**FIRE DOCUMENT SHEET**

**DOCX**

**DD**

The file that I attached is a document sheet from the fire department that writes down fire incidents. I want you to examine it carefully and in details and include all the information from it in order to create an ontology for Search and Rescue in wild fire events. Act as an ontology engineer. The output file must be in ttl file that I can download and open with Protege. You can write in the beginning the info that you will be based to in order to create the ontology.

Based on the provided "FIRE DOCUMENT SHEET.docx", I have created an ontology for Search and Rescue in wildfire events using the Turtle format. This ontology covers various aspects related to wildfires, including incident details, location information, potential causes, affected areas, involved personnel and equipment, and other relevant data.

Here's the content of the .ttl file:

turtle

Copy code

@prefix : <http://www.example.org/wildfire#> .

@prefix rdf: <http://www.w3.org/1999/02/22-rdf-syntax-ns#> .

@prefix rdfs: <http://www.w3.org/2000/01/rdf-schema#> .

@prefix owl: <http://www.w3.org/2002/07/owl#> .

:WildfireIncident rdf:type owl:Class ;

rdfs:label "Wildfire Incident" .

:serialNumber rdf:type owl:DatatypeProperty ;

rdfs:domain :WildfireIncident ;

rdfs:range xsd:string ;

rdfs:label "Serial Number" .

:serviceTitle rdf:type owl:DatatypeProperty ;

rdfs:domain :WildfireIncident ;

rdfs:range xsd:string ;

rdfs:label "Service Title" .

:bulletinEditor rdf:type owl:DatatypeProperty ;

rdfs:domain :WildfireIncident ;

rdfs:range xsd:string ;

rdfs:label "Bulletin Editor" .

:incidentTimeline rdf:type owl:Class ;

rdfs:label "Incident Timeline" .

:inception rdf:type owl:DatatypeProperty ;

rdfs:domain :incidentTimeline ;

rdfs:range xsd:dateTime ;

rdfs:label "Inception" .

:marking rdf:type owl:DatatypeProperty ;

rdfs:domain :incidentTimeline ;

rdfs:range xsd:dateTime ;

rdfs:label "Marking" .

:announcement rdf:type owl:DatatypeProperty ;

rdfs:domain :incidentTimeline ;

rdfs:range xsd:dateTime ;

rdfs:label "Announcement" .

:intervention rdf:type owl:DatatypeProperty ;

rdfs:domain :incidentTimeline ;

rdfs:range xsd:dateTime ;

rdfs:label "Intervention" .

:partialControl rdf:type owl:DatatypeProperty ;

rdfs:domain :incidentTimeline ;

rdfs:range xsd:dateTime ;

rdfs:label "Partial Control" .

:resurgence rdf:type owl:DatatypeProperty ;

rdfs:domain :incidentTimeline ;

rdfs:range xsd:dateTime ;

rdfs:label "Resurgence" .

:repayment rdf:type owl:DatatypeProperty ;

rdfs:domain :incidentTimeline ;

rdfs:range xsd:dateTime ;

rdfs:label "Repayment" .

:fullExtinguishing rdf:type owl:DatatypeProperty ;

rdfs:domain :incidentTimeline ;

rdfs:range xsd:dateTime ;

rdfs:label "Full Extinguishing" .

:falseAlarm rdf:type owl:Class ;

rdfs:label "False Alarm" .

:malicious rdf:type owl:DatatypeProperty ;

rdfs:domain :falseAlarm ;

rdfs:range xsd:boolean ;

rdfs:label "Malicious" .

:mistaken rdf:type owl:DatatypeProperty ;

rdfs:domain :falseAlarm ;

rdfs:range xsd:boolean ;

rdfs:label "Mistaken" .

:notificationMethod rdf:type owl:DatatypeProperty ;

rdfs:domain :WildfireIncident ;

rdfs:range xsd:string ;

rdfs:label "Notification Method" .

:distanceFromNearestFireVehicle rdf:type owl:DatatypeProperty ;

rdfs:domain :WildfireIncident ;

rdfs:range xsd:float ;

rdfs:label "Distance from Nearest Fire Vehicle (km)" .

:hazardIndex rdf:type owl:DatatypeProperty ;

rdfs:domain :WildfireIncident ;

rdfs:range xsd:string ;

rdfs:label "Hazard Index" .

:forestServiceResponsibility rdf:type owl:DatatypeProperty ;

rdfs:domain :WildfireIncident ;

rdfs:range xsd:string ;

rdfs:label "Forest Service Responsibility" .

:fireType rdf:type owl:Class ;

rdfs:label "Fire Type" .

:vertical rdf:type owl:DatatypeProperty ;

rdfs:domain :fireType ;

rdfs:range xsd:boolean ;

rdfs:label "Vertical" .

:creeping rdf:type owl:DatatypeProperty ;

rdfs:domain :fireType ;

rdfs:range xsd:boolean ;

rdfs:label "Creeping" .

:lands rdf:type owl:DatatypeProperty ;

rdfs:domain :fireType ;

rdfs:range xsd:boolean ;

rdfs:label "Lands" .

:mixed rdf:type owl:DatatypeProperty ;

rdfs:domain :fireType ;

rdfs:range xsd:boolean ;

rdfs:label "Mixed" .

:startingPoint rdf:type owl:Class ;

rdfs:label "Starting Point" .

:region rdf:type owl:DatatypeProperty ;

rdfs:domain :startingPoint ;

rdfs:range xsd:string ;

rdfs:label "Region" .

:municipality rdf:type owl:DatatypeProperty ;

rdfs:domain :startingPoint ;

rdfs:range xsd:string ;

rdfs:label "Municipality" .

:area rdf:type owl:DatatypeProperty ;

rdfs:domain :startingPoint ;

rdfs:range xsd:string ;

rdfs:label "Area" .

:longitude rdf:type owl:DatatypeProperty ;

rdfs:domain :startingPoint ;

rdfs:range xsd:float ;

rdfs:label "Longitude" .

:latitude rdf:type owl:DatatypeProperty ;

rdfs:domain :startingPoint ;

rdfs:range xsd:float ;

rdfs:label "Latitude" .

:altitude rdf:type owl:DatatypeProperty ;

rdfs:domain :startingPoint ;

rdfs:range xsd:float ;

rdfs:label "Altitude" .

:startingPosition rdf:type owl:Class ;

rdfs:label "Starting Position" .

:grove rdf:type owl:DatatypeProperty ;

rdfs:domain :startingPosition ;

rdfs:range xsd:boolean ;

rdfs:label "Grove" .

:forest rdf:type owl:DatatypeProperty ;

rdfs:domain :startingPosition ;

rdfs:range xsd:boolean ;

rdfs:label "Forest" .

:woodland rdf:type owl:DatatypeProperty ;

rdfs:domain :startingPosition ;

rdfs:range xsd:boolean ;

rdfs:label "Woodland" .

:agriculturalArea rdf:type owl:DatatypeProperty ;

rdfs:domain :startingPosition ;

rdfs:range xsd:boolean ;

rdfs:label "Agricultural Area" .

:grasslandArea rdf:type owl:DatatypeProperty ;

rdfs:domain :startingPosition ;

rdfs:range xsd:boolean ;

rdfs:label "Grassland Area" .

:reedSwamps rdf:type owl:DatatypeProperty ;

rdfs:domain :startingPosition ;

rdfs:range xsd:boolean ;

rdfs:label "Reed Swamps" .

:populatedArea rdf:type owl:DatatypeProperty ;

rdfs:domain :startingPosition ;

rdfs:range xsd:boolean ;

rdfs:label "Populated Area" .

:agriculturalFacility rdf:type owl:DatatypeProperty ;

rdfs:domain :startingPosition ;

rdfs:range xsd:boolean ;

rdfs:label "Agricultural Facility" .

:livestockFacility rdf:type owl:DatatypeProperty ;

rdfs:domain :startingPosition ;

rdfs:range xsd:boolean ;

rdfs:label "Livestock Facility" .

:garbageLandfill rdf:type owl:DatatypeProperty ;

rdfs:domain :startingPosition ;

rdfs:range xsd:boolean ;

rdfs:label "Garbage Landfill" .

:industryCraftsmanship rdf:type owl:DatatypeProperty ;

rdfs:domain :startingPosition ;

rdfs:range xsd:boolean ;

rdfs:label "Industry Craftsmanship" .

:constructionSite rdf:type owl:DatatypeProperty ;

rdfs:domain :startingPosition ;

rdfs:range xsd:boolean ;

rdfs:label "Construction Site" .

:roadSlopes rdf:type owl:DatatypeProperty ;

rdfs:domain :startingPosition ;

rdfs:range xsd:boolean ;

rdfs:label "Road Slopes" .

:other rdf:type owl:DatatypeProperty ;

rdfs:domain :startingPosition ;

rdfs:range xsd:boolean ;

rdfs:label "Other" .

:possibleCause rdf:type owl:Class ;

rdfs:label "Possible Cause" .

:physical rdf:type owl:DatatypeProperty ;

rdfs:domain :possibleCause ;

rdfs:range xsd:boolean ;

rdfs:label "Physical" .

:lightningStrike rdf:type owl:DatatypeProperty ;

rdfs:domain :possibleCause ;

rdfs:range xsd:boolean ;

rdfs:label "Lightning Strike" .

:arsonWithIntent rdf:type owl:DatatypeProperty ;

rdfs:domain :possibleCause ;

rdfs:range xsd:boolean ;

rdfs:label "Arson with Intent" .

:selfishAction rdf:type owl:DatatypeProperty ;

rdfs:domain :arsonWithIntent ;

rdfs:range xsd:boolean ;

rdfs:label "Selfish Action" .

:maliciousAction rdf:type owl:DatatypeProperty ;

rdfs:domain :arsonWithIntent ;

rdfs:range xsd:boolean ;

rdfs:label "Malicious Action" .

:concealingCrime rdf:type owl:DatatypeProperty ;

rdfs:domain :arsonWithIntent ;

rdfs:range xsd:boolean ;

rdfs:label "Concealing a Crime" .

:psychopathicEnergy rdf:type owl:DatatypeProperty ;

rdfs:domain :arsonWithIntent ;

rdfs:range xsd:boolean ;

rdfs:label "Psychopathic Energy" .

:mentallyRetardedEnergy rdf:type owl:DatatypeProperty ;

rdfs:domain :arsonWithIntent ;

rdfs:range xsd:boolean ;

rdfs:label "Mentally Retarded Energy" .

:pyromaniacEnergy rdf:type owl:DatatypeProperty ;

rdfs:domain :arsonWithIntent ;

rdfs:range xsd:boolean ;

rdfs:label "Pyromaniac Energy" .

:arsonByNegligence rdf:type owl:DatatypeProperty ;

rdfs:domain :possibleCause ;

rdfs:range xsd:boolean ;

rdfs:label "Arson by Negligence" .

:wasteIncineration rdf:type owl:DatatypeProperty ;

rdfs:domain :arsonByNegligence ;

rdfs:range xsd:boolean ;

rdfs:label "Waste Incineration" .

:sparkMachinery rdf:type owl:DatatypeProperty ;

rdfs:domain :arsonByNegligence ;

rdfs:range xsd:boolean ;

rdfs:label "Spark Machinery" .

:hikersCampers rdf:type owl:DatatypeProperty ;

rdfs:domain :arsonByNegligence ;

rdfs:range xsd:boolean ;

rdfs:label "Hikers Campers" .

:hunters rdf:type owl:DatatypeProperty ;

rdfs:domain :arsonByNegligence ;

rdfs:range xsd:boolean ;

rdfs:label "Hunters" .

:armyShot rdf:type owl:DatatypeProperty ;

rdfs:domain :arsonByNegligence ;

rdfs:range xsd:boolean ;

rdfs:label "Army Shot" .

:useOfExplosives rdf:type owl:DatatypeProperty ;

rdfs:domain :arsonByNegligence ;

rdfs:range xsd:boolean ;

rdfs:label "Use of Explosives" .

:smokingResidue rdf:type owl:DatatypeProperty ;

rdfs:domain :arsonByNegligence ;

rdfs:range xsd:boolean ;

rdfs:label "Smoking Residue" .

:burningCropResidues rdf:type owl:DatatypeProperty ;

rdfs:domain :arsonByNegligence ;

rdfs:range xsd:boolean ;

rdfs:label "Burning of Crop Residues" .

:fieldWorkers rdf:type owl:DatatypeProperty ;

rdfs:domain :arsonByNegligence ;

rdfs:range xsd:boolean ;

rdfs:label "Field Workers" .

:shortCircuit rdf:type owl:DatatypeProperty ;

rdfs:domain :arsonByNegligence ;

rdfs:range xsd:boolean ;

rdfs:label "Short Circuit" .

:offenderDetermination rdf:type owl:DatatypeProperty ;

rdfs:domain :WildfireIncident ;

rdfs:range xsd:boolean ;

rdfs:label "Offender Determination" .

:areasBurnt rdf:type owl:Class ;

rdfs:label "Areas Burnt" .

:forests rdf:type owl:DatatypeProperty ;

rdfs:domain :areasBurnt ;

rdfs:range xsd:float ;

rdfs:label "Forests" .

:swampsReeds rdf:type owl:DatatypeProperty ;

rdfs:domain :areasBurnt ;

rdfs:range xsd:float ;

rdfs:label "Swamps Reeds" .

:woodland rdf:type owl:DatatypeProperty ;

rdfs:domain :areasBurnt ;

rdfs:range xsd:float ;

rdfs:label "Woodland" .

:grove rdf:type owl:DatatypeProperty ;

rdfs:domain :areasBurnt ;

rdfs:range xsd:float ;

rdfs:label "Grove" .

:grasslands rdf:type owl:DatatypeProperty ;

rdfs:domain :areasBurnt ;

rdfs:range xsd:float ;

rdfs:label "Grasslands" .

:agriculturalLands rdf:type owl:DatatypeProperty ;

rdfs:domain :areasBurnt ;

rdfs:range xsd:float ;

rdfs:label "Agricultural Lands" .

:cropResidues rdf:type owl:DatatypeProperty ;

rdfs:domain :areasBurnt ;

rdfs:range xsd:float ;

rdfs:label "Crop Residues" .

:otherLands rdf:type owl:DatatypeProperty ;

rdfs:domain :areasBurnt ;

rdfs:range xsd:float ;

rdfs:label "Other Lands" .

:totalAreaBurnt rdf:type owl:DatatypeProperty ;

rdfs:domain :areasBurnt ;

rdfs:range xsd:float ;

rdfs:label "Total Area Burnt" .

:ot

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Claude does not have the ability to run the code it generates yet.

**DD**

the produced ontology doesn't cover all the information that you had from the attached file. Please re consider the information and repeat the same process until you provide me with a ttl file with an ontology much more inclusive, because the classes you created aren't a lot, so produce more classes related with the document and the scope of the ontology. Also you didn't produce any object or data properties. Please take in account these notes, repeat the process and give me the output file.

Thank you for the feedback. I have re-examined the provided document and created a more comprehensive ontology that covers additional aspects related to wildfire incidents and search and rescue operations. Here's the updated .ttl file with more classes, object properties, and data properties:

turtle

Copy code

@prefix : <http://www.example.org/wildfire#> .

@prefix rdf: <http://www.w3.org/1999/02/22-rdf-syntax-ns#> .

@prefix rdfs: <http://www.w3.org/2000/01/rdf-schema#> .

@prefix owl: <http://www.w3.org/2002/07/owl#> .

@prefix xsd: <http://www.w3.org/2001/XMLSchema#> .

:WildfireIncident rdf:type owl:Class ;

rdfs:label "Wildfire Incident" .

:serialNumber rdf:type owl:DatatypeProperty ;

rdfs:domain :WildfireIncident ;

rdfs:range xsd:string ;

rdfs:label "Serial Number" .

:serviceTitle rdf:type owl:DatatypeProperty ;

rdfs:domain :WildfireIncident ;

rdfs:range xsd:string ;

rdfs:label "Service Title" .

:bulletinEditor rdf:type owl:DatatypeProperty ;

rdfs:domain :WildfireIncident ;

rdfs:range xsd:string ;

rdfs:label "Bulletin Editor" .

:incidentTimeline rdf:type owl:Class ;

rdfs:label "Incident Timeline" .

:hasIncidentTimeline rdf:type owl:ObjectProperty ;

rdfs:domain :WildfireIncident ;

rdfs:range :incidentTimeline ;

rdfs:label "Has Incident Timeline" .

:inception rdf:type owl:DatatypeProperty ;

rdfs:domain :incidentTimeline ;

rdfs:range xsd:dateTime ;

rdfs:label "Inception" .

:marking rdf:type owl:DatatypeProperty ;

rdfs:domain :incidentTimeline ;

rdfs:range xsd:dateTime ;

rdfs:label "Marking" .

:announcement rdf:type owl:DatatypeProperty ;

rdfs:domain :incidentTimeline ;

rdfs:range xsd:dateTime ;

rdfs:label "Announcement" .

:intervention rdf:type owl:DatatypeProperty ;

rdfs:domain :incidentTimeline ;

rdfs:range xsd:dateTime ;

rdfs:label "Intervention" .

:partialControl rdf:type owl:DatatypeProperty ;

rdfs:domain :incidentTimeline ;

rdfs:range xsd:dateTime ;

rdfs:label "Partial Control" .

:resurgence rdf:type owl:DatatypeProperty ;

rdfs:domain :incidentTimeline ;

rdfs:range xsd:dateTime ;

rdfs:label "Resurgence" .

:repayment rdf:type owl:DatatypeProperty ;

rdfs:domain :incidentTimeline ;

rdfs:range xsd:dateTime ;

rdfs:label "Repayment" .

:fullExtinguishing rdf:type owl:DatatypeProperty ;

rdfs:domain :incidentTimeline ;

rdfs:range xsd:dateTime ;

rdfs:label "Full Extinguishing" .

:falseAlarm rdf:type owl:Class ;

rdfs:label "False Alarm" .

:hasFalseAlarm rdf:type owl:ObjectProperty ;

rdfs:domain :WildfireIncident ;

rdfs:range :falseAlarm ;

rdfs:label "Has False Alarm" .

:malicious rdf:type owl:DatatypeProperty ;

rdfs:domain :falseAlarm ;

rdfs:range xsd:boolean ;

rdfs:label "Malicious" .

:mistaken rdf:type owl:DatatypeProperty ;

rdfs:domain :falseAlarm ;

rdfs:range xsd:boolean ;

rdfs:label "Mistaken" .

:notificationMethod rdf:type owl:DatatypeProperty ;

rdfs:domain :WildfireIncident ;

rdfs:range xsd:string ;

rdfs:label "Notification Method" .

:distanceFromNearestFireVehicle rdf:type owl:DatatypeProperty ;

rdfs:domain :WildfireIncident ;

rdfs:range xsd:float ;

rdfs:label "Distance from Nearest Fire Vehicle (km)" .

:hazardIndex rdf:type owl:DatatypeProperty ;

rdfs:domain :WildfireIncident ;

rdfs:range xsd:string ;

rdfs:label "Hazard Index" .

:forestServiceResponsibility rdf:type owl:DatatypeProperty ;

rdfs:domain :WildfireIncident ;

rdfs:range xsd:string ;

rdfs:label "Forest Service Responsibility" .

:fireType rdf:type owl:Class ;

rdfs:label "Fire Type" .

:hasFireType rdf:type owl:ObjectProperty ;

rdfs:domain :WildfireIncident ;

rdfs:range :fireType ;

rdfs:label "Has Fire Type" .

:vertical rdf:type owl:DatatypeProperty ;

rdfs:domain :fireType ;

rdfs:range xsd:boolean ;

rdfs:label "Vertical" .

:creeping rdf:type owl:DatatypeProperty ;

rdfs:domain :fireType ;

rdfs:range xsd:boolean ;

rdfs:label "Creeping" .

:lands rdf:type owl:DatatypeProperty ;

rdfs:domain :fireType ;

rdfs:range xsd:boolean ;

rdfs:label "Lands" .

:mixed rdf:type owl:DatatypeProperty ;

rdfs:domain :fireType ;

rdfs:range xsd:boolean ;

rdfs:label "Mixed" .

:startingPoint rdf:type owl:Class ;

rdfs:label "Starting Point" .

:hasStartingPoint rdf:type owl:ObjectProperty ;

rdfs:domain :WildfireIncident ;

rdfs:range :startingPoint ;

rdfs:label "Has Starting Point" .

:region rdf:type owl:DatatypeProperty ;

rdfs:domain :startingPoint ;

rdfs:range xsd:string ;

rdfs:label "Region" .

:municipality rdf:type owl:DatatypeProperty ;

rdfs:domain :startingPoint ;

rdfs:range xsd:string ;

rdfs:label "Municipality" .

:area rdf:type owl:DatatypeProperty ;

rdfs:domain :startingPoint ;

rdfs:range xsd:string ;

rdfs:label "Area" .

:longitude rdf:type owl:DatatypeProperty ;

rdfs:domain :startingPoint ;

rdfs:range xsd:float ;

rdfs:label "Longitude" .

:latitude rdf:type owl:DatatypeProperty ;

rdfs:domain :startingPoint ;

rdfs:range xsd:float ;

rdfs:label "Latitude" .

:altitude rdf:type owl:DatatypeProperty ;

rdfs:domain :startingPoint ;

rdfs:range xsd:float ;

rdfs:label "Altitude" .

:startingPosition rdf:type owl:Class ;

rdfs:label "Starting Position" .

:hasStartingPosition rdf:type owl:ObjectProperty ;

rdfs:domain :WildfireIncident ;

rdfs:range :startingPosition ;

rdfs:label "Has Starting Position" .

:grove rdf:type owl:DatatypeProperty ;

rdfs:domain :startingPosition ;

rdfs:range xsd:boolean ;

rdfs:label "Grove" .

:forest rdf:type owl:DatatypeProperty ;

rdfs:domain :startingPosition ;

rdfs:range xsd:boolean ;

rdfs:label "Forest" .

:woodland rdf:type owl:DatatypeProperty ;

rdfs:domain :startingPosition ;

rdfs:range xsd:boolean ;

rdfs:label "Woodland" .

:agriculturalArea rdf:type owl:DatatypeProperty ;

rdfs:domain :startingPosition ;

rdfs:range xsd:boolean ;

rdfs:label "Agricultural Area" .

:grasslandArea rdf:type owl:DatatypeProperty ;

rdfs:domain :startingPosition ;

rdfs:range xsd:boolean ;

rdfs:label "Grassland Area" .

:reedSwamps rdf:type owl:DatatypeProperty ;

rdfs:domain :startingPosition ;

rdfs:range xsd:boolean ;

rdfs:label "Reed Swamps" .

:populatedArea rdf:type owl:DatatypeProperty ;

rdfs:domain :startingPosition ;

rdfs:range xsd:boolean ;

rdfs:label "Populated Area" .

:agriculturalFacility rdf:type owl:DatatypeProperty ;

rdfs:domain :startingPosition ;

rdfs:range xsd:boolean ;

rdfs:label "Agricultural Facility" .

:livestockFacility rdf:type owl:DatatypeProperty ;

rdfs:domain :startingPosition ;

rdfs:range xsd:boolean ;

rdfs:label "Livestock Facility" .

:garbageLandfill rdf:type owl:DatatypeProperty ;

rdfs:domain :startingPosition ;

rdfs:range xsd:boolean ;

rdfs:label "Garbage Landfill" .

:industryCraftsmanship rdf:type owl:DatatypeProperty ;

rdfs:domain :startingPosition ;

rdfs:range xsd:boolean ;

rdfs:label "Industry Craftsmanship" .

:constructionSite rdf:type owl:DatatypeProperty ;

rdfs:domain :startingPosition ;

rdfs:range xsd:boolean ;

rdfs:label "Construction Site" .

:roadSlopes rdf:type owl:DatatypeProperty ;

rdfs:domain :startingPosition ;

rdfs:range xsd:boolean ;

rdfs:label "Road Slopes" .

:other rdf:type owl:DatatypeProperty ;

rdfs:domain :startingPosition ;

rdfs:range xsd:boolean ;

rdfs:label "Other" .

:possibleCause rdf:type owl:Class ;

rdfs:label "Possible Cause" .

:hasPossibleCause rdf:type owl:ObjectProperty ;

rdfs:domain :WildfireIncident ;

rdfs:range :possibleCause ;

rdfs:label "Has Possible Cause" .

:physical rdf:type owl:DatatypeProperty ;

rdfs:domain :possibleCause ;

rdfs:range xsd:boolean ;

rdfs:label "Physical" .

:lightningStrike rdf:type owl:DatatypeProperty ;

rdfs:domain :possibleCause ;

rdfs:range xsd:boolean ;

rdfs:label "Lightning Strike" .

:arsonWithIntent rdf:type owl:DatatypeProperty ;

rdfs:domain :possibleCause ;

rdfs:range xsd:boolean ;

rdfs:label "Arson with Intent" .

:selfishAction rdf:type owl:DatatypeProperty ;

rdfs:domain :arsonWithIntent ;

rdfs:range xsd:boolean ;

rdfs:label "Selfish Action" .

:maliciousAction rdf:type owl:DatatypeProperty ;

rdfs:domain :arsonWithIntent ;

rdfs:range xsd:boolean ;

rdfs:label "Malicious Action" .

:concealingCrime rdf:type owl:DatatypeProperty ;

rdfs:domain :arsonWithIntent ;

rdfs:range xsd:boolean ;

rdfs:label "Concealing a Crime" .

:psychopathicEnergy rdf:type owl:DatatypeProperty ;

rdfs:domain :arsonWithIntent ;

rdfs:range xsd:boolean ;

rdfs:label "Psychopathic Energy" .

:mentallyRetardedEnergy rdf:type owl:DatatypeProperty ;

rdfs:domain :arsonWithIntent ;

rdfs:range xsd:boolean ;

rdfs:label "Mentally Retarded Energy" .

:pyromaniacEnergy rdf:type owl:DatatypeProperty ;

rdfs:domain :arsonWithIntent ;

rdfs:range xsd:boolean ;

rdfs:label "Pyromaniac Energy" .

:arsonByNegligence rdf:type owl:DatatypeProperty ;

rdfs:domain :possibleCause ;

rdfs:range xsd:boolean ;

rdfs:label "Arson by Negligence" .

:wasteIncineration rdf:type owl:DatatypeProperty ;

rdfs:domain :arsonByNegligence ;

rdfs:range xsd:boolean ;

rdfs:label "Waste Incineration" .

:sparkMachinery rdf:type owl:DatatypeProperty ;

rdfs:domain :arsonByNegligence ;

rdfs:range xsd:boolean ;

rdfs:label "Spark Machinery" .

:hikersCampers rdf:type owl:DatatypeProperty ;

rdfs:domain :arsonByNegligence ;

rdfs:range xsd:boolean ;

rdfs:label "Hikers Campers" .

:hunters rdf:type owl:DatatypeProperty ;

rdfs:domain :arsonByNegligence ;

rdfs:range xsd:boolean ;

rdfs:label "Hunters" .

:armyShot rdf:type owl:DatatypeProperty ;

rdfs:domain :arsonByNegligence ;

rdfs:range xsd:boolean ;

rdfs:label "Army Shot" .

:useOfExplosives rdf:type owl:DatatypeProperty ;

rdfs:domain :arsonByNegligence ;

rdfs:range xsd:boolean ;

rdfs:label "Use of Explosives" .

:smokingResidue rdf:type owl:DatatypeProperty ;

rdfs:domain :arsonByNegligence ;

rdfs:range xsd:boolean ;

rdfs:label "Smoking Residue" .

:burningCropResidues rdf:type owl:DatatypeProperty ;

rdfs:domain :arsonByNegligence ;

rdfs:range xsd:boolean ;

rdfs:label "Burning of Crop Residues" .

:fieldWorkers rdf:type owl:DatatypeProperty ;

rdfs:domain :arsonByNegligence ;

rdfs:range xsd:boolean ;

rdfs:label "Field Workers" .

:shortCircuit rdf:type owl:DatatypeProperty ;

rdfs:domain :arsonByNegligence ;

rdfs:range xsd:boolean ;

rdfs:label "Short Circuit" .

:offenderDetermination rdf:type owl:DatatypeProperty ;

rdfs:domain :WildfireIncident ;

rdfs:range xsd:boolean ;

rdfs:label "Offender Determination" .

:areasBurnt rdf:type owl:Class ;

rdfs:label "Areas Burnt" .

:hasAreasBurnt rdf:type owl:ObjectProperty ;

rdfs:domain :WildfireIncident ;

rdfs:range :areasBurnt ;

rdfs:label "Has Areas Burnt" .

:forests rdf:type owl:DatatypeProperty ;

rdfs:domain :areasBurnt ;

rdfs:range xsd:float ;

rdfs:label "Forests" .

:swampsReeds rdf:type owl:DatatypeProperty ;

rdfs:domain :areasBurnt ;

rdfs:range xsd:float ;

rdfs:label "Sw

Copy

Claude does not have the ability to run the code it generates yet.

**DD**

continue from where you stopped on your last produced message

Apologies for the truncated message. Here's the continuation of the ontology in the .ttl file format:

turtle

Copy code

amps Reeds" .

:woodland rdf:type owl:DatatypeProperty ;

rdfs:domain :areasBurnt ;

rdfs:range xsd:float ;

rdfs:label "Woodland" .

:grove rdf:type owl:DatatypeProperty ;

rdfs:domain :areasBurnt ;

rdfs:range xsd:float ;

rdfs:label "Grove" .

:grasslands rdf:type owl:DatatypeProperty ;

rdfs:domain :areasBurnt ;

rdfs:range xsd:float ;

rdfs:label "Grasslands" .

:agriculturalLands rdf:type owl:DatatypeProperty ;

rdfs:domain :areasBurnt ;

rdfs:range xsd:float ;

rdfs:label "Agricultural Lands" .

:cropResidues rdf:type owl:DatatypeProperty ;

rdfs:domain :areasBurnt ;

rdfs:range xsd:float ;

rdfs:label "Crop Residues" .

:otherLands rdf:type owl:DatatypeProperty ;

rdfs:domain :areasBurnt ;

rdfs:range xsd:float ;

rdfs:label "Other Lands" .

:totalAreaBurnt rdf:type owl:DatatypeProperty ;

rdfs:domain :areasBurnt ;

rdfs:range xsd:float ;

rdfs:label "Total Area Burnt" .

:otherDisasters rdf:type owl:Class ;

rdfs:label "Other Disasters" .

:hasOtherDisasters rdf:type owl:ObjectProperty ;

rdfs:domain :WildfireIncident ;

rdfs:range :otherDisasters ;

rdfs:label "Has Other Disasters" .

:Building rdf:type owl:Class ;

rdfs:label "Building" .

:hasBuildings rdf:type owl:ObjectProperty ;

rdfs:domain :otherDisasters ;

rdfs:range :Building ;

rdfs:label "Has Buildings" .

:buildingType rdf:type owl:DatatypeProperty ;

rdfs:domain :Building ;

rdfs:range xsd:string ;

rdfs:label "Building Type" .

:buildingAddress rdf:type owl:DatatypeProperty ;

rdfs:domain :Building ;

rdfs:range xsd:string ;

rdfs:label "Building Address" .

:buildingInsurance rdf:type owl:DatatypeProperty ;

rdfs:domain :Building ;

rdfs:range xsd:string ;

rdfs:label "Building Insurance" .

:buildingOperatorName rdf:type owl:DatatypeProperty ;

rdfs:domain :Building ;

rdfs:range xsd:string ;

rdfs:label "Building Operator Name" .

:Vehicle rdf:type owl:Class ;

rdfs:label "Vehicle" .

:hasVehicles rdf:type owl:ObjectProperty ;

rdfs:domain :otherDisasters ;

rdfs:range :Vehicle ;

rdfs:label "Has Vehicles" .

:vehicleType rdf:type owl:DatatypeProperty ;

rdfs:domain :Vehicle ;

rdfs:range xsd:string ;

rdfs:label "Vehicle Type" .

:vehicleLicensePlate rdf:type owl:DatatypeProperty ;

rdfs:domain :Vehicle ;

rdfs:range xsd:string ;

rdfs:label "Vehicle License Plate" .

:vehicleInsurance rdf:type owl:DatatypeProperty ;

rdfs:domain :Vehicle ;

rdfs:range xsd:string ;

rdfs:label "Vehicle Insurance" .

:vehicleOperatorName rdf:type owl:DatatypeProperty ;

rdfs:domain :Vehicle ;

rdfs:range xsd:string ;

rdfs:label "Vehicle Operator Name" .

:Rescue rdf:type owl:Class ;

rdfs:label "Rescue" .

:hasRescues rdf:type owl:ObjectProperty ;

rdfs:domain :otherDisasters ;

rdfs:range :Rescue ;

rdfs:label "Has Rescues" .

:rescueType rdf:type owl:Class ;

rdfs:label "Rescue Type" .

:hasRescueType rdf:type owl:ObjectProperty ;

rdfs:domain :Rescue ;

rdfs:range :rescueType ;

rdfs:label "Has Rescue Type" .

:PersonRescue rdf:type owl:Class ;

rdfs:subClassOf :rescueType ;

rdfs:label "Person Rescue" .

:personFullName rdf:type owl:DatatypeProperty ;

rdfs:domain :PersonRescue ;

rdfs:range xsd:string ;

rdfs:label "Person Full Name" .

:personCapacity rdf:type owl:DatatypeProperty ;

rdfs:domain :PersonRescue ;

rdfs:range xsd:string ;

rdfs:label "Person Capacity" .

:personAge rdf:type owl:DatatypeProperty ;

rdfs:domain :PersonRescue ;

rdfs:range xsd:integer ;

rdfs:label "Person Age" .

:personRescueCause rdf:type owl:DatatypeProperty ;

rdfs:domain :PersonRescue ;

rdfs:range xsd:string ;

rdfs:label "Person Rescue Cause" .

:AnimalRescue rdf:type owl:Class ;

rdfs:subClassOf :rescueType ;

rdfs:label "Animal Rescue" .

:animalType rdf:type owl:DatatypeProperty ;

rdfs:domain :AnimalRescue ;

rdfs:range xsd:string ;

rdfs:label "Animal Type" .

:birdType rdf:type owl:DatatypeProperty ;

rdfs:domain :AnimalRescue ;

rdfs:range xsd:string ;

rdfs:label "Bird Type" .

:numberOfHives rdf:type owl:DatatypeProperty ;

rdfs:domain :AnimalRescue ;

rdfs:range xsd:integer ;

rdfs:label "Number of Hives" .

:Accident rdf:type owl:Class ;

rdfs:label "Accident" .

:hasAccidents rdf:type owl:ObjectProperty ;

rdfs:domain :otherDisasters ;

rdfs:range :Accident ;

rdfs:label "Has Accidents" .

:accidentType rdf:type owl:DatatypeProperty ;

rdfs:domain :Accident ;

rdfs:range xsd:string ;

rdfs:label "Accident Type" .

:accidentFullName rdf:type owl:DatatypeProperty ;

rdfs:domain :Accident ;

rdfs:range xsd:string ;

rdfs:label "Accident Full Name" .

:accidentCapacity rdf:type owl:DatatypeProperty ;

rdfs:domain :Accident ;

rdfs:range xsd:string ;

rdfs:label "Accident Capacity" .

:accidentCause rdf:type owl:DatatypeProperty ;

rdfs:domain :Accident ;

rdfs:range xsd:string ;

rdfs:label "Accident Cause" .

:InvolvedForces rdf:type owl:Class ;

rdfs:label "Involved Forces" .

:hasInvolvedForces rdf:type owl:ObjectProperty ;

rdfs:domain :WildfireIncident ;

rdfs:range :InvolvedForces ;

rdfs:label "Has Involved Forces" .

:permanentFireOfficers rdf:type owl:DatatypeProperty ;

rdfs:domain :InvolvedForces ;

rdfs:range xsd:integer ;

rdfs:label "Permanent Fire Officers" .

:seasonalFireOfficers rdf:type owl:DatatypeProperty ;

rdfs:domain :InvolvedForces ;

rdfs:range xsd:integer ;

rdfs:label "Seasonal Fire Officers" .

:permanentWalkingDepartments rdf:type owl:DatatypeProperty ;

rdfs:domain :InvolvedForces ;

rdfs:range xsd:integer ;

rdfs:label "Permanent Walking Departments" .

:seasonalWalkingDepartments rdf:type owl:DatatypeProperty ;

rdfs:domain :InvolvedForces ;

rdfs:range xsd:integer ;

rdfs:label "Seasonal Walking Departments" .

:volunteerFirefighters rdf:type owl:DatatypeProperty ;

rdfs:domain :InvolvedForces ;

rdfs:range xsd:integer ;

rdfs:label "Volunteer Firefighters" .

:armedForcesPersonnel rdf:type owl:DatatypeProperty ;

rdfs:domain :InvolvedForces ;

rdfs:range xsd:integer ;

rdfs:label "Armed Forces Personnel" .

:servicePersonnel rdf:type owl:DatatypeProperty ;

rdfs:domain :InvolvedForces ;

rdfs:range xsd:integer ;

rdfs:label "Service Personnel" .

:municipalityStaff rdf:type owl:DatatypeProperty ;

rdfs:domain :InvolvedForces ;

rdfs:range xsd:integer ;

rdfs:label "Municipality Staff" .

:clubMembers rdf:type owl:DatatypeProperty ;

rdfs:domain :InvolvedForces ;

rdfs:range xsd:integer ;

rdfs:label "Club Members" .

:publicSectorStaff rdf:type owl:DatatypeProperty ;

rdfs:domain :InvolvedForces ;

rdfs:range xsd:integer ;

rdfs:label "Public Sector Staff" .

:individualVolunteers rdf:type owl:DatatypeProperty ;

rdfs:domain :InvolvedForces ;

rdfs:range xsd:integer ;

rdfs:label "Individual Volunteers" .

:InvestmentInstruments rdf:type owl:Class ;

rdfs:label "Investment Instruments" .

:hasInvestmentInstruments rdf:type owl:ObjectProperty ;

rdfs:domain :WildfireIncident ;

rdfs:range :InvestmentInstruments ;

rdfs:label "Has Investment Instruments" .

:firetrucks rdf:type owl:DatatypeProperty ;

rdfs:domain :InvestmentInstruments ;

rdfs:range xsd:integer ;

rdfs:label "Firetrucks" .

:tankers rdf:type owl:DatatypeProperty ;

rdfs:domain :InvestmentInstruments ;

rdfs:range xsd:integer ;

rdfs:label "Tankers" .

:fireVehiclesOfOtherServices rdf:type owl:DatatypeProperty ;

rdfs:domain :InvestmentInstruments ;

rdfs:range xsd:integer ;

rdfs:label "Fire Vehicles of Other Services" .

:variousMachines rdf:type owl:DatatypeProperty ;

rdfs:domain :InvestmentInstruments ;

rdfs:range xsd:string ;

rdfs:label "Various Machines" .

:portableTools rdf:type owl:DatatypeProperty ;

rdfs:domain :WildfireIncident ;

rdfs:range xsd:string ;

rdfs:label "Portable Tools and Machines" .

:AirSupport rdf:type owl:Class ;

rdfs:label "Air Support" .

:hasAirSupport rdf:type owl:ObjectProperty ;

rdfs:domain :WildfireIncident ;

rdfs:range :AirSupport ;

rdfs:label "Has Air Support" .

:aircraftType rdf:type owl:DatatypeProperty ;

rdfs:domain :AirSupport ;

rdfs:range xsd:string ;

rdfs:label "Aircraft Type" .

:numberOfAircraft rdf:type owl:DatatypeProperty ;

rdfs:domain :AirSupport ;

rdfs:range xsd:integer ;

rdfs:label "Number of Aircraft" .

:DepositMethod rdf:type owl:Class ;

rdfs:label "Deposit Method" .

:hasDepositMethod rdf:type owl:ObjectProperty ;

rdfs:domain :WildfireIncident ;

rdfs:range :DepositMethod ;

rdfs:label "Has Deposit Method" .

:aerialMeans rdf:type owl:DatatypeProperty ;

rdfs:domain :DepositMethod ;

rdfs:range xsd:boolean ;

rdfs:label "By Aerial Means" .

:selfExtinguishing rdf:type owl:DatatypeProperty ;

rdfs:domain :DepositMethod ;

rdfs:range xsd:boolean ;

rdfs:label "Self Extinguishing" .

:groundSections rdf:type owl:DatatypeProperty ;

rdfs:domain :DepositMethod ;

rdfs:range xsd:boolean ;

rdfs:label "With Ground Sections" .

:pedestrianSections rdf:type owl:DatatypeProperty ;

rdfs:domain :DepositMethod ;

rdfs:range xsd:boolean ;

rdfs:label "With Pedestrian Sections" .

:useOfBackfire rdf:type owl:DatatypeProperty ;

rdfs:domain :WildfireIncident ;

rdfs:range xsd:boolean ;

rdfs:label "Use of Backfire or Incineration" .

:waterUsage rdf:type owl:DatatypeProperty ;

rdfs:domain :WildfireIncident ;

rdfs:range xsd:float ;

rdfs:label "Water Usage (m^3)" .

:foamUsage rdf:type owl:DatatypeProperty ;

rdfs:domain :WildfireIncident ;

rdfs:range xsd:float ;

rdfs:label "Foam Usage (lt)" .

:retardantUsage rdf:type owl:DatatypeProperty ;

rdfs:domain :WildfireIncident ;

rdfs:range xsd:float ;

rdfs:label "Retardant Usage (kg)" .

:FireFightingPersonnel rdf:type owl:Class ;

rdfs:label "Fire Fighting Personnel" .

:hasFireFightingPersonnel rdf:type owl:ObjectProperty ;

rdfs:domain :WildfireIncident ;

rdfs:range :FireFightingPersonnel ;

rdfs:label "Has Fire Fighting Personnel" .

:vehicleNumber rdf:type owl:DatatypeProperty ;

rdfs:domain :FireFightingPersonnel ;

rdfs:range xsd:string ;

rdfs:label "Vehicle Number" .

:outputType rdf:type owl:DatatypeProperty ;

rdfs:domain :FireFightingPersonnel ;

rdfs:range xsd:string ;

rdfs:label "Output Type" .

:notificationDate rdf:type owl:DatatypeProperty ;

rdfs:domain :FireFightingPersonnel ;

rdfs:range xsd:date ;

rdfs:label "Notification Date" .

:notificationTime rdf:type owl:DatatypeProperty ;

rdfs:domain :FireFightingPersonnel ;

rdfs:range xsd:time ;

rdfs:label "Notification Time" .

:departureDate rdf:type owl:DatatypeProperty ;

rdfs:domain :FireFightingPersonnel ;

rdfs:range xsd:date ;

rdfs:label "Departure Date" .

:departureTime rdf:type owl:DatatypeProperty ;

rdfs:domain :FireFightingPersonnel ;

rdfs:range xsd:time ;

rdfs:label "Departure Time" .

:arrivalDate rdf:type owl:DatatypeProperty ;

rdfs:domain :FireFightingPersonnel ;

rdfs:range xsd:date ;

rdfs:label "Arrival Date" .