



# Agenda

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- Introductions
- Current SITSD Operations
- Chief Data Office
- Data Collection / 100% Digital Challenge
- Q&A

# Introductions

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- Adam Carpenter, Chief Data Officer
- Kevin Gilbertson, Chief Information Officer

# Current SITSD Operations

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- State Data Center/Network
  - State Data Center - Service Provider Only
  - Data Owned by Agencies by Statute
- Chief Information Security Office
  - Security Governance
  - Security Training & Certifications

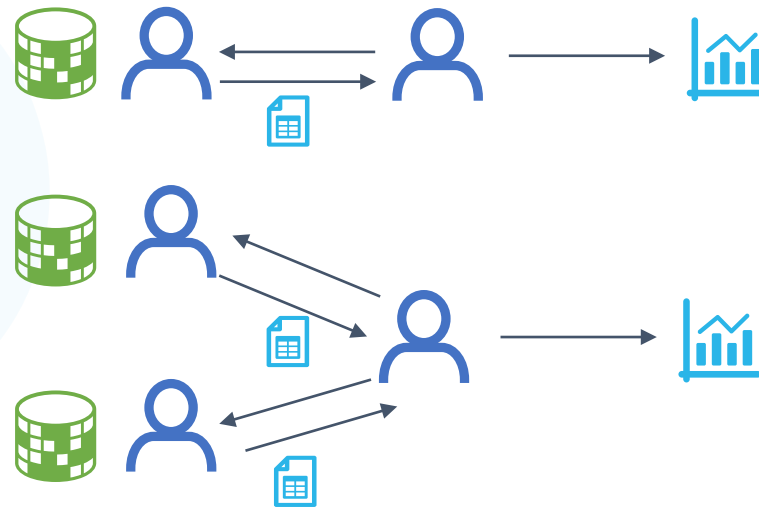
## Does Not Include Justice Data

- Partner with Department of Justice (As needed)
- Fort Harrison

# CURRENT STATE OF THE STATE

## Challenges

- Data scattered across many systems that don't connect to each other
- Data is sitting in application databases that are not built for reporting
- Agencies are siloed and the data sharing process is onerous
- Many processes within the state are still on paper
- No centralized data governance

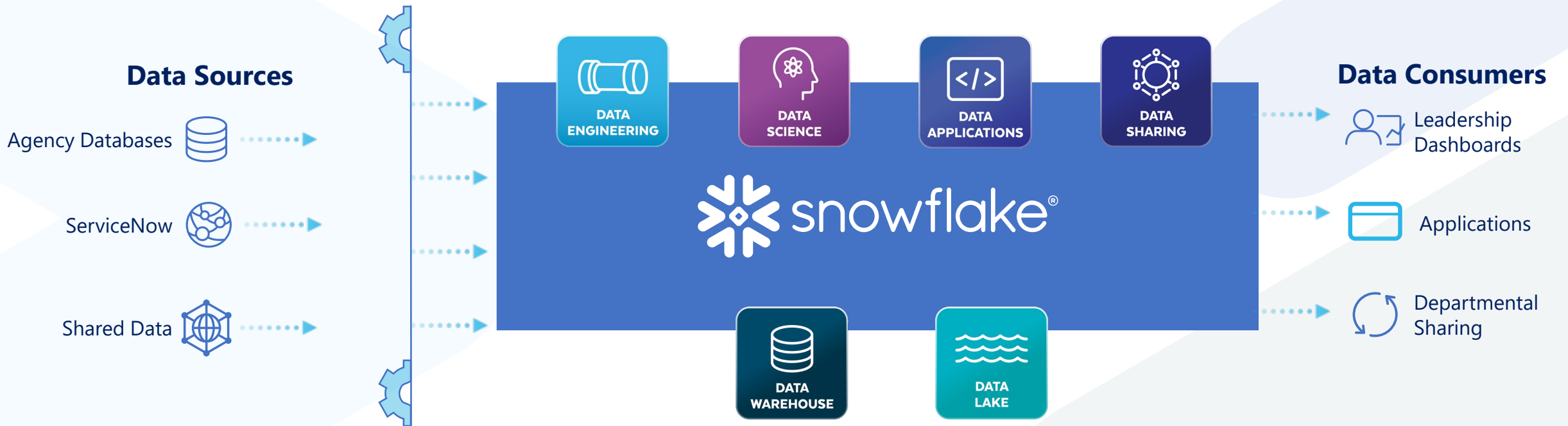


## Goals

- Centralize data in the cloud
- Transform data into reporting formats that enable self-service
- Simplify data sharing while maintaining data integrity and security
- Apply modern technology to extract data elements from paper processes
- Form data governance board and working groups around data types (health, environment, economics, etc.)

# Montana Data Cloud

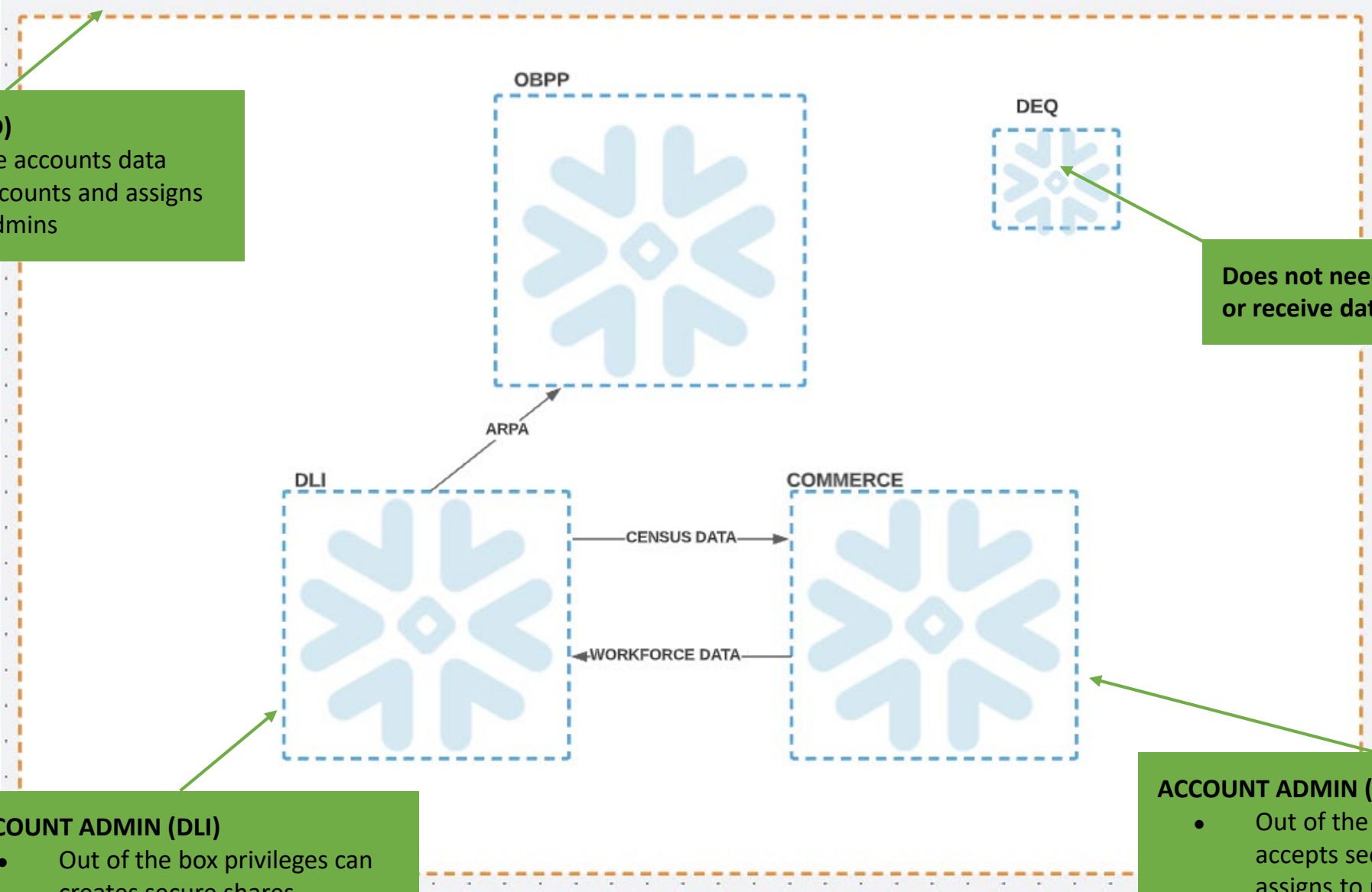
Simple, Cost Effective & Scalable



# MONTANA DATA CLOUD

**ORG ADMIN (SITSD)**

- Cannot see accounts data
- Creates accounts and assigns account admins



**Does not need to share data or receive data**

**ACCOUNT ADMIN (DLI)**

- Out of the box privileges can creates secure shares

**ACCOUNT ADMIN (COMMERCE)**

- Out of the box privileges accepts secure shares and assigns to roles

# DYNAMIC DATA MASKING

Protect Column Data from Unauthorized Access

## Dynamically mask at query time

- No change to the stored data
- Mask or partially mask using constant value, hash, and custom functions
- Unmask for authorized users only

## Policy-based control

- Table/View owners and privileged users unauthorized by default
- Centralized policy management

## Ease of management

- Apply single policy to multiple columns
- Prevents secure view explosion



**Alex**  
(Unauthorized Role)

101	***-***-5534	*****
102	***-***-3564	*****
103	***-***-9787	*****



**Morgan**  
(Authorized Role)

101	408-123-5534	*****
102	510-335-3564	*****
103	214-553-9787	*****





# FROM PAPER TO DATA

Google's AI converts key information into standardized, structured data



Schema	Value
receipt_date	2019-11-12
purchase_time	08:03:00
total_amount	29.50
currency	EUR
line_item	ERVERT Harguer ite 23 29.50EUR
line_item/description	ERVERT Harguer ite 23
line_item/amount	29.50
line_item	1 Petit dej Angel ina 29.50EUR
line_item/description	1 Petit dej Angel ina
line_item/amount	29.50
supplier_name	Angelina Paris
supplier_address	226 Rue de Rivoli 75001 Paris France
supplier_city	Paris

Supports five custom trained languages, with 150+ more available through Translate integration

# Final Thoughts

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- Framework for the future
- Small projects mean fast returns
- Many stakeholders want justice data
  - HHS, MDT, COR, LIV, DEQ, FWP

# Data Collection

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- 100% Digital Challenge
- Low-Code/No-Code

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# Q & A