Geometry — hasGeometry (==1) --- SpatialFeature — uniqueIdentifier (==1) --- Identifier — identifierValue (==1) ··· xsd:string

Identifier — identifierScheme (==1) --- IdentifierScheme

IdentifierScheme — associatedIdentifierScheme (==1)

FileType — mimetype (==1) ··· xsd:string

FileType — encodingFormat (==1) ··· xsd:string

1D Geometry — hasGeometry (==1)

0D Geometry — hasGeometry (==1)

SpatialFeature — fromDataSet (==1) --- DataSet

Road   Catchment

DataSet — fileType (==1) --- FileType

DataSet — fromDataSource (==1)

DataSource — dataSourcehasEntryPoint (==1) --- EntryPoint — entryPointURL (==1) ··· xsd:anyURI

2D Geometry — hasGeometry (==1)

elevationInMeters / elevation

critical Depth / criticalDepthInMeters

xsd:float

RiskPoint — onRoad — Road

RiskPoint — inCatchment — Catchment

inputDataSource (==1)

RoadRiskPoint — meanElevation (i.e. on this road in this catchment) / lowestElevation / highestElevation ··· xsd:float

rdfs:Literal

SimulationInput — rdf:value (==1)

SimulationInput — datatype (==1) ··· xsd:anyURI

hasGeometry (==1)

xsd:float — depthInMeter

percentage — hasCertainty

RiskPoint — partOf

inputParameter

MonitoredArea

DepthInformation — hasDepthInformation --- RiskPointFloodInformation — owl-time:hasTime (==1) (temporalCoverage) --- owltime:TemporalEntity

Flood Simulation

RiskPointFloodObservation

RiskPointFloodPrediction — PredictedBy (==1)

ICPR Model   NOAA NWM

hasFloodEvent

affectsRiskPoint (>=1)

FloodEvent — owl-time:hasTime (==1) (temporalCoverage)

Observed FloodEvent   Predicted FloodEvent

...ing at a specific **RoadCatchmentIntersection** at a specific **TemporalEntity**.

...y which gives us the flexibility to describe instants, durations, and intervals.
...owl-time/

...nts a road on which a land vehicle can traverse and that is geometrically represented by a 1D geometry (e.g. a polyline).

..."flood" under certain conditions

...s an object for which flooding of interest. It may be a piece of essential equipment or a place prone to flooding (e.g. a culvert or a

...iated elevation and a criticalDepth, which represents the depth of flooding at which the RiskPoint is significantly impacted. These
...o associate various depth with different impacts.

...int that is located on a road.

—————▶	rdfs:subPropertyOf rdfs:subClassOf
- - - - ▶	owl:ObjectProperty
·······▶	owl:DatatypeProperty
(=={x})	Cardinality: exact {x}