

# Ad Measurement

From Impressions to Attribution



2023

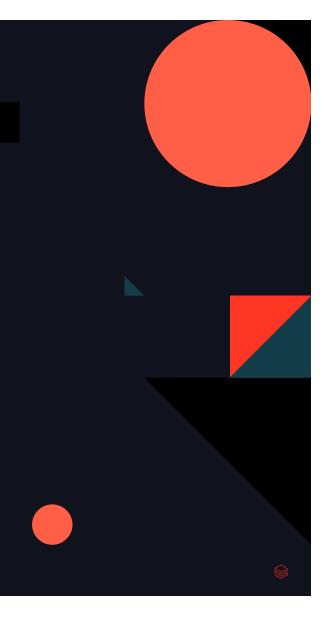
# Today's Speakers



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DEREK SUGDEN Ad Measurement Lead, Measurement & Attribution



# Effectv: Who We Are





### Effectv's Custom Ad Solutions Help Businesses Reach Potential Customers



Effectv is an audience delivery company that combines the best of digital with the power of TV

#### Our Approach

#### Find

We identify the right audiences for an advertiser's business and use data insights to find matching households

#### Target

We plan effective campaigns to reach audiences during any content they watch

#### Report

We show transparent, easy-to-read performance results that help optimize future campaigns

#### Prove

We correlate campaigns to business results, so advertisers can be confident their campaign is working

### Our Teams' Focus...

#### From Impressions to Attribution



#### Impressions

- Household level data
- Number of exposures
- Timestamp of exposure
- Dimensions: Product, Geography, Network, Creative, etc.

#### **Conversions**

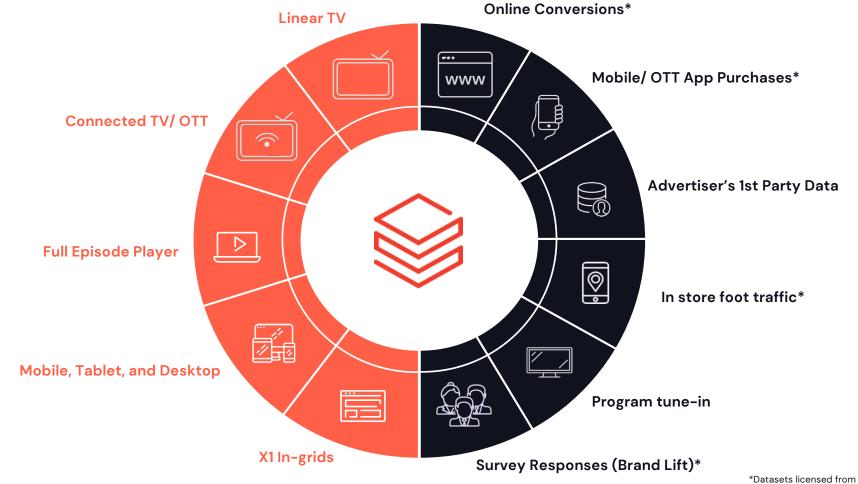
- Household level data
- Type of conversion
- Timestamp of conversion
- Dimensions (data source specific)

#### **Attribution**

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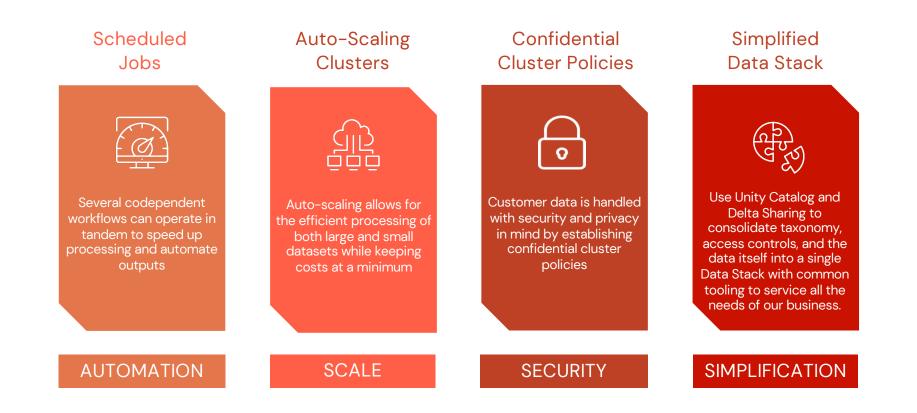
- Multi-touch modeling/ customer journey
- Total attributed conversions for a given lookback window
- Number of converting households
- Conversion rates
- Lift metrics
- Cost per acquisition
- ROI

#### Tying Ad Exposures to Business Related Outcomes effectv



**BUSINESS OUTCOMES** 

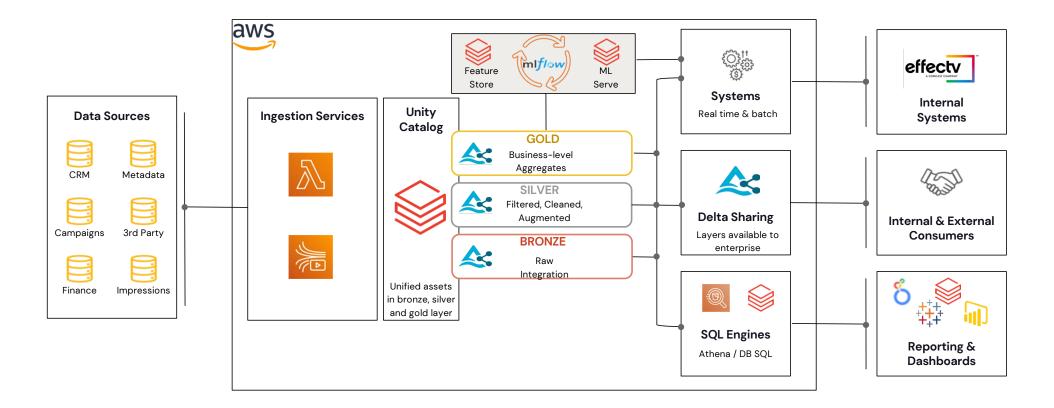
### Core Databricks Capabilities Used In Our Process



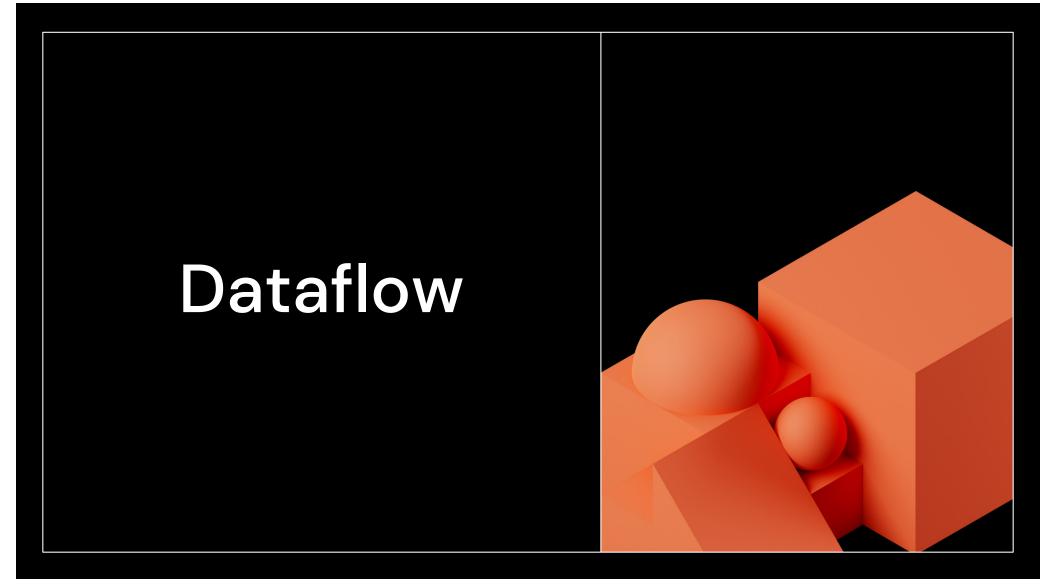
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### **Effectv Data Stack**

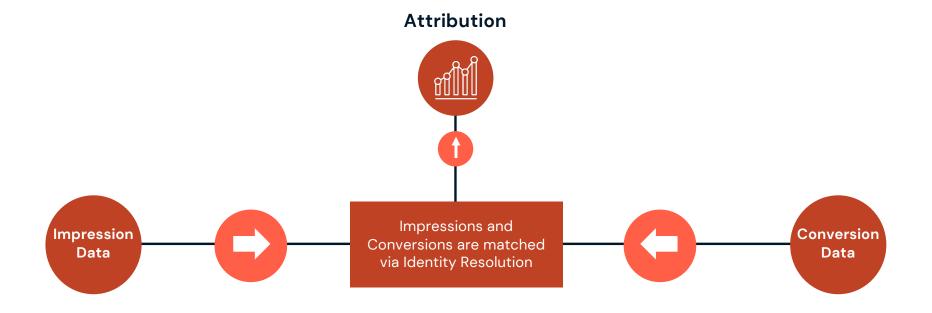
#### Enabling an analytics platform with Databricks





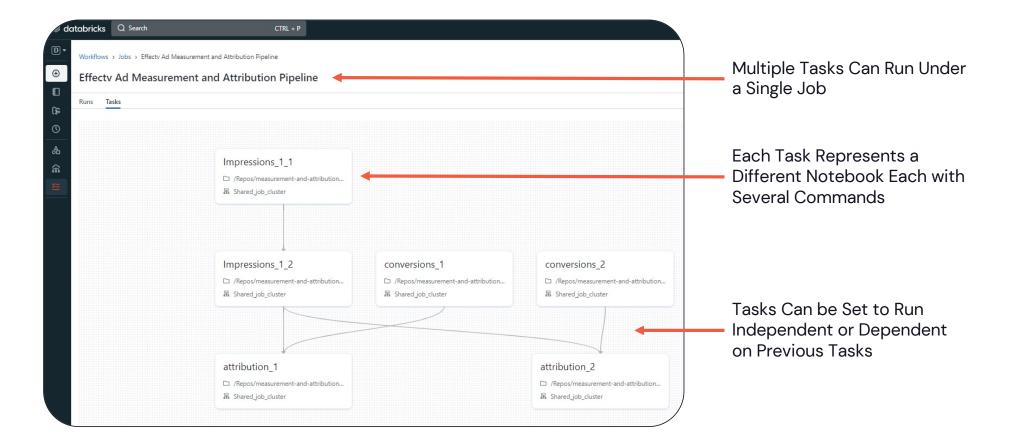


### An Overview of Our Attribution Pipeline



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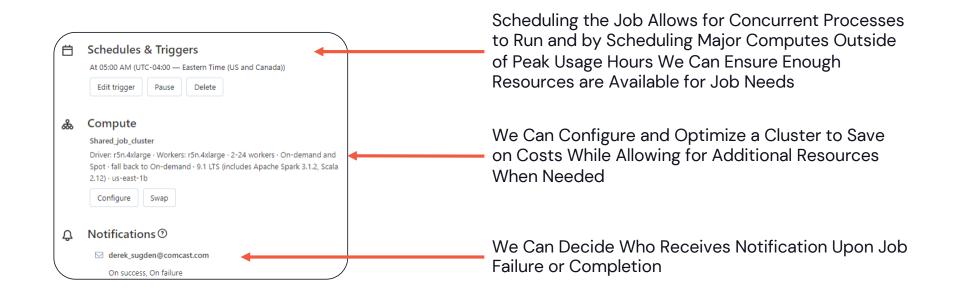
### **Our Attribution Pipeline in Databricks**





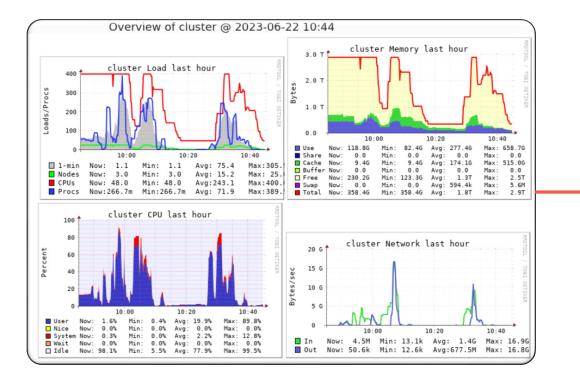
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### Simplifying Automation With Scheduled Jobs and Auto-Scaling Clusters



### Monitor and Adjust Workflows As Needed

By tracking the metrics for a job run, we've been able to fine-tune our notebooks and cluster policy to allow auto-scaling to work at its best.



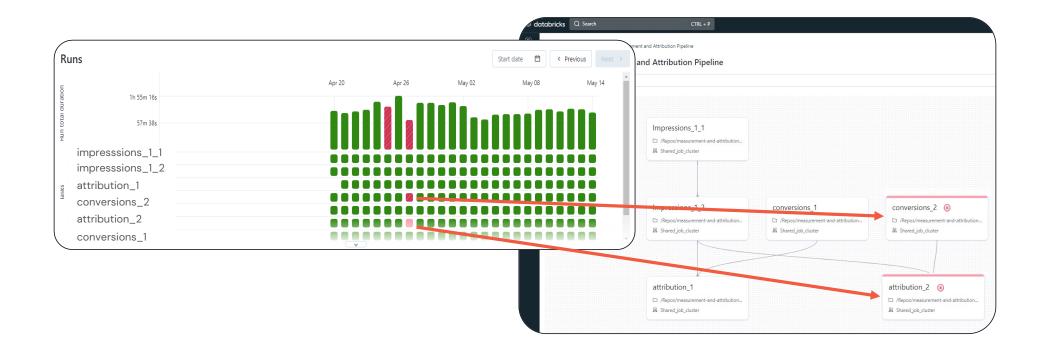




### Realtime Feedback and Performance Over-Time



By monitoring when and where jobs fail, we can quickly diagnose and fix pipeline issues to prevent future job failures.



### The Use of Confidential Cluster Policies





#### STEP 1: On AWS IAM Role

- We created a new IAM role with limited or otherwise confidential access to sensitive datasets. Privileges to use this role is limited to select users.
- An instance profile is created off of this role.



#### STEP 2: On Databricks

- Add the instance profile created above in Databricks > Admin > Instance Profile.
- Create a new cluster via a previously established cluster policy linked to the instance profile.
- Limit access to the cluster to specific users via defining confidential user group.

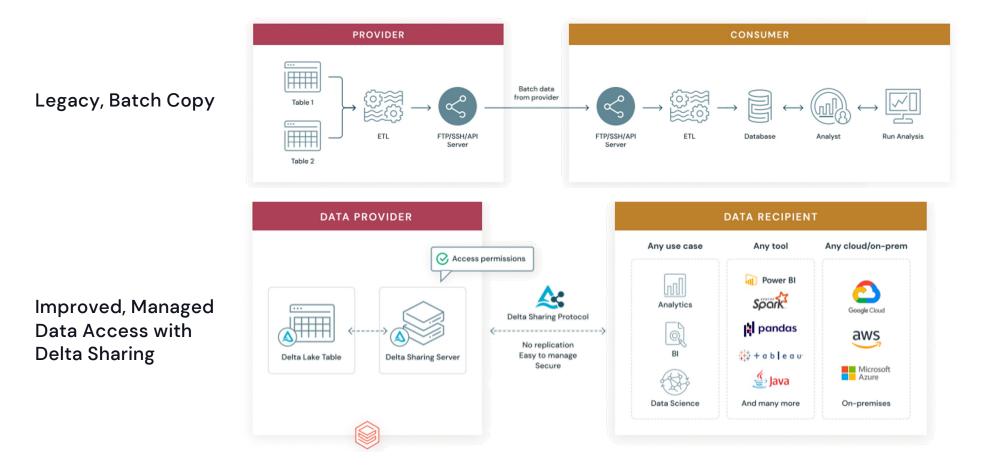
### These steps ensure

### 1. Locked Down Access in AWS

2. Locked Down Access to Processing of Data in Databricks

### Delta Sharing Empowers Other Technical Teams





## Results: Tying It All Together



### **Self-Serve Analytics**

#### Integration With Reporting Tools (e.g. Looker)



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- Filter Functionality
- Campaign Level Reporting with Dimensional Breakouts
- Campaign Performance Over Time
- Incremental Lift Insights
- Multi-Tactic insights

### Why This Is So Important To Our Business...



**Understand Behavior without Sacrificing Privacy** 



Simplify Cross Platform Reporting



**Deeper Insights from Attribution** 



Speed to Market with Industry Leading Knowledge



