New Elements Modeled (Core Concepts)

Classes

1. UrbanArea

   - Label: "Urban Area"

   - Description: "A geographical region characterized by human settlement and built environment"

2. ZoningRegulation

   - Label: "Zoning Regulation"

   - Description: "Legal framework defining land use and development restrictions"

3. TransportHub

   - Label: "Transport Hub"

   - Description: "Central point for multiple transportation modes"

4. GreenSpace

   - Label: "Green Space"

   - Description: "Natural or landscaped areas within urban environments"

5. UrbanDevelopmentProject

   - Label: "Urban Development Project"

   - Description: "Planned initiative to develop or modify urban infrastructure"

6. PublicFacility

   - Label: "Public Facility"

   - Description: "Infrastructure serving community needs"

7. ResidentialZone

   - Label: "Residential Zone"

   - Description: "Area designated primarily for housing"

8. CommercialZone

- Label: "Commercial Zone"

- Description: "Area designated for business and retail"

9. IndustrialZone

  - Label: "Industrial Zone"

  - Description: "Area designated for manufacturing and industrial activities"

10. UrbanPlanner

  - Label: "Urban Planner"

  - Description: "Professional responsible for urban development planning"

Properties

11. hasPopulationDensity

  - Label: "has population density"

  - Description: "Specifies the number of people per unit area"

12. implementsRegulation

  - Label: "implements regulation"

  - Description: "Links an area to its governing regulations"

13. adjacentTo

  - Label: "adjacent to"

  - Description: "Spatial relationship between neighboring areas

14. hasLandUseType

  - Label: "has land use type"

  - Description: "Specifies the designated use of an area"

15. ContainsFacility

  - Label: "contains facility"

  - Description: "Links an area to its facilities"

16. hasTransitAccessibility

- Label: "has transit accessibility"

- Description: "Measures the ease of access to public transportation"

17. maintainedBy

   - Label: "maintained by"

   - Description: "Specifies the entity responsible for maintenance"

18. hasEnvironmentalImpact

   - Label: "has environmental impact"

   - Description: "Quantifies the effect on the environment"

19. servesPopulation

   - Label: "serves population"

   - Description: "Indicates the number of people served by a facility or area"

20. hasConstructionDate

   - Label: "has construction date"

   - Description: "Specifies when a structure or facility was built"

21. requiresPermit

   - Label: "requires permit"

   - Description: "Links to required permits or authorizations"

22. hasCapacity

   - Label: "has capacity"

   - Description: "Specifies the maximum occupancy or usage limit"

23. connectsTo

   - Label: "connects to"

   - Description: "Indicates physical connections between urban elements"

24. hasOperatingHours

   - Label: "has operating hours"

- Description: "Specifies when a facility or service is available"

25. hasRiskLevel

   - Label: "has risk level"

   - Description: "Indicates vulnerability to natural or human-made hazards"

26. providesService

   - Label: "provides service"

   - Description: "Links to services offered in an area or facility"

27. hasHistoricalStatus

   - Label: "has historical status"

   - Description: "Indicates historical or preservation designation"

28. requiresInvestment

   - Label: "requires investment"

   - Description: "Specifies required financial resources for development or maintenance"

29. influencesProperty

   - Label: "influences property"

   - Description: "Indicates impact on surrounding property values"

30. implementProject

   - Label: "Implement Project"

   - Description: "Links to related projects."