



DATA Act

BETTER DATA. BETTER DECISIONS.  
BETTER GOVERNMENT.

# DATA Act Information Model Schema (DAIMS)



- ▶ Barriers to using existing data:
  - Data is locked away in siloed systems.
  - Complex data cannot be linked or combined easily with other data sets.
  - Lack of consistency, timing and quality challenges.
  
- ▶ U.S. First Open Data Law: Digital Accountability and Transparency Act of 2014 (DATA Act)
  - “establish Government-wide data standards for financial data and provide consistent, reliable, and searchable government-wide spending data that is displayed accurately for taxpayers and policy makers”

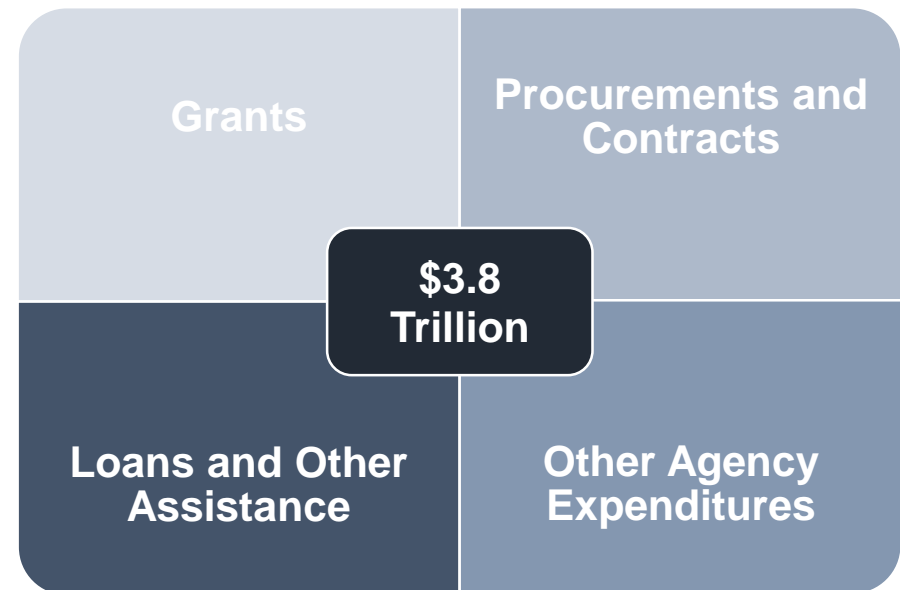


## Goal

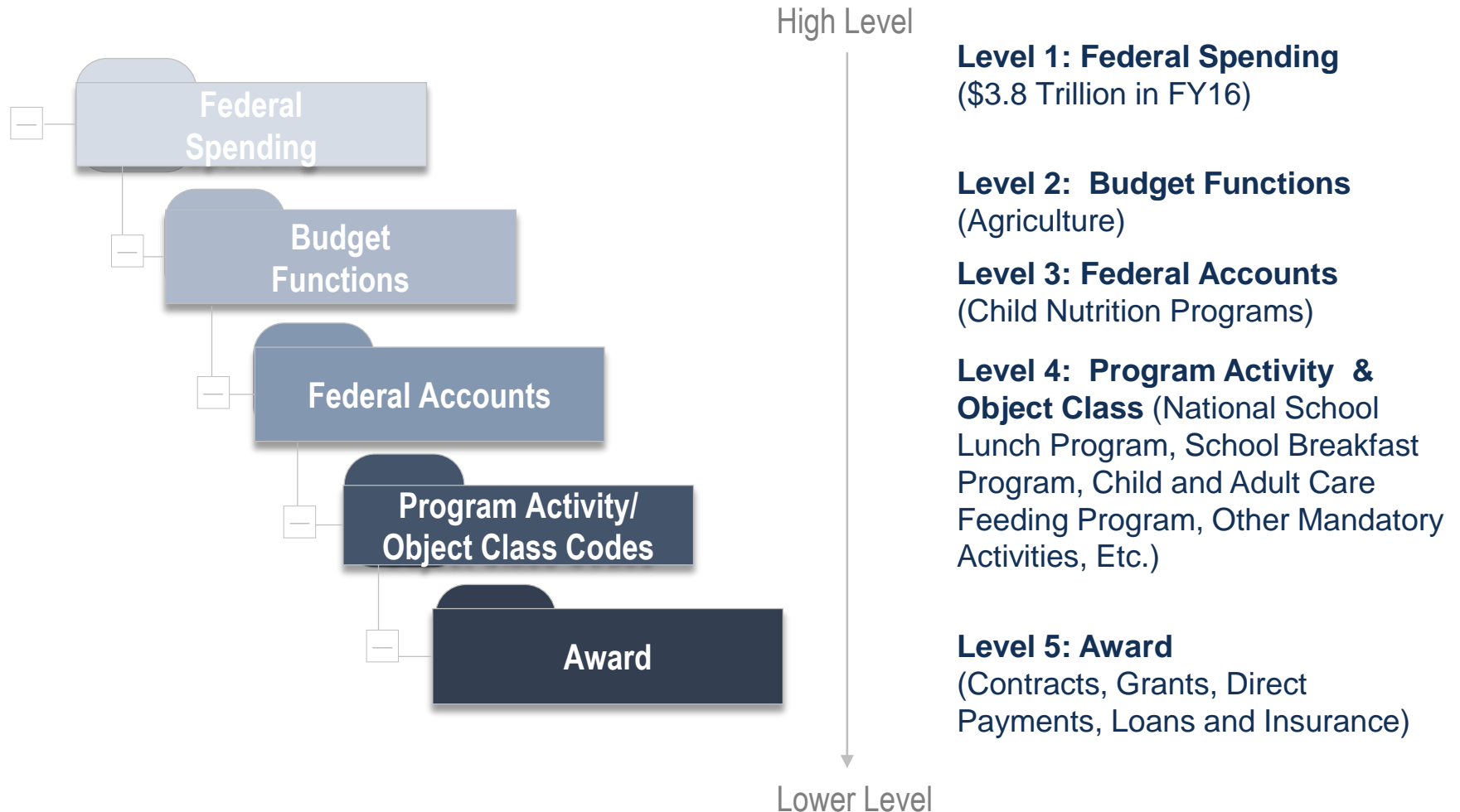
Track \$3.8 trillion dollars in annual spending on a quarterly basis and link data from the budget, accounting, procurement and financial assistance databases into one common format that allows for comparability across government.

## Challenge

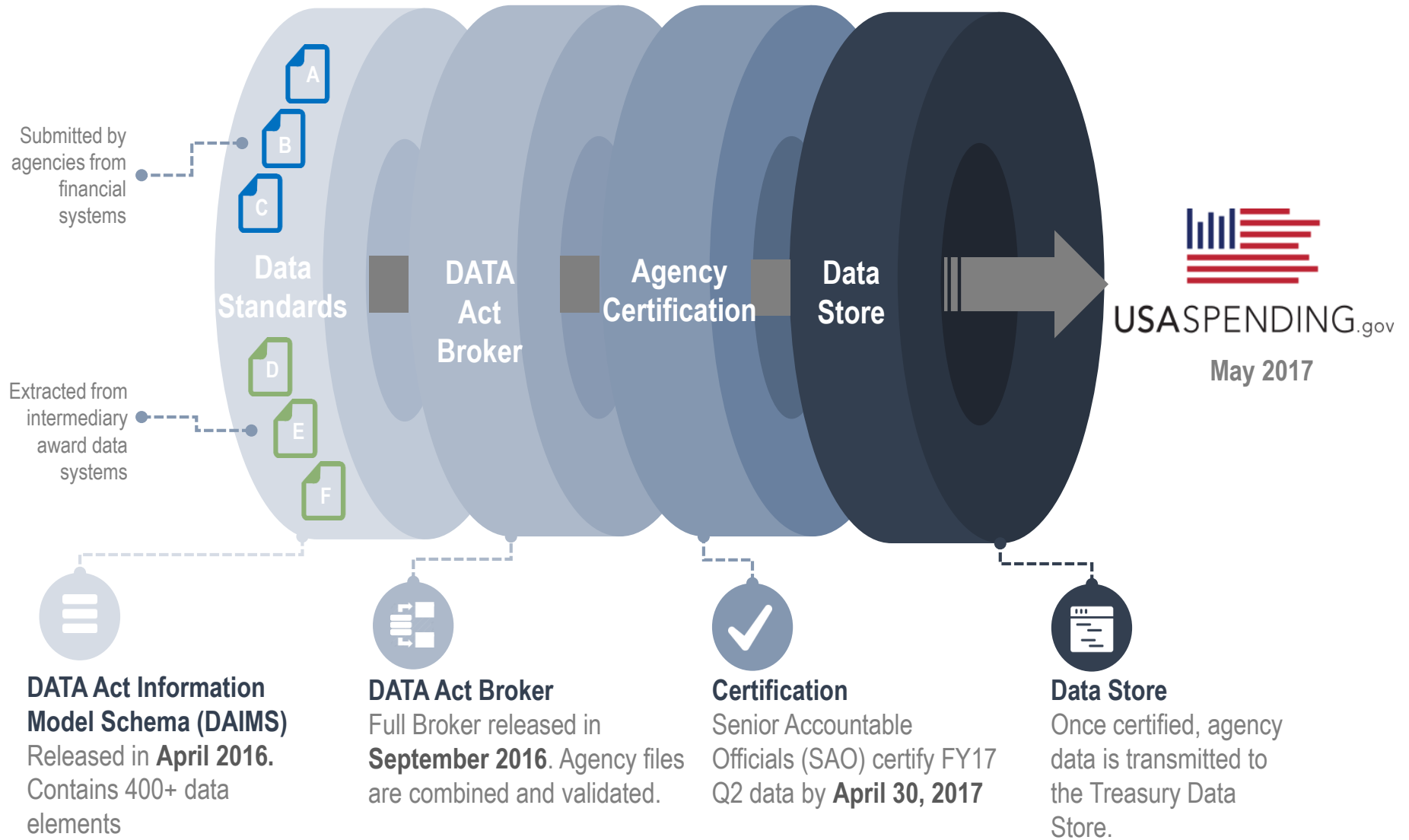
Challenge: Collect, store and display more than 400 data elements from over 100 federal agencies.



# Spending Data Hierarchy



# DATA Act Reporting Process Flow



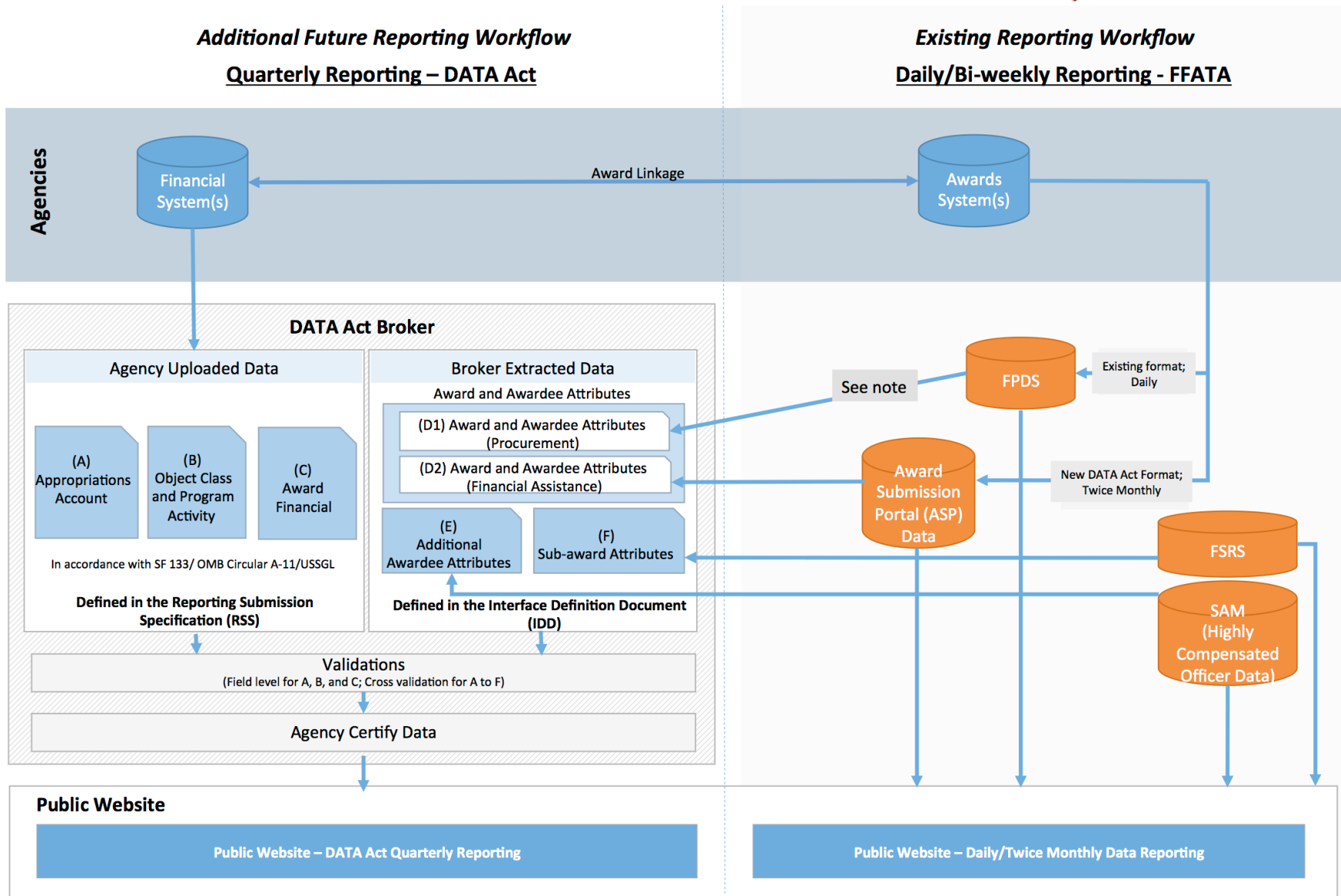


The DATA Act Schema provides a standardized definition and conceptual model for the information relevant to the domain and public reporting of U.S. Federal spending.

The Schema informs:

- ▶ How data providers select and organize information to submit
- ▶ What information is stored and how it is related
- ▶ How consumers can access and interpret information

# Information Flow



**Note:** For May 2017 implementation, D1 will be extracted from the USAspending site which pulls data from FPDS daily. D1 will be pulled from FPDS directly in the long term.



- ▶ **Information Flow** – provides an overview of the reporting timeframes and sources of the data.
- ▶ **Reporting Submission Specification (RSS)** – includes a listing of the data elements with specific instructions for federal agencies to submit content in the appropriate format.
- ▶ **Interface Definition Document (IDD)** – contains a listing of the elements, with supporting metadata to understand what data will be pulled from government-wide systems and from agency financial assistance systems.
- ▶ **DAIMS Diagrams** – visual representations of how the data elements from the RSS and IDD fit together in context.
- ▶ **Online Data Dictionary** – a comprehensive list of data elements with definitions and minimal metadata, like definition and data category.
- ▶ **XBRL Schema Files** – machine-readable version of the data standard that includes accounting-related and award-related content.



## *RSS - Agency submitted content*

DATA Act

**(A) Appropriations Account**

**(B) Object Class and Program Activity**

**(C) Award Financial**

## *IDD - Extract from Existing Systems*

**(D1) Award & Awardee Attributes (Procurement)**

**(D2) Award & Awardee Attributes (Financial Assistance)**

**(E) Additional Awardee Attributes**

**(F) Sub-award Attributes**

FFATA

- ▶ File A through F are aligned to the DATA Act objectives
  - ▶ **File A** contains appropriation summary level data that are aligned to the SF133 reporting
  - ▶ **File B** includes obligation and outlay information at the program activity and object class level
  - ▶ **File C** reports the obligations at the award and object class level
  - ▶ **File D1 and D2** report the award and awardee details that are linked to File C
  - ▶ **File E** includes the additional prime awardee attribute.
  - ▶ **File F** includes sub-award information

# DATA Act Element Relationships

## Account Data (All Federal Spending)

### (A) Appropriations Account

**Level:** Treasury Account Symbol, excluding sub-account (TAS)

**Reporting cadence:** Quarterly

**Source:** Agency financial management systems

**Example elements:**

- Budget authority appropriated (amount)
- Unobligated balance (amount)
- Amount of other budgetary resources

### (B) Object Class and Program Activity

**Level:** TAS & program activity & object class

**Reporting cadence:** Quarterly

**Source:** Agency financial management systems

**Example elements:**

- Obligated amount (by program activity & object class)
- Outlay (gross)

TAS

TAS & Object Class

## Award Data (procurement and financial assistance)

### (C) Award Financial

**Level:** TAS & object class & award ID

**Reporting cadence:** Quarterly

**Source:** Agency financial management systems

**Example elements:**

- Award linkage
- Transaction obligated amount
- TAS
- Object class
- (Program activity code - optional)

Award Linkage Identifiers

### (D1) Award and Awardee Attributes (Procurement) (DATA Act Broker Extract: Quarterly)

**Level:** Linked at award document level (includes award modifications)

**Reporting cadence:** Quarterly extraction from FPDS by data broker; Daily submission to FPDS (in existing format)

**Source:** FPDS/agency procurement management systems

**Example elements:** awardee/recipient unique identifier, award characteristics information, awarding entity information, award amount information, awardee legal entity name and address

Awardee / recipient unique ID

### (E) Additional Awardee Attributes (DATA Act Broker Extract: Quarterly)

**Level:** Awardee/Recipient Unique Identifier

**Reporting cadence:** Quarterly extraction from SAM by data broker

**Source:** SAM (Highly Compensated Officer Data)

**Example elements:** Awardee/recipient top 5 highly compensated officers

### (D2) Award and Awardee Attributes (Financial Assistance) (DATA Act Broker Extract: Quarterly)

**Level:** Linked at award document level (includes award modifications)

**Reporting cadence:** Quarterly extraction from ASP by data broker; Bi-weekly submission to ASP (in new format)

**Source:** ASP/agency financial assistance management systems

**Example elements:** awardee/recipient unique identifier, award characteristics information, awarding entity information, award amount information, awardee legal entity name and address

Award Linkage

### (F) Sub-award Attributes (DATA Act Broker Extract: Quarterly)

**Level:** Award ID & sub-award number

**Reporting cadence:** Quarterly extraction from FSRS by data broker

**Source:** FSRS

**Example elements:** Sub-award number and amount

- ▶ Goal: *Better Data, Better Decisions, Better Government*
- ▶ DATA Act Information Model Schema (DAIMS) provides a foundation for linking financial data to other data sets to improve outcomes and identify savings.

## **Link to Management Data**

Performance

Information Technology

Human Resources

## **Link to Outcome Data**

State and local

Economic

Support evidence-based analysis

- ▶ Financial data use by private sector to generate economic value