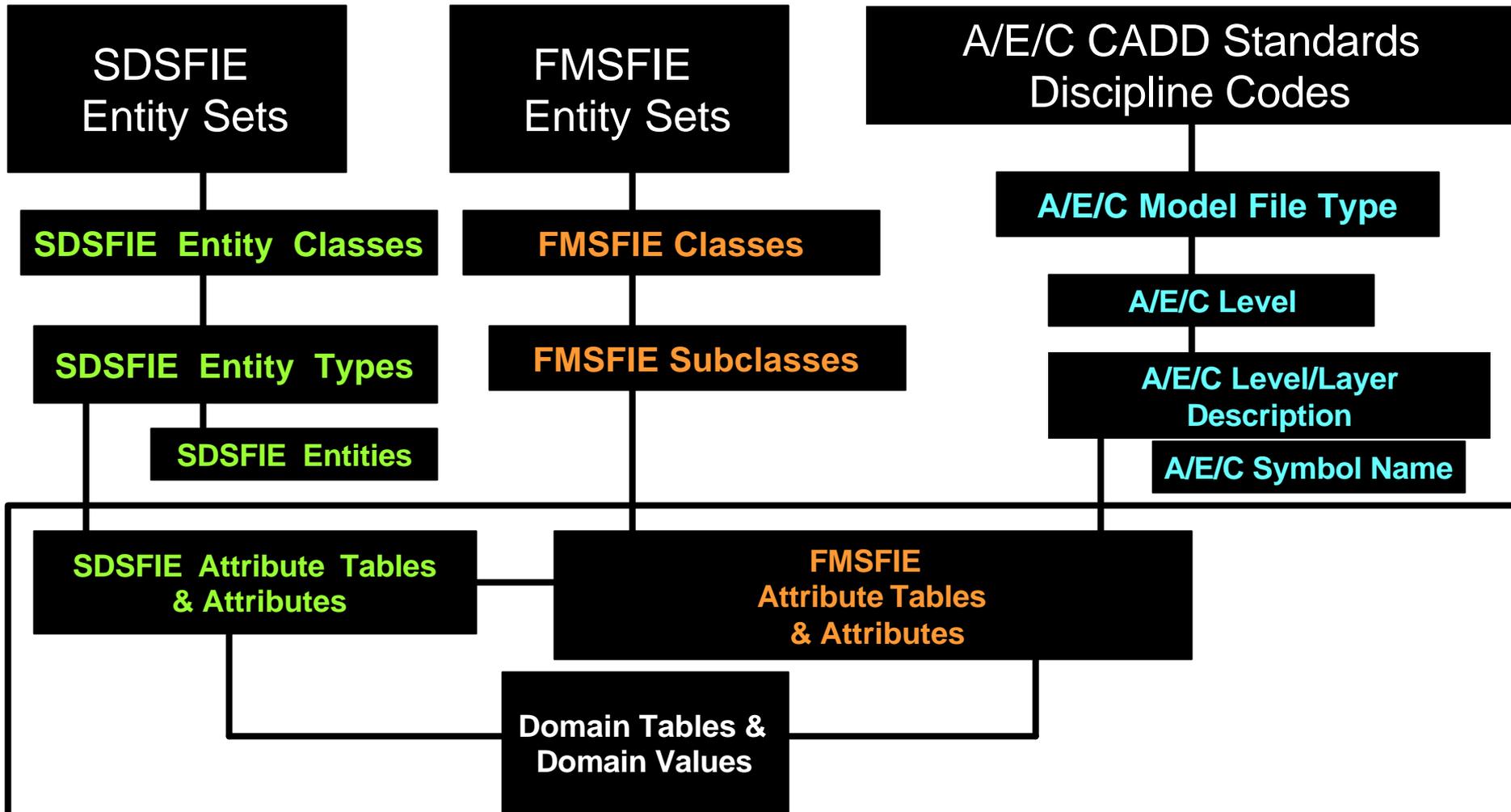


# Adopted CADD/GIS/FM Standards Data Model

(January 2001 Version)



**CADD/GIS/FM Standards Compliant Database = One Integrated Relational Database Structure**

# FMSFIE Entity Set Definitions – Assets Entity Set

**Assets**: items comprising an inventory of federal real property and other related entities based on classification and need to support organizational requirements. Includes:

- (1) tangible physical items comprising the inventory of federal real property that can be referenced by location;
- (2) non-tangible items that cannot always be defined by a location, or do not exist as an inventory item in the real property management inventory.

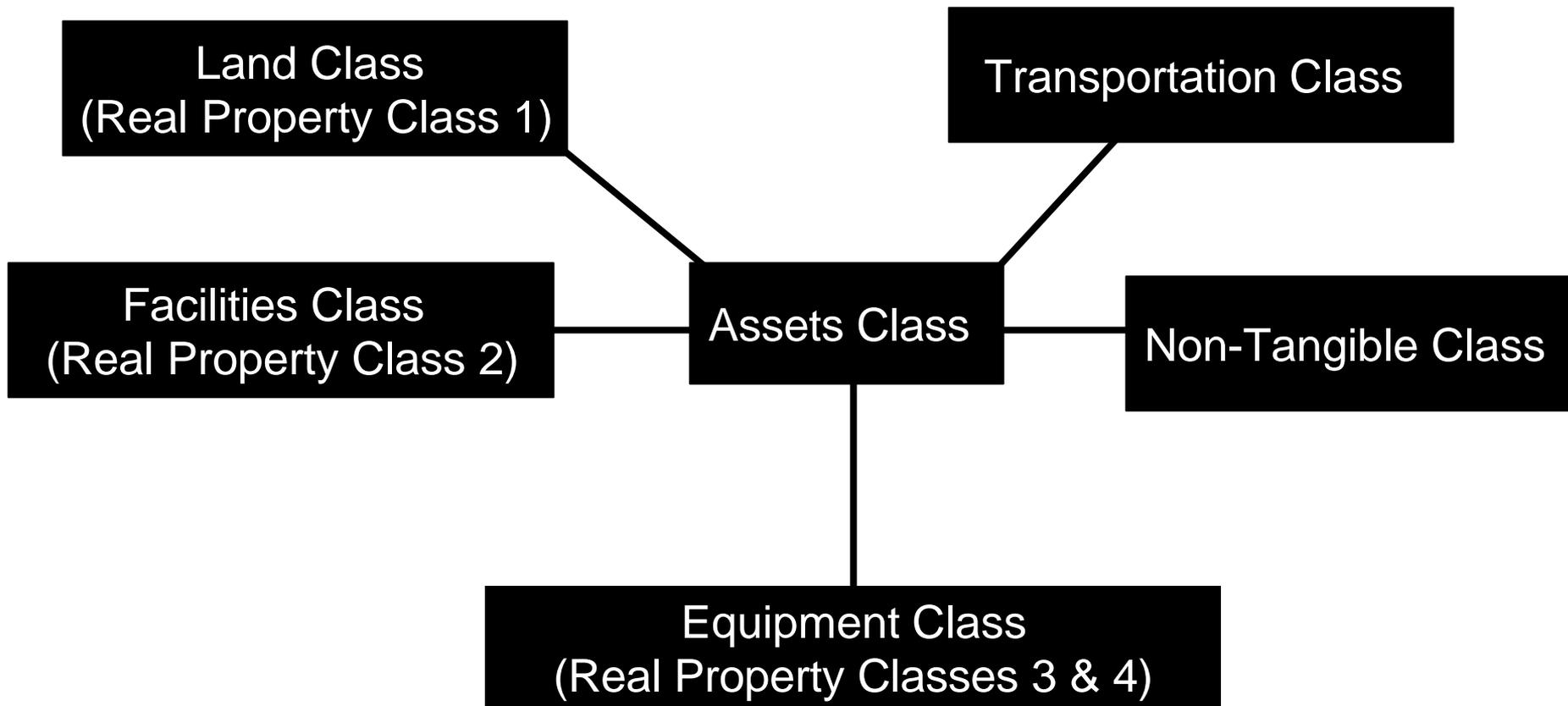
## Conceptual Assets Entity Set – Classes (Proposed)

Class	Definition
Facility	Inventory of tangible real property improvements to land, e.g., buildings, structures, ground improvement structure, & utilities. (DoD Real Property - Class 2)

# Conceptual Assets Entity Set – Classes (Proposed) (Cont.)

Class	Definition
Land	Inventory of tangible real property associated with land. (DoD Real Property - Class 1)
Equipment	Inventory of personal property and plant equipment. (DoD Real Property - Class 3)
Transportation	Inventory of transportation equipment.
Non-Tangible	Inventory of items which cannot always be defined by a location, or do not exist as an inventory item in the real property management inventory.
Asset	Contains parent tables for Assets Entity Set Classes

# Conceptual Assets Entity Set Classes (Proposed)



## Conceptual Facility Class – Subclasses (Proposed)

Class	Definition
Building	Inventory of tangible real property improvements which comprise the components of a building. Includes utilities located within a building. (DoD Real Property - Class 2)
Utility	Inventory of tangible real property improvements which comprise the components of a utility. Includes utilities located exterior of buildings. (DoD Real Property - Class 2)
Structure	Inventory of tangible real property ground improvements structures not associated with a building or utility. (DoD Real Property - Class 2)

# Conceptual Facility Class – Building Subclass Framework (Proposed)

<b>Subclass</b>	<b>Focus Areas</b>
Building	Architectural
	Structural
	Plumbing
	Mechanical
	Electrical
	Security
	Telecommunications
	Fire Protection

Focus areas align with appropriate A/E/C CADD Standards Disciplines. Will contain “as-built/as-is” inventory type attribute tables for use with A/E/C CADD Standards compliant CADD drawings. Links to appropriate SDSFIE Entity Types/Attribute Tables will also be identified and provided. Attribute tables developed under A/E/C CADD Standards project to be incorporated in appropriate Subclass.

# Conceptual Building Subclass – Architectural Focus Area – Data Content (Proposed)

Focus Area	Type of Data to Address
Architectural	Floor
	Roof
	Window Schedule
	Door Schedule
	Finish Plan/Schedule
	Ceiling
	Wall

# Conceptual Building Subclass – Structural

## Focus Area –

### Data Content (Proposed)

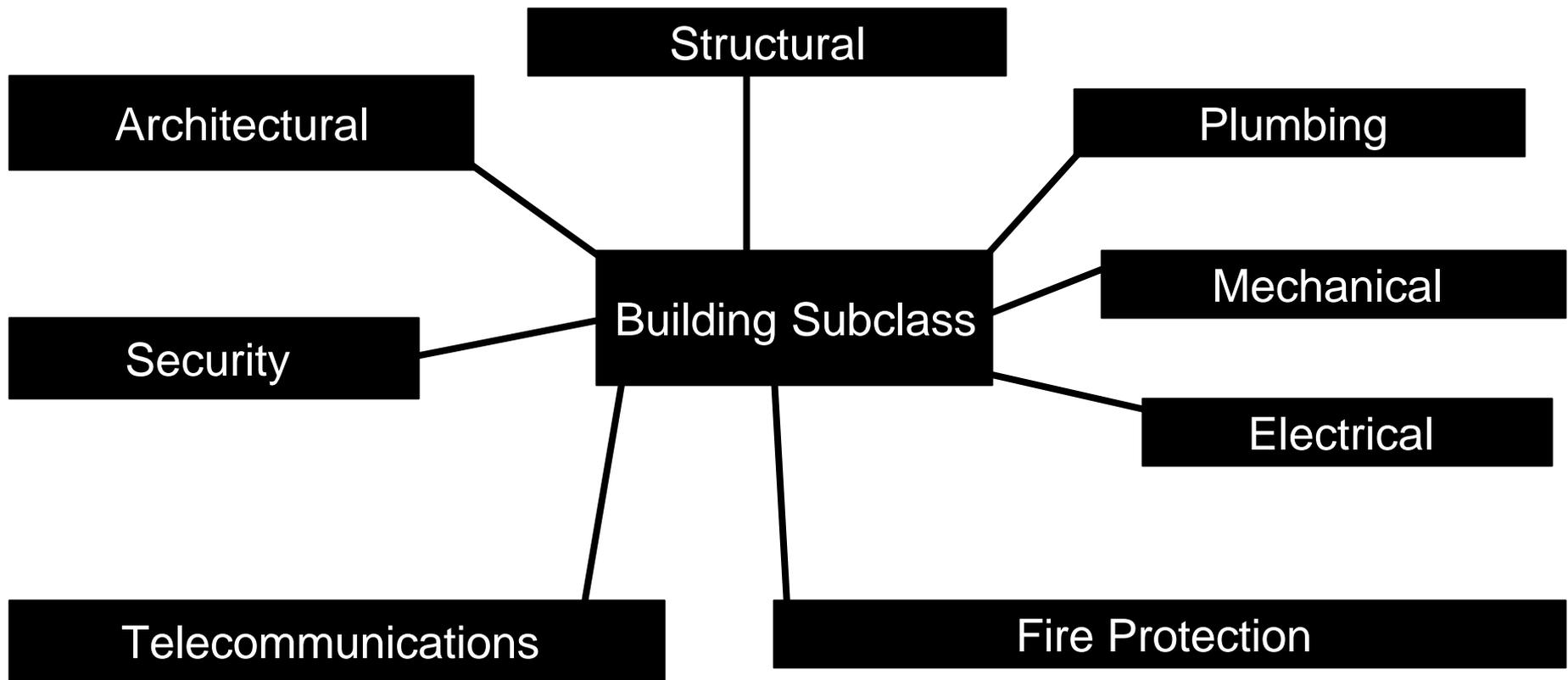
<b>Focus Area</b>	<b>Type of Data to Address</b>
Structural	Foundation
	Wall Framing
	Roof Framing
	Columns
	Footings
	Piling

# Conceptual Building Subclass – Plumbing

## Focus Area – Data Content (Proposed)

Subclass	Type of Data To Address
Plumbing	Piping
	Valves
	Fixtures
	Fittings

# Conceptual Facility Class – Building Subclass Framework (Proposed)

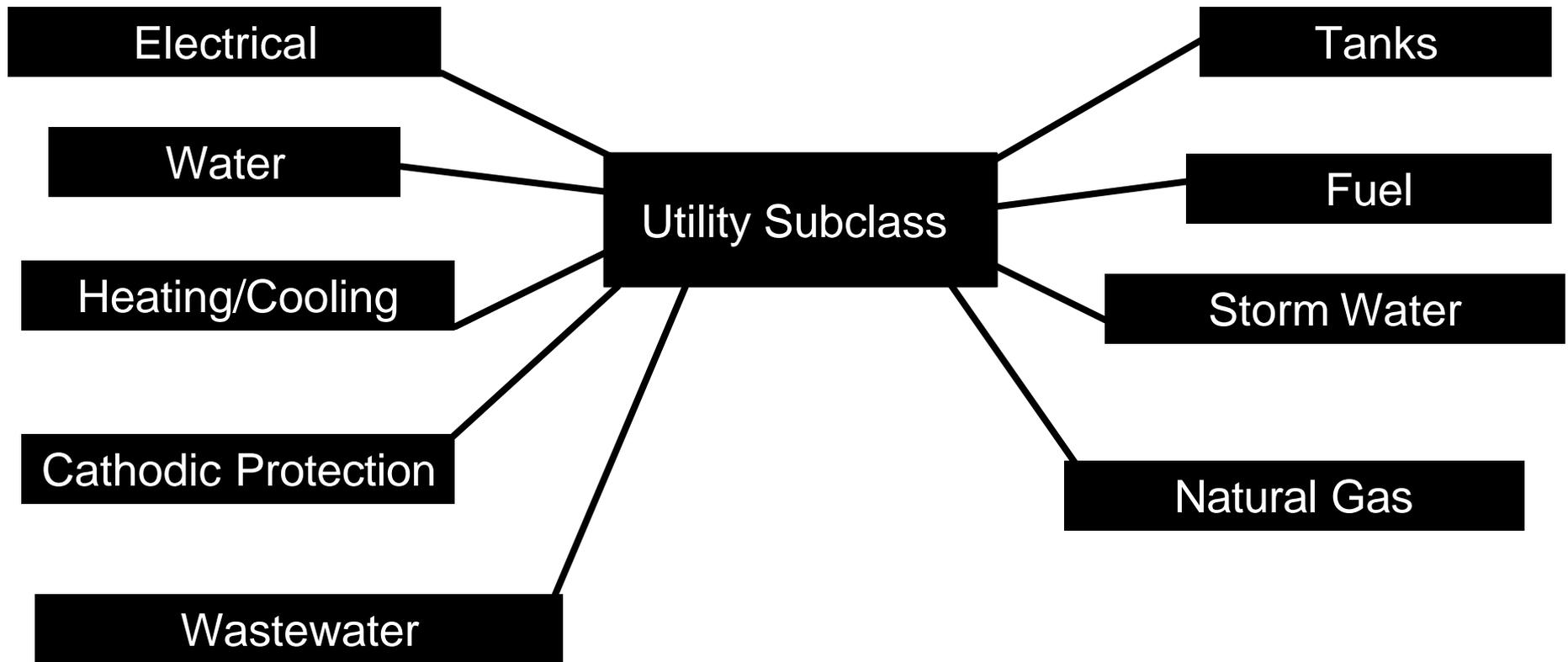


# Conceptual Facility Class – Utility Subclass Framework (Proposed)

<b>Subclass</b>	<b>Focus Areas</b>
Utility	Water
	Wastewater
	Electrical
	Heating/Cooling
	Fuel
	Natural Gas
	Storm Water
	Tanks
	Cathodic Protection (from Robins AFB)

Focus areas align with typical utility related categories and would facilitate migration to Objects. Links to appropriate SDSFIE Entity Types/Attribute Tables and A/E/C CADD Standards Objects will be identified and provided.

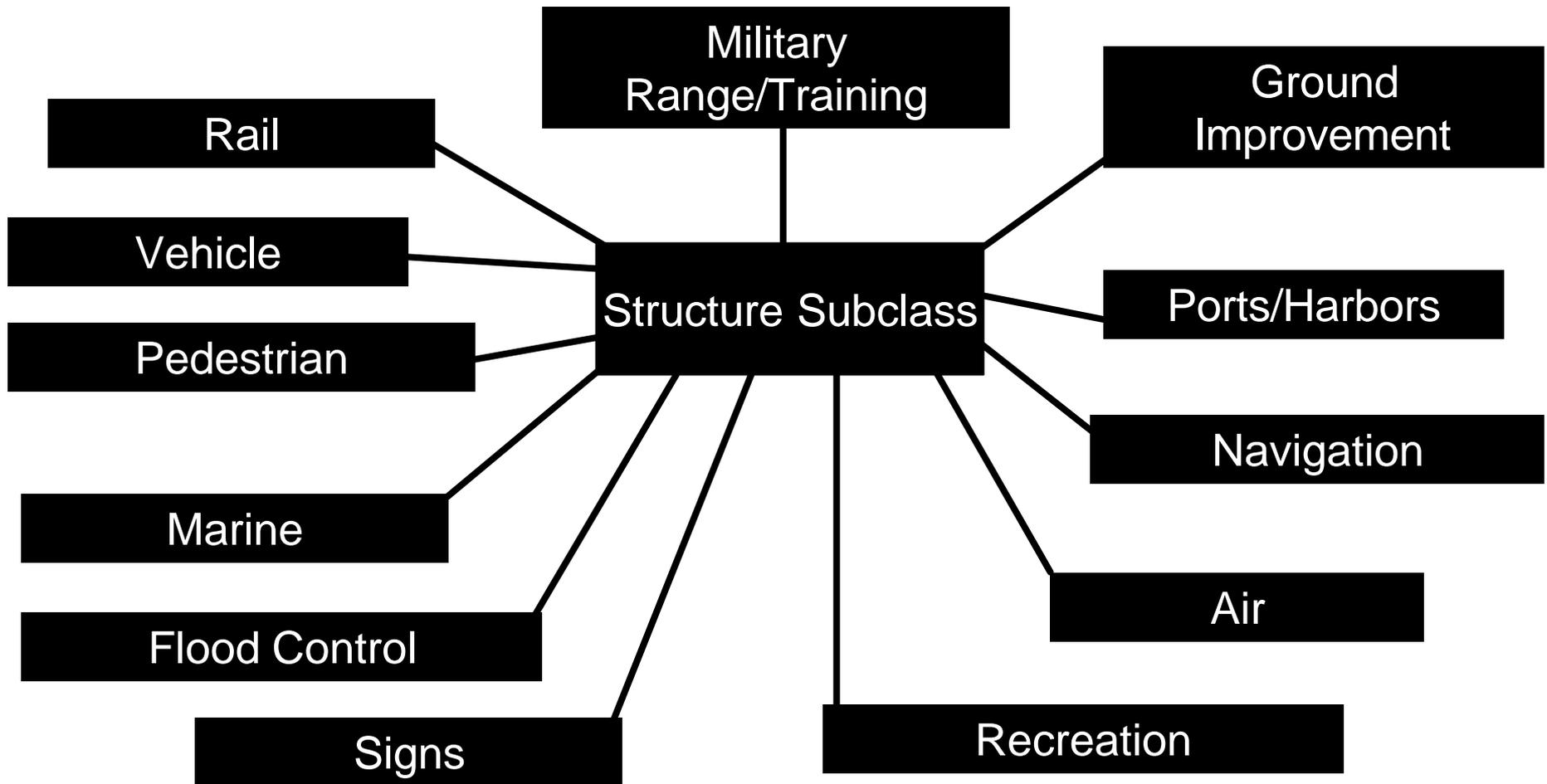
# Conceptual Facility Class – Utility Subclass Framework (Proposed)



# Conceptual Facility Class – Structures Subclass Framework (Proposed)

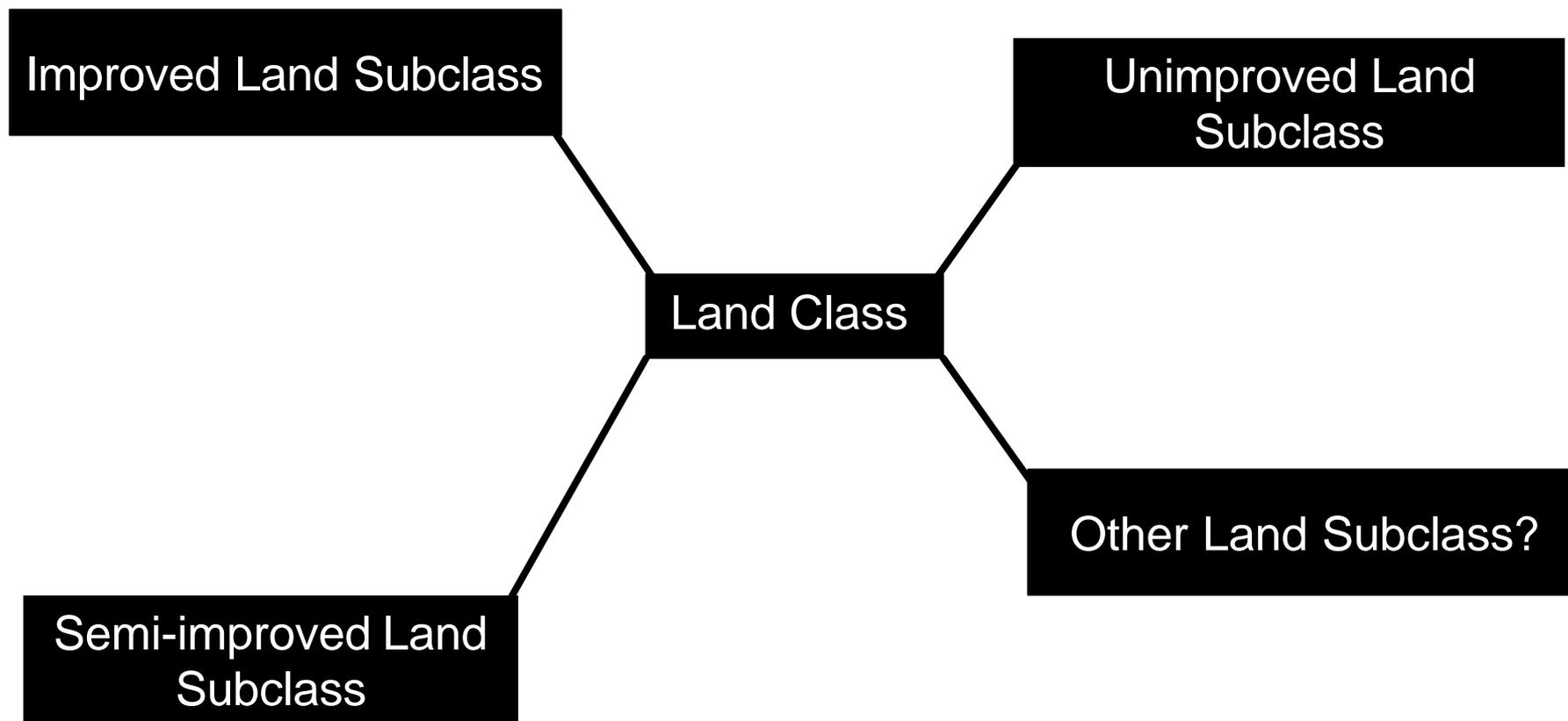
<b>Subclass</b>	<b>Focus Areas</b>
Structures	Vehicle
	Rail
	Air
	Pedestrian
	Marine
	Flood Control
	Navigation
	Recreation
	Ports/Harbors
	Ground Improvements
	Military Range/Training
	Signs

# Conceptual Facility Class – Structures Subclass Framework (Proposed)





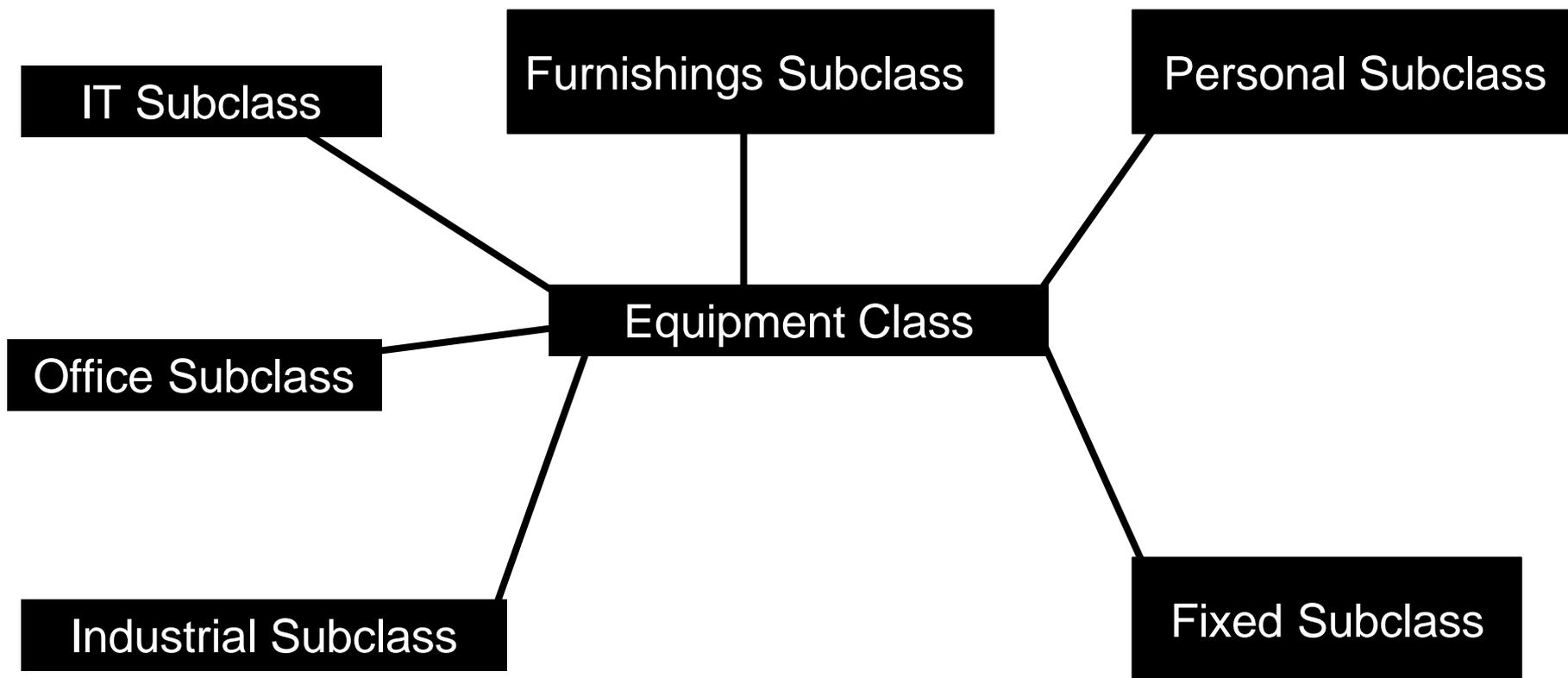
# Conceptual Land Class – Subclasses (proposed)



# Conceptual Equipment Class - Subclasses (Proposed)

<b>Class</b>	<b>Subclasses</b>
Equipment	Information Technology
	Office
	Furnishings
	Personal
	Fixed
	Industrial

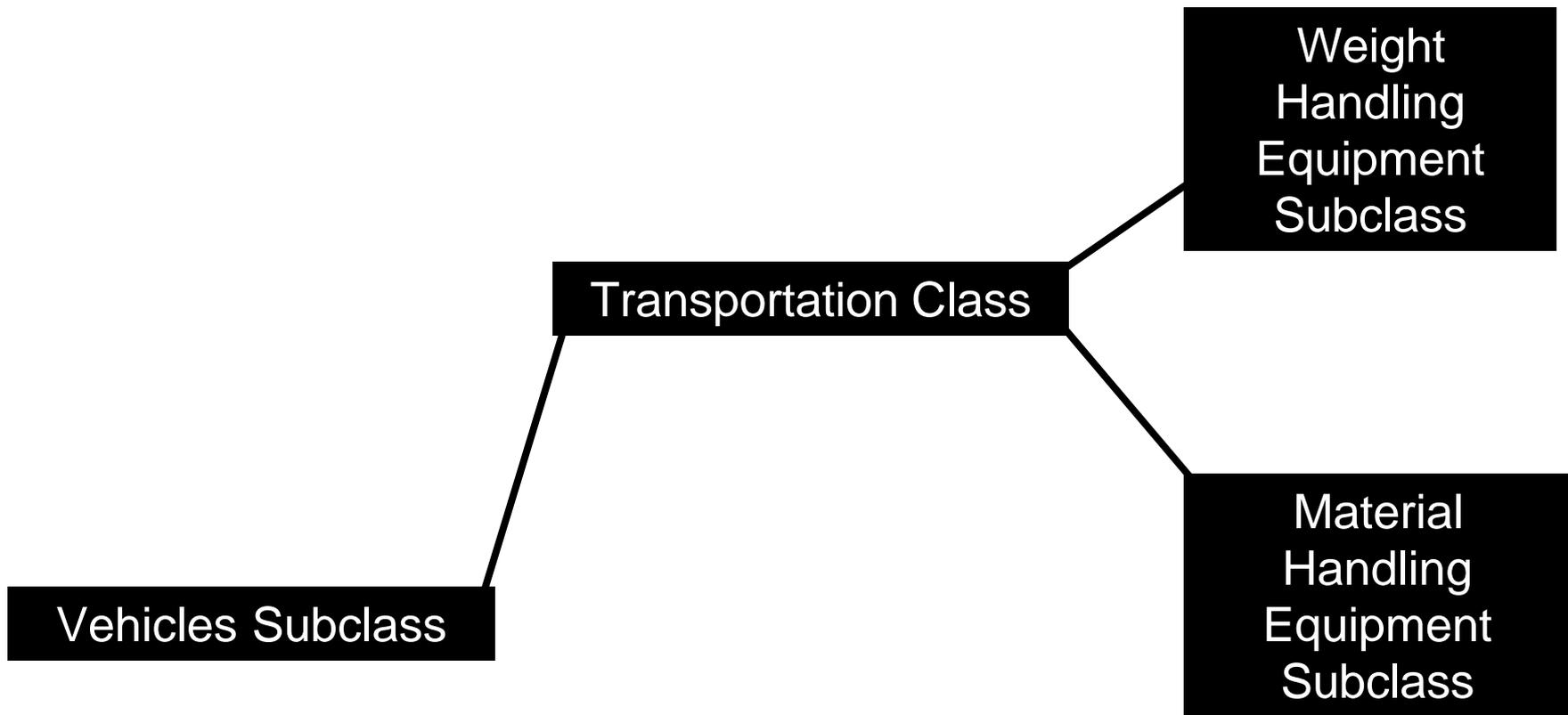
# Conceptual Equipment Class – Subclasses (proposed)



# Conceptual Transportation Class - Subclasses (Proposed)

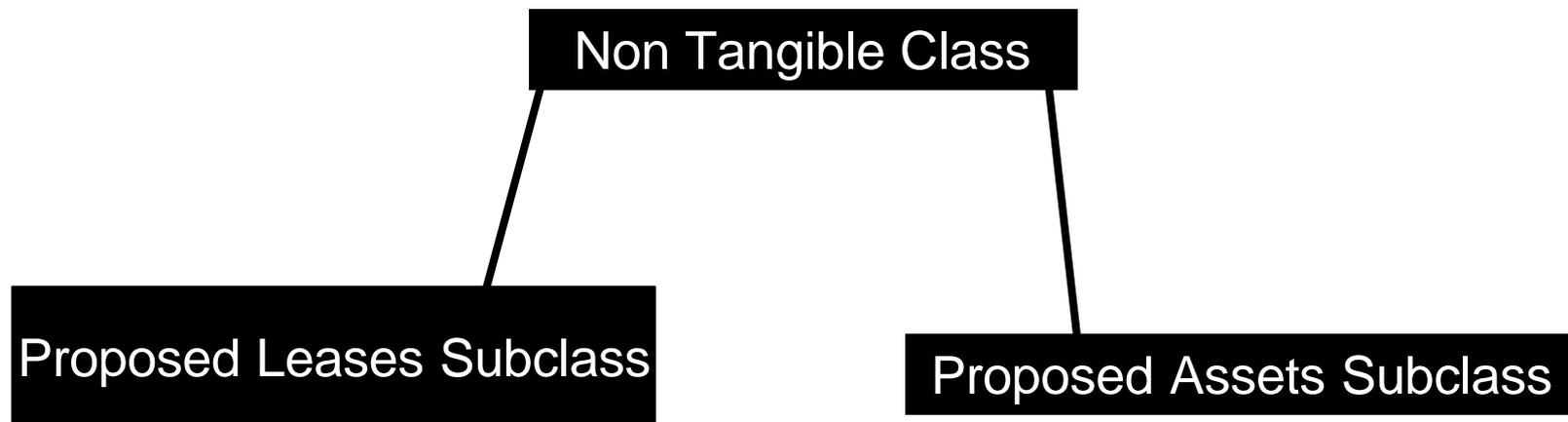
Class	Subclasses
Transportation	Vehicles
	Weight Handling Equipment
	Material Handling Equipment

# Conceptual Transportation Class – Subclasses (proposed)

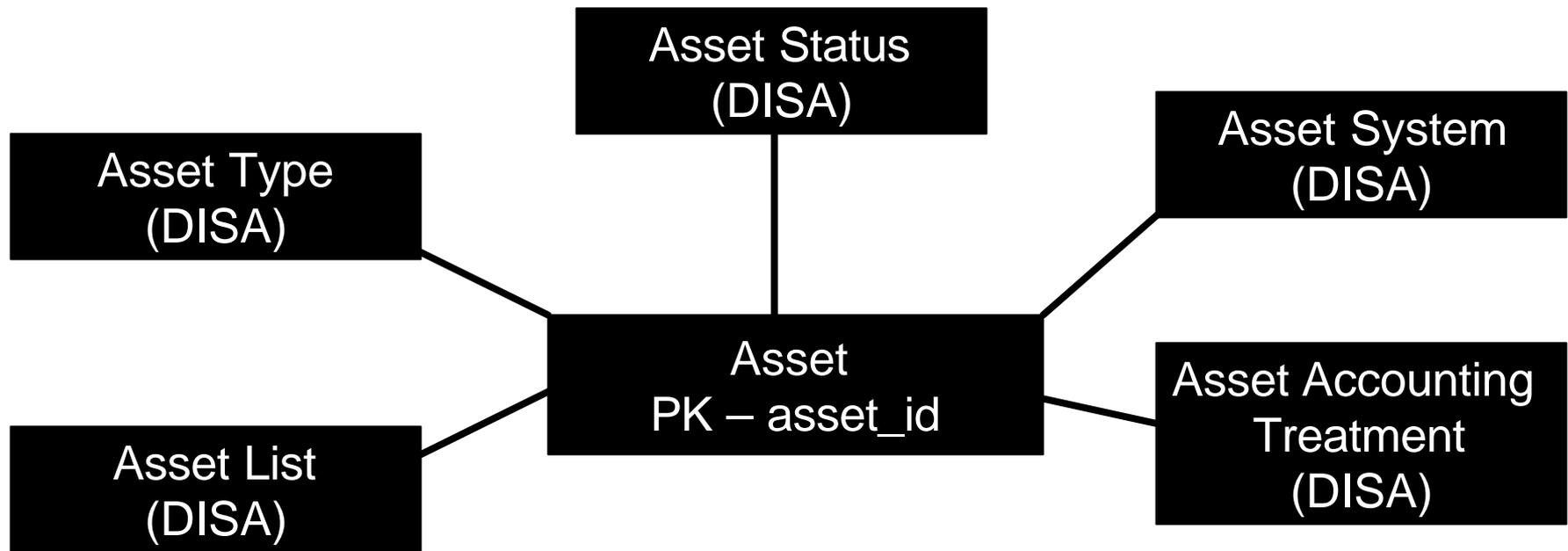




## Conceptual Non Tangible Class – Subclasses (Proposed)



# Conceptual FMSFIE Data Model - Assets Entity Set - Assets Class – DISA DDDS Tables



1. To integrate SDSFIE with the new “transactional” FMSFIE, “asset\_id” would be added as a Foreign Key link to all appropriate SDSFIE tables, as well as all FMSFIE tables.
2. DISA’s Defense Data Dictionary System (DDDS) contains the 5 “Asset” tables listed on this slide. A copy of DISA’s “Asset” ERWIN data model was not available on their website. Definitions were also not available.