# DELHIVECY

**CASE STUDY** 

How Delhivery handles terabytes of logistics data every day with **Atlan** 















Atlan made the most complex data concept, which is data governance, look simple and easy to use.

Because of its intuitive UI, **Delhivery users love to return to Atlan for** any issues they face with metadata.

LOKENDAR REDDY KOYA, SENIOR DATA ANALYST



## "

Our vision is to become the operating system for commerce in India, through a combination of world-class infrastructure and cutting-edge engineering and technology.





## **About Delhivery**

Delhivery is India's largest and fastest-growing fully integrated logistics player. The company has fulfilled over 1 billion orders across India, with a nationwide network that services more than 90% of India.

In 2019, Delhivery was awarded the ET Startup of the Year award for connecting remote corners of India.





Delhivery's massive growth was creating **chaos** for its data users. Its data stack was missing a crucial solution to manage the flood of incoming data.



Delhivery has been growing exponentially and we are generating terabytes of logistics data per day. It's getting very difficult to answer questions about our data.





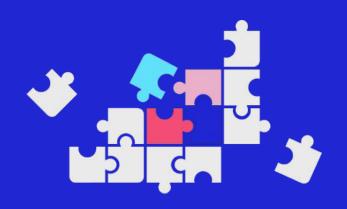


**PostgreSQL** 

Database

Tableau

Business intelligence



## The Problem

# Delhivery's complex web of supply chain data

# Delhivery's microservices architecture created data silos across verticals and bottlenecks for developers.

#### LENGTHY ONBOARDING

New hires took too long to understand Delhivery's data.

"The typical onboarding time was **1-2 months** for new employees to learn about Delhivery. **But it kept taking longer**, around 3-4 months, as we kept expanding."

#### **DIFFICULT DATA DISCOVERY**

Delhivery's many verticals made data difficult to find.

"Our data users needed a discovery tool... a Google-like interface to **effectively discover** data assets and build trust from there."

#### SOLVING FOR DIVERSE USERS

400 people across product and tech relied on data.

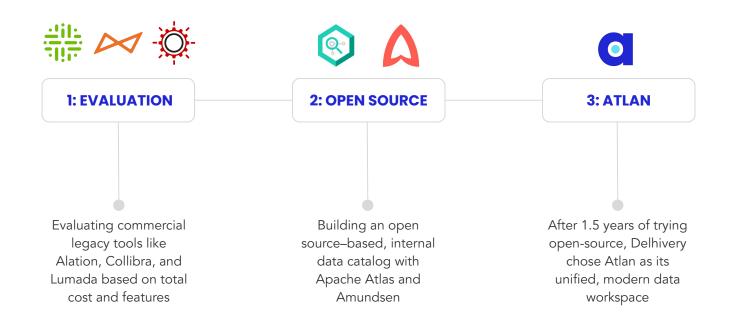
"We want to solve for **product**managers so they can get a feel
of our data, for **data analysts** to
understand how data is structured,
and for **developers** so they can
understand its lineage."





# The Evaluation

Delhivery's search for a modern data discovery solution Delhivery spent **18 months** trying to build an internal catalog on open-source tools. Eventually, it realized that **Atlan would deliver a better solution at a lower cost**.



### **BUILD OR BUY?**

Delhivery began their search a couple years ago by vetting legacy catalogs, but none had the right features at the right price.



**ALATION** 



**COLLIBRA** 



LUMADA



Buying one of these products would have been the simplest fix, but we couldn't find the right solution.

Each one was either **missing**non-negotiable features (such as
seeing a data preview or querying data) or
the total cost of ownership was just
too high for us (due to expensive set-up,
licensing and professional service fees).





**AKASH DEEP VERMA,**Director of Data Engineering

#### **BUILD OR BUY?**

Delhivery asked **2 developers** to spend **7 months** building an open-source, internal data catalog on Apache Atlas. They quickly learned that it was too technical for its diverse data users.



**APACHE ATLAS** 



As we started implementing Apache Atlas, we realised we had a problem. It's great for developers, but it has a steep learning curve for non-technical team members.

Its interface and language was highly technical, which made it **difficult to onboard product managers or operations people** who needed to understand our data.

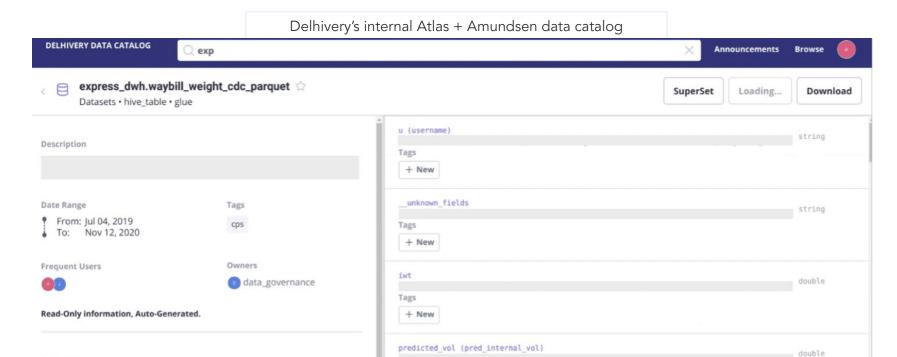




## **BUILD OR BUY?**

To solve the issues with Atlas, Delhivery brought in Amundsen, spent months developing missing features, and finally rolled out its internal data catalog. The problem was, no one wanted to use it.







When we asked people what was missing, they all pointed to the user experience. The catalog didn't integrate into their daily work.

Our solution couldn't win without creating an experience that people wanted to use every day.

**AKASH DEEP VERMA,**Director of Data Engineering



Delhivery needed an intuitive, modern data catalog that people with varying technical skills could use to understand business context.



# Meet atlan

The modern data workspace



INTUITIVE USER EXPERIENCE

**OPEN BY DEFAULT** 

**EXPERT PARTNERS, NOT VENDORS** 

"Atlan not only had all the dream features we were looking for, but the user interface and experience were extremely intuitive. Built around a Google-style search, Atlan is designed to be user-friendly for technical and non-technical users alike."

"We liked that Atlan has a fundamentally open philosophy...
This gave us the ability to customise the product for our end users — bringing together the best of open-source with a polished, off-the-shelf user experience."

"We also decided to go with Atlan because we realised that we needed **a partner who was an expert in data discovery**.

This would let us rely on their expertise as we rolled out Atlan...
We had plenty of our own business problems to tackle."



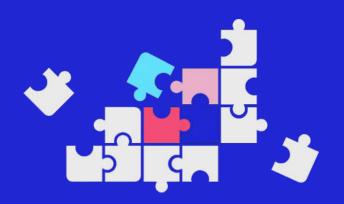


# It would take Delhivery **six or seven people and up to two years** to build what Atlan gave us out of the box.

We needed a solution on day zero, not in a year or two.

**AKASH DEEP VERMA,**Director of Data Engineering





# The Process

# Implementation through gamification

## **IMPLEMENTING ATLAN**

Delhivery used this implementation drive to kickstart a better culture around data documentation and governance.



We need to identify who we define as owners and **make documentation fun** for them. Success will depend on motivation.





**RAJIV DINESH,** Head, Data Products

## **Problem:** Identifying assets & owners

Delhivery's multiple verticals meant they had many different assets to catalog, with **each team owning different assets informally**.

They needed to prioritize the most important assets, and incentivize people to take ownership of those data assets.

# **Solution:** Auto-assigning assets based on daily usage

Assets were prioritized based on how frequently they were used. Then, **using query log history and business metadata**, each asset was assigned to the person - a contributor - who queried it most frequently. They could vote to stay as the contributor, add co-contributors, or reassign the asset.



# Atlan made cataloging fun at Delhivery by organizing a **4-week long gamification drive** filled with memes, messages, and prizes.

## **THE RULES**

- The team that verifies the most tables wins!
- A table is considered verified if 80% of columns are documented and descriptions have been added.
- Scores are normalized by dividing the total points by the number of people on the team.

## THE SCORING SYSTEM

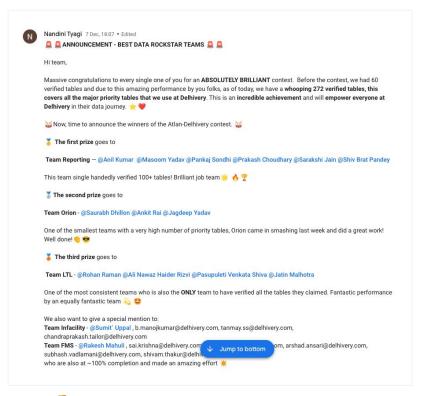
1,000 points per verified table100 points per table description10 points per column description

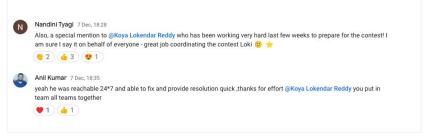
## **BONUS POINTS**

10 points per table classification10 points per linked glossary

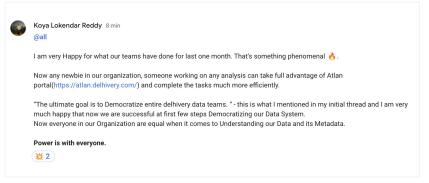


# Messages, memes, and prizes: the method to motivation





Recognizing the person behind this drive at Delhivery



Delhivery's senior data analyst congratulating the team

### **RESULTS**

The gamification drive resulted in a massive culture shift at Delhivery, saving time for data users across the company.



The Atlan team was very active and responsive to the challenges I faced. The gamification drive got an incredible response!





250% increase in documentation.

From 60 to 210+ verified tables... and counting!

**53%** users reported saving time with Atlan.

Of all the users who said they saved time with Atlan, about 70% have been at Delhivery for less than a year.

44% users said Atlan helped them find the best person to talk to about their data.



All data leaders out there must understand the value Atlan adds to an organization in terms of data governance.

It's a tool where you can **collaborate**, **discuss**, **organize metadata**, **and speed up the process of understanding business context**.

LOKENDAR REDDY KOYA, Senior Data Analyst



Learn how your data teams can do their lives' best work at **atlan.com** 

**SEE A DEMO** 











