to use equipment that you can trust.

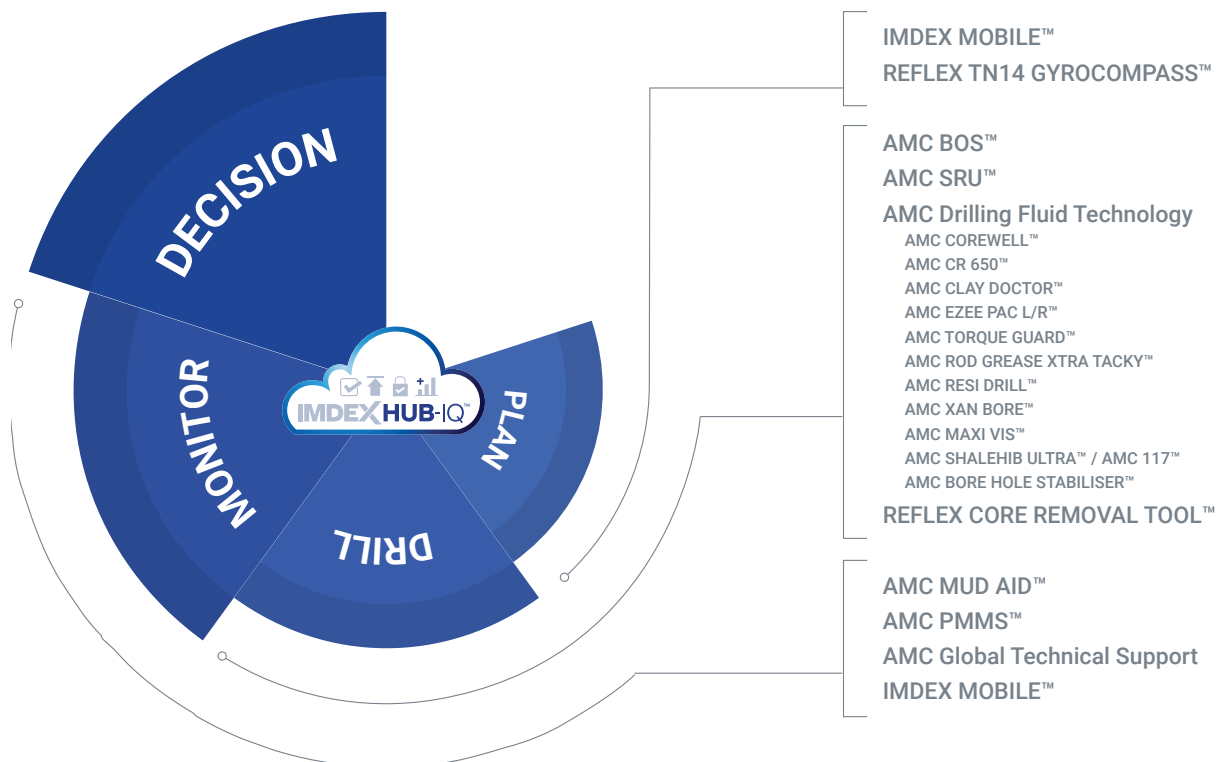
As specialists in drilling optimisation, we aim to redefine the way drilling fluids, equipment, technology and software are used, to ensure execution of drilling programs to specification, on time, within budget and safely.

The Drilling Optimisation solution continually improves results through the Plan, Drill and Monitor cycle by optimising workflows and utilising the latest technologies in it’s market leading products. The solution has been refined and developed to respond to increasing pressure for companies to improve efficiencies and minimise the risk of error.

This solution can help to achieve:

- Improved drilling performance and reduced costs
- Continual improvement on drill plan specifications
- Real-time, secure access to drilling fluid performance and rheological data, daily drilling reports, safety forms and survey information, providing complete visibility of your entire operation
- Access to industry leading expertise via AMC’s mud engineers.

Knowing you have the expert support of AMC and REFLEX on site when needed to deliver site specific solutions is why IMDEX has built a reputation based on trust.





IMDEX's Drilling Optimisation Solution

REFLEX TN14 GYROCOMPASS™

Quickly and accurately aligns drill rigs in surface and underground operations. The driller operable device takes less than 10 minutes to complete, minimising downtime, improving productivity and saving costs.

REFLEX CORE REMOVAL TOOL™

The magnetic removal tool ensures maximum protection of the core sample and core orientation mark, preserving the accuracy of the core retrieved with reduced human risk and error.

IMDEXHUB-IQ™

The award winning cloud-based hub sits at the heart of IMDEX's solutions, providing real-time secure access to information between the field and the office.

IMDEX MOBILE™

Have complete visibility over your entire fleet in real-time. IMDEX MOBILE™ is the easiest-to-use solution for the collection of daily drill reports, safety forms and survey information.

AMC MUD AID™

AMC's MUD AID™ guides drillers to optimise and complete drilling fluid programs, without a dedicated drilling fluid engineer on site.

AMC BOS™

A wire-line downhole solution that works proactively, making targeted injections that produce a thin, robust lubricative membrane to stabilise the borehole and prevent lost circulation.

AMC SRU™ Range

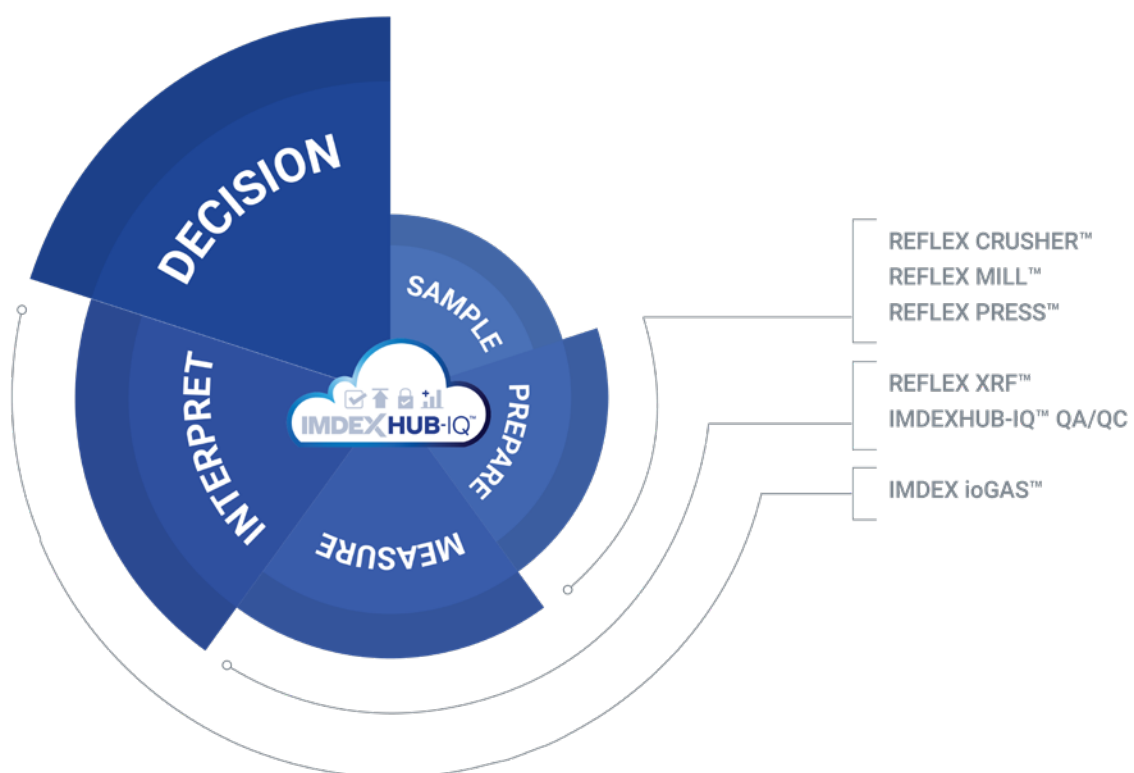
Portable closed-loop systems that eliminate the need for earthen sumps by separating drilled solids and cleaning drill fluid for reuse.

AMC Drilling Fluid Technology

AMC's range of drilling fluids maintain sample integrity, improve productivity and control costs, in a variety of ground formations or environmentally sensitive circumstances.

In-Field Geoanalysis Solutions

The complete solution for In-Field Geoanalysis, from sample collection and preparation to data interpretation, where you need it, when you need it, enabling informed decision making in near real-time.



Real-time geoanalytical decisions

This rapid mobile sample preparation system, with its optimised workflow, consistently provides a quality sample for analysis that you can rely on, without having to send the sample offsite. The REFLEX PRESS™ coupled with the REFLEX XRF™ and REFLEX CONNECT™ solution delivers near real-time, consistent and quality multi-element data from geological samples. QA/QC rules are built into the data collection routine to allow validation at point of collection, with remote monitoring and sign off through the IMDEXHUB-IQ™. Seamless delivery of data to IMDEX's ioGAS™ allows rapid analysis of the results supporting close to real-time decisions that can be trusted.

A consistent workflow, quality data, reliable decisions

The In-Field Geoanalysis solution is flexible, configurable and able to support your workflows and decision making needs. You can be confident in your decisions using IMDEX technology, providing consistent sample preparation, quality analysis and tools to support data analysis. With IMDEXHUB-IQ™ at the heart of the solution, you have the tools to manage the process from the office or the field.



IMDEX In-Field Geoanalysis Solution



REFLEX CRUSHER™

A portable, primary sample preparation system designed for single pass crushing of material up to 25mm, down to 1-2mm. Samples then have direct input into the REFLEX MILL™ or are ideal for bulk spectral analytical techniques.

REFLEX XRF™

The REFLEX XRF™ solution combines the robust QA/QC process and systematic workflow of the REFLEX CONNECT™ software with the performance of the Olympus VANTA XRF to ensure accurate and reliable results on every project.

REFLEX MILL™

A portable sample preparation solution designed to reduce material from 3-4mm to ~100 microns, producing an optimal sample for use in the REFLEX PRESS™.

IMDEXHUB-IQ™

The IMDEXHUB-IQ™ cloud based software provides real-time access to information and a secure chain of custody of data between the field and office. IMDEXHUB-IQ™ also provides QA/QC tools and workflows for assessment of your XRF data.

REFLEX PRESS™

The innovative sample press and associated die produces a high quality, consistent sample, improving the quality and repeatability of your XRF data.

IMDEX ioGAS™

IMDEX ioGAS™ is the leading exploratory data analytics software for the detection of anomalies and relationships in your geoscience data.



Driller Operable Geophysics

Advanced tools and techniques for confidence in your gamma logging at a lower cost.

REFLEX's driller operable geophysical instruments enable drilling operations to progress and collect accurate data without the added expense and time delays of bringing a technician on site.

Driller operable gamma logging

The time and cost of having a trained technician on site to perform your gamma logging in order to identify rock types and geological correlation is substantial. The driller operable natural gamma logging instrument, the REFLEX EZ-GAMMA™, has been designed for use by on-site personnel, negating the need for a costly specialist technician together with logging truck, on site.

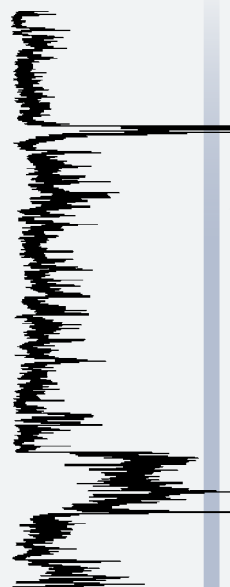
Now using the REFLEX EZ-GAMMA™, drilling crews or geologists can perform gamma logging as efficiently, accurately and easily as they would any survey or core orientation. Following the survey, the gamma data are downloaded from the instrument to the IMDEXHUB-IQ™ via a hand-held device. The results are available immediately and data can be approved before the rods are pulled and the rig moves on.

Near real-time geological decision support

Geological logging can be qualitative, slow and subjective, sometimes with little support for the first pass assessment of drilling material. Imagine knowing where your critical lithological boundaries are the first time you see the rocks?

Using IMDEX's end-to-end Driller Operable Geophysics solution, near real-time support is delivered to the geology team, allowing the determination of critical geological boundaries, potential areas of alteration and cross correlation between drillholes, even before the core has left the rig.

Natural gamma is a property of rocks that changes with lithology, alteration types, boundaries and can tell you something about texture as well as things that cannot be visibly logged. With IMDEXHUB-IQ™ at the heart of this solution, data is delivered securely and seamlessly, so geoscientists can improve the geological modelling workflow and get on with the job.



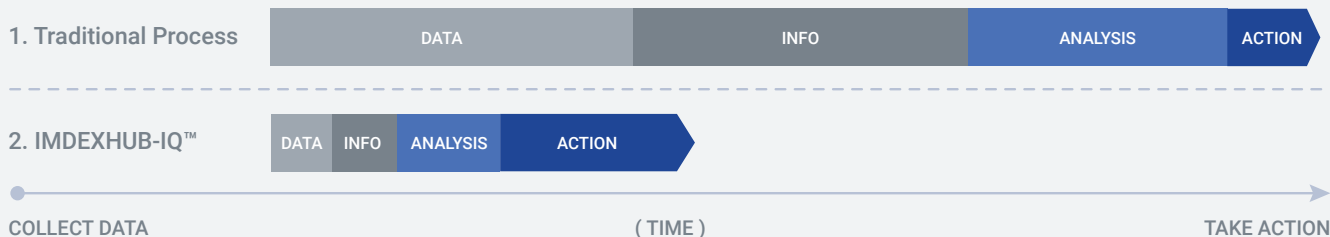
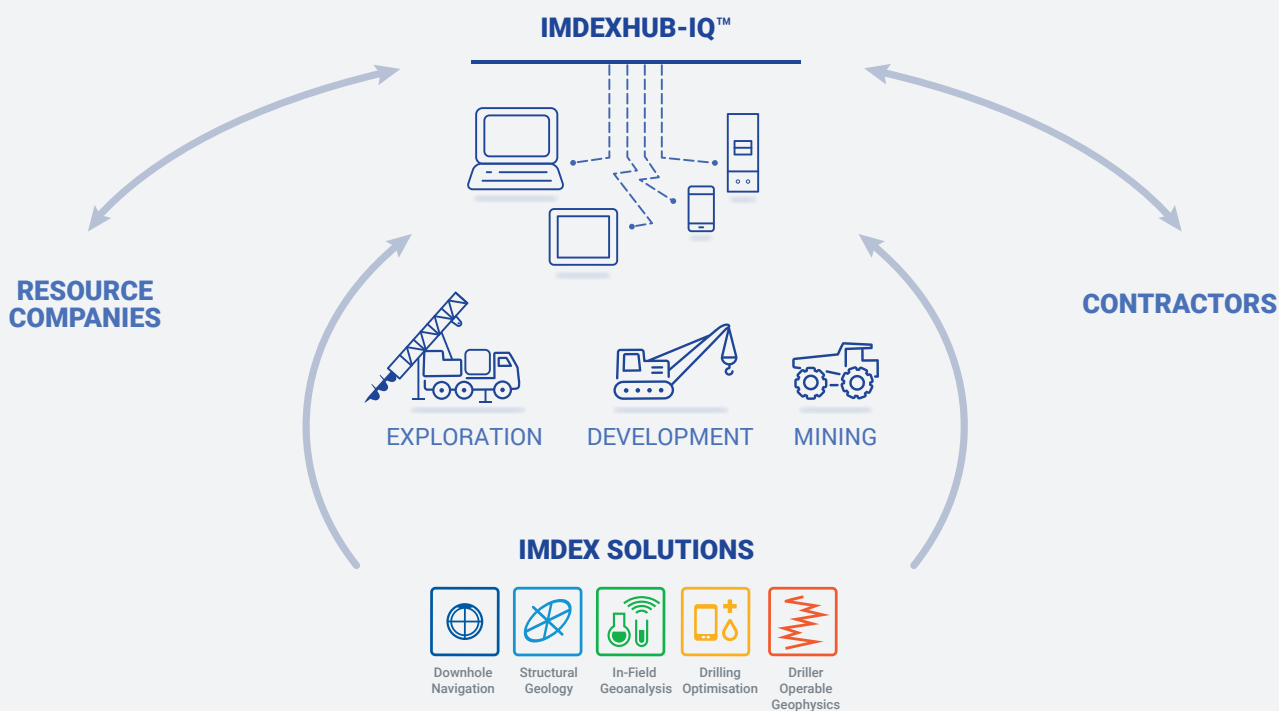
Leading Technologies and Solution Sets

Our strengths

World-class R&D facilities
 Excellent internal capabilities
 Solutions for exploration, mining and development

Client benefits

Chain of custody
 Quality data
 Timeliness
 Streamlined processes





Why one solution provider?

IMDEX with its market leading brands, AMC and REFLEX can provide a unique, integrated suite of technology and intelligence solutions.

These solutions support our customers to improve productivity, reduce costs and gain access to relevant, reliable information for critical decision making, anywhere and at anytime.

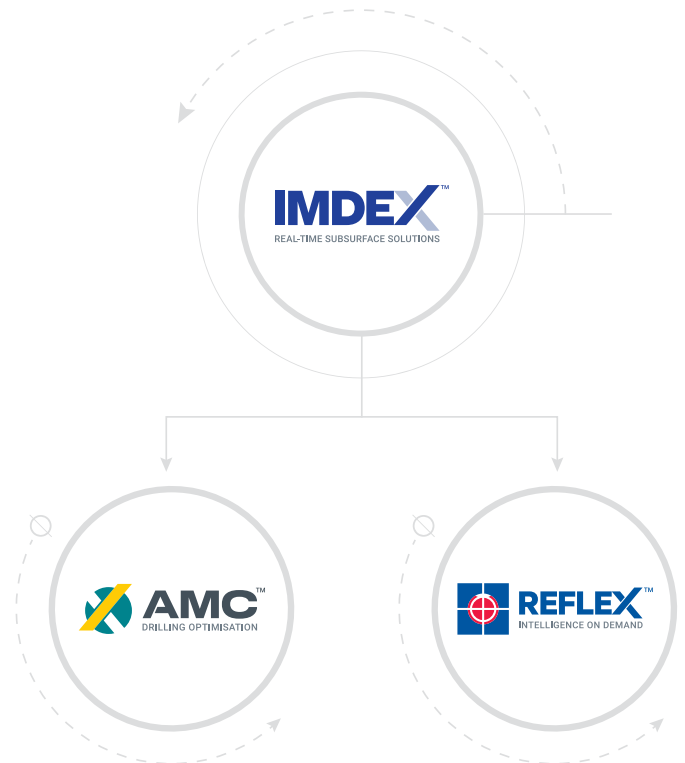
Our leading brands



AMC is the leading brand of innovative drilling fluids and technology to the global drilling industries, integrating its range with expert technical support to optimise drilling.



REFLEX is the leading brand of advanced subsurface intelligence solutions comprising instrumentation, data management and analytical software for geological modelling and drilling optimisation.



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