

To help make the most of datasets, external collaborators such as business analysts or data scientists can use their different perspectives to extract additional insights from an organization's internal datasets. In many cases, data providers will copy or mirror their data sets to grant external users access to their data. Sending an external party a copy of a dataset greatly increases the risk of a data breach and effectively relinquishes ownership and control of that dataset. The process can also be inefficient especially when only a certain segment of data from the dataset is needed by the external end user.

Bitnobi, Inc. has designed and developed a patented, privacy protected, data sharing platform that alleviates all these issues by providing a solution that allows data providers to share access to data in a secure manner without releasing raw data or making copies of them. Furthermore, the platform enables the data provider to control access to virtualized segments of data so that end users can leverage a preview of data when building a data job instead of acquiring a data provider's entire data set. The end user leverages a simple, easy-to-use interface so that they can build and launch data jobs quickly on the data provider's infrastructure. Bitnobi allows organizations to maintain control of their datasets while enabling safe and secure external data sharing.

## Quick Summary

**Sector:**

Big Data

**Product:**

Big Data access platform

**Global data protection market:**

\$122 Billion (ResearchAndMarkets 2020 report)

**Technology Milestones:**

Version 1 available for demonstration. An external data sharing use case from a UI perspective can be found here: <https://www.bitnobi.com/external-data-sharing-use-case>

Strong customer traction in government & digital health informatics market

**Business Model:**

Enterprise software license fee the is dependent on the number of users and data sources. Additional charges for maintenance and support

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**Features:**

- User attribute-based, dynamic access control for data providers.
- 100% web-based platform.
- Visual workflow interface with python and R scripting capabilities for custom queries to execute sophisticated, mathematical analysis.
- Internal data visualization tools and integration with third party, data analytic tools for advanced visualizations.
- Blockchain-based, data audit log available to data provider at any time.

**Markets:**

- Healthcare (<https://www.cphin.ca/lung-kick-start-program/>)
- Defense ([https://www.prweb.com/releases/tehama\\_bitnobi.htm](https://www.prweb.com/releases/tehama_bitnobi.htm))
- Finance (<https://fintechsandbox.org/startup/bitnobi-inc>)
- Smart City IoT

**Benefits:**

- Mitigate the risk of data breaches in external data sharing by ensuring copies of data are not being distributed, copied, or misused.
- Accelerate and simplify the data transfer process based on data security and data privacy rules that the data provider stipulates.
- Track the usage of both internally and externally shared datasets through the audit log.
- Securely access approved datasets from anywhere.

**Intellectual Property:**

- US9590992 (Grant), US10185773 (Grant), CA2855136 (Grant), "Systems and Methods of Precision Sharing of Big Data", filed on June 23, 2014.
- CA2931041 (Grant), CN10711383, US2018293283, "Systems and Methods of Controlled Sharing of Big Data", filed on November 13, 2015.
- PCT/CA2020/050006, "Distributed Governance for Shared Big Data", priority date is January 10, 2019.

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