

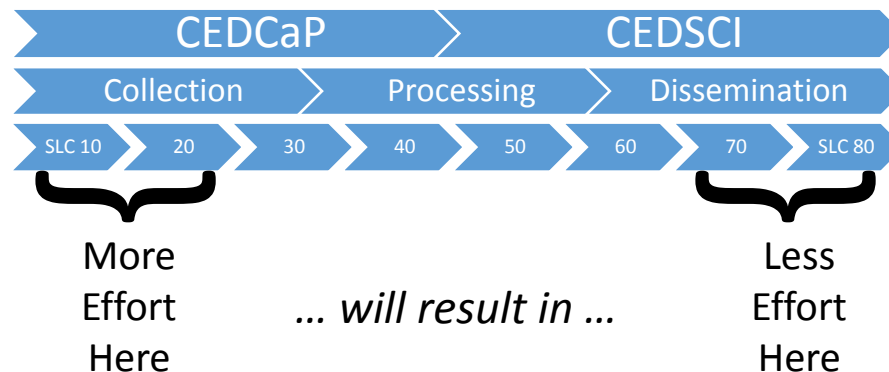
US Census Bureau Enterprise Data Strategy

August 2016

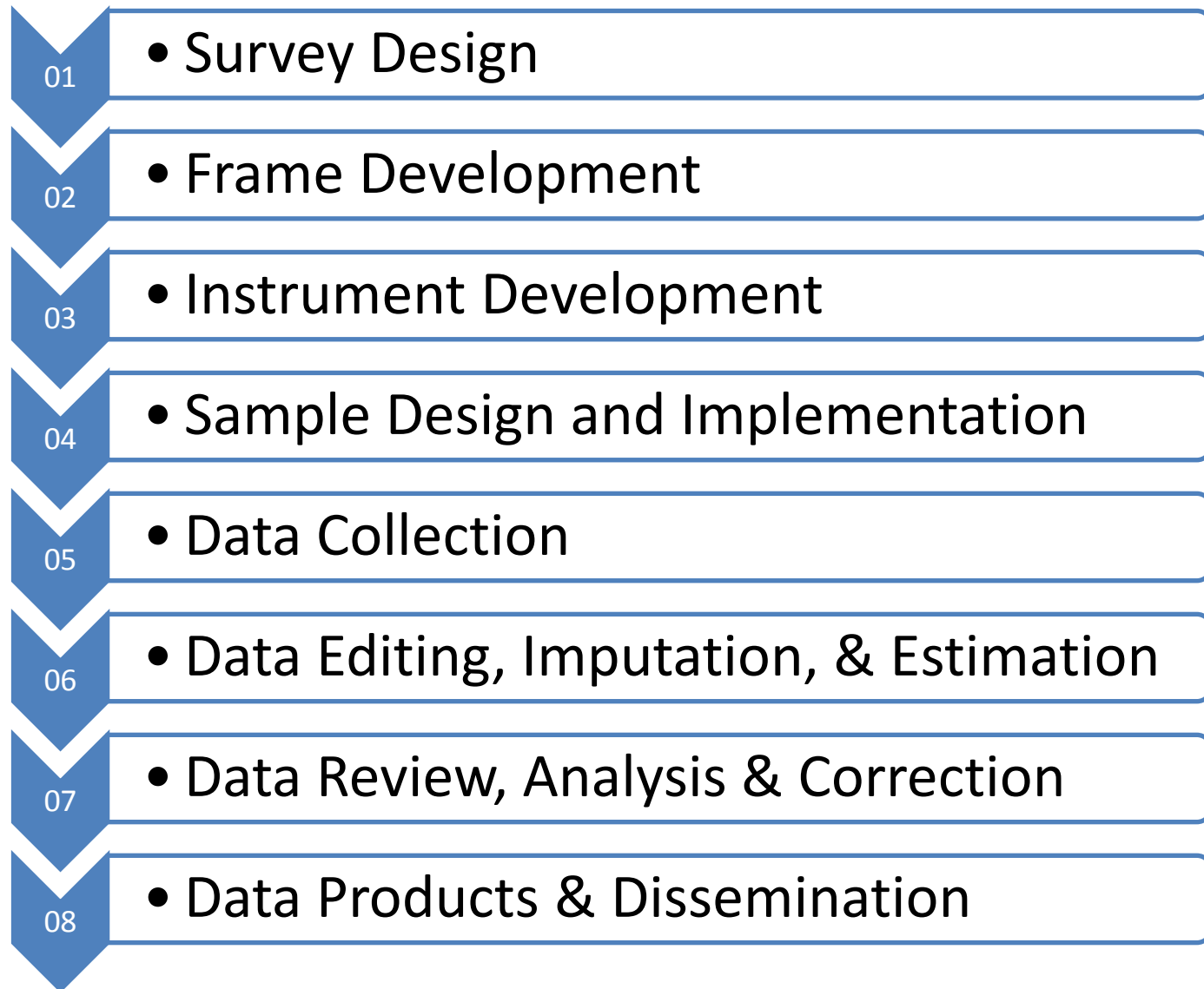
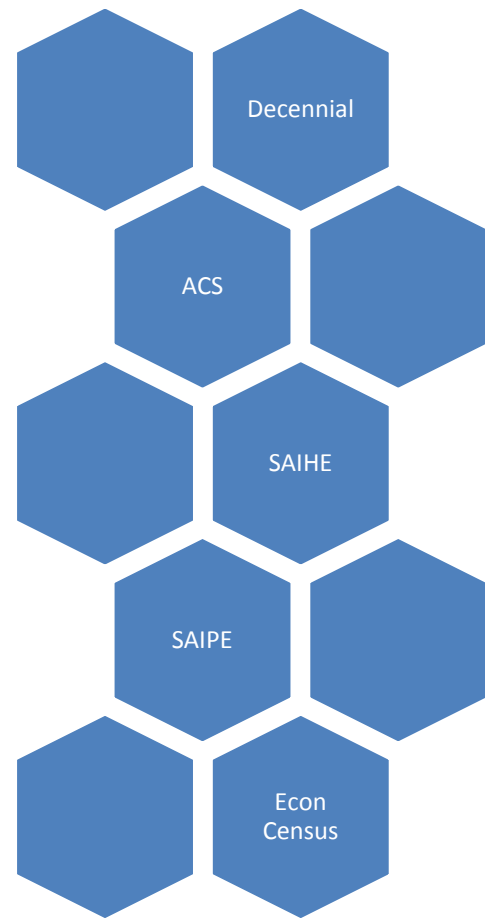
Our Goal is to: *Maximize the value of Census Data.*

Core components of the Enterprise Data Strategy:

- Enterprise Data Model
- Metadata Registry
- Continual Validation



The Survey Life Cycle (SLC) at the US Census Bureau



The Data Model of the SLC is the Enterprise Data Model (EDM)

Survey Design

Frame
Development

Instrument
Development

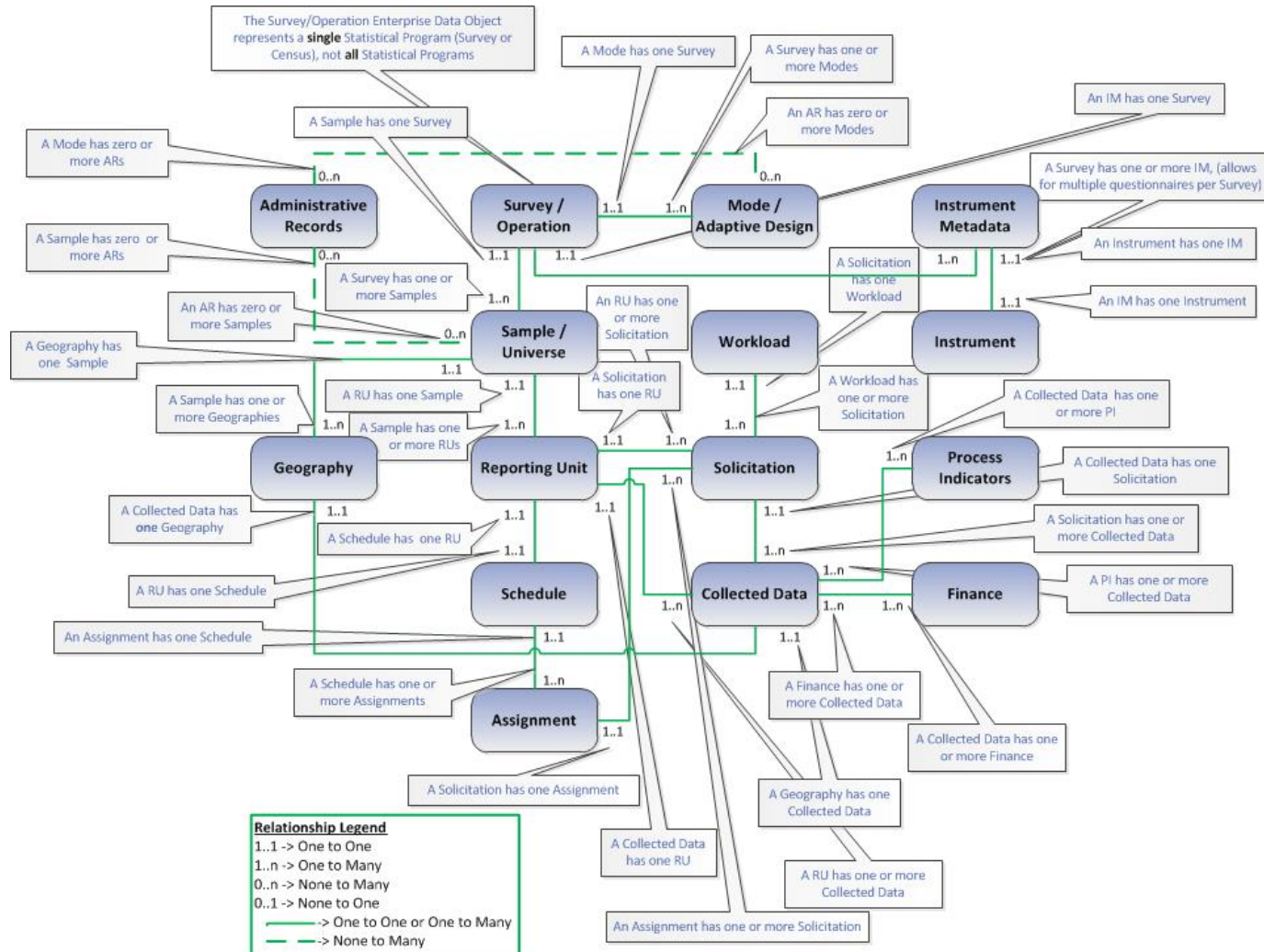
Sample Design
and
Implementation

Data Collection

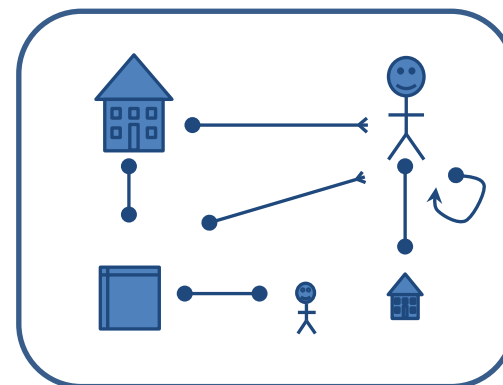
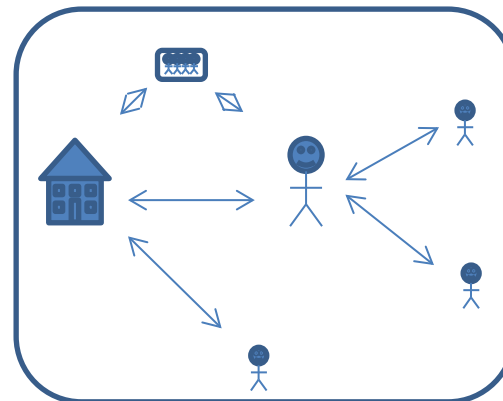
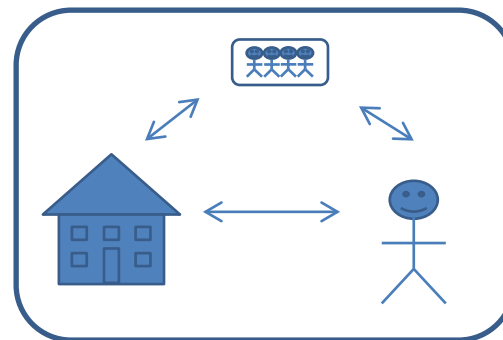
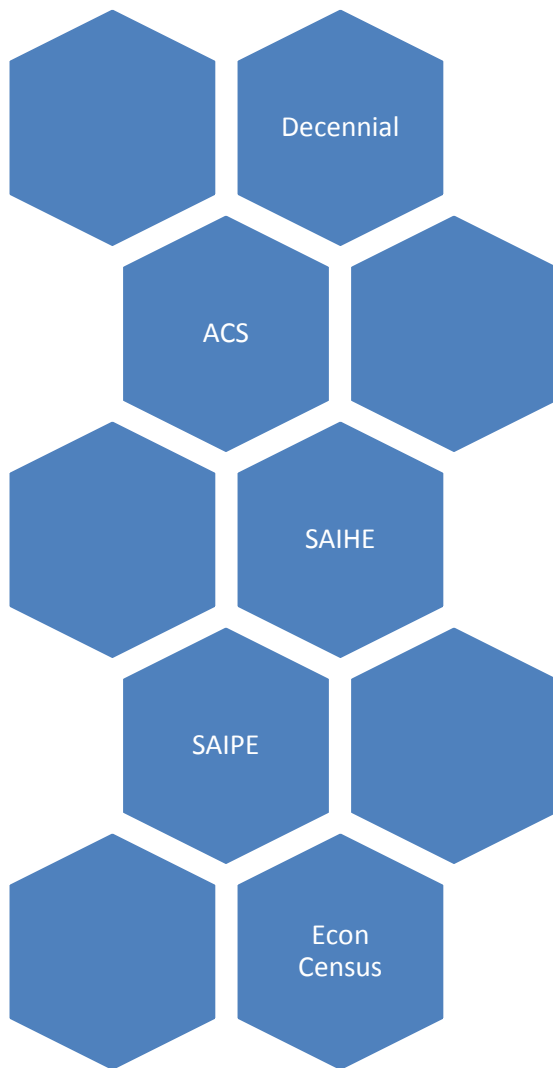
Data Editing,
Imputation, &
Estimation

Data Review,
Analysis &
Correction

Data Products &
Dissemination



Within each Survey Program there is a unique **Response Data Model**



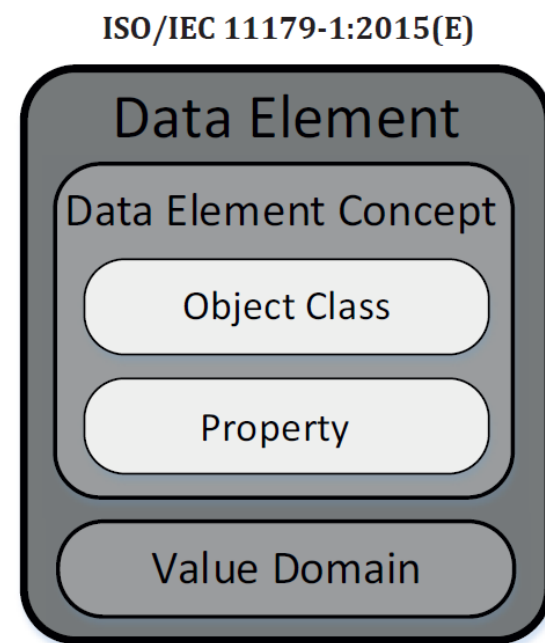
A Survey-Specific Response Data Model consists of Objects, Properties & Relationships

1	Type/Sub-properties	Type	Definition
1815	nc:PersonNameType		A data type for a combination of names and/or titles by which a person is known.
1816	Click here for elements with this data type		
1817	nc:PersonNamePrefixText	nc:TextType	A title or honorific used by a person.
1818	nc:PersonGivenName	nc:PersonNameTextType	A first name of a person.
1819	nc:PersonMiddleName	nc:PersonNameTextType	A middle name of a person.
1820	nc:PersonSurName	nc:PersonNameTextType	A last name or family name of a person.
1821	nc:PersonNameSuffixText	nc:TextType	A term appended after the family name that qualifies the name.
1822	nc:PersonMaidenName	nc:PersonNameTextType	An original last name or surname of a person before changed by marriage.
1822	nc:PersonFullName	nc:PersonNameTextType	A complete name of a person.
1823			
1824	nc:PersonNameCategory	<abstract element, no type>	A data concept for a kind of person name.
1825	<i>Substitutable Elements:</i>		
1826	+ nc:PersonNameCategoryCode	core_misc:PersonNameCategoryCodeType	A kind of person name.
1827	+ nc:PersonNameCategoryText	nc:TextType	A kind of person name.
1828	+ j:PersonNameCategoryCode	j:PersonNameCategoryCodeType	A kind of name for a person.
1829	nc:PersonNameSalutationText	nc:TextType	A formal sign or expression of greeting that is appropriate for this person.
1830	nc:PersonOfficialGivenName	nc:PersonNameTextType	A name, out of possibly multiple given names, that a person selects to use as his or her official given name.
1831	nc:PersonPreferredName	nc:TextType	A name by which this person prefers to be known.
1832	nc:PersonSurNamePrefixText	nc:TextType	A prefix that precedes this person's family name such as Van, Von.
1833	@nc:personNameCommentText	xs:string	A comment about a kind of name for a person.
1834	nc:PersonNameAugmentationPoint	<abstract element, no type>	An augmentation point for PersonNameType.
1835	<i>Substitutable Elements:</i>		
1836	+ im:PersonNameAugmentation	im:PersonNameAugmentationType	Additional information about a person name.
1837	+ j:PersonNameAugmentation	j:PersonNameAugmentationType	Additional information about a name of a person.
1838	+ scr:PersonNameAugmentation	scr:PersonNameAugmentationType	Additional information about a person name.
1839	+ scr:PersonNameTextAugmentation	scr:PersonNameTextAugmentationType	Additional information about a name of a person.
1840			
1841	nc:PersonOrganizationAssociationType	extends nc:AssociationType	A data type for an association between a person and an organization.
1842			

Each Response Data Model (RDM) is unique to a Survey Program, but there is overlap amongst the properties or “variables” in each RDM.

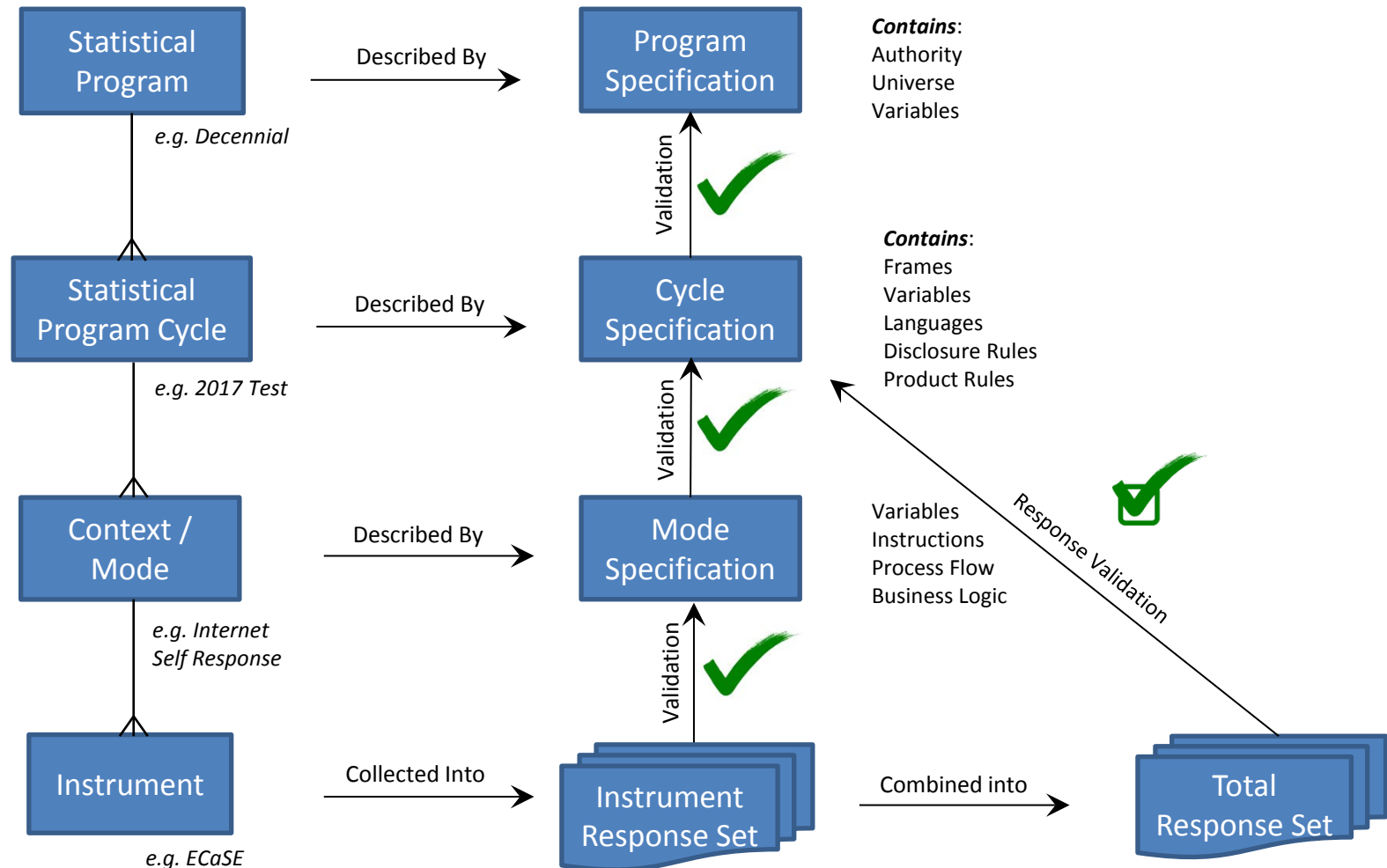
Historically, each Survey Program would create program-specific variables for these shared properties.

A central tenant of the Enterprise Data Strategy is that each of these variables is now an *Enterprise Asset*. This list of Enterprise Variables is stored in what is known as a **Metadata Registry**.



Fundamental, informal model of a data element

Using the structures in the Enterprise Data Model and the Metadata Registry, **Validation** can now take place *Continually* throughout the Survey Life Cycle



Questions?