

The logo for ZONTAL features a thick green horizontal line on the left that ends in a small green square. To the right of this line, the word "ZONTAL" is written in a bold, dark grey, sans-serif font. The letter "Z" is stylized with a horizontal bar that extends to the left, overlapping the green line. The word "ZONTAL" is followed by a small green square on the right.

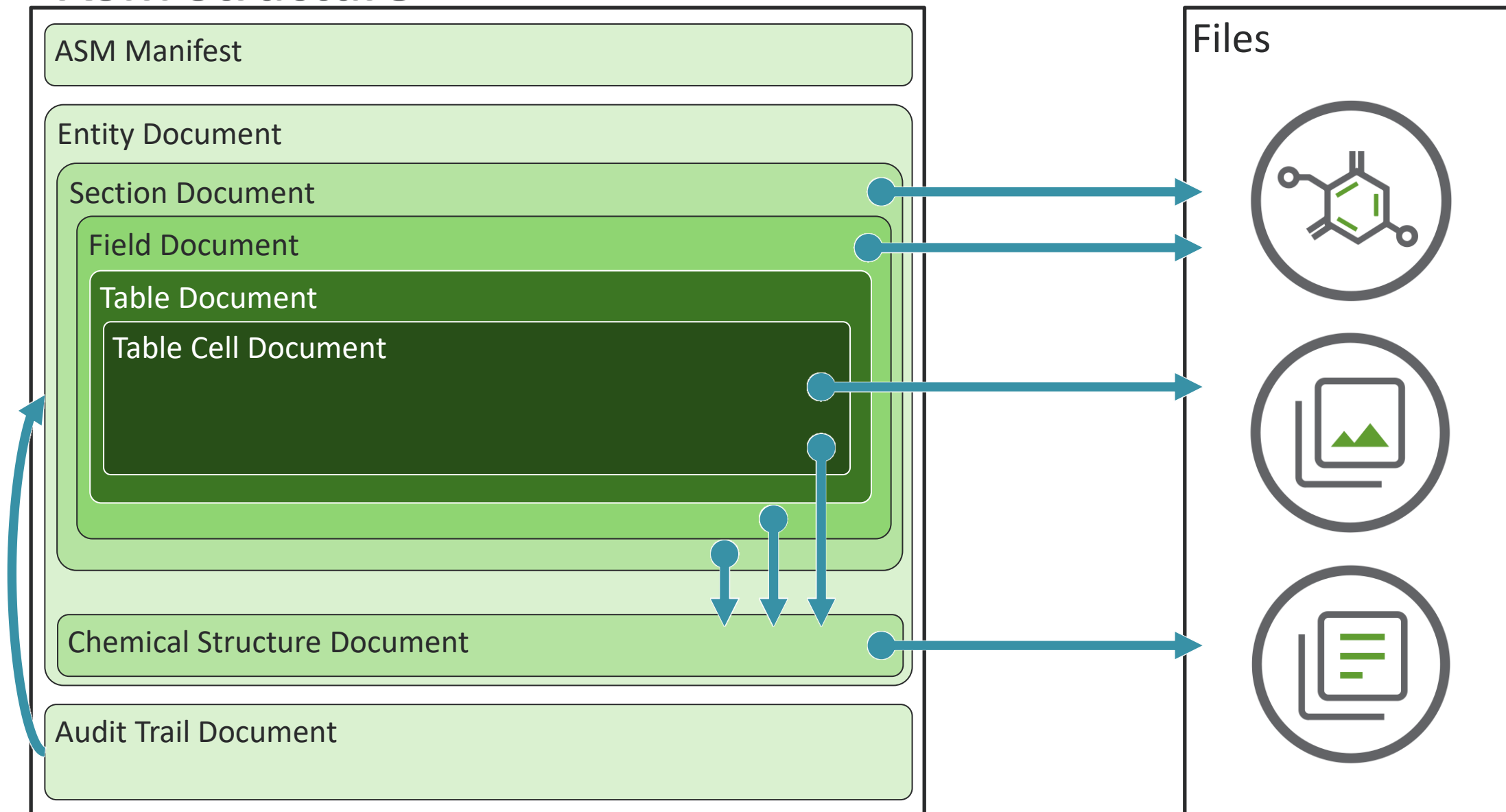
Turn Data into Corporate Assets.

Make Data Available for Reuse.

Secure Compliance and Data Integrity.

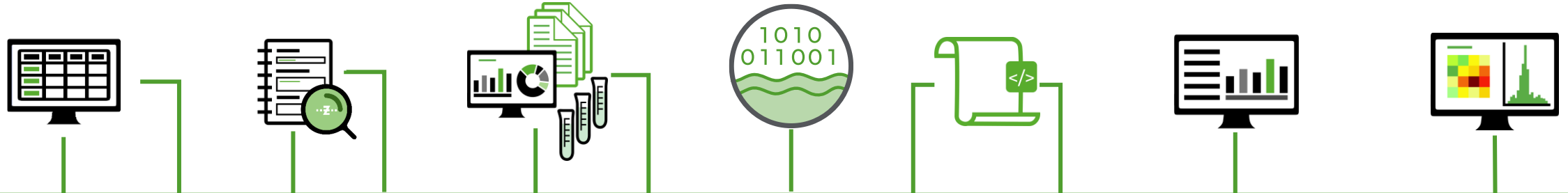
Electronic Laboratory Notebook Archiving Enabled by ASM Format and Beyond

ASM Structure



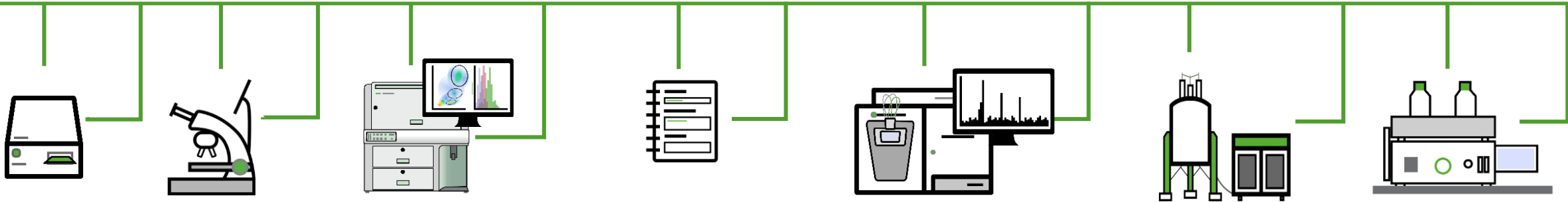
ZONTAL's Platform Digital Transformation of the Lab

Data Consumers



FAIR DATA

ZONTAL



Data Producers

ELN Data in the ZONTAL Platform

Data Consumers

Universal Experiment & Data Viewer



Legal & Regulatory Reporting



Enterprise Search



Data Lake



APIs

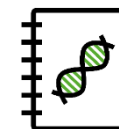
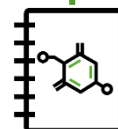
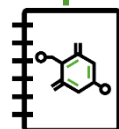


Data Analysis & Dashboards



FAIR DATA

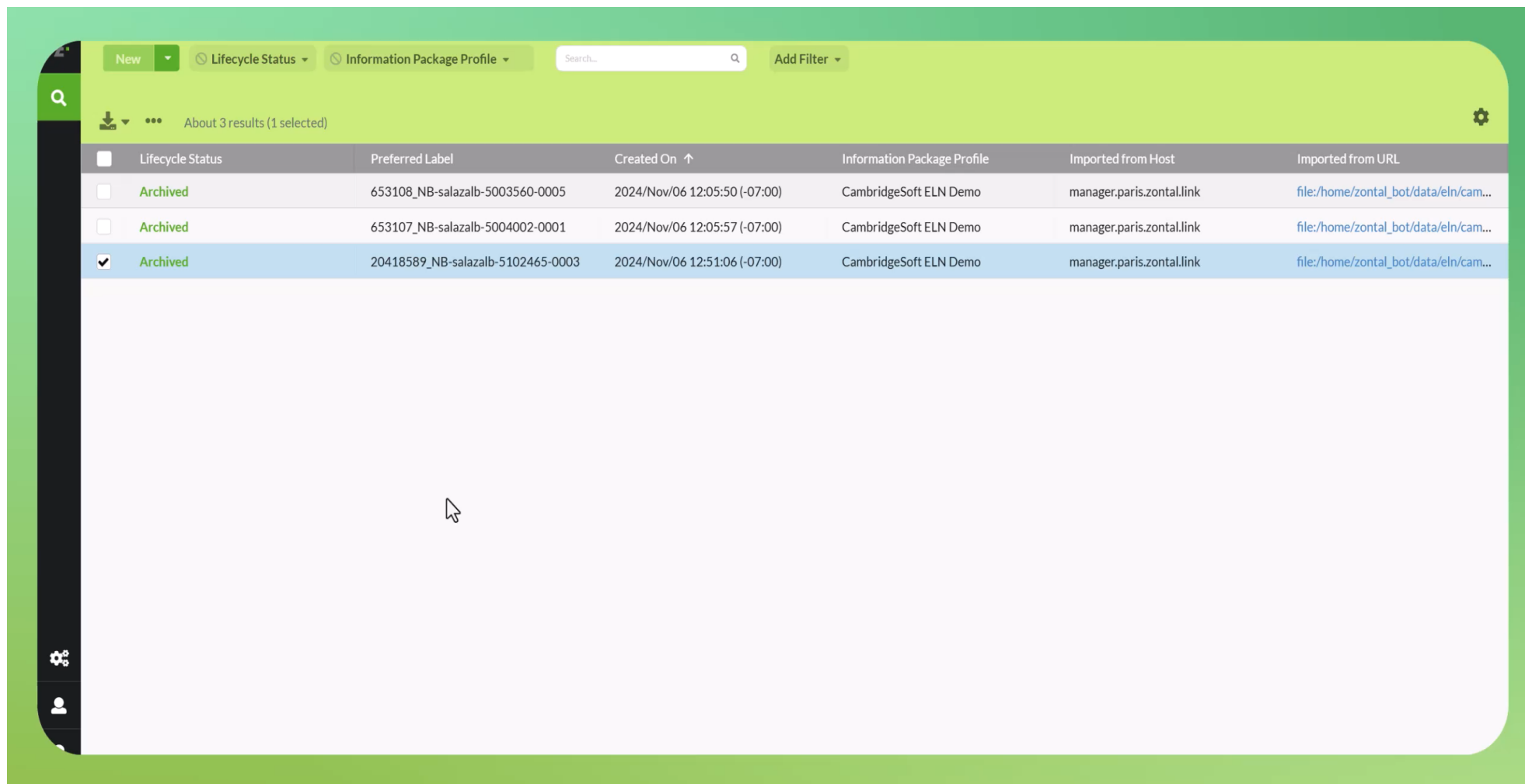
ZONTAL



Data Producers

ELN Archive Viewer Demo

Chemistry and Bioassay Experiments



The screenshot displays the ELN Archive Viewer interface. At the top, there is a navigation bar with a 'New' dropdown, 'Lifecycle Status' and 'Information Package Profile' filters, a search bar, and an 'Add Filter' dropdown. Below this, a toolbar shows a download icon, a menu icon, and the text 'About 3 results (1 selected)'. The main content is a table with the following columns: Lifecycle Status, Preferred Label, Created On (sorted ascending), Information Package Profile, Imported from Host, and Imported from URL. Three rows are visible, all with 'Archived' status. The third row is selected.

| <input type="checkbox"/> | Lifecycle Status | Preferred Label | Created On ↑ | Information Package Profile | Imported from Host | Imported from URL |
|-------------------------------------|------------------|-----------------------------------|-------------------------------|-----------------------------|---------------------------|---------------------------------------|
| <input type="checkbox"/> | Archived | 653108_NB-salazalb-5003560-0005 | 2024/Nov/06 12:05:50 (-07:00) | CambridgeSoft ELN Demo | manager.paris.zontal.link | file:/home/zontal_bot/data/elN/cam... |
| <input type="checkbox"/> | Archived | 653107_NB-salazalb-5004002-0001 | 2024/Nov/06 12:05:57 (-07:00) | CambridgeSoft ELN Demo | manager.paris.zontal.link | file:/home/zontal_bot/data/elN/cam... |
| <input checked="" type="checkbox"/> | Archived | 20418589_NB-salazalb-5102465-0003 | 2024/Nov/06 12:51:06 (-07:00) | CambridgeSoft ELN Demo | manager.paris.zontal.link | file:/home/zontal_bot/data/elN/cam... |

Extracting New Insights from Archived Data

Problems and Solutions

- Problem: Finding relevant information – and extracting insights – from a sea of data
 - ELN Archive Data can be messy and unstructured.
 - Searchable metadata may not contain desired information
- Solution: An LLM-based Insights Assistant that understands your ELN data
 - Uses RAG to intelligently respond to user questions
 - Finds relevant information packages
 - Creates summary reports
 - Understands company-specific jargon

ZONTAL's Platform Digital Transformation of the Lab

Data Consumers

ELN Insights Assistant



Universal Data Viewer



Legal & Regulatory Reporting



Enterprise Search



Data Lake



APIs

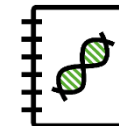
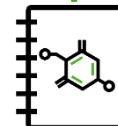
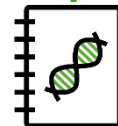
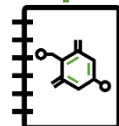
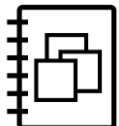


Data Analysis & Dashboards



FAIR DATA

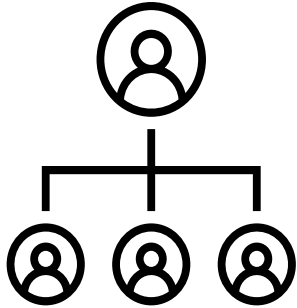
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Data Producers

Who benefits from the ZONTAL Insights Assistant?

Manager



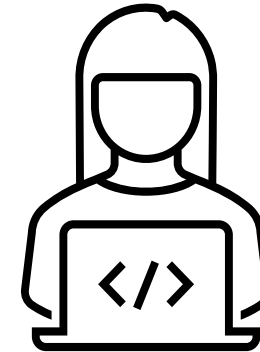
- What are the types of experiments that have been performed?
- Which scientists conducted experiment *X*?

Scientist



- Can you summarize the results of experiment *X*?
- What are the sample IDs in the ELN?

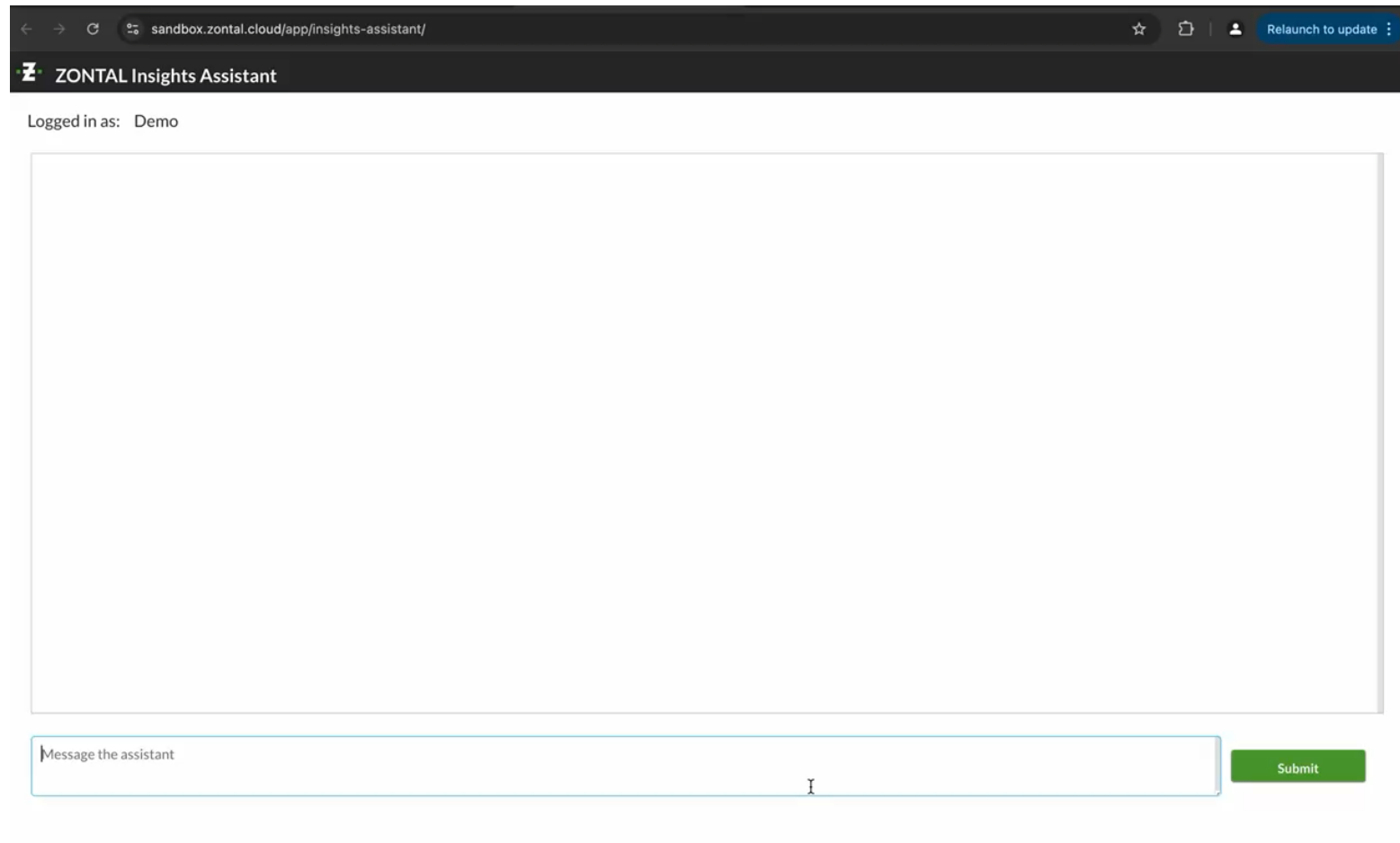
Data Scientist



- What are the potential features and labels we could use to develop predictive models?
- Are there nan values present in the data? Which files contain nan values?

Insights Assistant Demo

ZONTAL demo platform, synthetic dataset



Takeaways

ASM is the future of archival ELN

- ASM for ELN data
 - Move data out of silos + reduce archival costs
 - Targeting Q1 2025 release
- ZONTAL's ELN Archive Solution
 - Ready to deploy to your environment
 - Streamline the ELN archival process
- ZONTAL Insights Assistant
 - Generative AI that understands your data
 - New insights from old data

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