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OVERVIEW

DATA MANAGEMENT
FOR DOWN HOLE
TECHNOLOGIES
+
DRILLING SERVICES



DATA DRIVEN RESULTS FOR MINING

BlackFox is an independent technology company not owned or controlled by any mining service provider or product manufacturer.

BlackFox serves clients in mineral exploration by connecting clients to critical data and providing analytics that drive operators and drill service providers.



Expediant Survey Results



Integrate

Easy export or integration for mine planning



Know

Fast access to data in one place



Get Results

One click call-out & streamlined dispatch management



Efficient

Near real-time survey file availability



LINK IS A POWERFUL CLOUD PLATFORM OFFERED THROUGH IDS BY BLACKFOX.

LINK PROVIDES IDS PARTNERS WITH COLLABORATION AND PRODUCTIVITY ENHANCEMENTS. IT'S BUILT ON OPEN DATA PRINCIPLES AND DESIGNED FROM THE GROUND UP TO IMPROVE THE QUALITY, SPEED, AND ECONOMICS OF THE IDS CUSTOMER PARTNERSHIP.

IMPACT

YOUR TIME SHOULD NOT BE SPENT ON DATA MANAGEMENT IN ANY FACET OF OPERATION.

TOGETHER, IDS AND BLACKFOX PROVIDE THE FULL PICTURE FOR DATA-DRIVEN MINE MANAGEMENT BY PROVIDING **A SINGLE ENVIRONMENT FOR DOWN HOLE DATA, DRILLING ANALYTICS, DATA COLLECTION FROM CONTRACTORS, AND INFORMATION SHARING.**



OWN YOUR DATA

OPEN PLATFORM

DIRECT DATA ACCESS

Security and control is in your hands.

You own the data and the database, we provide the pathways, input systems, and reporting. No conflicts, no restrictions, fewer worries.



HIGHLY ADAPTABLE

OPEN PLATFORM

BASE STACK: SQL Server | AWS | Various Web Technologies for Data Interaction

FREE INTEGRATION

TO MATCH YOUR EXISTING PROCESSES

All ERP's have different methods of integration. We've successfully integrated with Oracle, SAP, ADP and a variety of other ERP'S, the most critical of which are weekly payroll hours and monthly billings.

Because we allow you full and direct access to your data, we're able to directly integrate with any of your organization's systems.

ORACLE®



ANY DEVICE

DESKTOP | ANDROID | IOS

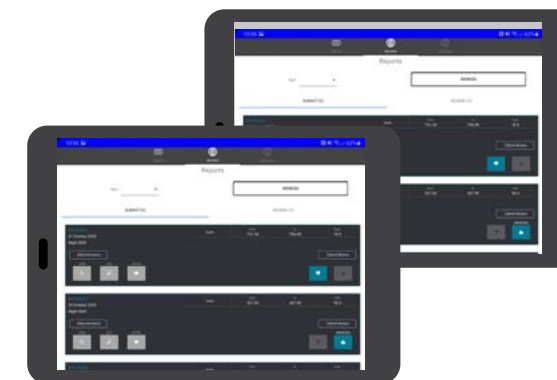
desktop & mobile optimized

CUSTOM MOBILE APPLICATIONS

MAKE THIS YOUR OWN

LINK can be customized to fit your organization.

Processes and tools are unique to each organization and their programs. LINK's open platform allows us to adapt to your needs



MOBILE

Mobile devices are used to collect and share information. The devices get data from the administrative system allowing each shift report to be customized to the job.



DESKTOP

Field personnel do not have to use a mobile device. A desktop version with the same features is available for data entry.



COLLECTION OF DATA ISN'T RELEGATED TO A SINGLE SOURCE. USE ANY DESKTOP OR MOBILE DEVICE TO MEET OPERATIONS NEEDS.



COMPLETE DOWN HOLE DATA CAPTURE

MANAGE ALL DRILL HOLE GEOTECHNICAL DATA

TRACKING COSTS IS ONLY HALF THE EQUATION WHEN TRYING TO PLAN AND MAKE INFORMED DECISIONS. VIEW THE ENTIRE PUZZLE WITH SINGLE SOURCE INFORMATION FOR COSTING AND GEOTECHNICAL DRILL HOLE DATA.

NOT LIMITED BY A SINGLE VENDOR OR TOOL

OUR APPROACH BRINGS THE BEST OF ANY TOOL FOR THE PROJECT WITHOUT RELYING ON A SINGLE VENDOR.

MORE THAN JUST DRILLING
SOFTWARE



TRUSCAN
TRUCORE
TRUSHOT



MINNOVARE
RIG ALIGNMENT
DATA



SPT DEVIATION
DATA



IDS DEVIATION &
LOGGING DATA



+ ANY
DATA SOURCE



ANY SOURCE
ANY FORMAT
ENTIRE DRILL PROGRAM

LINK BRINGS EVERYTHING TOGETHER

DATA MANAGEMENT CHALLENGE

CENTRALIZED, ACCESSIBLE AND SECURE



PERSISTENCE

As projects and mines progress, the importance of data centralization becomes ever present. Various data sources and disparate sheets create lag, inconsistencies, and extra work when project or annual decisions need to be made. LINK offers a solution to disparate data by bringing data from any source into one application.



COLLABORATIVE

Sharing and collaboration are easier when all teams can view the same data. Different versions, sources, and quality of data inhibit communication and access to critical information.



CLOUD

Access to information, virtually unlimited storage, a wide technology array, centralization and, security are just a few reasons for cloud applications. Cloud technology can also be used within an organization's network. Either on premise or off premise, security and access controls can be provisioned from IT. These features make it seamless for teams between sites in any location to work with the same information.

MANAGING DATA AND STORAGE SOLUTIONS SHOULD NOT BE THE JOB OF GEOLOGISTS. WE OFFER SOLUTIONS TO LET YOUR TEAM BE ENGAGED ON WHAT'S IMPORTANT.

FULL PICTURE

Drilling, logging, sampling, and assaying provide a rich data set from which operational decisions are made. Collating this information can be a burden and creates more work by consuming time and energy that isn't efficient. Software that not only manages large data sets but also supplies analytical and costing information provides the full picture. Hosting and delivery of information is half of the solution. The other half is the collection and automation of data and metrics that fits within your current organizational practices.

LINK architecture automates collection and provides a structure for including aspects of drill programs like costing, budgeting, material usage, and large geotechnical data sets into a single source application.

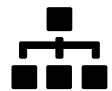


DRILL SERVICES

TRANSFORM YOUR ORGANIZATION

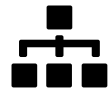
REVIEW AND ANALYZE THE PRODUCTION DATA AND TRENDS TO DRIVE MARGIN IMPROVEMENT WHILE LEVERAGING THE REPORTING, EXPORTS, AND DIGITAL CONTRACTOR DATA TO DRIVE-BACK OFFICE EFFICIENCIES.

USE LINK TO HELP MAKE YOUR ORGANIZATION A LEADER IN DIGITAL FIELD DATA COLLECTION AND REPORTING TECHNOLOGY ACROSS ALL SEGMENTS OF YOUR BUSINESS



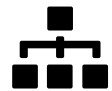
02 PRODUCTIVITY

Use the data collected in your programs to improve uptime, production, and costs.



03 EFFICIENCY

See all your operational information in less time and in more detail. Get root cause analysis.



04 EMPOWER

Stop spending time entering data and relying on manual processes. Instead use your time and resources driving solutions and improvements to your organization.



05 COMMUNICATION

Enable strong connections between you and your contractors with next generation daily reports and mobile-enabled approvals.



06 SPEED

LINK can help you get survey and geotechnical data from your tools to clients faster. With LINK you can directly upload survey data from the handheld where applicable.

YOUR NEXT GENERATION DAILY REPORT

IMPROVE THE SPEED, USABILITY, AND ACCURACY OF YOUR FIELD DATA.

INDUSTRY-WIDE DATA STANDARDS

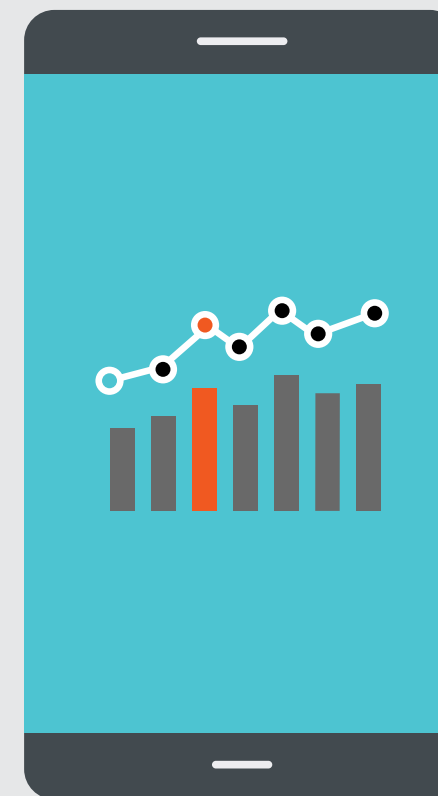
IDS and BlackFox are working to help **establish standards for data exchange in the industry.** Enabling the sharing of data and performance at agreed upon levels of detail will unlock significant efficiencies. **We believe companies that utilize a variety of equipment and down hole tools deserve an interoperability and information exchange based on industry needs.**

TOP 3 DRILL CONTRACTORS USE LINK DIGITAL REPORTS

Layne, Boart, Major, and others.

Setup is quick for any other contractor.

Use the next generation daily report to collect employee, consumable usage and drilling activity inputs that align to each individual project or PO.



PROGRAM SPECIFIC

Quickly setup for any drill type or application.

COST TRACKING

Automate cost tracking with contractors.

ANALYTICS

Get instant metrics like cost per foot or meter and material usage automatically.

OUT OF THE BOX REPORTING

ROBUST ANALYTICAL AND
INFORMATIVE REPORTS THAT
PINPOINT WHAT YOU NEED TO SEE



COST
/ MT OR FT
/ SHIFT
/ SHIFT HOUR
/ DRILL HOUR



METERS OR FEET
/ SHIFT
/ SHIFT HOUR
/ DRILL HOUR



REPORTING CAPABILITIES

New and/or modified report layouts can be configured as needed in LINK. In addition the database is always available to be used as a source for external analytics programs.



Production Metrics

By Rig, Hole, Driller, Shift, Site, Operation or Geography. Look at your operations from 360.



Cost

Enable your operation to get near real-time costing and budget tracking.



Equipment Usage

Look at your equipment by project to determine utilization, fuel usage, and granular break down or lost time reporting



Bit Tracking

Tracking usage of high cost items such as bits can help you see where costs can be saved.



Down Hole Data

Import, track and manage all down hole data from any vendor, instrument or program.



Maintenance

Include detailed maintenance information for each piece of equipment within the application.



Budget Tracking

Project PO's or entering other specific budgets can be tracked for the life of projects.



Materials

Directly capture usage of core boxes, muds, additives, fuel, and other materials.



Site Inventory

Viewed as the black hole between your stores, warehouse tracking, projects, and site inventory.

**WE ARE DRIVEN BY CREATING
EXPERIENCES THAT DELIVER RESULTS
FOR YOUR BUSINESS AND FOR YOUR
CONSUMERS.**

PRICING

AFFORDABLE CONSISTENT TRANSPARENT

Simple pricing that includes only a per rig per month rate plus a fixed monthly access fee and customization, when requested, makes this package affordable and scalable

FIXED RATE PER RIG / MO.

Fixed monthly rate charged per ACTIVE rig per month depending on your desired services.

+ Montly base

Why do we focus on active rigs? Because we believe that in an industry that is cyclic like this one we should be true partners and participate when utilization decreases. This is a foundation level belief in our definition of partnership. **Unlimited users and daily report activity.**

*** Unlike competing products, LINK does not charge for though-put ***

FIXED RATE / HR CUSTOM WORK

Hourly rate for custom development that is mutually agreed to in advance and reimbursement of reasonable travel expenses as directed and approved in advance.

+ UNLIMITED USERS

Implementation plan can be discussed. We recommend a train the trainer approach utilizing teams to minimize cost and provide more robust ongoing company knowledge. We will provide assistance as necessary including travel to operations as required.



Real Results

CASE STUDY IMPACT

The initial 90 Day use by a large mining company yeilded these results with no added burden on management



POSITIVE ROI < 90 DAYS

30 - 50%

REDUCTION IN BACK
OFFICE & CLERICAL
SUPPORT

80%

IMPROVEMENT IN
TIMELY REPORTING

4%

COST SAVING FOR DRILL
PROGRAMS

1

DAY SHIFT REPORT
AVAILABILITY

2/3

REDUCTION OF
MANUAL PROCESSES
AND CORRECTIONS

1

DAY MONTH END
REPORTING PREP TIME

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