



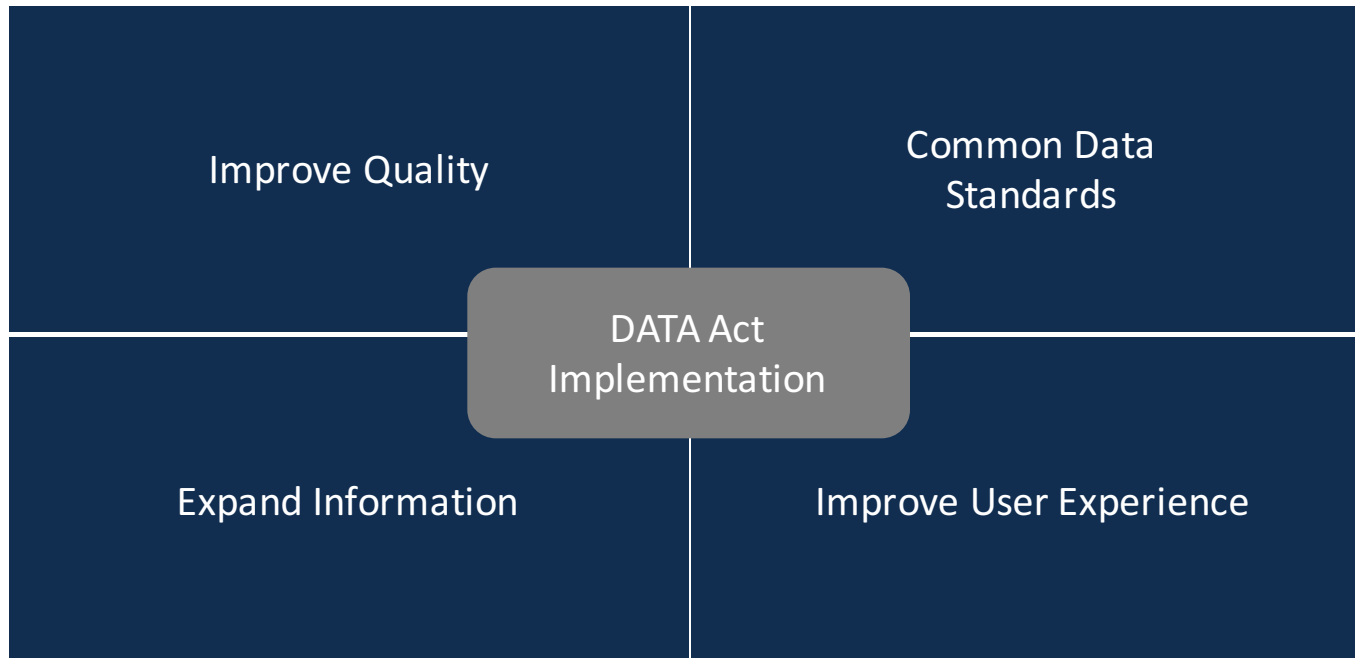
DATA Act

BETTER DATA. BETTER DECISIONS.
BETTER GOVERNMENT.

DATA Act Information Model Schema (DAIMS) Version 1.0 Briefing

May 4, 2016

- ▶ The purpose of the DATA Act is to establish **government-wide financial data standards** and increase the **availability, accuracy, and usefulness** of Federal spending information.



Expanded data reporting on USAspending.gov for agency expenditures:

- Appropriations Account
 - Budget authority appropriated
 - Obligation
 - Outlay
 - Unobligated balance
 - Other budgetary resources
- Program Activity & Object Class
 - Obligation
 - Outlay

Link the financial and award data.



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.

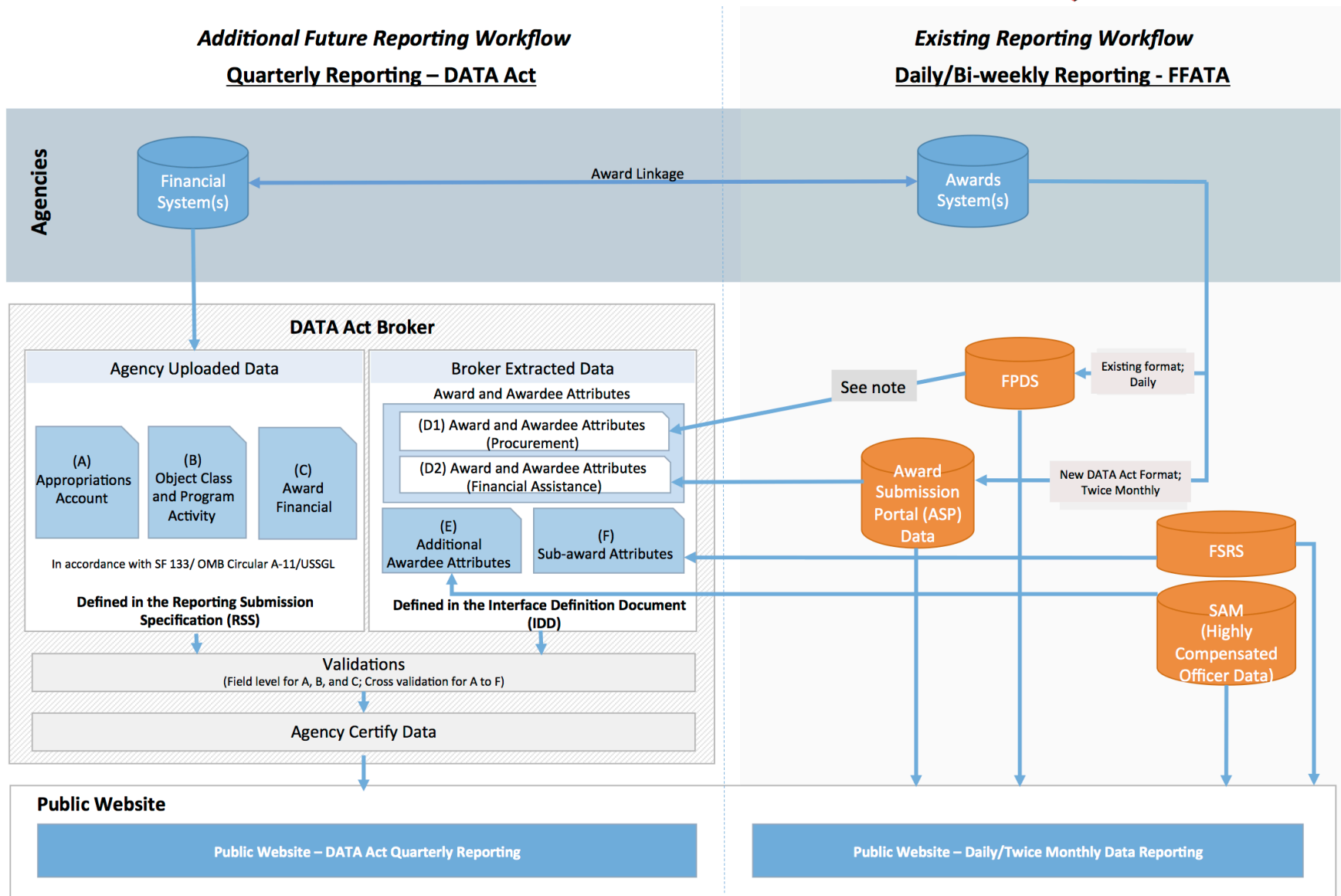
The Schema informs:

- ▶ 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** – 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.

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.



- ▶ The RSS contains prescriptive guidance to report appropriations account, object class, program activity, and award financial data.

- ▶ The RSS includes three files that the agencies will submit to Treasury's Broker:
 - File A – Appropriations Account Detail
 - File B – Object Class and Program Activity Detail
 - File C – Award Financial Detail



- ▶ The Interface Definition Document (IDD) provides an overview of the award specific data elements and explains how the data will be reported or collected.

- ▶ The IDD is based on the Data Model (DAIMS) v1.0 and features the elements related to:
 - File D1 – Award and Awardee Attributes (Procurement)
 - File D2 – Award and Awardee Attributes (Financial Assistance)
 - File E – Additional Awardee Attributes
 - File F – Sub-award Attributes

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)

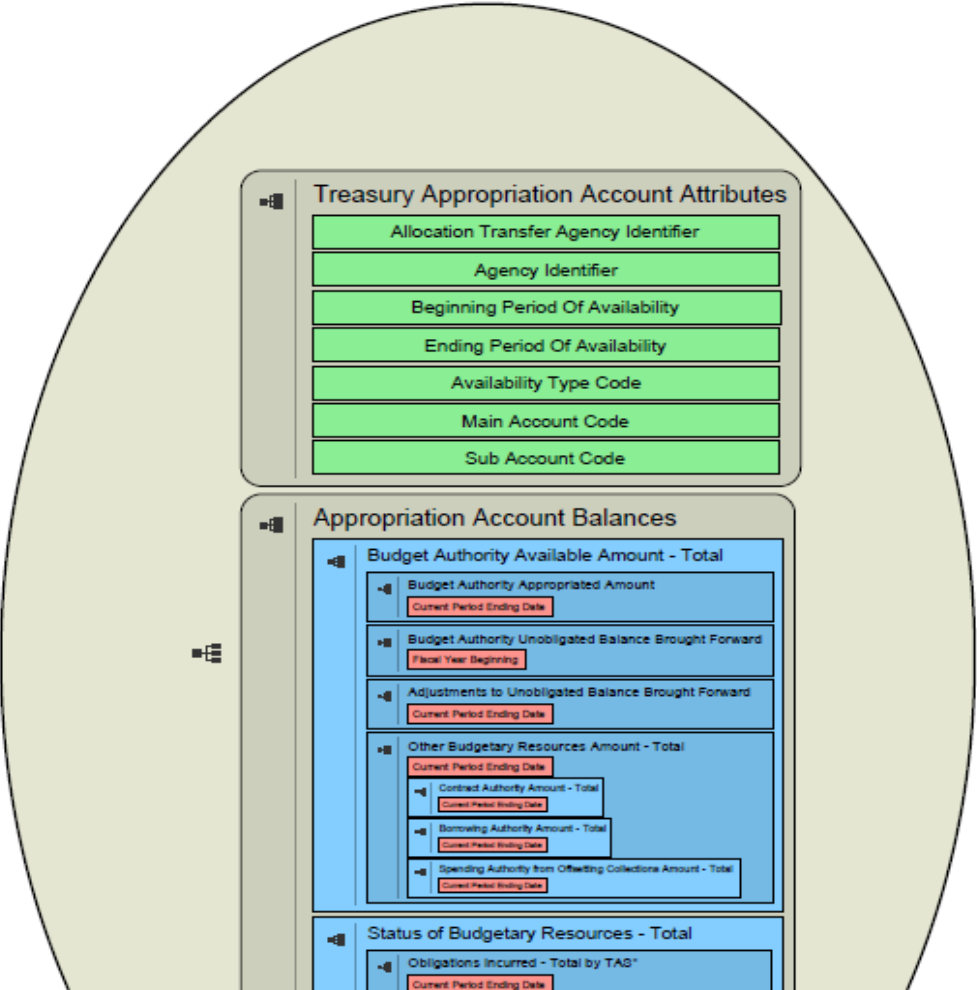
Level: Award ID & sub-award number

Reporting cadence: Quarterly extraction from FSRS by data broker

Source: FSRS

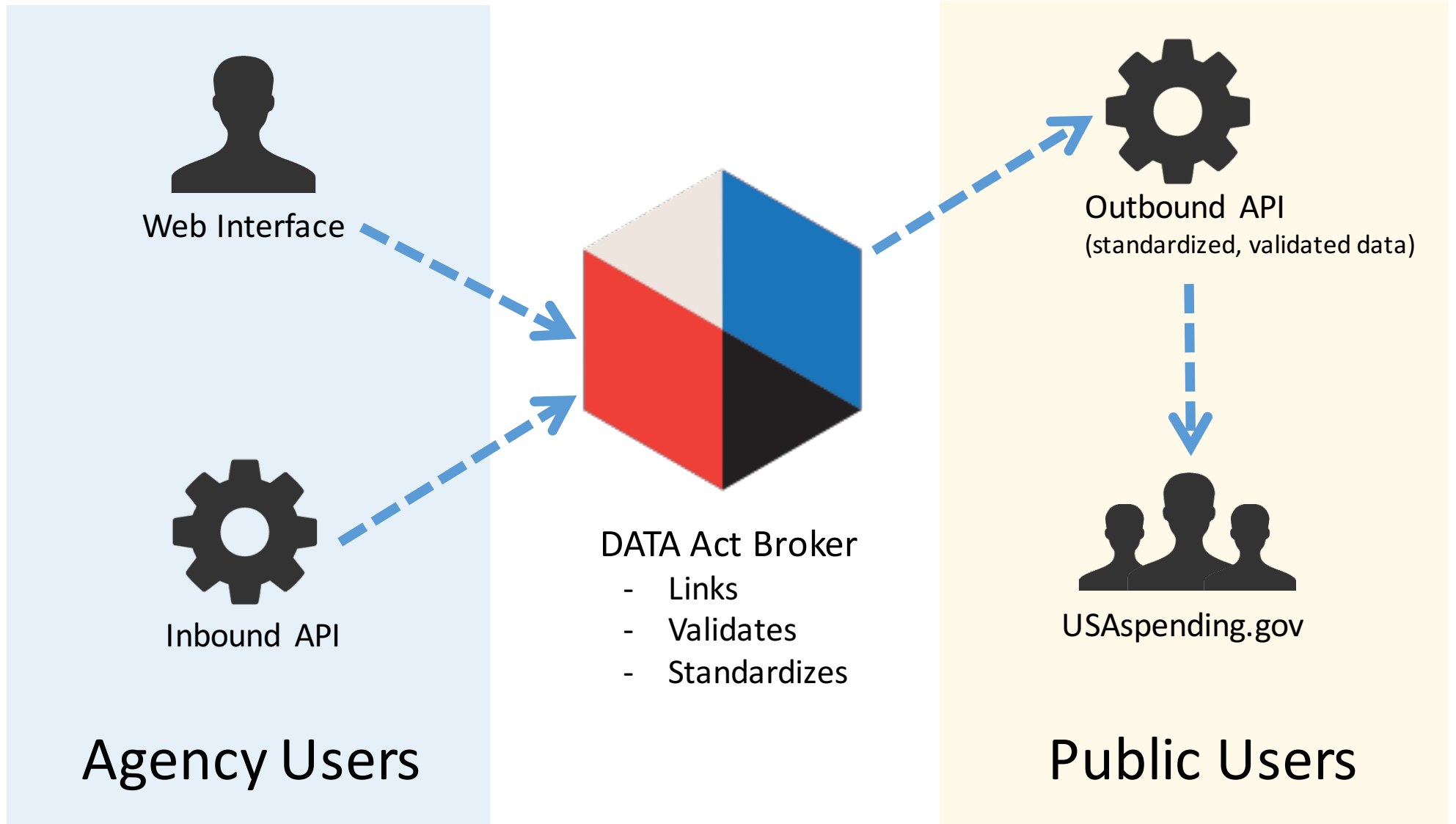
Example elements: Sub-award number and amount

File A - Appropriations Amount



Legend

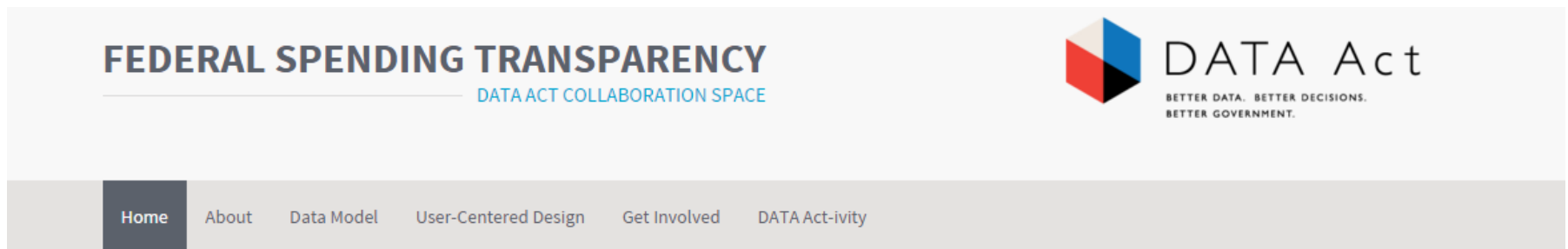
- Conceptual Model Container
- Identifying Element
- Attribute
- Data Point
- Data Point With Context
 - Date Context





- ▶ Update the mapping between agency data to the DATA Act reporting requirements
- ▶ Understand/inventory where data (or gaps) exist against the DATA Act reporting requirements
- ▶ Close gaps/capture data required in the DATA Act reporting requirements
- ▶ Ensure data is complete, accurate, and assess for overall data quality
- ▶ Prepare and test linked data from source systems
- ▶ Fix incorrect data in government-wide source systems (e.g. FPDS, ASP, SAM, FSRS)

<https://fedspendingtransparency.github.io/>



The Latest

On December 31, 2015, version 0.7 of the DATA Act Information Model Schema (DAIMS) was released. It builds on version 0.6 by adding semantic and contextual metadata, attributes, and missing elements beyond what is required for agency submissions. [Read about, download, and comment on this latest information model schema.](#)