

The Hidden Cost of Data in Salesforce

Tahsin Zulkarnine | NTT Data



Toronto, Ontario • May 11-12, 2026



Reservation at Global Scale

- A global reservation platform
- Millions of travelers booking across multiple brands
- Data Cloud chosen to unify and activate reservation data
- Two months in **90%** of Annual Data

Budget Depleted!!!





Tahsin Zulkarnine

Sr. Digital Solution Architect,
NTT Data

tahsinz@gmail.com

tahsin.zulkarnine@nttdata.com

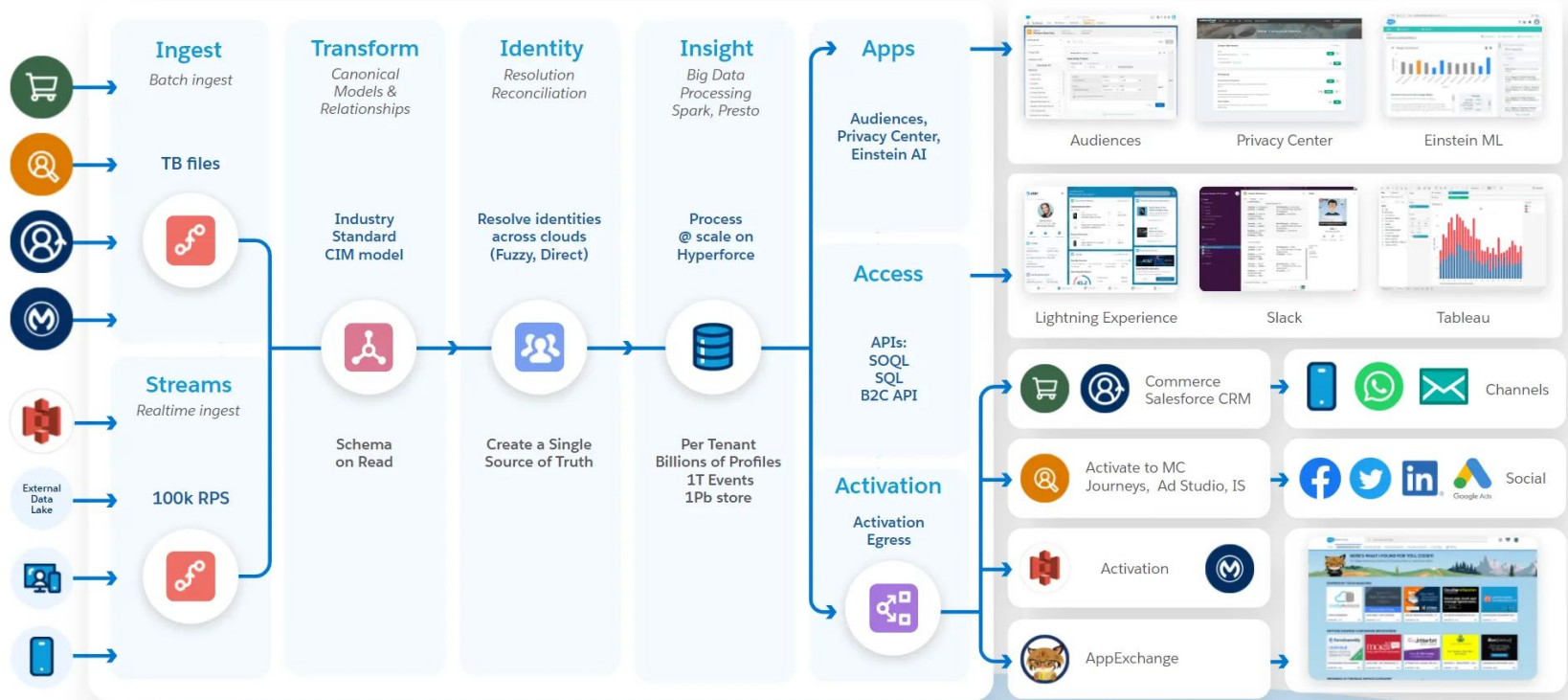
Agenda

- 01 / How Data 360 Cost Works 2'
- 02 / The Hidden Drivers of Spend 4'
- 03 / Eliminating Unnecessary Cost 3'
- 04 / Design Decision That drives Cost 5'
- 05 / Governance to ROI 3'
- 06 / Q&A 3'

CDP - Data drives value



Data Velocity Data Variety Data Veracity Data Volume Data Value



How Data 360 Consumption Is Calculated



#	Operation	Units of Measure	Credits *	Description/Notes
1	Data Ingestion	1M rows processed	~ 2,000 credits	Ingesting structured records into Data Cloud
2	Data Transforms	1M rows processed	~ 400 credits	Transforming / harmonizing data within Data Cloud
3	Segment	1M rows processed	~ 20 credits	When building a segment, data is scanned / filtered
4	Activation	1M rows processed	~ 10 credits	Activating a segment (pushing data / making it available)
5	Query	1M rows processed	~ 2 credits	Query processing / analytics scans
6	Streaming	1M events	~ 800 credits	When using real-time or streaming pipelines
7	Calculated Insights (CI)	1M rows processed	10 credits	Executes aggregations or logic across Data Cloud Objects

*Credit Multiplier termed in public available rates



Estimated Cost Models

What Data 360 Can Cost at Scale

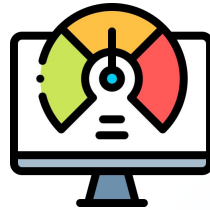
salesforce

Low Consumption



- Batch-oriented workloads
- Limited real-time queries
- Simple segmentation
- Smaller customer datasets
- **Low six figures annually**

Medium Consumption



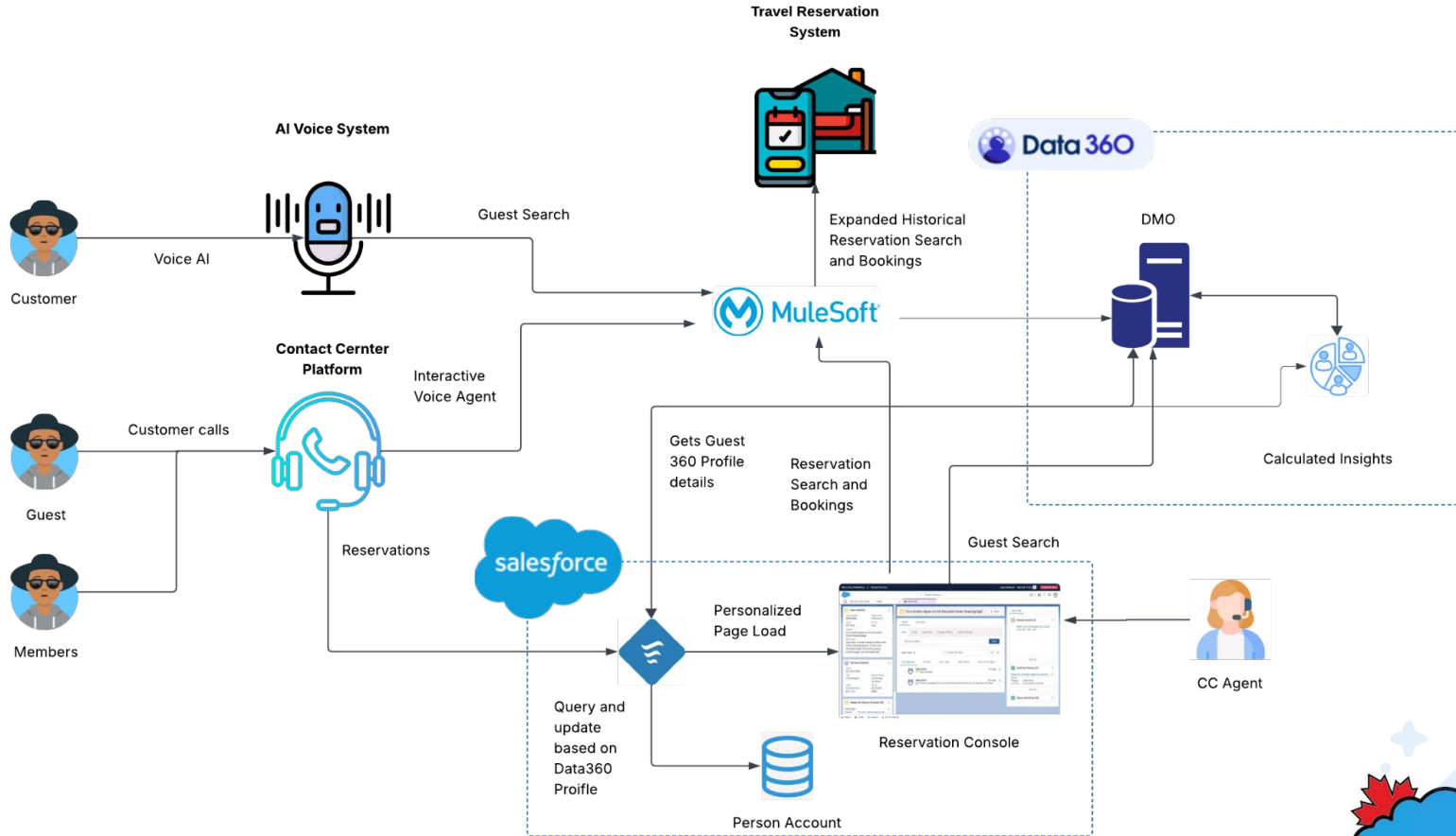
- Multi-channel customer interactions
- Moderate real-time usage
- Frequent profile lookups
- Multiple integrations
- **Mid six to low seven figures annually**

High Consumption



- High-frequency real-time queries
- Voice AI / contact center integrations
- Large-scale profile access
- Complex processing workloads
- **Multi-million dollar annual range**

Use Case: A High-Frequency Reservation System





Production Consumption Trend

Illustrative trend of daily credit consumption across key phases



Query Consumption

● 90%
of total consumption



Data Transform

● 4% – 5%
of total consumption



Profile Unification

● 1% – 3%
of total consumption



Data Ingestion

● 1% – 2%
of total consumption



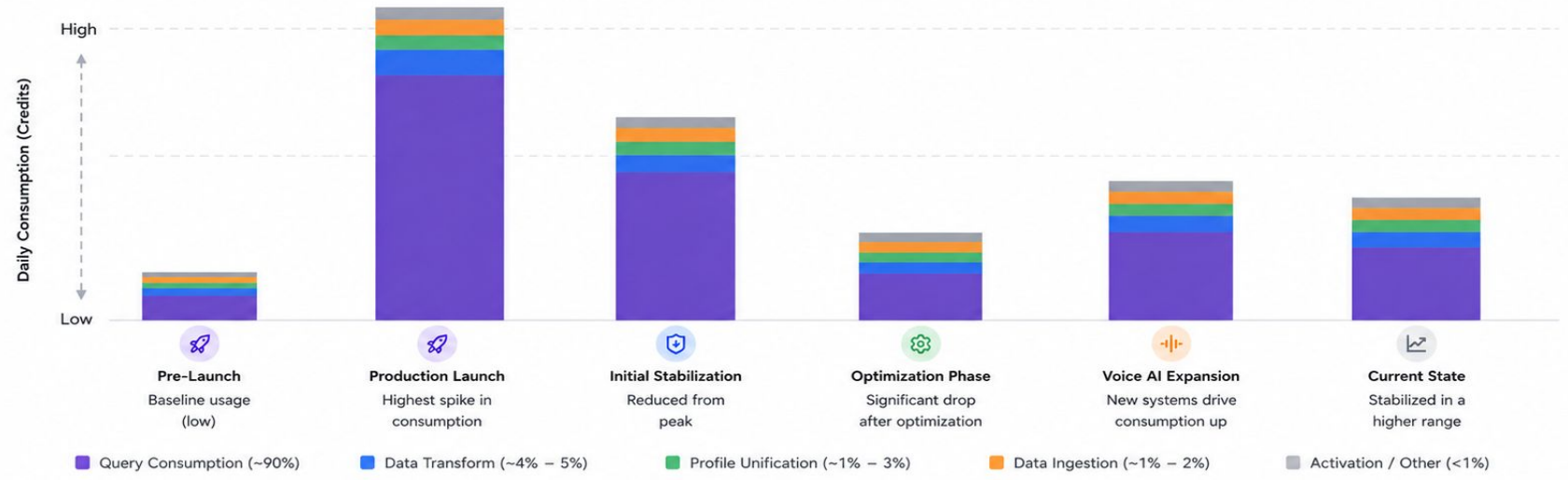
Activation / Other

● 1%
of total consumption

Daily Credit Consumption (Illustrative)

Stacked by usage type

Show breakdown



The Hidden Drivers of Spend

Broad Searches



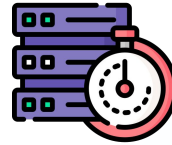
Fuzzy Matching. Large Scans. Low Selectivity

Inefficient Queries



Duplicate Lookups.
Repeated Fetches.
Excessive Refreshes

Real-time Overuse



Always on Processing.
Live Calculations.
Frequent Triggers

Poor Data Efficiency



Incomplete Fields.
Redundant Attributes

Cost Optimization Levers

Scan Reduction



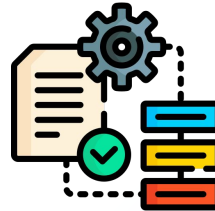
Reduce Full table scan.
Secondary Indexes

Query Precision



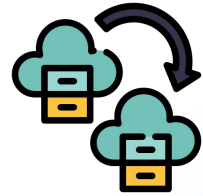
Exact Matching. Field
Normalization.
Cardinality Optimization

Execution Control



Lazy Loading.
Precomputation. Call
Reduction

Workload Shift



Query Consolidation
Non-critical Workload
to Off-platform

Optimization Has Limits

Why Optimization Isn't Enough



What Optimization Improves

Query Efficiency

- Faster Execution
- Lower Scan Volume
- Improved Filtering

Performance Gains

- Reduced Latency
- Better Response Times
- Incremental Savings

What Optimization Doesn't Solve

Scaling Challenges

- High Query Frequency
- Real-Time Dependency
- Repeated Interactions

Structural Limitations

- Consumption Still Scales
- Cost Pressure Returns
- Platform Dependency Remains

Modernization Strategies



#	Options	Details	Pros	Cons	Recommendation
1	Databricks-Centric Architecture	<ul style="list-style-type: none">• Sources → Databricks (standardization, cleanup and enrichment)• Curated data → Data 360 (unify profiles)• Unified data → back to Databricks (query/analytics)• Downstream systems query → Databricks	<ul style="list-style-type: none">• Reduces significant query-driven load• Handles large joins & transformations efficiently• Scales beyond Data Cloud limits• Enables more systems to consume Data 360 without increased query cost	<ul style="list-style-type: none">• Additional Databricks and Mulesoft cost• Integration complexity (bi-directional flow)• Cross-platform governance	
2	Hybrid Model	<ul style="list-style-type: none">• Hot data → Data Cloud• Cold data → Databricks• Queries split across both (80/20 Rule)	<ul style="list-style-type: none">• Partial load reduction• Keeps real-time access	<ul style="list-style-type: none">• Query-heavy patterns remain• Complex routing logic• Limited cost savings	
3	Service Cloud-Based	<ul style="list-style-type: none">• Store key attributes in Person Account• Periodic sync from Data Cloud• UI served from Service Cloud	<ul style="list-style-type: none">• Faster UI response• Fewer real-time queries (partial)	<ul style="list-style-type: none">• Data duplication and sync overhead• Limited scalability• Still depends on Data Cloud Processing	

What Scales Better

Recommended Direction



High Consumption Model

Data Cloud Handles

- Real-time lookups
- Heavy query execution
- Complex processing
- High-frequency interactions

Result

- Multi-million dollar annual consumption profile

Modernized Consumption Model

Data Cloud Focuses On

- Identity resolution
- Customer segmentation
- Activation workflows

External Systems Handle

- Heavy processing
- Frequent queries
- Complex computations

Result

- Consumption profile reduced significantly

Business Impact and ROI

Consumption Reduction



40-70% Reduction

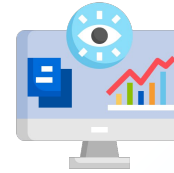
Lower Query Volume
Reduced Processing Load

Architectural Efficiency



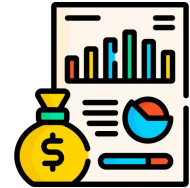
Distributed Workloads
Predictable Scaling
Reduced Platform Dependency

Performance Improvements



Faster Response Times
Lower Processing Latency
Improved System Scalability

Financial Impact



Seven-Figure Savings

Lower Consumption Tier
Reduced Annual Spend

Key Takeaways

High interaction frequency drives consumption growth

Real-world usage changes cost behavior

Architecture redesign unlocks significant savings

Strategic workload shift reduce annual spend

Consumption visibility drives long-term savings



Q & A