### **VIVO онтологийг OOPS онлайн системээр шалгахад гарсан үр дүн**

### [**Results for P04: Creating unconnected ontology elements.2 cases | Minor**](http://oops.linkeddata.es/response.jsp)

Ontology elements (classes, object properties and datatype properties) are created isolated, with no relation to the rest of the ontology.  
  
• This pitfall appears in the following elements:  
› [http://www.w3.org/2006/vcard/ns#Code](http://www.w3.org/2006/vcard/ns" \l "Code)  
› <http://purl.obolibrary.org/obo/ARG_2000376>

### [**Results for P05: Defining wrong inverse relationships.2 cases | Critical**](http://oops.linkeddata.es/response.jsp)

Two relationships are defined as inverse relations when they are not necessarily inverse.  
  
• This pitfall appears in the following elements:  
› <http://purl.obolibrary.org/obo/ERO_0000029> may not be inverse of [http://vivoweb.org/ontology/scientific-research#accessProvidedBy](http://vivoweb.org/ontology/scientific-research" \l "accessProvidedBy)  
› [http://vivoweb.org/ontology/core#fundingVehicleFor](http://vivoweb.org/ontology/core" \l "fundingVehicleFor) may not be inverse of [http://vivoweb.org/ontology/core#hasFundingVehicle](http://vivoweb.org/ontology/core" \l "hasFundingVehicle)

### [**Results for P07: Merging different concepts in the same class.1 case | Minor**](http://oops.linkeddata.es/response.jsp)

A class whose name refers to two or more different concepts is created.  
  
• This pitfall appears in the following elements:  
› [http://vivoweb.org/ontology/core#StateOrProvince](http://vivoweb.org/ontology/core" \l "StateOrProvince)

### [**Results for P08: Missing annotations.8 cases | Minor**](http://oops.linkeddata.es/response.jsp)

This pitfall consists in creating an ontology element and failing to provide human readable annotations attached to it. Consequently, ontology elements lack annotation properties that label them (e.g. rdfs:label, lemon:LexicalEntry, skos:prefLabel or skos:altLabel) or that define them (e.g. rdfs:comment or dc:description). This pitfall is related to the guidelines provided in [5].  
  
• The following elements have no rdfs:label defined:  
› [http://www.w3.org/2006/vcard/ns#Role](http://www.w3.org/2006/vcard/ns" \l "Role)  
› <http://isf/deprecated_op>  
› [http://vivoweb.org/ontology/core#facilityFor](http://vivoweb.org/ontology/core" \l "facilityFor)  
› [http://aims.fao.org/aos/geopolitical.owl#HDIUnit](http://aims.fao.org/aos/geopolitical.owl" \l "HDIUnit)  
› [http://aims.fao.org/aos/geopolitical.owl#HDI](http://aims.fao.org/aos/geopolitical.owl" \l "HDI)  
› [http://aims.fao.org/aos/geopolitical.owl#HDINotes](http://aims.fao.org/aos/geopolitical.owl" \l "HDINotes)  
› [http://aims.fao.org/aos/geopolitical.owl#HDITotal](http://aims.fao.org/aos/geopolitical.owl" \l "HDITotal)  
› [http://aims.fao.org/aos/geopolitical.owl#HDIYear](http://aims.fao.org/aos/geopolitical.owl" \l "HDIYear)

### [**Results for P10: Missing disjointness.ontology\* | Important**](http://oops.linkeddata.es/response.jsp)

The ontology lacks disjoint axioms between classes or between properties that should be defined as disjoint. This pitfall is related with the guidelines provided in [6], [2] and [7].  
  
\*This pitfall applies to the ontology in general instead of specific elements.

### [**Results for P11: Missing domain or range in properties.348 cases | Important**](http://oops.linkeddata.es/response.jsp)

Object and/or datatype properties without domain or range (or none of them) are included in the ontology.  
  
• This pitfall appears in the following elements:  
› [http://www.w3.org/2006/vcard/ns#hasURL](http://www.w3.org/2006/vcard/ns" \l "hasURL)  
› <http://purl.obolibrary.org/obo/ERO_0000572>  
› <http://purl.obolibrary.org/obo/BFO_0000050>  
› [http://vivoweb.org/ontology/core#relates](http://vivoweb.org/ontology/core" \l "relates)  
› <http://purl.obolibrary.org/obo/IAO_0000142>  
› <http://purl.org/ontology/bibo/director>  
› [http://vivoweb.org/ontology/core#hasGoverningAuthority](http://vivoweb.org/ontology/core" \l "hasGoverningAuthority)  
› <http://purl.obolibrary.org/obo/OBI_0000312>  
› <http://purl.obolibrary.org/obo/ERO_0000398>  
› [http://vivoweb.org/ontology/core#affiliatedOrganization](http://vivoweb.org/ontology/core" \l "affiliatedOrganization)  
› <http://purl.obolibrary.org/obo/ERO_0000034>  
› [http://vivoweb.org/ontology/core#hasEquipment](http://vivoweb.org/ontology/core" \l "hasEquipment)  
› [http://vivoweb.org/ontology/core#sponsoredBy](http://vivoweb.org/ontology/core" \l "sponsoredBy)  
› [http://www.w3.org/2006/vcard/ns#hasCalendarRequest](http://www.w3.org/2006/vcard/ns" \l "hasCalendarRequest)  
› [http://www.w3.org/2006/vcard/ns#hasEmail](http://www.w3.org/2006/vcard/ns" \l "hasEmail)  
› <http://purl.org/ontology/bibo/reviewOf>  
› <http://purl.obolibrary.org/obo/ERO_0001521>  
› [http://aims.fao.org/aos/geopolitical.owl#isInGroup](http://aims.fao.org/aos/geopolitical.owl" \l "isInGroup)  
› [http://vivoweb.org/ontology/core#hasPredecessorOrganization](http://vivoweb.org/ontology/core" \l "hasPredecessorOrganization)  
› [http://vivoweb.org/ontology/core#dateTimeInterval](http://vivoweb.org/ontology/core" \l "dateTimeInterval)  
› [http://vivoweb.org/ontology/core#grantSubcontractedThrough](http://vivoweb.org/ontology/core" \l "grantSubcontractedThrough)  
› [http://vivoweb.org/ontology/core#hasSuccessorOrganization](http://vivoweb.org/ontology/core" \l "hasSuccessorOrganization)  
› <http://purl.org/ontology/bibo/degree>  
› <http://purl.org/ontology/bibo/court>  
› <http://purl.obolibrary.org/obo/IAO_0000039>  
› [http://vivoweb.org/ontology/core#conceptAssociatedWith](http://vivoweb.org/ontology/core" \l "conceptAssociatedWith)  
› <http://purl.obolibrary.org/obo/ERO_0000919>  
› [http://vivoweb.org/ontology/core#orcidId](http://vivoweb.org/ontology/core" \l "orcidId)  
› <http://purl.obolibrary.org/obo/ERO_0000460>  
› [http://www.w3.org/2006/vcard/ns#hasFormattedName](http://www.w3.org/2006/vcard/ns" \l "hasFormattedName)  
› [http://vivoweb.org/ontology/core#confirmedOrcidId](http://vivoweb.org/ontology/core" \l "confirmedOrcidId)  
› [http://aims.fao.org/aos/geopolitical.owl#hasBorderWith](http://aims.fao.org/aos/geopolitical.owl" \l "hasBorderWith)  
› <http://purl.obolibrary.org/obo/ARG_2000390>  
› <http://purl.obolibrary.org/obo/ERO_0000033>  
› [http://vivoweb.org/ontology/core#supportedInformationResource](http://vivoweb.org/ontology/core" \l "supportedInformationResource)  
› <http://purl.org/ontology/bibo/presents>  
› <http://purl.org/spar/cito/isCitedAsDataSourceBy>  
› <http://purl.org/ontology/bibo/transcriptOf>  
› [http://vivoweb.org/ontology/core#subcontractsGrant](http://vivoweb.org/ontology/core" \l "subcontractsGrant)  
› [http://vivoweb.org/ontology/core#supports](http://vivoweb.org/ontology/core" \l "supports)  
› [http://vivoweb.org/ontology/scientific-research#accessProvidedBy](http://vivoweb.org/ontology/scientific-research" \l "accessProvidedBy)  
› [http://vivoweb.org/ontology/scientific-research#protocolRealizedBy](http://vivoweb.org/ontology/scientific-research" \l "protocolRealizedBy)  
› <http://purl.org/spar/c4o/hasGlobalCitationFrequency>  
› [http://vivoweb.org/ontology/core#hasSubjectArea](http://vivoweb.org/ontology/core" \l "hasSubjectArea)  
› <http://purl.org/ontology/bibo/distributor>  
› [http://vivoweb.org/ontology/core#relatedBy](http://vivoweb.org/ontology/core" \l "relatedBy)  
› [http://www.w3.org/2006/vcard/ns#hasRelated](http://www.w3.org/2006/vcard/ns" \l "hasRelated)  
› [http://vivoweb.org/ontology/core#fundingVehicleFor](http://vivoweb.org/ontology/core" \l "fundingVehicleFor)  
› [http://www.w3.org/2006/vcard/ns#hasCalenderBusy](http://www.w3.org/2006/vcard/ns" \l "hasCalenderBusy)  
› <http://purl.obolibrary.org/obo/ERO_0000918>  
› <http://purl.obolibrary.org/obo/ERO_0000390>  
› <http://purl.obolibrary.org/obo/IAO_0000136>  
› [http://vivoweb.org/ontology/core#informationResourceSupportedBy](http://vivoweb.org/ontology/core" \l "informationResourceSupportedBy)  
› [http://vivoweb.org/ontology/core#eligibleFor](http://vivoweb.org/ontology/core" \l "eligibleFor)  
› <http://purl.obolibrary.org/obo/ERO_0000481>  
› <http://purl.obolibrary.org/obo/RO_0002234>  
› <http://purl.org/dc/terms/contributor>  
› [http://aims.fao.org/aos/geopolitical.owl#hasMember](http://aims.fao.org/aos/geopolitical.owl" \l "hasMember)  
› [http://vivoweb.org/ontology/core#equipmentFor](http://vivoweb.org/ontology/core" \l "equipmentFor)  
› <http://purl.obolibrary.org/obo/OBI_0000304>  
› [http://vivoweb.org/ontology/core#publisher](http://vivoweb.org/ontology/core" \l "publisher)  
› [http://vivoweb.org/ontology/core#assigns](http://vivoweb.org/ontology/core" \l "assigns)  
› <http://purl.obolibrary.org/obo/ARG_2000028>  
› [http://www.w3.org/2006/vcard/ns#hasCalendarLink](http://www.w3.org/2006/vcard/ns" \l "hasCalendarLink)  
› <http://purl.org/ontology/bibo/issuer>  
› <http://purl.obolibrary.org/obo/ERO_0000543>  
› [http://www.w3.org/2006/vcard/ns#hasInstantMessage](http://www.w3.org/2006/vcard/ns" \l "hasInstantMessage)  
› [http://www.w3.org/2006/vcard/ns#hasNickname](http://www.w3.org/2006/vcard/ns" \l "hasNickname)  
› <http://purl.org/ontology/bibo/reversedBy>  
› <http://purl.obolibrary.org/obo/RO_0002233>  
› <http://purl.obolibrary.org/obo/IAO_0000417>  
› <http://purl.obolibrary.org/obo/ARG_2000399>  
› <http://purl.org/ontology/bibo/interviewee>  
› <http://purl.org/spar/c4o/hasGlobalCountSource>  
› <http://purl.obolibrary.org/obo/OBI_0000833>  
› [http://www.w3.org/2006/vcard/ns#hasGeo](http://www.w3.org/2006/vcard/ns" \l "hasGeo)  
› [http://vivoweb.org/ontology/core#distributes](http://vivoweb.org/ontology/core" \l "distributes)  
› <http://purl.obolibrary.org/obo/ERO_0000038>  
› <http://www.ebi.ac.uk/efo/swo/SWO_0000741>  
› [http://vivoweb.org/ontology/core#publicationVenueFor](http://vivoweb.org/ontology/core" \l "publicationVenueFor)  
› [http://www.w3.org/2006/vcard/ns#hasName](http://www.w3.org/2006/vcard/ns" \l "hasName)  
› [http://vivoweb.org/ontology/core#providesFundingThrough](http://vivoweb.org/ontology/core" \l "providesFundingThrough)  
› [http://vivoweb.org/ontology/core#expirationDate](http://vivoweb.org/ontology/core" \l "expirationDate)  
› [http://www.w3.org/2006/vcard/ns#hasLogo](http://www.w3.org/2006/vcard/ns" \l "hasLogo)  
› [http://vivoweb.org/ontology/core#degreeCandidacy](http://vivoweb.org/ontology/core" \l "degreeCandidacy)  
› <http://purl.obolibrary.org/obo/OBI_0000643>  
› [http://vivoweb.org/ontology/core#validIn](http://vivoweb.org/ontology/core" \l "validIn)  
› [http://www.w3.org/2006/vcard/ns#hasMember](http://www.w3.org/2006/vcard/ns" \l "hasMember)  
› [http://vivoweb.org/ontology/core#hasPublicationVenue](http://vivoweb.org/ontology/core" \l "hasPublicationVenue)  
› <http://purl.org/spar/cito/citesAsDataSource>  
› [http://vivoweb.org/ontology/core#geographicFocus](http://vivoweb.org/ontology/core" \l "geographicFocus)  
› [http://vivoweb.org/ontology/core#facilityFor](http://vivoweb.org/ontology/core" \l "facilityFor)  
› <http://www.ebi.ac.uk/efo/swo/SWO_0000740>  
› [http://www.obofoundry.org/ro/ro.owl#has\_agent](http://www.obofoundry.org/ro/ro.owl" \l "has_agent)  
› <http://purl.org/ontology/bibo/interviewer>  
› <http://purl.obolibrary.org/obo/ERO_0001520>  
› [http://vivoweb.org/ontology/core#geographicFocusOf](http://vivoweb.org/ontology/core" \l "geographicFocusOf)  
› [http://www.w3.org/2006/vcard/ns#hasCategory](http://www.w3.org/2006/vcard/ns" \l "hasCategory)  
› [http://vivoweb.org/ontology/core#hasResearchArea](http://vivoweb.org/ontology/core" \l "hasResearchArea)  
› [http://vivoweb.org/ontology/core#hasAssociatedConcept](http://vivoweb.org/ontology/core" \l "hasAssociatedConcept)  
› <http://purl.obolibrary.org/obo/ERO_0000037>  
› <http://purl.obolibrary.org/obo/OBI_0000299>  
› <http://purl.org/ontology/bibo/performer>  
› <http://purl.obolibrary.org/obo/IAO_0000221>  
› [http://www.w3.org/2006/vcard/ns#hasNote](http://www.w3.org/2006/vcard/ns" \l "hasNote)  
› <http://purl.obolibrary.org/obo/RO_0002353>  
› <http://purl.obolibrary.org/obo/OBI_0000417>  
› [http://vivoweb.org/ontology/core#offers](http://vivoweb.org/ontology/core" \l "offers)  
› [http://www.w3.org/2006/vcard/ns#hasKey](http://www.w3.org/2006/vcard/ns" \l "hasKey)  
› [http://vivoweb.org/ontology/core#governingAuthorityFor](http://vivoweb.org/ontology/core" \l "governingAuthorityFor)  
› [http://www.w3.org/2006/vcard/ns#hasTitle](http://www.w3.org/2006/vcard/ns" \l "hasTitle)  
› [http://vivoweb.org/ontology/core#distributesFundingFrom](http://vivoweb.org/ontology/core" \l "distributesFundingFrom)  
› <http://purl.obolibrary.org/obo/RO_0002351>  
› [http://www.w3.org/2006/vcard/ns#hasLanguage](http://www.w3.org/2006/vcard/ns" \l "hasLanguage)  
› [http://www.w3.org/2006/vcard/ns#hasSound](http://www.w3.org/2006/vcard/ns" \l "hasSound)  
› <http://purl.obolibrary.org/obo/RO_0001025>  
› <http://purl.obolibrary.org/obo/ERO_0001518>  
› [http://www.w3.org/2006/vcard/ns#hasTimeZone](http://www.w3.org/2006/vcard/ns" \l "hasTimeZone)  
› <http://purl.obolibrary.org/obo/RO_0001015>  
› [http://vivoweb.org/ontology/core#subjectAreaOf](http://vivoweb.org/ontology/core" \l "subjectAreaOf)  
› [http://vivoweb.org/ontology/core#researchAreaOf](http://vivoweb.org/ontology/core" \l "researchAreaOf)  
› [http://www.w3.org/2006/vcard/ns#hasOrganizationalUnitName](http://www.w3.org/2006/vcard/ns" \l "hasOrganizationalUnitName)  
› <http://purl.obolibrary.org/obo/RO_0001018>  
› [http://vivoweb.org/ontology/core#featuredIn](http://vivoweb.org/ontology/core" \l "featuredIn)  
› [http://vivoweb.org/ontology/core#hasFacility](http://vivoweb.org/ontology/core" \l "hasFacility)  
› <http://purl.obolibrary.org/obo/RO_0002350>  
› <http://purl.org/ontology/bibo/subsequentLegalDecision>  
› [http://vivoweb.org/ontology/core#supportedBy](http://vivoweb.org/ontology/core" \l "supportedBy)  
› [http://vivoweb.org/ontology/scientific-research#documentationFor](http://vivoweb.org/ontology/scientific-research" \l "documentationFor)  
› <http://purl.obolibrary.org/obo/ERO_0000031>  
› [http://vivoweb.org/ontology/core#publisherOf](http://vivoweb.org/ontology/core" \l "publisherOf)  
› [http://aims.fao.org/aos/geopolitical.owl#isAdministeredBy](http://aims.fao.org/aos/geopolitical.owl" \l "isAdministeredBy)  
› <http://isf/deprecated_op>  
› [http://vivoweb.org/ontology/core#dateTimeValue](http://vivoweb.org/ontology/core" \l "dateTimeValue)  
› <http://purl.obolibrary.org/obo/RO_0001019>  
› <http://purl.obolibrary.org/obo/ARG_2000029>  
› <http://purl.obolibrary.org/obo/BFO_0000051>  
› <http://purl.org/ontology/bibo/annotates>  
› <http://purl.obolibrary.org/obo/RO_0002220>  
› <http://purl.obolibrary.org/obo/ERO_0000029>  
› <http://purl.org/ontology/bibo/affirmedBy>  
› [http://vivoweb.org/ontology/core#hasFundingVehicle](http://vivoweb.org/ontology/core" \l "hasFundingVehicle)  
› <http://purl.org/ontology/bibo/recipient>  
› <http://purl.obolibrary.org/obo/OBI_0000293>  
› [http://vivoweb.org/ontology/core#roleContributesTo](http://vivoweb.org/ontology/core" \l "roleContributesTo)  
› <http://purl.obolibrary.org/obo/ARG_2000391>  
› [http://www.w3.org/2006/vcard/ns#hasOrganizationName](http://www.w3.org/2006/vcard/ns" \l "hasOrganizationName)  
› [http://www.w3.org/2006/vcard/ns#hasTelephone](http://www.w3.org/2006/vcard/ns" \l "hasTelephone)  
› [http://vivoweb.org/ontology/core#offeredBy](http://vivoweb.org/ontology/core" \l "offeredBy)  
› [http://vivoweb.org/ontology/core#sponsors](http://vivoweb.org/ontology/core" \l "sponsors)  
› [http://vivoweb.org/ontology/core#reviewedIn](http://vivoweb.org/ontology/core" \l "reviewedIn)  
› [http://vivoweb.org/ontology/core#assignedBy](http://vivoweb.org/ontology/core" \l "assignedBy)  
› [http://www.w3.org/2006/vcard/ns#hasPhoto](http://www.w3.org/2006/vcard/ns" \l "hasPhoto)  
› <http://purl.obolibrary.org/obo/ERO_0000070>  
› [http://vivoweb.org/ontology/core#dateIssued](http://vivoweb.org/ontology/core" \l "dateIssued)  
› [http://vivoweb.org/ontology/core#contributingRole](http://vivoweb.org/ontology/core" \l "contributingRole)  
› <http://purl.obolibrary.org/obo/ERO_0000397>  
› <http://purl.obolibrary.org/obo/RO_0001000>  
› [http://www.w3.org/2006/vcard/ns#hasAddress](http://www.w3.org/2006/vcard/ns" \l "hasAddress)  
› <http://purl.org/ontology/bibo/doi>  
› [http://aims.fao.org/aos/geopolitical.owl#landAreaNotes](http://aims.fao.org/aos/geopolitical.owl" \l "landAreaNotes)  
› [http://vivoweb.org/ontology/core#totalAwardAmount](http://vivoweb.org/ontology/core" \l "totalAwardAmount)  
› [http://aims.fao.org/aos/geopolitical.owl#codeUNDP](http://aims.fao.org/aos/geopolitical.owl" \l "codeUNDP)  
› [http://vivoweb.org/ontology/core#termLabel](http://vivoweb.org/ontology/core" \l "termLabel)  
› [http://vivoweb.org/ontology/scientific-research#irbNumber](http://vivoweb.org/ontology/scientific-research" \l "irbNumber)  
› <http://purl.org/ontology/bibo/lccn>  
› [http://vivoweb.org/ontology/core#researchOverview](http://vivoweb.org/ontology/core" \l "researchOverview)  
› [http://aims.fao.org/aos/geopolitical.owl#HDIYear](http://aims.fao.org/aos/geopolitical.owl" \l "HDIYear)  
› [http://vivoweb.org/ontology/core#nihmsid](http://vivoweb.org/ontology/core" \l "nihmsid)  
› <http://purl.org/ontology/bibo/asin>  
› [http://aims.fao.org/aos/geopolitical.owl#nameShortRU](http://aims.fao.org/aos/geopolitical.owl" \l "nameShortRU)  
› [http://vivoweb.org/ontology/core#supplementalInformation](http://vivoweb.org/ontology/core" \l "supplementalInformation)  
› [http://aims.fao.org/aos/geopolitical.owl#landArea](http://aims.fao.org/aos/geopolitical.owl" \l "landArea)  
› <http://purl.org/ontology/bibo/numPages>  
› <http://purl.org/ontology/bibo/gtin14>  
› [http://vivoweb.org/ontology/scientific-research#nctId](http://vivoweb.org/ontology/scientific-research" \l "nctId)  
› [http://www.w3.org/2006/vcard/ns#url](http://www.w3.org/2006/vcard/ns" \l "url)  
› <http://purl.org/ontology/bibo/identifier>  
› [http://aims.fao.org/aos/geopolitical.owl#codeUN](http://aims.fao.org/aos/geopolitical.owl" \l "codeUN)  
› [http://www.w3.org/2006/vcard/ns#telephone](http://www.w3.org/2006/vcard/ns" \l "telephone)  
› [http://aims.fao.org/aos/geopolitical.owl#agriculturalArea](http://aims.fao.org/aos/geopolitical.owl" \l "agriculturalArea)  
› [http://aims.fao.org/aos/geopolitical.owl#nameListIT](http://aims.fao.org/aos/geopolitical.owl" \l "nameListIT)  
› [http://aims.fao.org/aos/geopolitical.owl#nameListES](http://aims.fao.org/aos/geopolitical.owl" \l "nameListES)  
› [http://vivoweb.org/ontology/core#iclCode](http://vivoweb.org/ontology/core" \l "iclCode)  
› [http://vivoweb.org/ontology/core#entryTerm](http://vivoweb.org/ontology/core" \l "entryTerm)  
› [http://aims.fao.org/aos/geopolitical.owl#landAreaTotal](http://aims.fao.org/aos/geopolitical.owl" \l "landAreaTotal)  
› <http://purl.org/ontology/bibo/coden>  
› [http://aims.fao.org/aos/geopolitical.owl#nameOfficialFR](http://aims.fao.org/aos/geopolitical.owl" \l "nameOfficialFR)  
› [http://aims.fao.org/aos/geopolitical.owl#codeCurrency](http://aims.fao.org/aos/geopolitical.owl" \l "codeCurrency)  
› [http://aims.fao.org/aos/geopolitical.owl#nameCurrencyRU](http://aims.fao.org/aos/geopolitical.owl" \l "nameCurrencyRU)  
› [http://aims.fao.org/aos/geopolitical.owl#HDITotal](http://aims.fao.org/aos/geopolitical.owl" \l "HDITotal)  
› [http://aims.fao.org/aos/geopolitical.owl#codeGAUL](http://aims.fao.org/aos/geopolitical.owl" \l "codeGAUL)  
› <http://purl.obolibrary.org/obo/ERO_0000044>  
› [http://vivoweb.org/ontology/core#description](http://vivoweb.org/ontology/core" \l "description)  
› [http://aims.fao.org/aos/geopolitical.owl#codeISO2](http://aims.fao.org/aos/geopolitical.owl" \l "codeISO2)  
› [http://www.w3.org/2006/vcard/ns#birthdate](http://www.w3.org/2006/vcard/ns" \l "birthdate)  
› [http://vivoweb.org/ontology/core#abbreviation](http://vivoweb.org/ontology/core" \l "abbreviation)  
› [http://www.w3.org/2006/vcard/ns#source](http://www.w3.org/2006/vcard/ns" \l "source)  
› [http://aims.fao.org/aos/geopolitical.owl#nameShortFR](http://aims.fao.org/aos/geopolitical.owl" \l "nameShortFR)  
› <http://purl.org/spar/c4o/hasGlobalCountValue>  
› <http://purl.org/ontology/bibo/upc>  
› [http://vivoweb.org/ontology/core#freetextKeyword](http://vivoweb.org/ontology/core" \l "freetextKeyword)  
› <http://purl.org/ontology/bibo/sici>  
› [http://aims.fao.org/aos/geopolitical.owl#hasCoordinate](http://aims.fao.org/aos/geopolitical.owl" \l "hasCoordinate)  
› [http://aims.fao.org/aos/geopolitical.owl#populationTotal](http://aims.fao.org/aos/geopolitical.owl" \l "populationTotal)  
› <http://purl.org/ontology/bibo/issn>  
› [http://www.w3.org/2006/vcard/ns#uid](http://www.w3.org/2006/vcard/ns" \l "uid)  
› [http://www.w3.org/2006/vcard/ns#timeZone](http://www.w3.org/2006/vcard/ns" \l "timeZone)  
› <http://purl.obolibrary.org/obo/ERO_0000424>  
› [http://aims.fao.org/aos/geopolitical.owl#landAreaUnit](http://aims.fao.org/aos/geopolitical.owl" \l "landAreaUnit)  
› [http://aims.fao.org/aos/geopolitical.owl#nameOfficialEN](http://aims.fao.org/aos/geopolitical.owl" \l "nameOfficialEN)  
› [http://aims.fao.org/aos/geopolitical.owl#validSince](http://aims.fao.org/aos/geopolitical.owl" \l "validSince)  
› [http://www.w3.org/2006/vcard/ns#language](http://www.w3.org/2006/vcard/ns" \l "language)  
› [http://aims.fao.org/aos/geopolitical.owl#nameShortAR](http://aims.fao.org/aos/geopolitical.owl" \l "nameShortAR)  
› <http://purl.org/ontology/bibo/edition>  
› [http://aims.fao.org/aos/geopolitical.owl#countryAreaYear](http://aims.fao.org/aos/geopolitical.owl" \l "countryAreaYear)  
› <http://purl.org/vocab/vann/preferredNamespaceUri>  
› [http://aims.fao.org/aos/geopolitical.owl#landAreaYear](http://aims.fao.org/aos/geopolitical.owl" \l "landAreaYear)  
› [http://aims.fao.org/aos/geopolitical.owl#hasShortName](http://aims.fao.org/aos/geopolitical.owl" \l "hasShortName)  
› [http://vivoweb.org/ontology/core#patentNumber](http://vivoweb.org/ontology/core" \l "patentNumber)  
› [http://vivoweb.org/ontology/core#grantDirectCosts](http://vivoweb.org/ontology/core" \l "grantDirectCosts)  
› <http://purl.org/ontology/bibo/prefixName>  
› [http://aims.fao.org/aos/geopolitical.owl#population](http://aims.fao.org/aos/geopolitical.owl" \l "population)  
› [http://aims.fao.org/aos/geopolitical.owl#hasOfficialName](http://aims.fao.org/aos/geopolitical.owl" \l "hasOfficialName)  
› [http://aims.fao.org/aos/geopolitical.owl#HDINotes](http://aims.fao.org/aos/geopolitical.owl" \l "HDINotes)  
› [http://www.w3.org/2006/vcard/ns#revision](http://www.w3.org/2006/vcard/ns" \l "revision)  
› [http://vivoweb.org/ontology/core#identifier](http://vivoweb.org/ontology/core" \l "identifier)  
› [http://aims.fao.org/aos/geopolitical.owl#hasCurrency](http://aims.fao.org/aos/geopolitical.owl" \l "hasCurrency)  
› [http://aims.fao.org/aos/geopolitical.owl#GDPUnit](http://aims.fao.org/aos/geopolitical.owl" \l "GDPUnit)  
› <http://purl.obolibrary.org/obo/ERO_0000072>  
› [http://aims.fao.org/aos/geopolitical.owl#nationalityZH](http://aims.fao.org/aos/geopolitical.owl" \l "nationalityZH)  
› [http://www.w3.org/2006/vcard/ns#sortAs](http://www.w3.org/2006/vcard/ns" \l "sortAs)  
› [http://vivoweb.org/ontology/core#researcherId](http://vivoweb.org/ontology/core" \l "researcherId)  
› [http://vivoweb.org/ontology/core#scopusId](http://vivoweb.org/ontology/core" \l "scopusId)  
› [http://vivoweb.org/ontology/core#hideFromDisplay](http://vivoweb.org/ontology/core" \l "hideFromDisplay)  
› [http://aims.fao.org/aos/geopolitical.owl#nationalityFR](http://aims.fao.org/aos/geopolitical.owl" \l "nationalityFR)  
› [http://aims.fao.org/aos/geopolitical.owl#hasMaxLatitude](http://aims.fao.org/aos/geopolitical.owl" \l "hasMaxLatitude)  
› [http://aims.fao.org/aos/geopolitical.owl#nameOfficialAR](http://aims.fao.org/aos/geopolitical.owl" \l "nameOfficialAR)  
› [http://aims.fao.org/aos/geopolitical.owl#hasCode](http://aims.fao.org/aos/geopolitical.owl" \l "hasCode)  
› [http://aims.fao.org/aos/geopolitical.owl#nameShortEN](http://aims.fao.org/aos/geopolitical.owl" \l "nameShortEN)  
› <http://purl.org/ontology/bibo/number>  
› <http://purl.obolibrary.org/obo/ERO_0000045>  
› [http://aims.fao.org/aos/geopolitical.owl#countryArea](http://aims.fao.org/aos/geopolitical.owl" \l "countryArea)  
› <http://purl.org/ontology/bibo/eissn>  
› <http://purl.org/ontology/bibo/isbn10>  
› [http://aims.fao.org/aos/geopolitical.owl#nameListZH](http://aims.fao.org/aos/geopolitical.owl" \l "nameListZH)  
› <http://purl.obolibrary.org/obo/ARG_0000197>  
› [http://vivoweb.org/ontology/core#outreachOverview](http://vivoweb.org/ontology/core" \l "outreachOverview)  
› [http://aims.fao.org/aos/geopolitical.owl#codeDBPediaID](http://aims.fao.org/aos/geopolitical.owl" \l "codeDBPediaID)  
› [http://aims.fao.org/aos/geopolitical.owl#nameCurrencyES](http://aims.fao.org/aos/geopolitical.owl" \l "nameCurrencyES)  
› [http://www.w3.org/2006/vcard/ns#sound](http://www.w3.org/2006/vcard/ns" \l "sound)  
› <http://purl.obolibrary.org/obo/ARG_0000015>  
› <http://purl.org/ontology/bibo/chapter>  
› [http://aims.fao.org/aos/geopolitical.owl#nameCurrencyAR](http://aims.fao.org/aos/geopolitical.owl" \l "nameCurrencyAR)  
› [http://aims.fao.org/aos/geopolitical.owl#codeFAOSTAT](http://aims.fao.org/aos/geopolitical.owl" \l "codeFAOSTAT)  
› <http://purl.org/ontology/bibo/pageEnd>  
› [http://aims.fao.org/aos/geopolitical.owl#nameCurrencyIT](http://aims.fao.org/aos/geopolitical.owl" \l "nameCurrencyIT)  
› [http://vivoweb.org/ontology/core#teachingOverview](http://vivoweb.org/ontology/core" \l "teachingOverview)  
› [http://vivoweb.org/ontology/core#rank](http://vivoweb.org/ontology/core" \l "rank)  
› [http://aims.fao.org/aos/geopolitical.owl#hasMinLongitude](http://aims.fao.org/aos/geopolitical.owl" \l "hasMinLongitude)  
› <http://purl.org/ontology/bibo/locator>  
› [http://aims.fao.org/aos/geopolitical.owl#countryAreaUnit](http://aims.fao.org/aos/geopolitical.owl" \l "countryAreaUnit)  
› [http://aims.fao.org/aos/geopolitical.owl#populationNotes](http://aims.fao.org/aos/geopolitical.owl" \l "populationNotes)  
› [http://aims.fao.org/aos/geopolitical.owl#populationYear](http://aims.fao.org/aos/geopolitical.owl" \l "populationYear)  
› [http://aims.fao.org/aos/geopolitical.owl#GDPYear](http://aims.fao.org/aos/geopolitical.owl" \l "GDPYear)  
› [http://aims.fao.org/aos/geopolitical.owl#nameShortES](http://aims.fao.org/aos/geopolitical.owl" \l "nameShortES)  
› [http://vivoweb.org/ontology/core#preferredDisplayOrder](http://vivoweb.org/ontology/core" \l "preferredDisplayOrder)  
› [http://aims.fao.org/aos/geopolitical.owl#nameListRU](http://aims.fao.org/aos/geopolitical.owl" \l "nameListRU)  
› [http://vivoweb.org/ontology/core#hasValue](http://vivoweb.org/ontology/core" \l "hasValue)  
› <http://purl.org/spar/c4o/hasGlobalCountDate>  
› [http://aims.fao.org/aos/geopolitical.owl#GDP](http://aims.fao.org/aos/geopolitical.owl" \l "GDP)  
› [http://aims.fao.org/aos/geopolitical.owl#nameOfficialIT](http://aims.fao.org/aos/geopolitical.owl" \l "nameOfficialIT)  
› [http://aims.fao.org/aos/geopolitical.owl#codeFAOTERM](http://aims.fao.org/aos/geopolitical.owl" \l "codeFAOTERM)  
› [http://vivoweb.org/ontology/core#reportId](http://vivoweb.org/ontology/core" \l "reportId)  
› <http://purl.org/ontology/bibo/isbn13>  
› <http://purl.org/ontology/bibo/volume>  
› [http://aims.fao.org/aos/geopolitical.owl#hasStatistics](http://aims.fao.org/aos/geopolitical.owl" \l "hasStatistics)  
› <http://purl.obolibrary.org/obo/ERO_0000050>  
› <http://purl.obolibrary.org/obo/ERO_0000054>  
› [http://aims.fao.org/aos/geopolitical.owl#countryAreaNotes](http://aims.fao.org/aos/geopolitical.owl" \l "countryAreaNotes)  
› [http://aims.fao.org/aos/geopolitical.owl#nameCurrencyEN](http://aims.fao.org/aos/geopolitical.owl" \l "nameCurrencyEN)  
› [http://aims.fao.org/aos/geopolitical.owl#nameOfficialES](http://aims.fao.org/aos/geopolitical.owl" \l "nameOfficialES)  
› [http://aims.fao.org/aos/geopolitical.owl#nameListFR](http://aims.fao.org/aos/geopolitical.owl" \l "nameListFR)  
› [http://vivoweb.org/ontology/core#middleName](http://vivoweb.org/ontology/core" \l "middleName)  
› [http://aims.fao.org/aos/geopolitical.owl#agriculturalAreaNotes](http://aims.fao.org/aos/geopolitical.owl" \l "agriculturalAreaNotes)  
› [http://aims.fao.org/aos/geopolitical.owl#nationalityEN](http://aims.fao.org/aos/geopolitical.owl" \l "nationalityEN)  
› [http://aims.fao.org/aos/geopolitical.owl#nameCurrencyZH](http://aims.fao.org/aos/geopolitical.owl" \l "nameCurrencyZH)  
› <http://purl.org/ontology/bibo/uri>  
› <http://purl.org/ontology/bibo/section>  
› [http://www.w3.org/2006/vcard/ns#anniversary](http://www.w3.org/2006/vcard/ns" \l "anniversary)  
› [http://aims.fao.org/aos/geopolitical.owl#hasMaxLongitude](http://aims.fao.org/aos/geopolitical.owl" \l "hasMaxLongitude)  
› [http://aims.fao.org/aos/geopolitical.owl#nationalityRU](http://aims.fao.org/aos/geopolitical.owl" \l "nationalityRU)  
› [http://aims.fao.org/aos/geopolitical.owl#codeAGROVOC](http://aims.fao.org/aos/geopolitical.owl" \l "codeAGROVOC)  
› [http://aims.fao.org/aos/geopolitical.owl#codeISO3](http://aims.fao.org/aos/geopolitical.owl" \l "codeISO3)  
› [http://aims.fao.org/aos/geopolitical.owl#nameShortIT](http://aims.fao.org/aos/geopolitical.owl" \l "nameShortIT)  
› [http://aims.fao.org/aos/geopolitical.owl#nameShortZH](http://aims.fao.org/aos/geopolitical.owl" \l "nameShortZH)  
› [http://aims.fao.org/aos/geopolitical.owl#hasMinLatitude](http://aims.fao.org/aos/geopolitical.owl" \l "hasMinLatitude)  
› [http://www.w3.org/2006/vcard/ns#note](http://www.w3.org/2006/vcard/ns" \l "note)  
› [http://aims.fao.org/aos/geopolitical.owl#HDI](http://aims.fao.org/aos/geopolitical.owl" \l "HDI)  
› [http://aims.fao.org/aos/geopolitical.owl#countryAreaTotal](http://aims.fao.org/aos/geopolitical.owl" \l "countryAreaTotal)  
› [http://aims.fao.org/aos/geopolitical.owl#nameListAR](http://aims.fao.org/aos/geopolitical.owl" \l "nameListAR)  
› <http://purl.org/ontology/bibo/pmid>  
› [http://aims.fao.org/aos/geopolitical.owl#validUntil](http://aims.fao.org/aos/geopolitical.owl" \l "validUntil)  
› [http://vivoweb.org/ontology/core#cclCode](http://vivoweb.org/ontology/core" \l "cclCode)  
› [http://aims.fao.org/aos/geopolitical.owl#nationalityES](http://aims.fao.org/aos/geopolitical.owl" \l "nationalityES)  
› [http://www.w3.org/2006/vcard/ns#category](http://www.w3.org/2006/vcard/ns" \l "category)  
› [http://aims.fao.org/aos/geopolitical.owl#populationUnit](http://aims.fao.org/aos/geopolitical.owl" \l "populationUnit)  
› [http://vivoweb.org/ontology/core#localAwardId](http://vivoweb.org/ontology/core" \l "localAwardId)  
› [http://vivoweb.org/ontology/core#licenseNumber](http://vivoweb.org/ontology/core" \l "licenseNumber)  
› [http://aims.fao.org/aos/geopolitical.owl#nationalityAR](http://aims.fao.org/aos/geopolitical.owl" \l "nationalityAR)  
› <http://purl.obolibrary.org/obo/ARG_0000172>  
› [http://www.w3.org/2006/vcard/ns#gender](http://www.w3.org/2006/vcard/ns" \l "gender)  
› [http://aims.fao.org/aos/geopolitical.owl#hasNationality](http://aims.fao.org/aos/geopolitical.owl" \l "hasNationality)  
› [http://vivoweb.org/ontology/core#eRACommonsId](http://vivoweb.org/ontology/core" \l "eRACommonsId)  
› [http://vivoweb.org/ontology/core#termType](http://vivoweb.org/ontology/core" \l "termType)  
› [http://aims.fao.org/aos/geopolitical.owl#nameOfficialZH](http://aims.fao.org/aos/geopolitical.owl" \l "nameOfficialZH)  
› [http://vivoweb.org/ontology/core#contactInformation](http://vivoweb.org/ontology/core" \l "contactInformation)  
› [http://aims.fao.org/aos/geopolitical.owl#hasListName](http://aims.fao.org/aos/geopolitical.owl" \l "hasListName)  
› [http://vivoweb.org/ontology/core#overview](http://vivoweb.org/ontology/core" \l "overview)  
› [http://www.w3.org/2006/vcard/ns#key](http://www.w3.org/2006/vcard/ns" \l "key)  
› [http://vivoweb.org/ontology/core#departmentOrSchool](http://vivoweb.org/ontology/core" \l "departmentOrSchool)  
› [http://aims.fao.org/aos/geopolitical.owl#GDPTotalInCurrentPrices](http://aims.fao.org/aos/geopolitical.owl" \l "GDPTotalInCurrentPrices)  
› [http://aims.fao.org/aos/geopolitical.owl#GDPNotes](http://aims.fao.org/aos/geopolitical.owl" \l "GDPNotes)  
› [http://vivoweb.org/ontology/scientific-research#studyPopulationCount](http://vivoweb.org/ontology/scientific-research" \l "studyPopulationCount)  
› [http://aims.fao.org/aos/geopolitical.owl#HDIUnit](http://aims.fao.org/aos/geopolitical.owl" \l "HDIUnit)  
› <http://purl.org/ontology/bibo/oclcnum>  
› [http://aims.fao.org/aos/geopolitical.owl#nameListEN](http://aims.fao.org/aos/geopolitical.owl" \l "nameListEN)  
› <http://purl.org/ontology/bibo/issue>  
› [http://aims.fao.org/aos/geopolitical.owl#nameCurrencyFR](http://aims.fao.org/aos/geopolitical.owl" \l "nameCurrencyFR)  
› <http://purl.obolibrary.org/obo/ARG_2000012>  
› [http://vivoweb.org/ontology/core#courseCredits](http://vivoweb.org/ontology/core" \l "courseCredits)  
› [http://www.w3.org/2006/vcard/ns#geo](http://www.w3.org/2006/vcard/ns" \l "geo)  
› [http://aims.fao.org/aos/geopolitical.owl#agriculturalAreaYear](http://aims.fao.org/aos/geopolitical.owl" \l "agriculturalAreaYear)  
› [http://aims.fao.org/aos/geopolitical.owl#nameOfficialRU](http://aims.fao.org/aos/geopolitical.owl" \l "nameOfficialRU)  
› [http://aims.fao.org/aos/geopolitical.owl#nationalityIT](http://aims.fao.org/aos/geopolitical.owl" \l "nationalityIT)  
› [http://vivoweb.org/ontology/core#pmcid](http://vivoweb.org/ontology/core" \l "pmcid)  
› [http://vivoweb.org/ontology/core#hrJobTitle](http://vivoweb.org/ontology/core" \l "hrJobTitle)  
› [http://aims.fao.org/aos/geopolitical.owl#agriculturalAreaTotal](http://aims.fao.org/aos/geopolitical.owl" \l "agriculturalAreaTotal)  
› [http://vivoweb.org/ontology/core#placeOfPublication](http://vivoweb.org/ontology/core" \l "placeOfPublication)  
› [http://vivoweb.org/ontology/core#majorField](http://vivoweb.org/ontology/core" \l "majorField)  
› <http://purl.org/ontology/bibo/pageStart>  
› [http://aims.fao.org/aos/geopolitical.owl#agriculturalAreaUnit](http://aims.fao.org/aos/geopolitical.owl" \l "agriculturalAreaUnit)  
› [http://vivoweb.org/ontology/core#hasMonetaryAmount](http://vivoweb.org/ontology/core" \l "hasMonetaryAmount)  
› [http://www.w3.org/2006/vcard/ns#productId](http://www.w3.org/2006/vcard/ns" \l "productId)  
› [http://vivoweb.org/ontology/core#sponsorAwardId](http://vivoweb.org/ontology/core" \l "sponsorAwardId)  
› <http://purl.org/ontology/bibo/abstract>  
› <http://purl.org/ontology/bibo/shortDescription>  
› <http://purl.org/ontology/bibo/eanucc13>  
  
• **Tip:** Solving this pitfall may lead to new results for other pitfalls and suggestions. We encourage you to solve all cases when needed and see what else you can get from OOPS!

### [**Results for P12: Equivalent properties not explicitly declared.1 case | Important**](http://oops.linkeddata.es/response.jsp)

The ontology lacks information about equivalent properties (owl:equivalentProperty) in the cases of duplicated relationships and/or attributes.  
  
• The following relations could be defined as equivalent:  
› [http://www.w3.org/2006/vcard/ns#hasMember](http://www.w3.org/2006/vcard/ns" \l "hasMember), [http://aims.fao.org/aos/geopolitical.owl#hasMember](http://aims.fao.org/aos/geopolitical.owl" \l "hasMember)

### [**Results for P13: Inverse relationships not explicitly declared.79 cases | Minor**](http://oops.linkeddata.es/response.jsp)

This pitfall appears when any relationship (except for those that are defined as symmetric properties using owl:SymmetricProperty) does not have an inverse relationship (owl:inverseOf) defined within the ontology.  
  
• This pitfall appears in the following elements:  
› [http://www.w3.org/2006/vcard/ns#hasAddress](http://www.w3.org/2006/vcard/ns" \l "hasAddress)  
› <http://purl.obolibrary.org/obo/RO_0001000>  
› [http://vivoweb.org/ontology/core#dateIssued](http://vivoweb.org/ontology/core" \l "dateIssued)  
› [http://www.w3.org/2006/vcard/ns#hasPhoto](http://www.w3.org/2006/vcard/ns" \l "hasPhoto)  
› [http://www.w3.org/2006/vcard/ns#hasTelephone](http://www.w3.org/2006/vcard/ns" \l "hasTelephone)  
› [http://www.w3.org/2006/vcard/ns#hasOrganizationName](http://www.w3.org/2006/vcard/ns" \l "hasOrganizationName)  
› [http://vivoweb.org/ontology/core#end](http://vivoweb.org/ontology/core" \l "end)  
› <http://purl.obolibrary.org/obo/OBI_0000293>  
› <http://purl.org/ontology/bibo/recipient>  
› <http://purl.org/ontology/bibo/affirmedBy>  
› <http://purl.obolibrary.org/obo/RO_0002220>  
› <http://purl.org/ontology/bibo/annotates>  
› [http://vivoweb.org/ontology/core#dateTimeValue](http://vivoweb.org/ontology/core" \l "dateTimeValue)  
› <http://isf/deprecated_op>  
› [http://aims.fao.org/aos/geopolitical.owl#isAdministeredBy](http://aims.fao.org/aos/geopolitical.owl" \l "isAdministeredBy)  
› [http://vivoweb.org/ontology/core#start](http://vivoweb.org/ontology/core" \l "start)  
› <http://purl.org/ontology/bibo/subsequentLegalDecision>  
› [http://vivoweb.org/ontology/core#dateFiled](http://vivoweb.org/ontology/core" \l "dateFiled)  
› [http://www.w3.org/2006/vcard/ns#hasOrganizationalUnitName](http://www.w3.org/2006/vcard/ns" \l "hasOrganizationalUnitName)  
› [http://www.w3.org/2006/vcard/ns#hasTimeZone](http://www.w3.org/2006/vcard/ns" \l "hasTimeZone)  
› <http://purl.obolibrary.org/obo/ERO_0001518>  
› <http://purl.obolibrary.org/obo/ERO_0000775>  
› [http://www.w3.org/2006/vcard/ns#hasSound](http://www.w3.org/2006/vcard/ns" \l "hasSound)  
› [http://www.w3.org/2006/vcard/ns#hasLanguage](http://www.w3.org/2006/vcard/ns" \l "hasLanguage)  
› [http://www.w3.org/2006/vcard/ns#hasTitle](http://www.w3.org/2006/vcard/ns" \l "hasTitle)  
› [http://www.w3.org/2006/vcard/ns#hasKey](http://www.w3.org/2006/vcard/ns" \l "hasKey)  
› [http://www.w3.org/2006/vcard/ns#hasNote](http://www.w3.org/2006/vcard/ns" \l "hasNote)  
› <http://purl.org/ontology/bibo/performer>  
› [http://www.w3.org/2006/vcard/ns#hasCategory](http://www.w3.org/2006/vcard/ns" \l "hasCategory)  
› <http://purl.org/ontology/bibo/interviewer>  
› [http://www.obofoundry.org/ro/ro.owl#has\_agent](http://www.obofoundry.org/ro/ro.owl" \l "has_agent)  
› <http://www.ebi.ac.uk/efo/swo/SWO_0000740>  
› <http://purl.org/ontology/bibo/status>  
› [http://www.w3.org/2006/vcard/ns#hasMember](http://www.w3.org/2006/vcard/ns" \l "hasMember)  
› [http://vivoweb.org/ontology/core#validIn](http://vivoweb.org/ontology/core" \l "validIn)  
› <http://purl.obolibrary.org/obo/OBI_0000643>  
› [http://vivoweb.org/ontology/core#degreeCandidacy](http://vivoweb.org/ontology/core" \l "degreeCandidacy)  
› [http://www.w3.org/2006/vcard/ns#hasLogo](http://www.w3.org/2006/vcard/ns" \l "hasLogo)  
› [http://vivoweb.org/ontology/core#expirationDate](http://vivoweb.org/ontology/core" \l "expirationDate)  
› [http://www.w3.org/2006/vcard/ns#hasName](http://www.w3.org/2006/vcard/ns" \l "hasName)  
› <http://www.ebi.ac.uk/efo/swo/SWO_0000741>  
› <http://purl.obolibrary.org/obo/ERO_0000038>  
› [http://www.w3.org/2006/vcard/ns#hasGeo](http://www.w3.org/2006/vcard/ns" \l "hasGeo)  
› <http://purl.org/spar/c4o/hasGlobalCountSource>  
› <http://purl.org/ontology/bibo/interviewee>  
› <http://purl.obolibrary.org/obo/ARG_2000399>  
› <http://purl.obolibrary.org/obo/RO_0002233>  
› <http://purl.org/ontology/bibo/reversedBy>  
› [http://www.w3.org/2006/vcard/ns#hasNickname](http://www.w3.org/2006/vcard/ns" \l "hasNickname)  
› [http://www.w3.org/2006/vcard/ns#hasInstantMessage](http://www.w3.org/2006/vcard/ns" \l "hasInstantMessage)  
› <http://purl.obolibrary.org/obo/ERO_0000543>  
› <http://purl.org/ontology/bibo/issuer>  
› [http://www.w3.org/2006/vcard/ns#hasCalendarLink](http://www.w3.org/2006/vcard/ns" \l "hasCalendarLink)  
› [http://vivoweb.org/ontology/core#dateTimePrecision](http://vivoweb.org/ontology/core" \l "dateTimePrecision)  
› <http://purl.obolibrary.org/obo/OBI_0000304>  
› <http://purl.org/dc/terms/contributor>  
› [http://vivoweb.org/ontology/core#eligibleFor](http://vivoweb.org/ontology/core" \l "eligibleFor)  
› <http://purl.obolibrary.org/obo/IAO_0000136>  
› [http://www.w3.org/2006/vcard/ns#hasCalenderBusy](http://www.w3.org/2006/vcard/ns" \l "hasCalenderBusy)  
› [http://www.w3.org/2006/vcard/ns#hasRelated](http://www.w3.org/2006/vcard/ns" \l "hasRelated)  
› <http://purl.org/spar/c4o/hasGlobalCitationFrequency>  
› <http://purl.org/ontology/bibo/transcriptOf>  
› <http://purl.obolibrary.org/obo/ERO_0000033>  
› [http://aims.fao.org/aos/geopolitical.owl#hasBorderWith](http://aims.fao.org/aos/geopolitical.owl" \l "hasBorderWith)  
› [http://vivoweb.org/ontology/core#confirmedOrcidId](http://vivoweb.org/ontology/core" \l "confirmedOrcidId)  
› [http://www.w3.org/2006/vcard/ns#hasFormattedName](http://www.w3.org/2006/vcard/ns" \l "hasFormattedName)  
› [http://vivoweb.org/ontology/core#orcidId](http://vivoweb.org/ontology/core" \l "orcidId)  
› <http://purl.obolibrary.org/obo/IAO_0000039>  
› <http://purl.org/ontology/bibo/court>  
› <http://purl.org/ontology/bibo/degree>  
› [http://vivoweb.org/ontology/core#dateTimeInterval](http://vivoweb.org/ontology/core" \l "dateTimeInterval)  
› [http://www.w3.org/2006/vcard/ns#hasEmail](http://www.w3.org/2006/vcard/ns" \l "hasEmail)  
› [http://www.w3.org/2006/vcard/ns#hasCalendarRequest](http://www.w3.org/2006/vcard/ns" \l "hasCalendarRequest)  
› <http://purl.obolibrary.org/obo/ERO_0000034>  
› [http://vivoweb.org/ontology/core#affiliatedOrganization](http://vivoweb.org/ontology/core" \l "affiliatedOrganization)  
› <http://purl.org/ontology/bibo/director>  
› <http://purl.obolibrary.org/obo/IAO_0000142>  
› <http://purl.obolibrary.org/obo/ERO_0000572>  
› [http://www.w3.org/2006/vcard/ns#hasURL](http://www.w3.org/2006/vcard/ns" \l "hasURL)

### [**Results for P20: Misusing ontology annotations.8 cases | Minor**](http://oops.linkeddata.es/response.jsp)

The contents of some annotation properties are swapped or misused. This pitfall might affect annotation properties related to natural language information (for example, annotations for naming such as rdfs:label or for providing descriptions such as rdfs:comment). Other types of annotation could also be affected as temporal, versioning information, among others.  
  
• This pitfall appears in the following elements:  
› [http://vivoweb.org/ontology/core#Authorship](http://vivoweb.org/ontology/core" \l "Authorship)  
› <http://purl.org/ontology/bibo/doi>  
› <http://purl.org/ontology/bibo/lccn>  
› <http://purl.org/ontology/bibo/asin>  
› <http://purl.org/ontology/bibo/upc>  
› <http://purl.org/ontology/bibo/sici>  
› <http://purl.org/ontology/bibo/issn>  
› <http://purl.org/ontology/bibo/oclcnum>

### [**Results for P21: Using a miscellaneous class.1 case | Minor**](http://oops.linkeddata.es/response.jsp)

This pitfall refers to the creation of a class with the only goal of classifying the instances that do not belong to any of its sibling classes (classes with which the miscellaneous problematic class shares a common direct ancestor).  
  
• This pitfall appears in the following elements:  
› [http://www.w3.org/2006/vcard/ns#Other](http://www.w3.org/2006/vcard/ns" \l "Other)

### [**Results for P22: Using different naming conventions in the ontology.ontology\* | Minor**](http://oops.linkeddata.es/response.jsp)

The ontology elements are not named following the same convention (for example CamelCase or use of delimiters as "-" or "\_") . Some notions about naming conventions are provided in [2].  
  
\*This pitfall applies to the ontology in general instead of specific elements.

### [**Results for P24: Using recursive definitions.2 cases | Important**](http://oops.linkeddata.es/response.jsp)

An ontology element (a class, an object property or a datatype property) is used in its own definition. Some examples of this would be: (a) the definition of a class as the enumeration of several classes including itself; (b) the appearance of a class within its owl:equivalentClass or rdfs:subClassOf axioms; (c) the appearance of an object property in its rdfs:domain or range rdfs:range definitions; or (d) the appearance of a datatype property in its rdfs:domain definition.  
  
• This pitfall appears in the following elements:  
› [http://vivoweb.org/ontology/core#GeographicLocation](http://vivoweb.org/ontology/core" \l "GeographicLocation)  
› [http://vivoweb.org/ontology/core#Facility](http://vivoweb.org/ontology/core" \l "Facility)

### [**Results for P30: Equivalent classes not explicitly declared.9 cases | Important**](http://oops.linkeddata.es/response.jsp)

This pitfall consists in missing the definition of equivalent classes (owl:equivalentClass) in case of duplicated concepts. When an ontology reuses terms from other ontologies, classes that have the same meaning should be defined as equivalent in order to benefit the interoperability between both ontologies.  
  
• The following classes might be equivalent:  
› <http://purl.obolibrary.org/obo/BFO_0000029>, <http://purl.org/ontology/bibo/Website>  
› <http://purl.org/ontology/bibo/Issue>, [http://purl.org/NET/c4dm/event.owl#Event](http://purl.org/NET/c4dm/event.owl" \l "Event)  
› <http://purl.org/ontology/bibo/Map>, <http://purl.obolibrary.org/obo/BFO_0000034>  
› [http://www.w3.org/2006/vcard/ns#Address](http://www.w3.org/2006/vcard/ns" \l "Address), [http://vivoweb.org/ontology/core#Speech](http://vivoweb.org/ontology/core" \l "Speech)  
› <http://purl.obolibrary.org/obo/BFO_0000034>, <http://purl.obolibrary.org/obo/BFO_0000023>  
› [http://vivoweb.org/ontology/core#Speech](http://vivoweb.org/ontology/core" \l "Speech), [http://www.w3.org/2006/vcard/ns#Language](http://www.w3.org/2006/vcard/ns" \l "Language)  
› <http://purl.org/ontology/bibo/Note>, <http://purl.org/ontology/bibo/Bill>  
› [http://vivoweb.org/ontology/core#Credential](http://vivoweb.org/ontology/core" \l "Credential), [http://vivoweb.org/ontology/core#Certification](http://vivoweb.org/ontology/core" \l "Certification), [http://vivoweb.org/ontology/core#Certificate](http://vivoweb.org/ontology/core" \l "Certificate)  
› [http://vivoweb.org/ontology/core#Credential](http://vivoweb.org/ontology/core" \l "Credential), [http://vivoweb.org/ontology/core#Certificate](http://vivoweb.org/ontology/core" \l "Certificate)

### [**Results for P32: Several classes with the same label.7 cases | Minor**](http://oops.linkeddata.es/response.jsp)

Two or more classes have the same content for natural language annotations for naming, for example the rdfs:label annotation. This pitfall might involve lack of accuracy when defining terms.  
  
• The following classes contains the same label, maybe they should be replaced by one class with several labels or might be equivalent classes:  
› [http://purl.org/net/OCRe/study\_design.owl#Phase\_0](http://purl.org/net/OCRe/study_design.owl" \l "Phase_0), [http://purl.org/net/OCRe/study\_design.owl#Phase\_1](http://purl.org/net/OCRe/study_design.owl" \l "Phase_1), [http://purl.org/net/OCRe/study\_design.owl#Phase\_2](http://purl.org/net/OCRe/study_design.owl" \l "Phase_2)  
› [http://purl.org/net/OCRe/study\_design.owl#Phase\_1](http://purl.org/net/OCRe/study_design.owl" \l "Phase_1), [http://purl.org/net/OCRe/study\_design.owl#Phase\_2](http://purl.org/net/OCRe/study_design.owl" \l "Phase_2)  
› [http://purl.org/net/OCRe/study\_design.owl#Phase\_3](http://purl.org/net/OCRe/study_design.owl" \l "Phase_3), [http://purl.org/net/OCRe/study\_design.owl#OCRE100038](http://purl.org/net/OCRe/study_design.owl" \l "OCRE100038), [http://purl.org/net/OCRe/study\_design.owl#Phase\_0](http://purl.org/net/OCRe/study_design.owl" \l "Phase_0), [http://purl.org/net/OCRe/study\_design.owl#Phase\_1](http://purl.org/net/OCRe/study_design.owl" \l "Phase_1), [http://purl.org/net/OCRe/study\_design.owl#Phase\_2](http://purl.org/net/OCRe/study_design.owl" \l "Phase_2)  
› [http://purl.org/net/OCRe/study\_design.owl#OCRE100038](http://purl.org/net/OCRe/study_design.owl" \l "OCRE100038), [http://purl.org/net/OCRe/study\_design.owl#Phase\_0](http://purl.org/net/OCRe/study_design.owl" \l "Phase_0), [http://purl.org/net/OCRe/study\_design.owl#Phase\_1](http://purl.org/net/OCRe/study_design.owl" \l "Phase_1), [http://purl.org/net/OCRe/study\_design.owl#Phase\_2](http://purl.org/net/OCRe/study_design.owl" \l "Phase_2)  
› [http://www.w3.org/2006/vcard/ns#Code](http://www.w3.org/2006/vcard/ns" \l "Code), <http://purl.org/ontology/bibo/Code>  
› [http://purl.org/net/OCRe/study\_design.owl#Phase\_3](http://purl.org/net/OCRe/study_design.owl" \l "Phase_3), [http://purl.org/net/OCRe/study\_design.owl#Phase\_4](http://purl.org/net/OCRe/study_design.owl" \l "Phase_4), [http://purl.org/net/OCRe/study\_design.owl#OCRE100038](http://purl.org/net/OCRe/study_design.owl" \l "OCRE100038), [http://purl.org/net/OCRe/study\_design.owl#Phase\_0](http://purl.org/net/OCRe/study_design.owl" \l "Phase_0), [http://purl.org/net/OCRe/study\_design.owl#Phase\_1](http://purl.org/net/OCRe/study_design.owl" \l "Phase_1), [http://purl.org/net/OCRe/study\_design.owl#Phase\_2](http://purl.org/net/OCRe/study_design.owl" \l "Phase_2)  
› <http://xmlns.com/foaf/0.1/Group>, [http://aims.fao.org/aos/geopolitical.owl#group](http://aims.fao.org/aos/geopolitical.owl" \l "group)

### [**Results for P41: No license declared.ontology\* | Important**](http://oops.linkeddata.es/response.jsp)

The ontology metadata omits information about the license that applies to the ontology.  
  
\*This pitfall applies to the ontology in general instead of specific elements.

### [**SUGGESTION: symmetric or transitive object properties.59 cases**](http://oops.linkeddata.es/response.jsp)

The domain and range axioms are equal for each of the following object properties. Could they be symmetric or transitive?  
› <http://purl.org/ontology/bibo/citedBy>  
› <http://purl.org/ontology/bibo/citedBy>  
› <http://purl.org/ontology/bibo/citedBy>  
› <http://purl.org/ontology/bibo/citedBy>  
› [http://vivoweb.org/ontology/core#hasPrerequisite](http://vivoweb.org/ontology/core" \l "hasPrerequisite)  
› [http://vivoweb.org/ontology/core#hasPrerequisite](http://vivoweb.org/ontology/core" \l "hasPrerequisite)  
› [http://vivoweb.org/ontology/core#hasPrerequisite](http://vivoweb.org/ontology/core" \l "hasPrerequisite)  
› [http://vivoweb.org/ontology/core#hasPrerequisite](http://vivoweb.org/ontology/core" \l "hasPrerequisite)  
› [http://vivoweb.org/ontology/core#prerequisiteFor](http://vivoweb.org/ontology/core" \l "prerequisiteFor)  
› [http://vivoweb.org/ontology/core#prerequisiteFor](http://vivoweb.org/ontology/core" \l "prerequisiteFor)  
› [http://vivoweb.org/ontology/core#prerequisiteFor](http://vivoweb.org/ontology/core" \l "prerequisiteFor)  
› [http://vivoweb.org/ontology/core#prerequisiteFor](http://vivoweb.org/ontology/core" \l "prerequisiteFor)  
› <http://purl.org/ontology/bibo/translationOf>  
› <http://purl.org/ontology/bibo/translationOf>  
› <http://purl.org/ontology/bibo/translationOf>  
› <http://purl.org/ontology/bibo/translationOf>  
› [http://www.w3.org/2004/02/skos/core#narrower](http://www.w3.org/2004/02/skos/core" \l "narrower)  
› [http://www.w3.org/2004/02/skos/core#narrower](http://www.w3.org/2004/02/skos/core" \l "narrower)  
› [http://www.w3.org/2004/02/skos/core#narrower](http://www.w3.org/2004/02/skos/core" \l "narrower)  
› [http://www.w3.org/2004/02/skos/core#narrower](http://www.w3.org/2004/02/skos/core" \l "narrower)  
› [http://vivoweb.org/ontology/core#reproduces](http://vivoweb.org/ontology/core" \l "reproduces)  
› [http://vivoweb.org/ontology/core#reproduces](http://vivoweb.org/ontology/core" \l "reproduces)  
› [http://vivoweb.org/ontology/core#reproduces](http://vivoweb.org/ontology/core" \l "reproduces)  
› [http://vivoweb.org/ontology/core#reproduces](http://vivoweb.org/ontology/core" \l "reproduces)  
› [http://www.w3.org/2002/07/owl#sameAs](http://www.w3.org/2002/07/owl" \l "sameAs)  
› [http://www.w3.org/2002/07/owl#sameAs](http://www.w3.org/2002/07/owl" \l "sameAs)  
› [http://www.w3.org/2002/07/owl#sameAs](http://www.w3.org/2002/07/owl" \l "sameAs)  
› <http://purl.obolibrary.org/obo/RO_0003000>  
› <http://purl.obolibrary.org/obo/RO_0003000>  
› <http://purl.obolibrary.org/obo/RO_0003000>  
› <http://purl.obolibrary.org/obo/RO_0003000>  
› <http://purl.org/ontology/bibo/reproducedIn>  
› <http://purl.org/ontology/bibo/reproducedIn>  
› <http://purl.org/ontology/bibo/reproducedIn>  
› <http://purl.org/ontology/bibo/reproducedIn>  
› [http://aims.fao.org/aos/geopolitical.owl#isSuccessorOf](http://aims.fao.org/aos/geopolitical.owl" \l "isSuccessorOf)  
› [http://aims.fao.org/aos/geopolitical.owl#isSuccessorOf](http://aims.fao.org/aos/geopolitical.owl" \l "isSuccessorOf)  
› [http://aims.fao.org/aos/geopolitical.owl#isSuccessorOf](http://aims.fao.org/aos/geopolitical.owl" \l "isSuccessorOf)  
› [http://aims.fao.org/aos/geopolitical.owl#isSuccessorOf](http://aims.fao.org/aos/geopolitical.owl" \l "isSuccessorOf)  
› <http://purl.obolibrary.org/obo/RO_0003001>  
› <http://purl.obolibrary.org/obo/RO_0003001>  
› <http://purl.obolibrary.org/obo/RO_0003001>  
› <http://purl.obolibrary.org/obo/RO_0003001>  
› [http://aims.fao.org/aos/geopolitical.owl#isPredecessorOf](http://aims.fao.org/aos/geopolitical.owl" \l "isPredecessorOf)  
› [http://aims.fao.org/aos/geopolitical.owl#isPredecessorOf](http://aims.fao.org/aos/geopolitical.owl" \l "isPredecessorOf)  
› [http://aims.fao.org/aos/geopolitical.owl#isPredecessorOf](http://aims.fao.org/aos/geopolitical.owl" \l "isPredecessorOf)  
› [http://aims.fao.org/aos/geopolitical.owl#isPredecessorOf](http://aims.fao.org/aos/geopolitical.owl" \l "isPredecessorOf)  
› [http://vivoweb.org/ontology/core#hasTranslation](http://vivoweb.org/ontology/core" \l "hasTranslation)  
› [http://vivoweb.org/ontology/core#hasTranslation](http://vivoweb.org/ontology/core" \l "hasTranslation)  
› [http://vivoweb.org/ontology/core#hasTranslation](http://vivoweb.org/ontology/core" \l "hasTranslation)  
› [http://vivoweb.org/ontology/core#hasTranslation](http://vivoweb.org/ontology/core" \l "hasTranslation)  
› <http://purl.org/ontology/bibo/cites>  
› <http://purl.org/ontology/bibo/cites>  
› <http://purl.org/ontology/bibo/cites>  
› <http://purl.org/ontology/bibo/cites>  
› [http://www.w3.org/2004/02/skos/core#broader](http://www.w3.org/2004/02/skos/core" \l "broader)  
› [http://www.w3.org/2004/02/skos/core#broader](http://www.w3.org/2004/02/skos/core" \l "broader)  
› [http://www.w3.org/2004/02/skos/core#broader](http://www.w3.org/2004/02/skos/core" \l "broader)  
› [http://www.w3.org/2004/02/skos/core#broader](http://www.w3.org/2004/02/skos/core" \l "broader)