

# CAMBRIDGE SEMANTICS

A Semantic Layer for Hadoop

## WE CAN HELP YOU IF...

Your Hadoop investment has not returned maximum business value.

The organization of your growing Hadoop Data Lake is difficult to maintain and is starting to result in a "Data Swamp."

Your users cannot easily access data from Hadoop.

Your data is ingested into Hadoop but is not connected.

You have to write custom code and build point solutions to work with your data in Hadoop.

WORK **SMARTER, NOT HARDER**, AT UNLOCKING THE VALUE OF YOUR HADOOP INVESTMENT

### PROBLEM

Ingesting data into Hadoop is relatively straightforward - allowing enterprises to colocate their information assets within a low cost compute and storage environment. However, connecting and translating those assets into valuable business insights has proven to be difficult and costly - until now.

### SOLUTION

Our 'Semantic Layer for Hadoop' offering delivers business users immediate value and insight. Anzo Smart Data Lake (ASDL) creates a semantic layer that connects all data in your Hadoop repository, making data readily accessible to business users in the terms driving their business activities. Users can access data without specialized skill sets and without compromising on which ideas to explore for insights.

### HOW WE DO IT

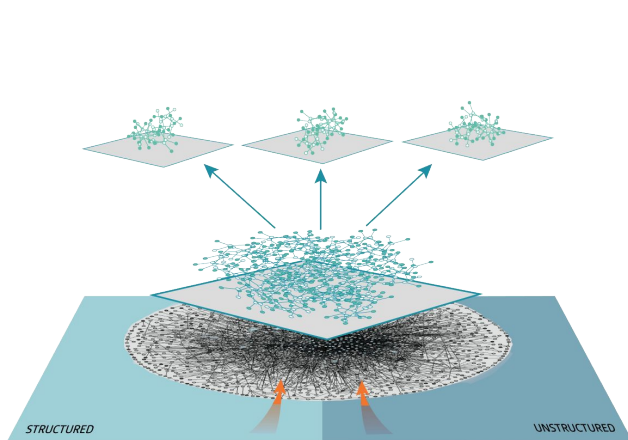
Anzo Smart Data Lake will be installed on an edge node in your Hadoop environment. From there we will create graph models to both represent your data as it is in Hadoop today, and how you would most optimally present it to users. We will define and execute transformations between the models, which can be run in Apache Spark to target your existing Hadoop storage including Hive. In addition, ASDL can materialize graph data for further transformation in "data layers" with our in-memory MPP Graph Query Engine. This set of models and transformations is what makes up your semantic layer and is stored and secured in ASDL's catalog. Once in-memory, the graph data is immediately available for analytics and access.

Want to learn more?

**Info@  
Cambridge  
Semantics.com**



# Anzo Smart Data Lake: How it works



1. We install ASDL in your on-prem or cloud Hadoop environment and survey your Hadoop data assets.
2. We establish target graph models which can be accelerated by using existing logical models.
3. We configure mappings into Hive or other structured formats in Hadoop as well as user defined and automated mappings for transformation into a graph model.
4. Lastly, we configure an in-memory query engine cluster for data layers that will clean and prepare data for analytics.

## Providing your organization with:

- A clear understanding of the value of a Semantic Layer.
- A working ASDL instance in your environment.
- A proof of value for your Hadoop investment.

## While delivering:

- Project management, technical oversight, training and knowledge transfer for your technical teams and users.
- A forward-looking roadmap and engagement summary presentation outlining achievements.

## Want to see value in 10 weeks?

[Info@CambridgeSemantics.com](mailto:Info@CambridgeSemantics.com) or [CambridgeSemantics.com](http://CambridgeSemantics.com)



Cambridge Semantics is a big data management and enterprise analytics software company that offers a universal semantic layer to connect and bring meaning to all enterprise data.