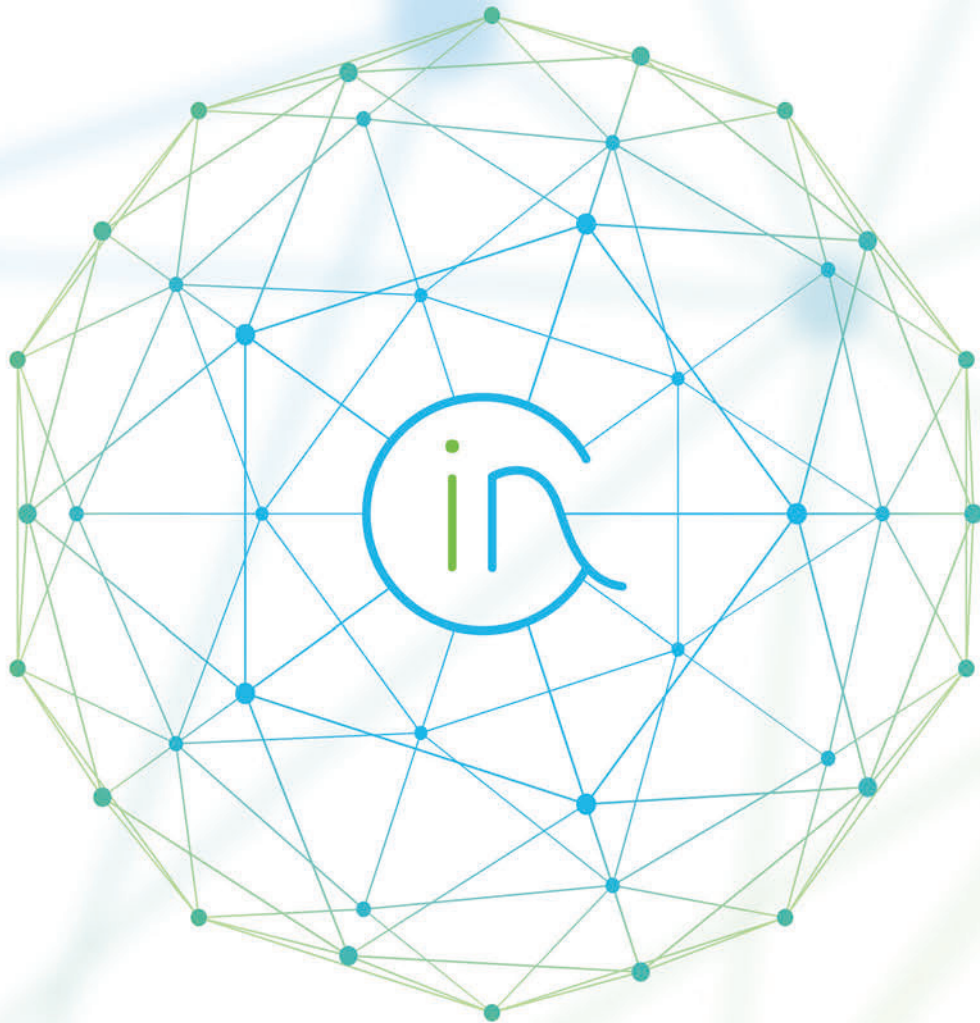


**YOUR COMPANY IS A SOURCE OF
UNEXPLOITED DATA**

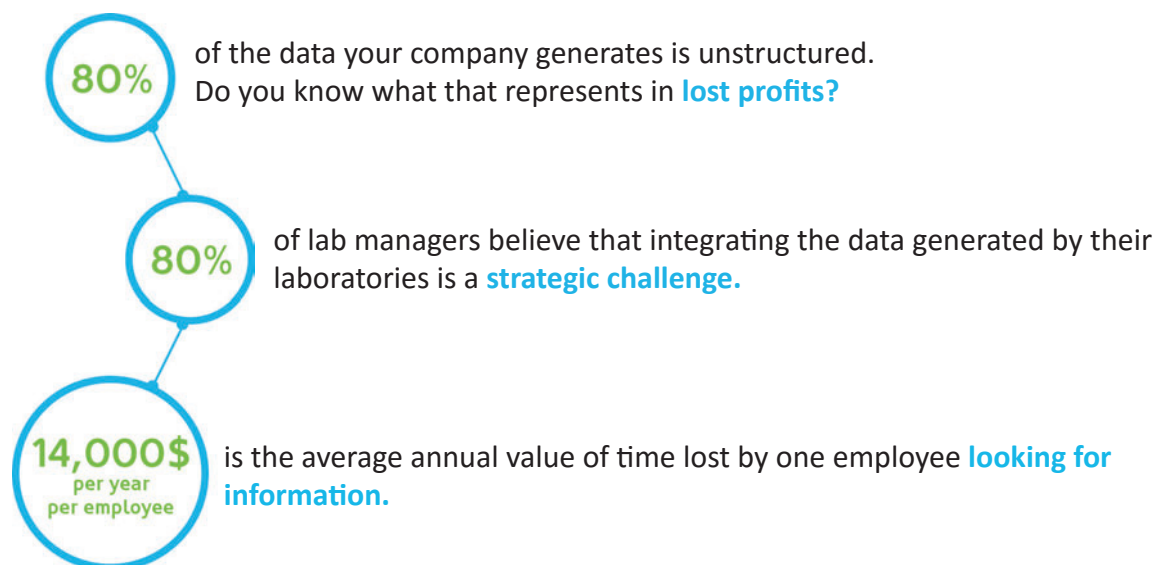


TAKE ADVANTAGE OF IT!

inquiro



Laboratories' strategic challenges



Many laboratories trust Inquiro.

Inquiro, the solution that enhances the value of your data

Inquiro is a **Scientific Knowledge Management System (SKMS)** that allows you to manage vast quantities of data and transform it into knowledge.

Integrated into your information system, Inquiro centralizes all types of files in a single, extensible repository regardless of their source: instruments, file servers, computers or software (for example: ELN, LIMS).

Inquiro's technology automatically identifies your data so that anyone in your organization can use it easily, thus unlocking its full potential and enhancing the value of your company's scientific assets.

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Spend more time making decisions and solving scientific problems.

Scientific Knowledge Management System

SKMS

A **Scientific Knowledge Management System (SKMS)** is a software solution that can transform all of your digital data into knowledge.

An SKMS improves a company's productivity and competitiveness:

- It centralizes all data so it is accessible to your employees. This means you no longer lose data, and you significantly prolong its life cycle because existing data can be reused.
- It allows the alignment of data from multiple sources using business criteria, which reveals correlations that were not previously visible.
- It adapts to all types of structures and activities, enabling the collection, browsing, storage and sharing of data across an organization. With this system, you can organize data so that each piece of information is easily accessible, and even push data to relevant users within the company.

A digital data management solution that enhances the value of your files to leverage their full potential.



Metadata

The key to success

Your company's data is a hidden treasure trove waiting to be discovered and put to use. For this to happen, you need a strategy, a plan and a method. You need metadata.

In the industry's ever-changing world, the quantities of data collected grow larger every day. It is becoming essential to possess information, as well as to harness it.

When managers are asked, they are quite clear about their primary objectives:

- Speed up the company's growth
- Attract and retain new customers
- Reduce production costs

Metadata is rarely identified as a tool to achieve these key objectives. Yet metadata is the cement that lets you build the foundations of an effective knowledge management strategy.

Metadata refers to information that describes data, or « data about data ». This additional information makes it possible to understand the nature, meaning, origin and utilization of a piece of information.

Businesses today must be able to make decisions in real time based on up-to-date information. Whether an SME or a multinational corporation, a company's many different divisions need to exchange data: procurement, marketing, production, HR, support functions, communication, sales and IT. The information system they use to manage their data must be reliable, comprehensive and accessible. The only way to guarantee efficient integration among the different systems and divisions is to ensure that all data is centralized, identified and maintained. Now metadata makes this possible!

Although the concept of metadata is not new, thanks to technological advances today it can be used for more than simply cataloging information. Our approach propels metadata from the status of **descriptive and accessory data** about the nature of the information it is associated with to the status of **meaningful and integrated data** that makes it possible to structure and enhance information.

***Inquiro is a SKMS based on the use of metadata.
Find out how to improve your company's productivity and
bolster its competitive edge.***



Automatically collect & integrate All your data

Inquiro is a software solution developed specifically for the management of scientific data, in particular for laboratories. When you integrate Inquiro into your information system, it **automatically collects** all data that is generated, **regardless of its format** (csv, xls, txt, jpg, etc.) or **source**. Automating data collection guarantees that no information is lost and that all of a company's resources are current and more valuable.

After data has been centralized, it is stored in the **Inquiro database**. In the era of Big Data, it is essential to be able to **align data storage solutions** with a company's needs. Inquiro's storage space can be easily scaled to suit the changing volume of your data, thus ensuring the security of your files and the long-term growth of your business. **Centralizing** information is one of the **collaborative** features Inquiro provides, so that data is accessible to all authorized users.

In addition, Inquiro can collect and automatically synchronize files from any data source, including:

- Users' workstations
- File server
- Robotic platform
- Laboratory software (LIMS, ELN, etc.)
- Instrument
- Other sources

Inquiro gives you the peace of mind of knowing that no valuable data will be lost.

INQUIRO, EXTENSIBLE STORAGE ENGINE

Storing hundreds of terabytes and even petabytes of data has become common practice in a number of industries. The primary requirements for storing Big Data are being able to manage very large quantities of data and being able to handle increasing volumes.

Inquiro provides a Big Data storage engine that organically adapts itself to very large volumes, up to a petabyte, and very large numbers of files, up to tens of millions. Your files can be stored locally or in different data centers.

This technology transcends the limits of traditional file systems by assigning each file a unique ID and indexing its contents and metadata. As a result, you can access any file using its ID or its metadata.

The flexibility that comes with the ability to search metadata vastly increases the potential for analysis and allows you to implement unprecedented new data processing methods.



Discover and harness the knowledge Buried in your files

Using technologies developed in the field of Artificial Intelligence, Inquiro **identifies and automatically attributes metadata** to files. This learning capacity continually enriches your data by providing a precise definition of each file, which describes its context, nature, meaning, origin and consequently its value.

Thanks to Inquiro's **ability to learn**, it continuously improves your information assets. The more you use the system, the more relevant Inquiro's metadata suggestions become, and the more you benefit.

This continuous improvement is part of the added value Inquiro creates. By identifying metadata that is shared by different files, **new avenues of research can come to light**.

INQUIRO, METADATA GENERATOR

Harnessing its unique technology, Inquiro uses various techniques to automate profiling of your data:

- Automatic extraction of metadata from any type of file based on industry standards, such as DICOM, FASTA, ISA-Tab, etc.
- Semantic cataloging and indexing of file contents. To accomplish this, Inquiro analyzes the text based on public or proprietary ontologies and taxonomies (MESH, GEO, OBO, etc.) to establish contextual associations and identify key concepts.
- Automated classification of files based on existing or identified metadata, user interactions and business rules.

The combination of these approaches empowers you to understand, identify correlations and model the knowledge buried in your data. You can immediately see what is important in your files.



Search and decompartmentalize

In a single repository

With a unique and easy-to-use interface, Inquiro allows you to query files regardless of their source. Specially designed for scientists, this technology takes a **smart, dynamic approach** to organizing files that is much more effective than a traditional tree structure classification system.

Based on metadata, the search engine allows users to **access data quickly and easily**. Importantly, it breaks down barriers between siloed data. Inquiro features various search tools, including dynamic filters that facilitate searches and guide the user's choices.

INQUIRO, AN AGILE SEARCH ENGINE

When it comes to searching for scientific information among all of an organization's assets, traditional search engines are inadequate.

Inquiro features an agile search engine that provides options from simple key word searches to guided, contextual searches based on metadata. It offers a range of search tools:

- Disambiguation is based on **ontologies and controlled vocabulary** and adapts to the complexity of the living world. For example, a search for CD19 can be limited to the protein, the gene or the pathway.
- Searching by concept utilizes the wealth of scientific vocabulary by taking into account **synonyms and antonyms**.
- **Dynamic filtering** of results makes it possible to organize results according to subject matter based on search criteria.

- Assisted searches are based on users' interactions with the system. Previous searches, lists of files created by users, and information shared among team members are utilized to suggest theme-based searches.

- **Recommendations** of specific content and experts increase the relevance of results and foster collaboration.

Inquiro offers a unified, intuitive and relevant search experience.



Utilize easily your data

Thanks to the potential of metadata

The information produced by your research can be processed in many different ways:

ANALYSIS: Data stored within Inquiro can be reprocessed by third-party systems. The results will then be collected by Inquiro and defined by new metadata.

TRACEABILITY: The changes and transformations that files undergo are recorded for complete traceability over the entire life cycle of the data.

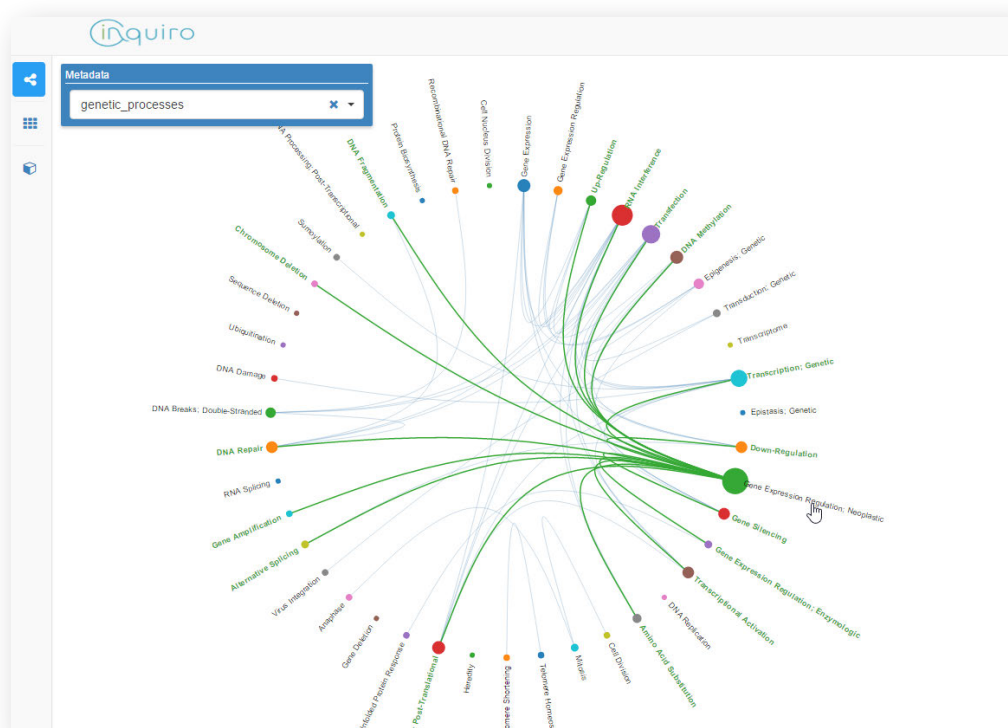
VISUALIZATION: Inquiro features a graphical tool allowing you to view the interactions between metadata and associated files. This gives users a real view of the information assets and lets them identify new paths of research.

COLLABORATION: Inquiro's collaboration tool allows users to define access rights to files and generate lists of documents to share and send to internal and external partners. In addition, Inquiro makes it possible to identify subject-matter experts within your organization, which facilitates interactions among team members.

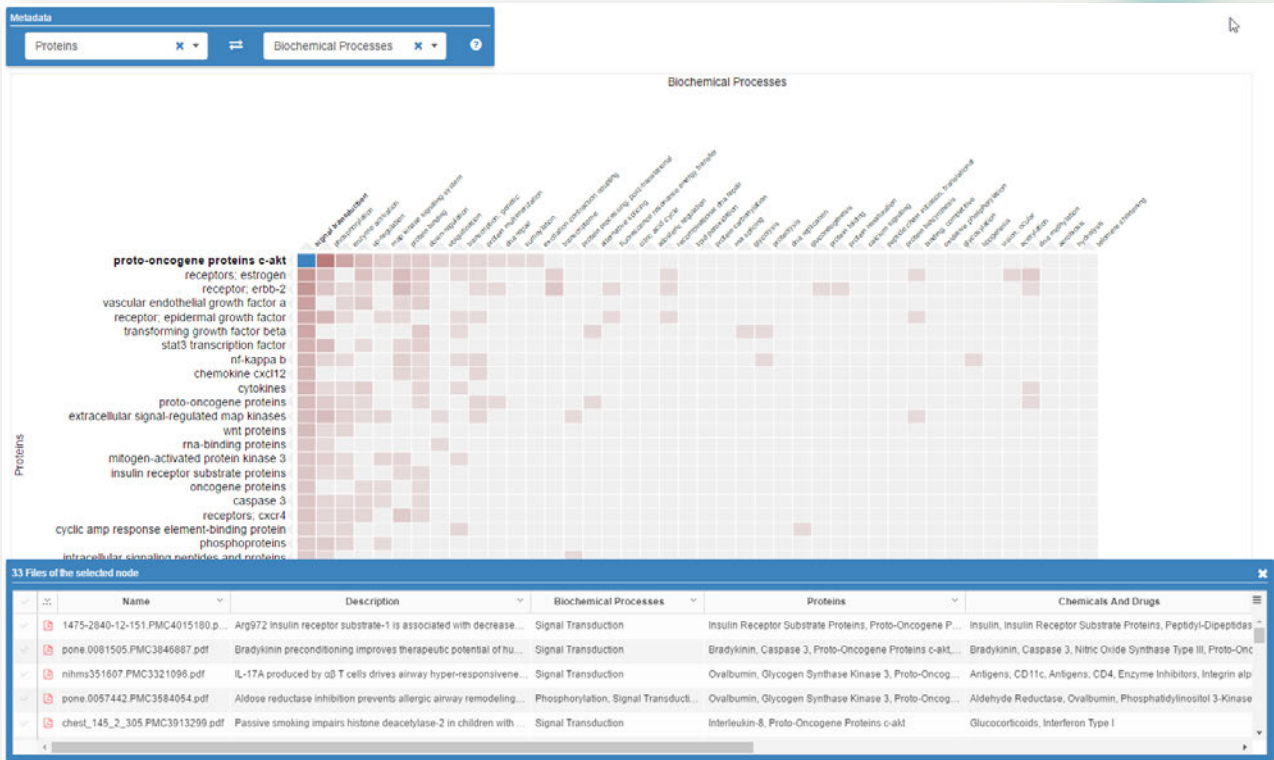
ACCESSIBILITY: Inquiro allows you to assign access rights for specific items or all data. Administrators thus retain control of access and file modification permissions.

INQUIRO, VISUALIZATION TOOL

Inquiro offers various graphical tools to browse your data giving users the confidence to quickly identify data of interest.



Relation Graph: reveals hidden connections between metadata and thus highlights related data.



Heat Map: correlates two metadata like diseases and drugs.

The screenshot shows the Inquire Metadata Browser interface. At the top, there is a search bar and a "Disease drill down" button. Below are four filter panels: "DISEASE_CATEGORY" (with "neoplasms (1035)" selected), "ASSOCIATED_DISEASES" (with "carcinoma; ductal; breast (15)" selected), "ANATOMY" (with "breast (3)" selected), and "CHEMICALS_AND_DRUGS" (with "receptor; erbB-2 (1)" selected). The main area contains a table of search results with columns for Name, Description, File Content, and Chemicals And Drugs.

Name	Description	File Content	Chemicals And Drugs
12253_2012_Article_9500.PMC3342495.p...	Expression of GLUT1 and GLUT3 glucose transporters in endometrial and breast cancers.	Publication	Brea
10549_2011_Article_1946.PMC3397230.p...	Overexpression of a novel cell cycle regulator ecdysonless in breast cancer: a marker o...	Publication	Receptor; ErbB-2 Brea
ijbvs08p0353.PMC3291852.pdf	Comparison of protein expression profiles of different stages of lymph nodes metastasis ...	Publication	Brea

Metadata Browser: creates views based on dynamic metadata filters to browse your data according to subjects of interest.

Inquiro's use cases

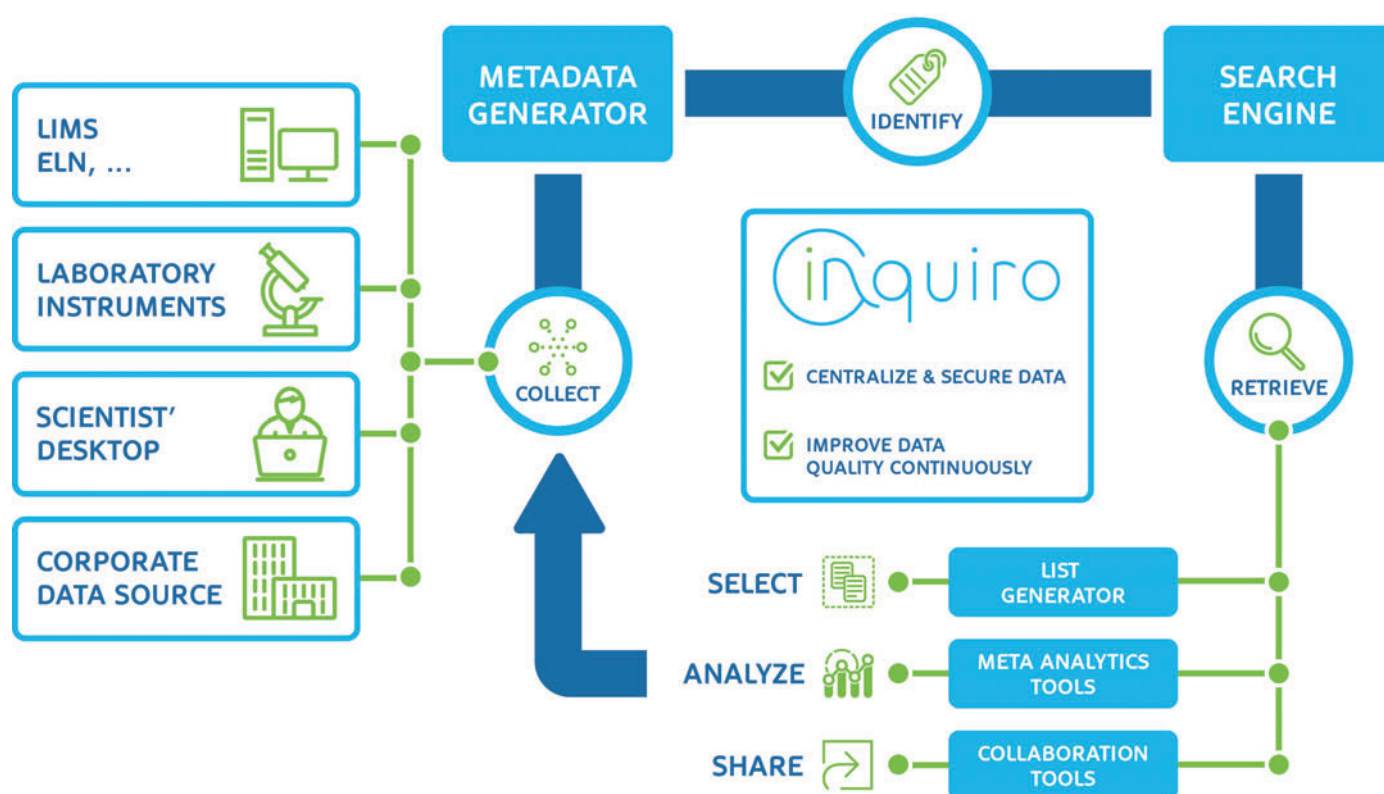
Automating the collection and processing of laboratory data

We enable our customers to automatically collect all data generated within the laboratory, regardless of its source: instruments, storage space, scientists' computers, etc.

By integrating all IT equipment and solutions (ELN, LIMS, etc.), Inquiro creates a central storage space for all data in any format (csv, xls, jpeg, txt files, etc.).

In particular, it automatically associates metadata with each of these files in order to facilitate access via an integrated search engine.

All of the different actions performed on data are recorded in Inquiro, thus ensuring traceability from raw data to final report.



Inquiro's use cases

Data-centered collaborative projects

Within the scope of a translational research project, or a simple internal/external collaborative project, Inquiro makes the necessary data available to all members of a project team without limits to size or format.

The metadata engine facilitates the identification and organization of all files.

Inquiro can even integrate the legal aspects of a collaborative project in the form of metadata, giving each team member access only to the data that he or she is autho-

rized to handle. At the end of the collaboration the metadata will allow each participant to rapidly identify and retrieve his or her data according to the processes put in place at the beginning of the project.

Research, utilization and collaboration functionalities will allow all stakeholders to focus on solving scientific problems without needing to worry about logistics.

Transfer of external data and integration into the company's assets

For several years now, the pharmaceutical industry has been going through a phase of consolidation with mergers and acquisitions among key players that want to strengthen their position.

Mergers and acquisitions are often slowed by the challenge of retrieving and integrating the large quantities of data in their systems. Given the financial stakes, it is essential for these companies to see a return on their investment as quickly as possible. This involves, in particular, capitalizing on the knowledge (research projects, etc.) within acquired companies.

Thanks to its file collection and analysis capacities, Inquiro is the only tool on the market made to expedite the integration of such data. Inquiro will automatically collect files from multiple sources within the acquired company. The

data will then be analyzed by our extraction engine, which identifies the contents of each file and suggests metadata. The data is made available to scientists in real time so they can share information and work together using the new data as quickly as possible. Accelerate the integration of data with Inquiro to drive synergies with your new business partners.



Modern technologies

Industrial grade innovative technologies

Engineering and innovation are extremely important for DEXSTR. Our development team is working to implement the latest technological innovations in the fields of Big Data, machine learning and natural language processing. We have also made it our mission to deliver a reliable and maintainable solution, thus Inquiro uses industrial grade innovative technologies.



- SolR is an open-source, scalable and extensible search engine. It is considered a reference solution used by the most discerning companies.



- MongoDB is a leader in Big Data databases, guaranteed to provide a reliable solution for the storage of large volumes of data.



- AngularJS is an open-source framework for building user-friendly and responsive web applications. Widely used in industry, this technology makes it possible to develop optimized, easy-to-use interfaces that are accessible from any platform or device.

Our team of experts at your side from Day 1

We understand that the success of our solution is based on industry expertise, technical excellence and clear communication.

We provide support from Day 1, offering you our extensive experience managing scientific data in the pharma and biotech industries. Our goal is to help you making the most of your company's potential!



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