



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”

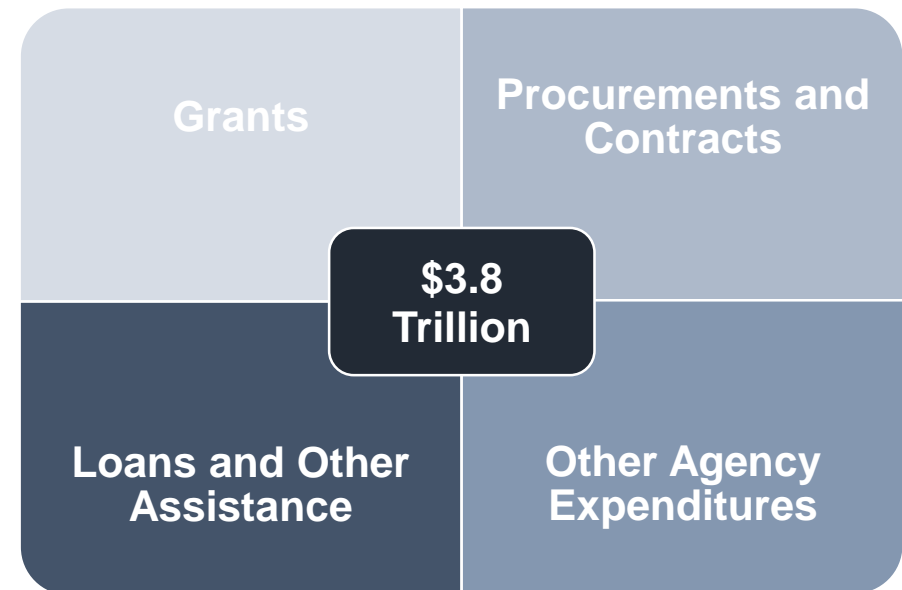


Goal

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

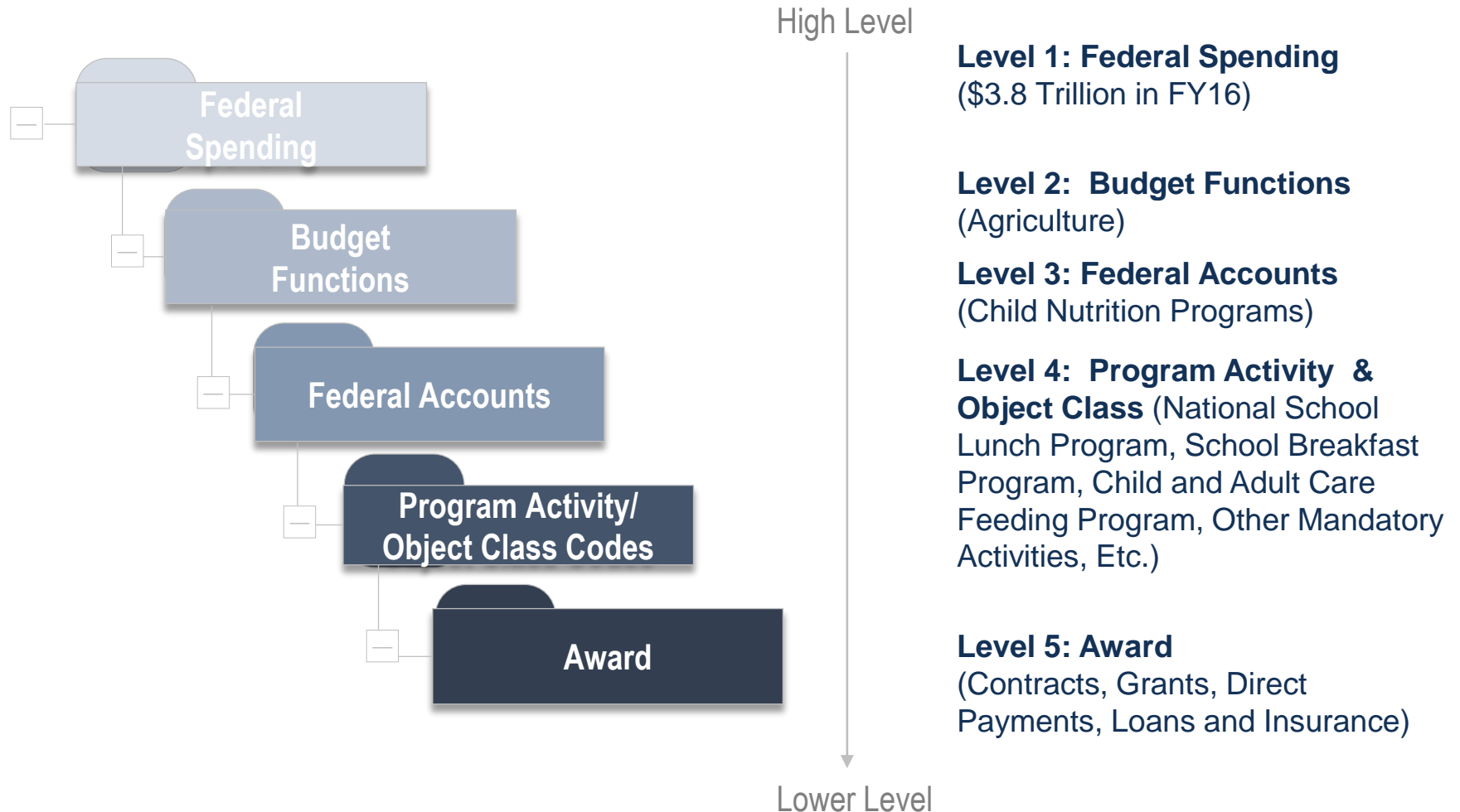
Challenge: Collect, store and display more than 400 data elements from over 100 federal agencies.



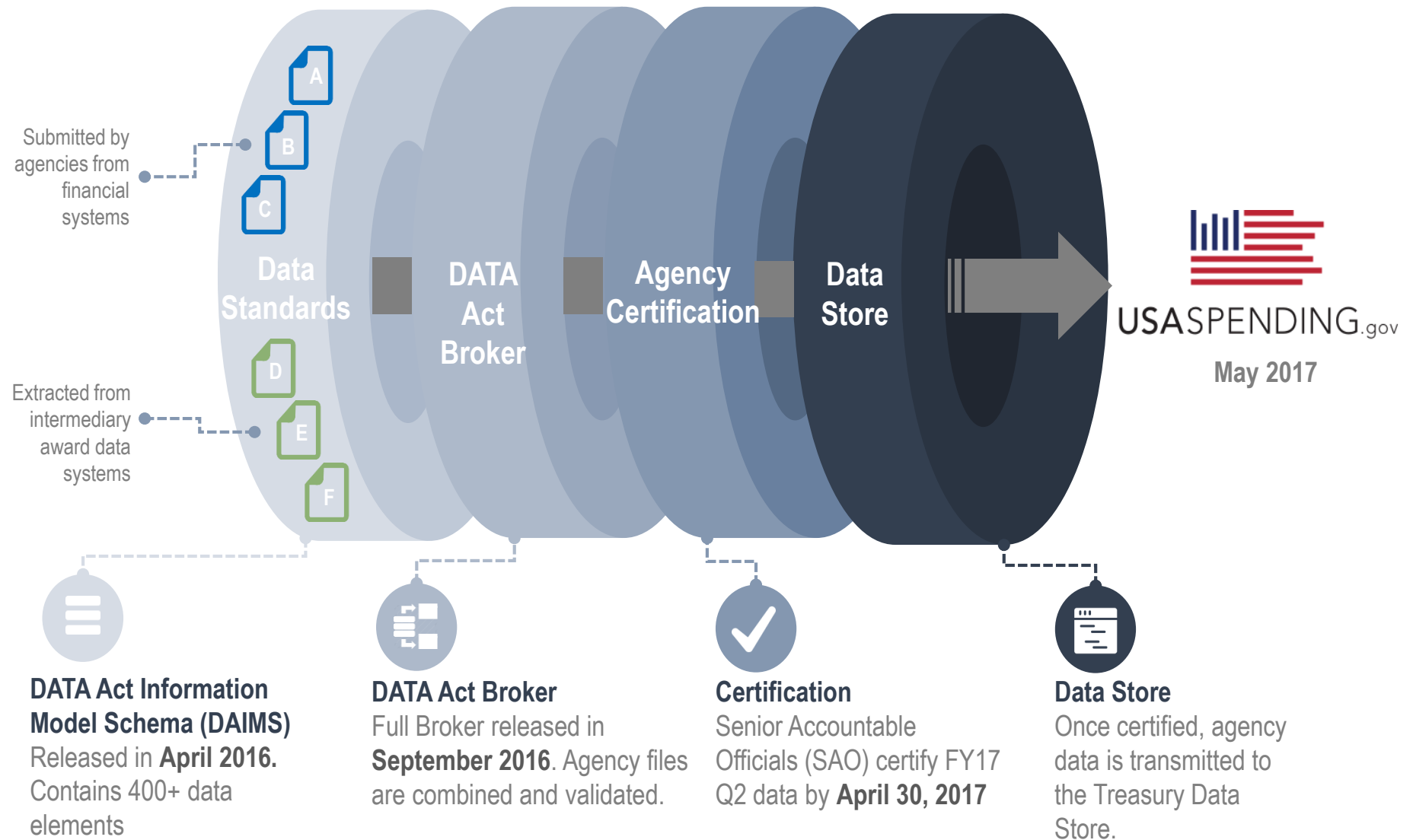
Spending Data Hierarchy



DATA Act



DATA Act Reporting Process Flow



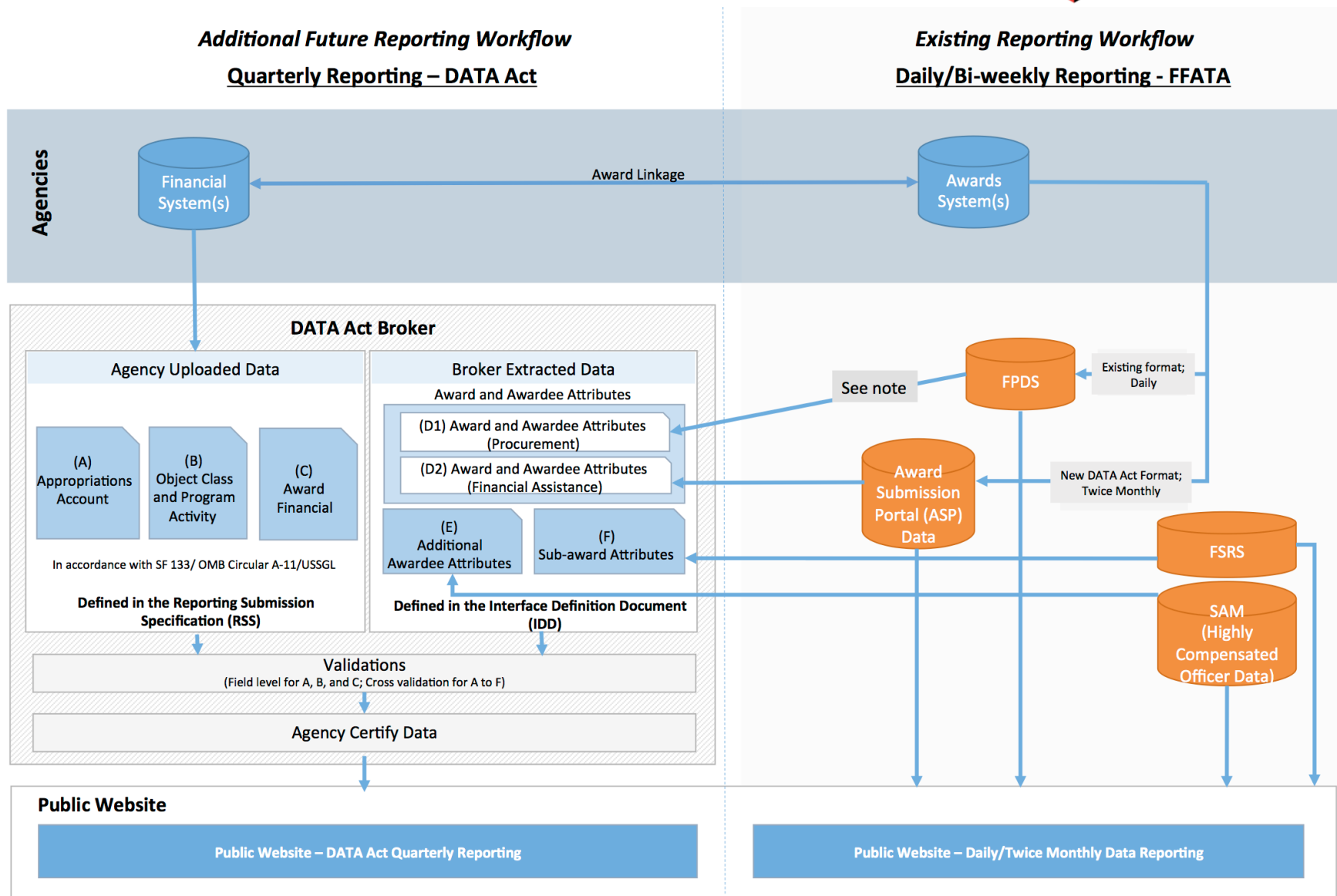


The DATA Act Schema provides a standardized definition and conceptual model for the information relevant to the domain and public reporting of U.S. Federal spending.

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.

DATA Act Schema Components

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