

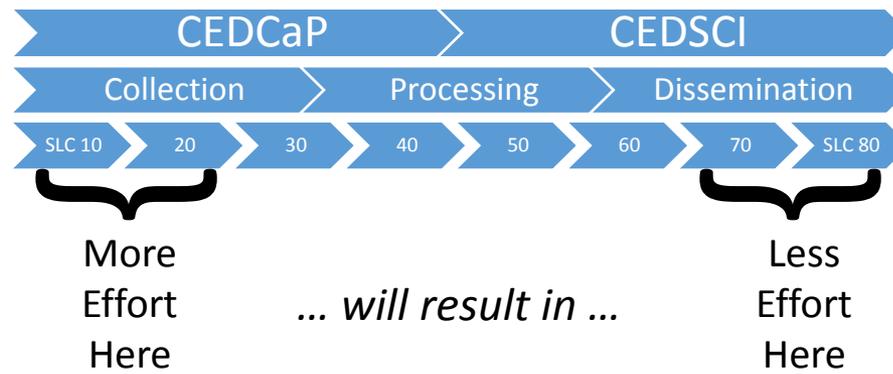
# US Census Bureau Enterprise Data Strategy

August 2016

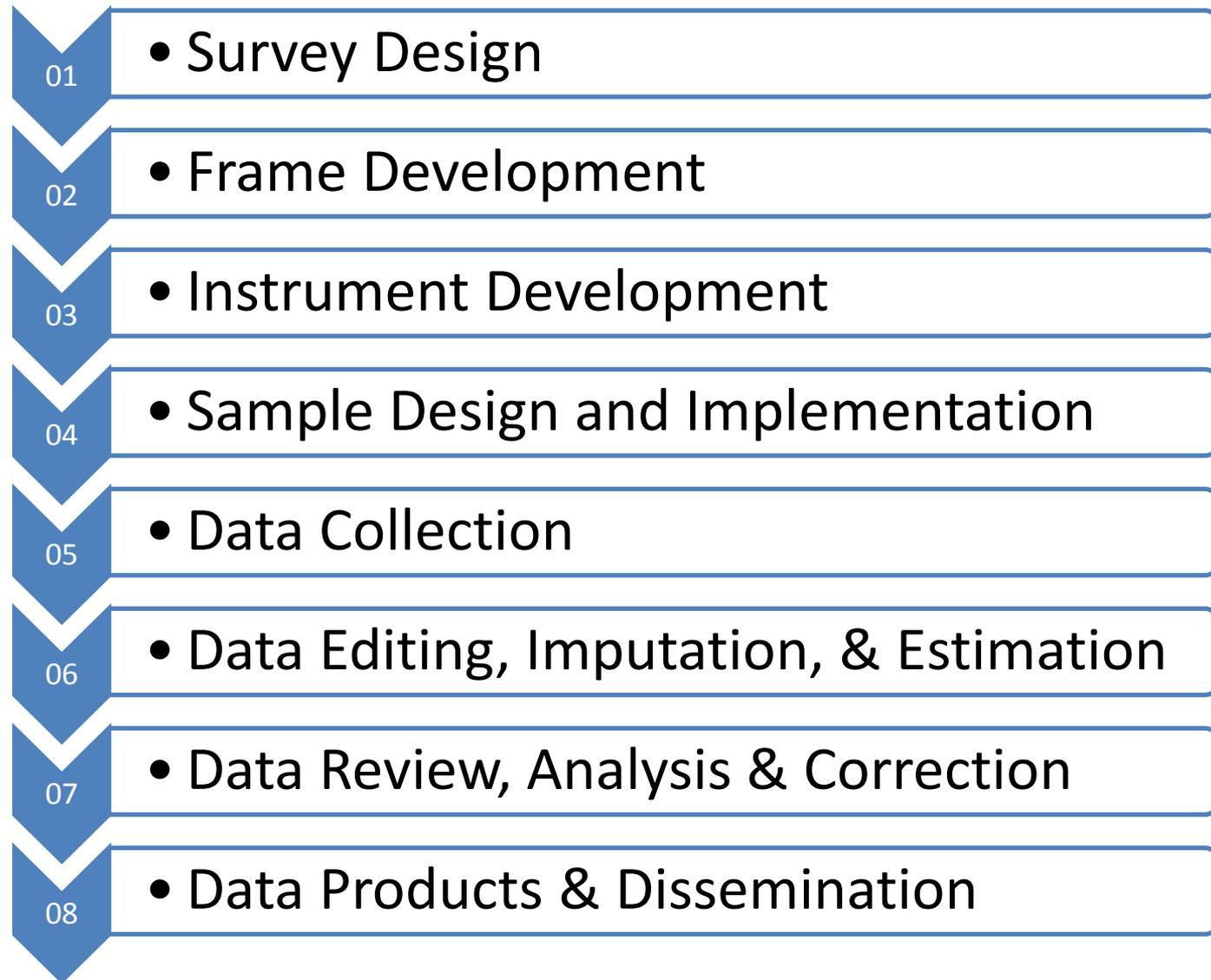
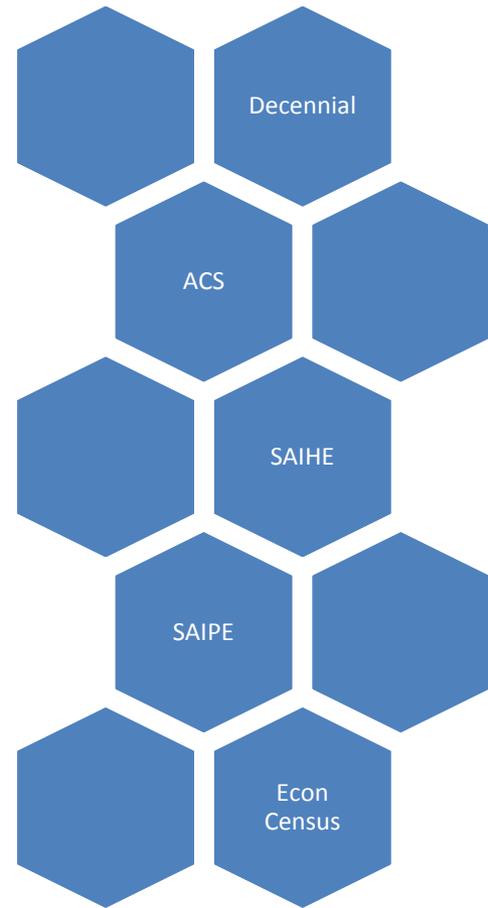
# Our Goal is to: *Maximize the value of Census Data.*

Core components of the Enterprise Data Strategy:

- Enterprise Data Model
- Metadata Registry
- Continual Validation

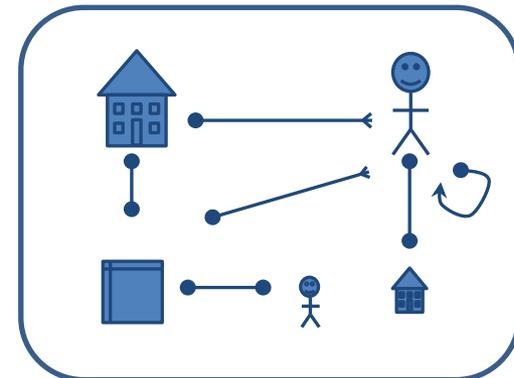
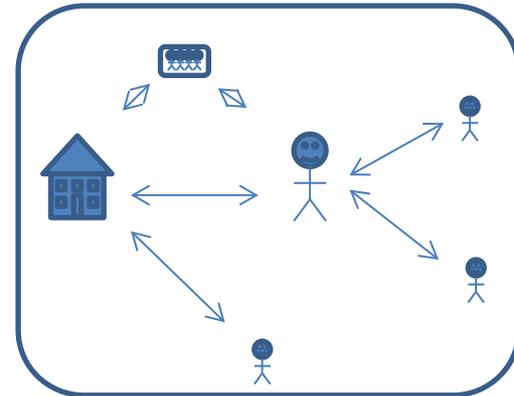
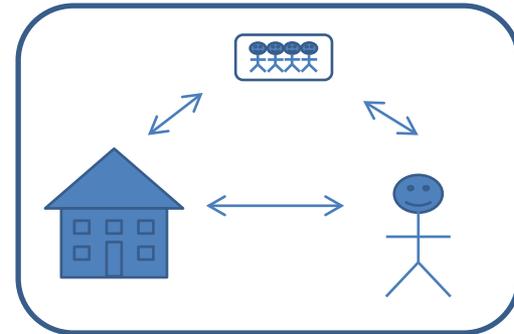
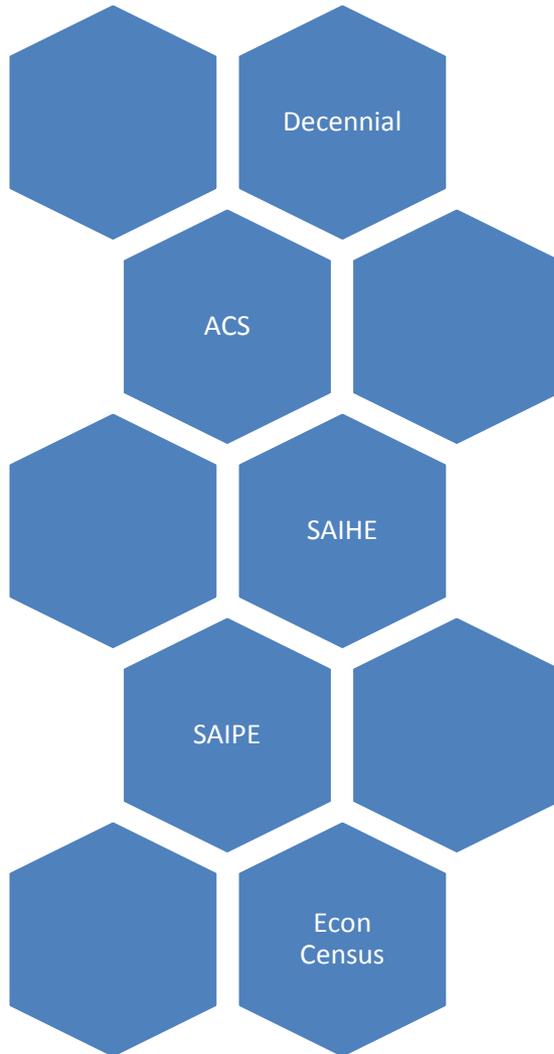


# The Survey Life Cycle (SLC) at the US Census Bureau





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



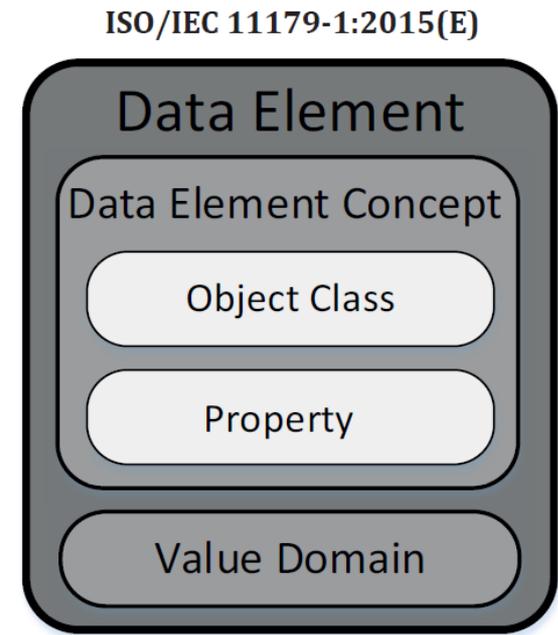
# A Survey-Specific Response Data Model consists of Objects, Properties & Relationships

1	Type/Sub-properties	Type	Definition
	<a href="#">nc:PersonNameType</a>		<b>A data type for a combination of names and/or titles by which a person is known.</b>
1815			
1816	<a href="#">Click here for elements with this data type</a>		
	nc:PersonNamePrefixText	<a href="#">nc:TextType</a>	A title or honorific used by a person.
1817			
1818	nc:PersonGivenName	<a href="#">nc:PersonNameTextType</a>	A first name of a person.
1819	nc:PersonMiddleName	<a href="#">nc:PersonNameTextType</a>	A middle name of a person.
1820	nc:PersonSurName	<a href="#">nc:PersonNameTextType</a>	A last name or family name of a person.
	nc:PersonNameSuffixText	<a href="#">nc:TextType</a>	A term appended after the family name that qualifies the name.
1821			
	nc:PersonMaidenName	<a href="#">nc:PersonNameTextType</a>	An original last name or surname of a person before changed by marriage.
1822			
	nc:PersonFullName	<a href="#">nc:PersonNameTextType</a>	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	<a href="#">core_misc:PersonNameCategoryCodeType</a>	A kind of person name.
1827	+ nc:PersonNameCategoryText	<a href="#">nc:TextType</a>	A kind of person name.
1828	+ j:PersonNameCategoryCode	<a href="#">j:PersonNameCategoryCodeType</a>	A kind of name for a person.
	nc:PersonNameSalutationText	<a href="#">nc:TextType</a>	A formal sign or expression of greeting that is appropriate for this person.
1829			
	nc:PersonOfficialGivenName	<a href="#">nc:PersonNameTextType</a>	A name, out of possibly multiple given names, that a person selects to use as his or her official given name.
1830			
1831	nc:PersonPreferredName	<a href="#">nc:TextType</a>	A name by which this person prefers to be known.
	nc:PersonSurNamePrefixText	<a href="#">nc:TextType</a>	A prefix that precedes this person's family name such as Van, Von.
1832			
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	<a href="#">im:PersonNameAugmentationType</a>	Additional information about a person name.
1837	+ j:PersonNameAugmentation	<a href="#">j:PersonNameAugmentationType</a>	Additional information about a name of a person.
1838	+ scr:PersonNameAugmentation	<a href="#">scr:PersonNameAugmentationType</a>	Additional information about a person name.
1839	+ scr:PersonNameTextAugmentation	<a href="#">scr:PersonNameTextAugmentationType</a>	Additional information about a name of a person.
1840			
1841			
1842	<a href="#">nc:PersonOrganizationAssociationType</a>	<a href="#">extends nc:AssociationType</a>	<b>A data type for an association between a person and an organization.</b>

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

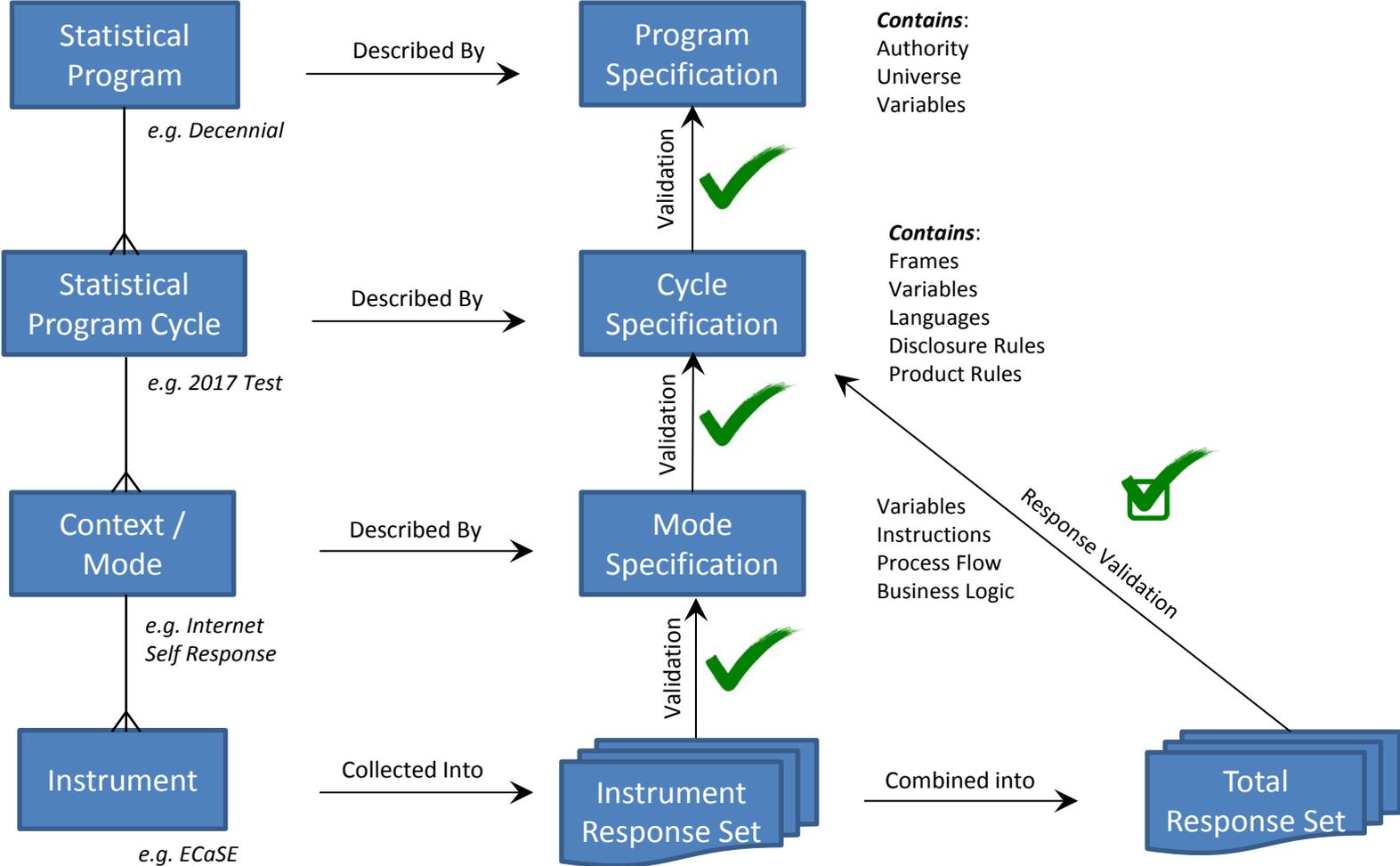
Historically, each Survey Program would create program-specific variables for these shared properties.

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?