Action 8 - Data Standards Supporting Citizen Participation in Urban Planning

Participatory Data Specification

Theme: Urban planning & citizen participation
Objective: Better Regulation
Date enacted: 04.04.2019
Regulatory agency: LGV (Hamburg) and SBF (Helsingborg)

Content

PDS Overview diagram

Class diagram in package 'Participatory Data Specification'

MainProject

+ extent: Geometry [0..1]
+ id: IdType
+ nameShort: String [0..1]
+ nameFull: String
+ dateStart: LocalDateTime
+ dateEnd: LocalDateTime [0..1]
+ website: URL [0..1]
+ description: String [0..1]
+ mainResponsible: String [0..1]
+ country: CountryCodes
+ region: LAU
+ language: LanguageTag [0..1]
+ type: ProjectTypes [0..1]
+ customAttribute: CustomAttributeType [0..*]

ParticipatoryProject

+ projectArea: Geometry [0..1]
+ id: IdType
+ nameShort: String [0..1]
+ nameFull: String
+ dateStart: LocalDateTime
+ dateEnd: LocalDateTime [0..1]
+ website: URL [0..1]
+ description: String
+ processingStep: ProcessingSteps [0..1]
+ areaSize: Real [0..1]
+ locationDescription: String [0..1]
+ owner: Organization
+ publisher: Organization
+ standardCategories: StandardCategoriesList
+ standardSubcategories: StandardSubcategoriesList [0..1]
+ referenceSystem: EPSGCode
+ projectContributionType: ContributionTypes [0..1]
+ customAttribute: CustomAttributeType [0..*]

+mainProject   +participatoryProjects
0..1   0..*

+belongToProject

+hasParticipatoryText

Contribution

+ location: Geometry [0..1]
+ id: IdType
+ dateCreated: LocalDateTime
+ link: URL [0..1]
+ title: String [0..1]
+ latitude: Real [0..1]
+ longitude: Real [0..1]
+ attachment: URL [0..*]
+ contributionType: ContributionTypes [0..1]
+ contributionContent: String
+ status: StatusValue [0..1]
+ keywordSuggested: String [0..*]
+ keywordPicked: String [0..*]
+ category: StandardCategoriesList
+ subCategory: StandardSubcategoriesList [0..1]
+ votingPro: Integer [0..1]
+ votingContra: Integer [0..1]
+ commentsNumber: int
+ sentiment: SentimentType [0..1]
+ customAttribute: CustomAttributeType [0..*]

+commentOnContribution   0..1

ContributionProcessed

+ dateEdited: LocalDateTime [0..1]
+ revisesContribution: IdType
+ categoryNew: StandardCategoriesList [0..1]
+ subcategoryNew: StandardSubcategoriesList [0..1]

+hasAttachment   0..*

Attachment

+ id: IdType
+ attachmentName: String
+ attachmentType: String
+ description: String [0..1]
+ mimeType: MimeTypes [0..1]
+ submitter: Organization [0..1]

+commentedBy   0..*

Comment

+ location: Geometry [0..1]
+ id: IdType
+ dateCreated: LocalDateTime
+ link: URL [0..1]
+ title: String [0..1]
+ latitude: Real [0..1]
+ longitude: Real [0..1]
+ attachment: URL [0..*]
+ contributionType: ContributionTypes [0..1]
+ commentContent: String
+ votingPro: Integer [0..1]
+ votingContra: Integer [0..1]
+ customAttribute: CustomAttributeType [0..*]

+commentedBy   +commentOnAttachment   0..1
0..*

+commentOnComment   0..1

+commentedBy   0..*

+author   0..1

Author

+ id: IdType
+ nickname: String
+ institutionRep: Boolean

+author   0..1

+belongTo   1

PersonalData

+ age: int [0..1]
+ ageCategory: AgeCategories [0..1]
+ gender: Genders [0..1]
+ postalCode: String [0..1]
+ country: String [0..1]
+ name: String [0..1]
+ address: String [0..1]
+ email: String [0..1]
+ telephone: String [0..1]
+ institution: Organization [0..1]

Organization

+ id: IdType
+ name: String
+ address: String [0..1]
+ postalCode: String [0..1]
+ country: String [0..1]
+ email: String [0..1]
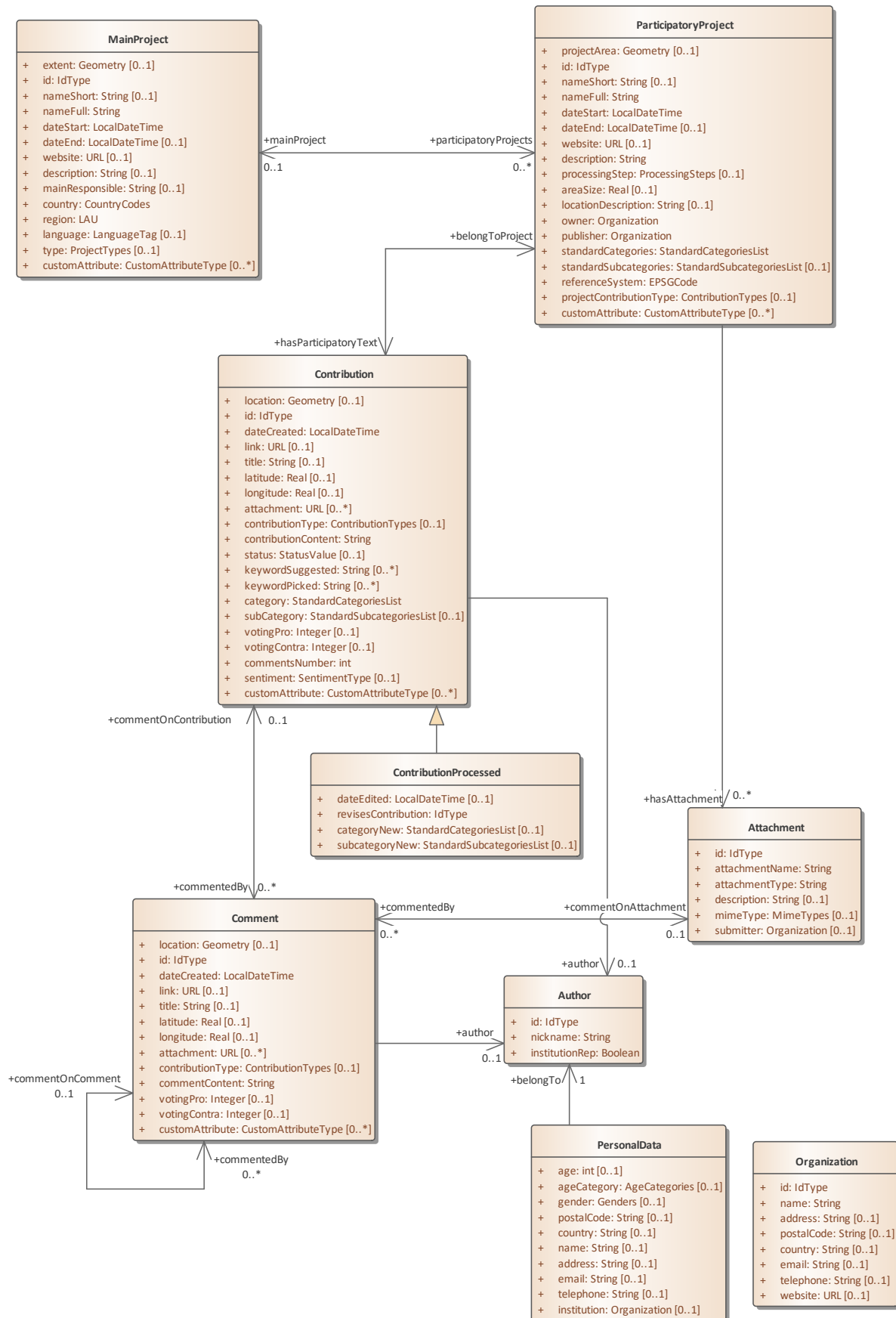+ telephone: String [0..1]
+ website: URL [0..1]

Figure 1: PDS Overview

ParticipatoryProject diagram

Class diagram in package 'Participatory Data Specification'

Figure 2: ParticipatoryProject

Actors diagram

Class diagram in package 'Participatory Data Specification'
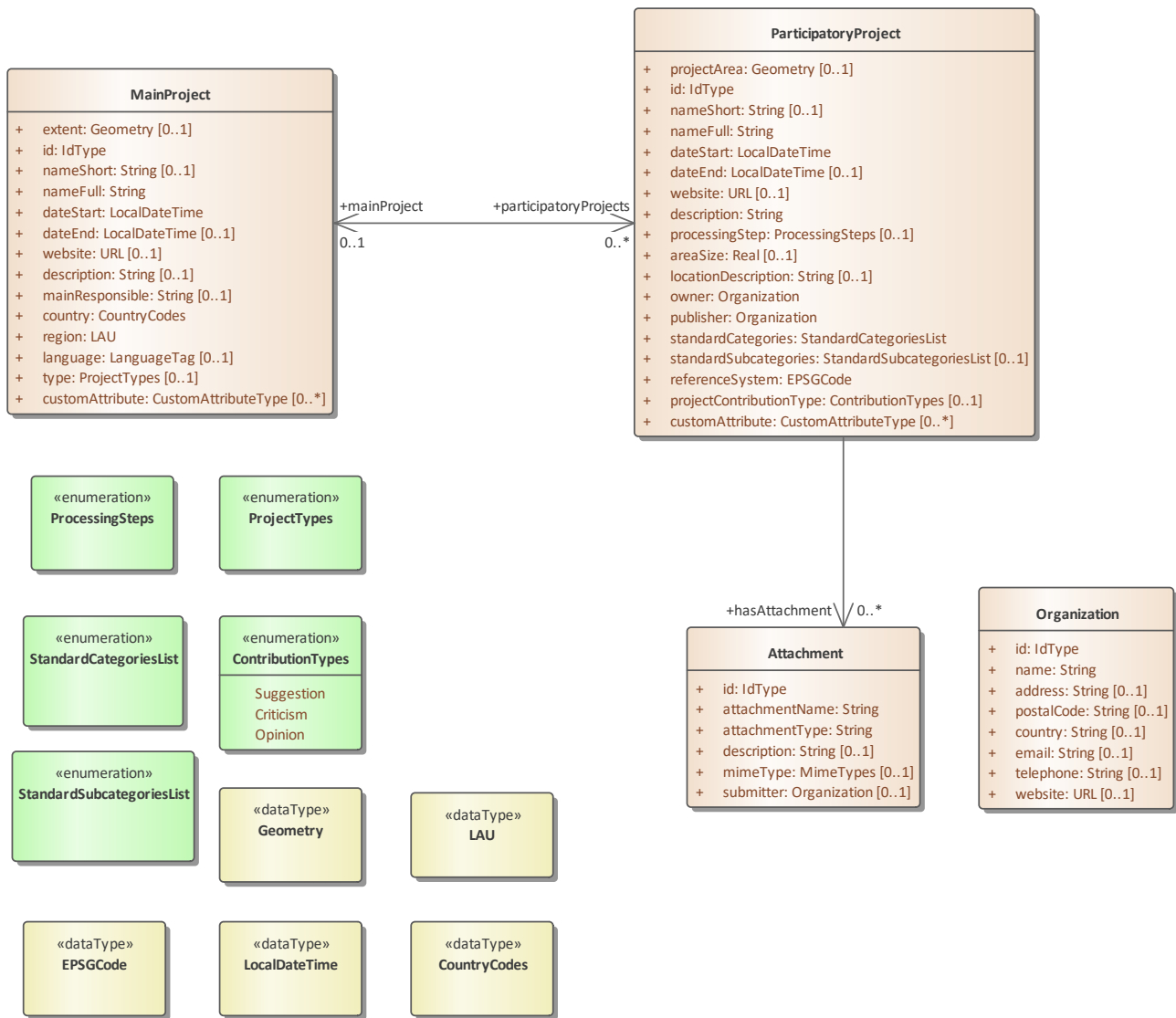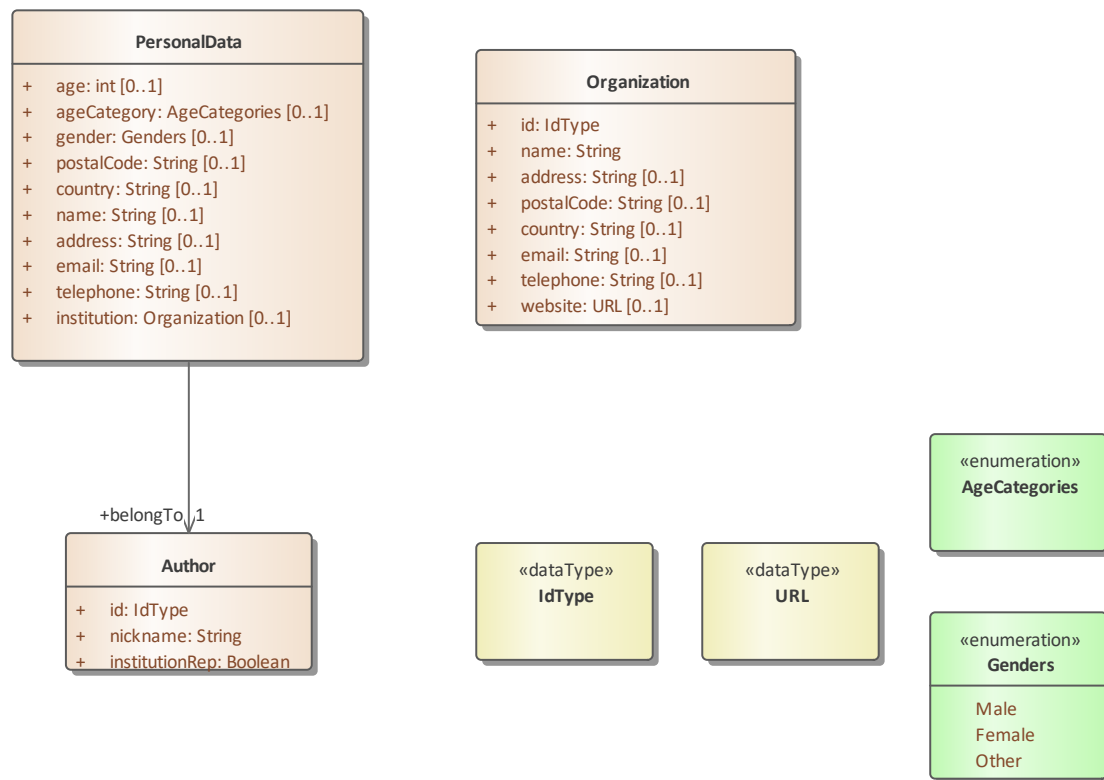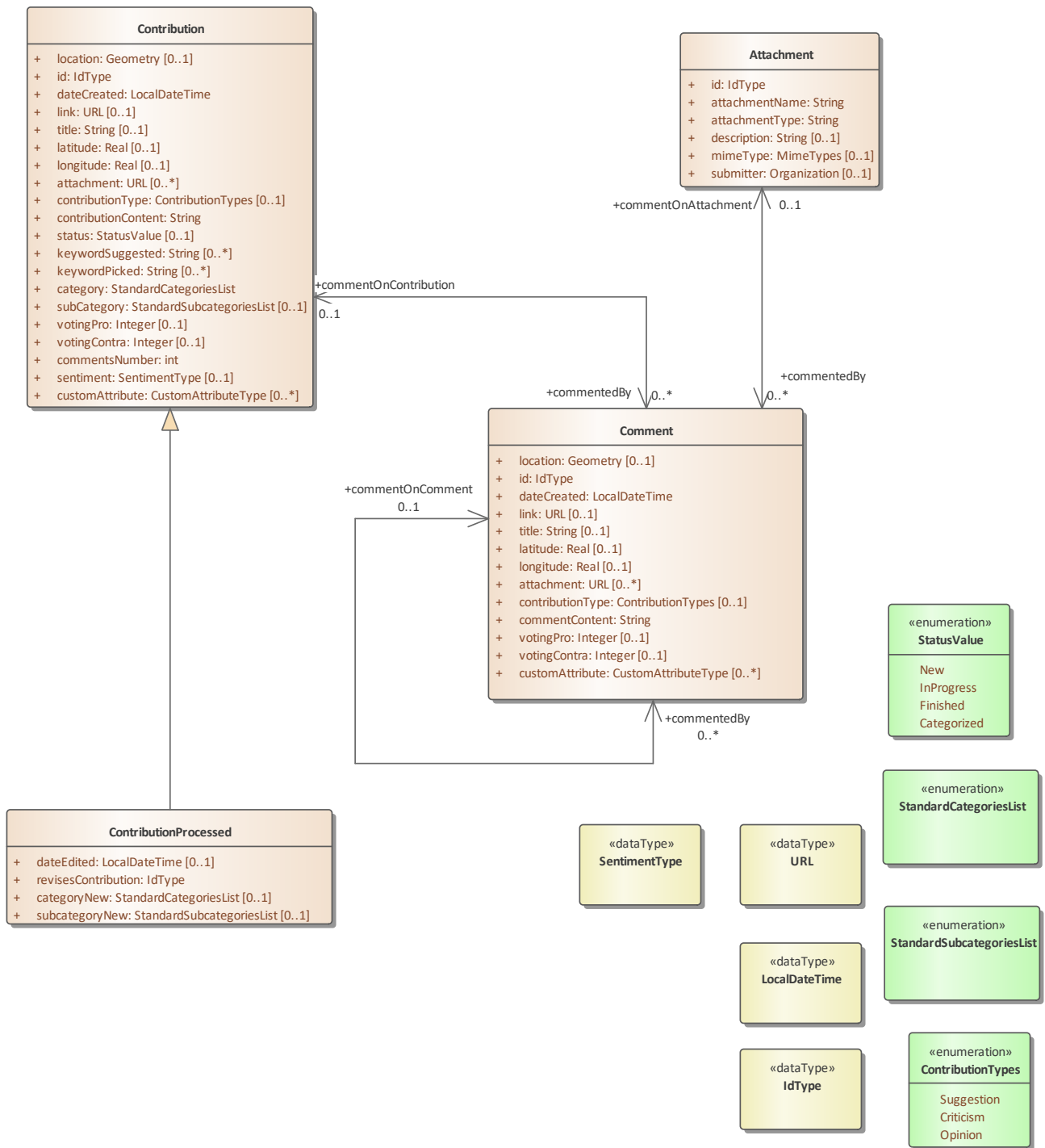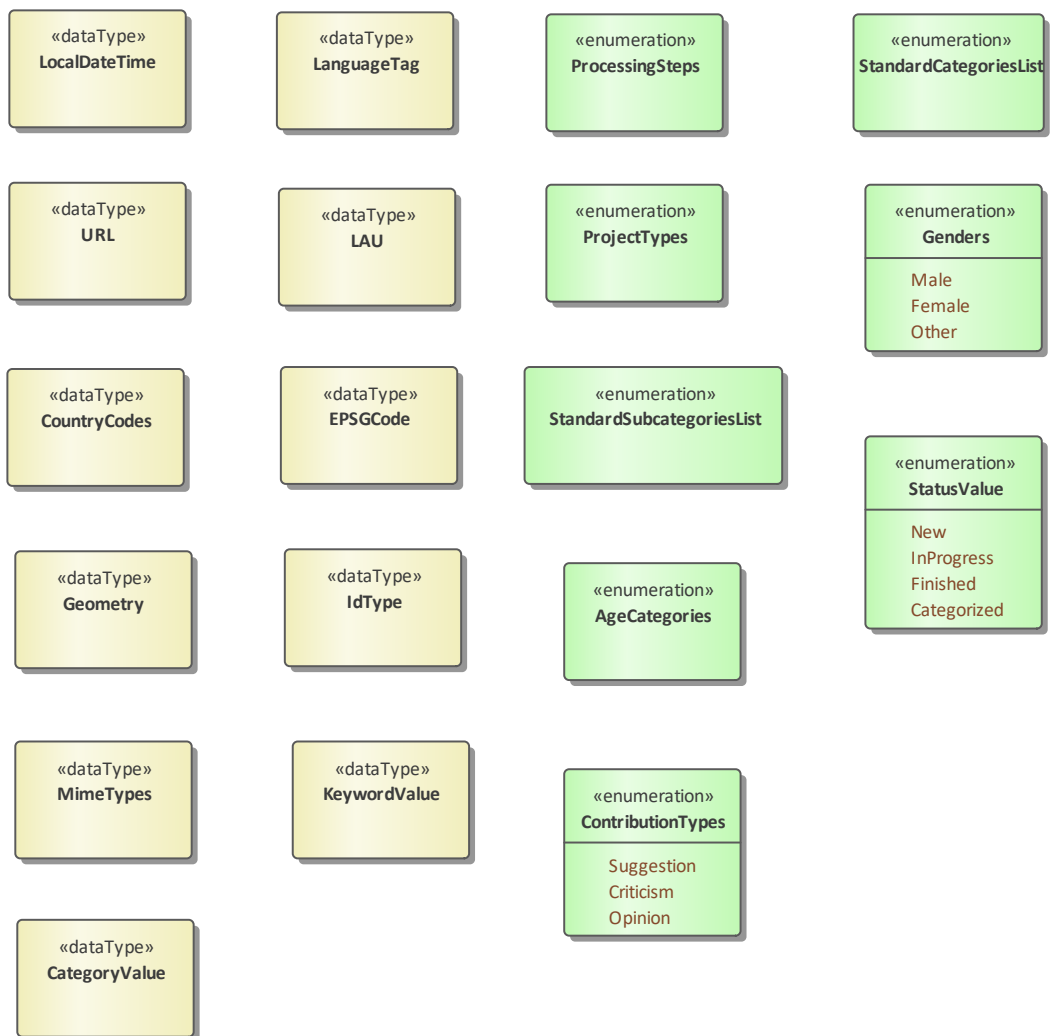
PersonalData

+ age: int [0..1]
+ ageCategory: AgeCategories [0..1]
+ gender: Genders [0..1]
+ postalCode: String [0..1]
+ country: String [0..1]
+ name: String [0..1]
+ address: String [0..1]
+ email: String [0..1]
+ telephone: String [0..1]
+ institution: Organization [0..1]

Organization

+ id: IdType
+ name: String
+ address: String [0..1]
+ postalCode: String [0..1]
+ country: String [0..1]
+ email: String [0..1]
+ telephone: String [0..1]
+ website: URL [0..1]

+belongTo 1

Author

+ id: IdType
+ nickname: String
+ institutionRep: Boolean

«dataType»
IdType

«dataType»
URL

«enumeration»
AgeCategories

«enumeration»
Genders

Male
Female
Other

Figure 3: Actors

ParticipatoryData diagram

Class diagram in package 'Participatory Data Specification'

Contribution

+	location: Geometry [0..1]
+	id: IdType
+	dateCreated: LocalDateTime
+	link: URL [0..1]
+	title: String [0..1]
+	latitude: Real [0..1]
+	longitude: Real [0..1]
+	attachment: URL [0..*]
+	contributionType: ContributionTypes [0..1]
+	contributionContent: String
+	status: StatusValue [0..1]
+	keywordSuggested: String [0..*]
+	keywordPicked: String [0..*]
+	category: StandardCategoriesList
+	subCategory: StandardSubcategoriesList [0..1]
+	votingPro: Integer [0..1]
+	votingContra: Integer [0..1]
+	commentsNumber: int
+	sentiment: SentimentType [0..1]
+	customAttribute: CustomAttributeType [0..*]

Attachment

+	id: IdType
+	attachmentName: String
+	attachmentType: String
+	description: String [0..1]
+	mimeType: MimeTypes [0..1]
+	submitter: Organization [0..1]

+commentOnAttachment   0..1

+commentOnContribution
0..1

+commentedBy   0..*

+commentedBy   0..*

Comment

+	location: Geometry [0..1]
+	id: IdType
+	dateCreated: LocalDateTime
+	link: URL [0..1]
+	title: String [0..1]
+	latitude: Real [0..1]
+	longitude: Real [0..1]
+	attachment: URL [0..*]
+	contributionType: ContributionTypes [0..1]
+	commentContent: String
+	votingPro: Integer [0..1]
+	votingContra: Integer [0..1]
+	customAttribute: CustomAttributeType [0..*]

+commentOnComment
0..1

+commentedBy
0..*

«enumeration»
StatusValue

New
InProgress
Finished
Categorized

«enumeration»
StandardCategoriesList

«enumeration»
StandardSubcategoriesList

«enumeration»
ContributionTypes

Suggestion
Criticism
Opinion

«dataType»
SentimentType

«dataType»
URL

«dataType»
LocalDateTime

«dataType»
IdType

ContributionProcessed

+	dateEdited: LocalDateTime [0..1]
+	revisesContribution: IdType
+	categoryNew: StandardCategoriesList [0..1]
+	subcategoryNew: StandardSubcategoriesList [0..1]

Figure 4: ParticipatoryData

Data Types diagram

Class diagram in package 'Participatory Data Specification'

«dataType» **LocalDateTime**	«dataType» **LanguageTag**	«enumeration» **ProcessingSteps**	«enumeration» **StandardCategoriesList**
«dataType» **URL**	«dataType» **LAU**	«enumeration» **ProjectTypes**	«enumeration» **Genders** Male Female Other
«dataType» **CountryCodes**	«dataType» **EPSGCode**	«enumeration» **StandardSubcategoriesList**	«enumeration» **StatusValue** New InProgress Finished Categorized
«dataType» **Geometry**	«dataType» **IdType**	«enumeration» **AgeCategories**	
«dataType» **MimeTypes**	«dataType» **KeywordValue**	«enumeration» **ContributionTypes** Suggestion Criticism Opinion	
«dataType» **CategoryValue**			

Figure 5: Data Types

Classes, Enumerations and Data Types

Attachment

Class in package 'Participatory Data Specification'

This class represents all kinds of attached materials in the participatory project.
For example design variants are often presented in a participatory project, on which citizens express their opinion. Each design would be a *Attachment* object.

ATTRIBUTES
◆ id : IdType Public
[Is static True. Containment is Not Specified.]
◆ attachmentName : String Public
Name of the attachment
[Is static True. Containment is Not Specified.]
◆ attachmentType : String Public
The type of the attachment. E.g. design, document, report etc.
[Is static True. Containment is Not Specified.]
◆ description : String Public
Multiplicity: ([0..1], Allow duplicates: 0, Is ordered: False)
A detailed description of the attached document
[Is static True. Containment is Not Specified.]
◆ mimeType : MimeTypes Public
Multiplicity: ([0..1], Allow duplicates: 0, Is ordered: False)
Media type of the attachment
[Is static True. Containment is Not Specified.]
◆ submitter : Organization Public
Multiplicity: ([0..1], Allow duplicates: 0, Is ordered: False)
Submitting organization of the attachment e.g. a design firm
[Is static True. Containment is Not Specified.]

ASSOCIATIONS
✎ Association (direction: Bi-Directional)

Source: Public commentedBy (Class) Comment	Target: Public commentOnAttachment (Class) Attachment
Cardinality: [0..*]	Cardinality: [0..1]

ASSOCIATIONS

🖉 Association (direction: Source -> Destination)

Source: Public (Class) ParticipatoryProject

Target: Public hasAttachment (Class) Attachment
Cardinality: [0..*]

Attached files to a project

Author

Class in package 'Participatory Data Specification'

Author of a contribution or a comment

ATTRIBUTES

🔹 id : IdType Public

An automatically generated ID of the author

[Is static True. Containment is Not Specified.]

🔹 nickname : String Public

The name, under which the citizen prefers to be referred to on the platform.

[Is static True. Containment is Not Specified.]

🔹 institutionRep : Boolean Public

Specifies if a person is a representative from a certain institution

[Is static True. Containment is Not Specified.]

ASSOCIATIONS

🖉 Association (direction: Destination -> Source)

Source: Public belongTo (Class) Author
Cardinality: [1]

Target: Public (Class) PersonalData

Owner of the personal data

🖉 Association (direction: Source -> Destination)

Source: Public (Class) Comment

Target: Public author (Class) Author
Cardinality: [0..1]

Author who wrote the contribution or comment

ASSOCIATIONS

✏ Association (direction: Source -> Destination)

Source: Public (Class) Contribution   Target: Public author (Class) Author
                                                                      Cardinality: [0..1]

                                                                      Author who wrote the contribution or comment

Comment

Class in package 'Participatory Data Specification'

Comments made by the public. A comment can be made either to a citizen contribution or to another comment.

ATTRIBUTES

◆ location : Geometry Public
   Multiplicity: ([0..1], Allow duplicates: 0, Is ordered: False)

Location the contribution concerns, could be a point, a line or a polygon. This field should always be filled if the contribution can be located.

[Is static True. Containment is Not Specified.]

◆ id : IdType Public

Automatically generated identifier

[Is static True. Containment is Not Specified.]

◆ dateCreated : LocalDateTime Public

Automatically generated date when contribution was created

[Is static True. Containment is Not Specified.]

◆ link : URL Public
   Multiplicity: ([0..1], Allow duplicates: 0, Is ordered: False)

URL to a specific contribution, if existing

[Is static True. Containment is Not Specified.]

◆ title : String Public
   Multiplicity: ([0..1], Allow duplicates: 0, Is ordered: False)

Title of contribution

[Is static True. Containment is Not Specified.]

◆ latitude : Real Public
   Multiplicity: ([0..1], Allow duplicates: 0, Is ordered: False)

Latitude of the point where the stated issue in the contribution is located (WGS 84). When the location is specified with a line or polygon, this field should be left blank.

ATTRIBUTES

[Is static True. Containment is Not Specified.]

◆ longitude : Real Public
Multiplicity: ([0..1], Allow duplicates: 0, Is ordered: False)

Longitude of the point where the stated issue in the contribution is located (WGS 84). When the location is specified with a line or polygon, this field should be left blank.

[Is static True. Containment is Not Specified.]

◆ attachment : URL Public
Multiplicity: ([0..*], Allow duplicates: 0, Is ordered: False)

URL to the attachments. For example photos and documents can be included as attachments.

[Is static True. Containment is Not Specified.]

◆ contributionType : ContributionTypes Public
Multiplicity: ([0..1], Allow duplicates: 0, Is ordered: False)

List of the predefined types of contribution, e.g. suggestion, opinion, criticism

[Is static True. Containment is Not Specified.]

◆ commentContent : String Public

Content of the comment

[Is static True. Containment is Not Specified.]

◆ votingPro : Integer Public
Multiplicity: ([0..1], Allow duplicates: 0, Is ordered: False)

Citizens have the possibility to vote for or against a contribution. This feature is optional, the final results of the pro-voting will be stored here.

[Is static True. Containment is Not Specified.]

◆ votingContra : Integer Public
Multiplicity: ([0..1], Allow duplicates: 0, Is ordered: False)

Citizens have the possibility to vote for or against a contribution. This feature is optional, the final results of the contra-voting will be stored here.

[Is static True. Containment is Not Specified.]

◆ customAttribute : CustomAttributeType Public
Multiplicity: ([0..*], Allow duplicates: 0, Is ordered: False)

The participatory data may need more attributes than specified in this model. For this purpose the data model can be extended according to need.

[Is static True. Containment is Not Specified.]

ASSOCIATIONS

ASSOCIATIONS

🖉 Association (direction: Bi-Directional)

Source: Public commentOnComment (Class) Comment
    Cardinality: [0..1]

Comment which is commented

Target: Public commentedBy (Class) Comment
    Cardinality: [0..*]

Other comments made to this comment object

🖉 Association (direction: Source -> Destination)

Source: Public (Class) Comment

Target: Public author (Class) Author
    Cardinality: [0..1]

Author who wrote the contribution or comment

🖉 Association (direction: Bi-Directional)

Source: Public commentedBy (Class) Comment
    Cardinality: [0..*]

Points to the comments made to the contribution

Target: Public commentOnContribution (Class) Contribution
    Cardinality: [0..1]

Contribution which the comment comments on or related to.

🖉 Association (direction: Bi-Directional)

Source: Public commentedBy (Class) Comment
    Cardinality: [0..*]

Target: Public commentOnAttachment (Class) Attachment
    Cardinality: [0..1]

🖉 Association (direction: Bi-Directional)

Source: Public commentOnComment (Class) Comment
    Cardinality: [0..1]

Comment which is commented

Target: Public commentedBy (Class) Comment
    Cardinality: [0..*]

Other comments made to this comment object

Contribution

Class in package 'Participatory Data Specification'

Contribution written by the citizens.

INCOMING STRUCTURAL RELATIONSHIPS

➡ Generalization from ContributionProcessed to Contribution

                                  [Direction is 'Bi-Directional'.]

ATTRIBUTES

ATTRIBUTES

🔷 location : Geometry Public
    Multiplicity: ([0..1], Allow duplicates: 0, Is ordered: False)

Location the contribution concerns, could be a point, a line or a polygon. This field should always be filled if the contribution can be located.

[Is static True. Containment is Not Specified.]

🔷 id : IdType Public

Automatically generated identifier

[Is static True. Containment is Not Specified.]

🔷 dateCreated : LocalDateTime Public

Automatically generated date when contribution was created

[Is static True. Containment is Not Specified.]

🔷 link : URL Public
    Multiplicity: ([0..1], Allow duplicates: 0, Is ordered: False)

URL to a specific contribution, if existing

[Is static True. Containment is Not Specified.]

🔷 title : String Public
    Multiplicity: ([0..1], Allow duplicates: 0, Is ordered: False)

Title of contribution

[Is static True. Containment is Not Specified.]

🔷 latitude : Real Public
    Multiplicity: ([0..1], Allow duplicates: 0, Is ordered: False)

Latitude of the point where the stated issue in the contribution is located (WGS 84). When the location is specified with a line or polygon, this field should be left blank.

[Is static True. Containment is Not Specified.]

🔷 longitude : Real Public
    Multiplicity: ([0..1], Allow duplicates: 0, Is ordered: False)

Longitude of the point where the stated issue in the contribution is located (WGS 84). When the location is specified with a line or polygon, this field should be left blank.

[Is static True. Containment is Not Specified.]

🔷 attachment : URL Public
    Multiplicity: ([0..*], Allow duplicates: 0, Is ordered: False)

URL to the attachments. For example photos and documents can be included as attachments.

[Is static True. Containment is Not Specified.]

ATTRIBUTES

◆ contributionType : ContributionTypes Public
   Multiplicity: ([0..1], Allow duplicates: 0, Is ordered: False)

List of the predefined types of contribution, e.g. suggestion, opinion, criticism

[Is static True. Containment is Not Specified.]

◆ contributionContent : String Public

Content of the contribution

[Is static True. Containment is Not Specified.]

◆ status : StatusValue Public
   Multiplicity: ([0..1], Allow duplicates: 0, Is ordered: False)

The current status of the contribution, if it was not yet worked on, categorized, in progress or already finished etc.

[Is static True. Containment is Not Specified.]

◆ keywordSuggested : String Public
   Multiplicity: ([0..*], Allow duplicates: 0, Is ordered: False)

A typical function of AI text analyze is the identification of keywords. Upon input, a AI-based system can suggest keywords for the author to choose from, the chosen keywords will then be assigned to the contribution and used for clustering

[Is static True. Containment is Not Specified.]

◆ keywordPicked : String Public
   Multiplicity: ([0..*], Allow duplicates: 0, Is ordered: False)

From the keywords that the AI system suggested, some are accepted and some rejected by the user. User might also suggest other values. The accepted and user generated keywords are stored here for further processing.

[Is static True. Containment is Not Specified.]

◆ category : StandardCategoriesList Public

Chosen by the contributor, this is a value from the list of standard categories defined by the project owner.

[Is static True. Containment is Not Specified.]

◆ subCategory : StandardSubcategoriesList Public
   Multiplicity: ([0..1], Allow duplicates: 0, Is ordered: False)

Chosen by the contributor from a list of standard subcategories defined by the product owner.

[Is static True. Containment is Not Specified.]

◆ votingPro : Integer Public
   Multiplicity: ([0..1], Allow duplicates: 0, Is ordered: False)

Citizens have the possibility to vote for or against a contribution. This feature is optional, the final results of the pro-voting will be stored here.

[Is static True. Containment is Not Specified.]

ATTRIBUTES

◆ votingContra : Integer Public
    Multiplicity: ([0..1], Allow duplicates: 0, Is ordered: False)

Citizens have the possibility to vote for or against a contribution. This feature is optional, the final results of the contra-voting will be stored here.

[Is static True. Containment is Not Specified.]

◆ commentsNumber : int Public

The total number of comments on a contribution

[Is static True. Containment is Not Specified.]

◆ sentiment : SentimentType Public
    Multiplicity: ([0..1], Allow duplicates: 0, Is ordered: False)

Here an example of a custom attribute: sentiment. Another typical function of AI text analysis is the identification of sentiment. The result can be represented in different ways. Whether classified into categories like positive, negative and neutral or represented on a certain scale, this can be further specified by the data analyst and project owner.

[Is static True. Containment is Not Specified.]

◆ customAttribute : CustomAttributeType Public
    Multiplicity: ([0..*], Allow duplicates: 0, Is ordered: False)

The participatory data may need more attributes than specified in this model. For this purpose the data model can be extended according to need.

[Is static True. Containment is Not Specified.]

ASSOCIATIONS

🖊 Association (direction: Source -> Destination)

Source: Public (Class) Contribution

Target: Public author (Class) Author
    Cardinality: [0..1]

Author who wrote the contribution or comment

🖊 Association (direction: Bi-Directional)

Source: Public commentedBy (Class) Comment
    Cardinality: [0..*]

Points to the comments made to the contribution

Target: Public commentOnContribution (Class) Contribution
    Cardinality: [0..1]

Contribution which the comment comments on or related to.

🖊 Association (direction: Bi-Directional)

Source: Public belongToProject (Class) ParticipatoryProject

The participatory project, to which the comments belong

Target: Public hasParticipatoryText (Class) Contribution

Contributions made in a participatory project

ContributionProcessed

Class in package 'Participatory Data Specification'

In some cases it may be deemed necessary to modify some of the contributions. In this case this changing process should be documented using this class. The modified contribution shall be stored in addition to the original one.

OUTGOING STRUCTURAL RELATIONSHIPS

⬅ Generalization from ContributionProcessed to Contribution

[Direction is 'Bi-Directional'.]

ATTRIBUTES

◆ dateEdited : LocalDateTime Public
   Multiplicity: ([0..1], Allow duplicates: 0, Is ordered: False)

Automatically generated date when contribution was edited

[Is static True. Containment is Not Specified.]

◆ revisesContribution : IdType Public

The ID of the original contribution which was revised.

[Is static True. Containment is Not Specified.]

◆ categoryNew : StandardCategoriesList Public
   Multiplicity: ([0..1], Allow duplicates: 0, Is ordered: False)

After processing, the responsible person for analyzing the data could decide to reassign the contribution to a new category, this will be recorded here.

[Is static True. Containment is Not Specified.]

◆ subcategoryNew : StandardSubcategoriesList Public
   Multiplicity: ([0..1], Allow duplicates: 0, Is ordered: False)

After processing, the responsible person for analyzing the data could decide to reassign the contribution to a new subcategory, this will be recorded here.

[Is static True. Containment is Not Specified.]

MainProject

Class in package 'Participatory Data Specification'

A main project is to be understood as the overall planning process. This could be redevelopment project, a comprehensive plan, a local planning or a regional plan, etc. The main project has a long time span with different, participatory and non-particpatory, phases, which could include various participatory projects.

ATTRIBUTES

◆ extent : Geometry Public
   Multiplicity: ([0..1], Allow duplicates: 0, Is ordered: False)

Geographical extent of the main project (whole planning project)

[Is static True. Containment is Not Specified.]

◆ id : IdType Public

An automatically generated identifier for the project

[Is static True. Containment is Not Specified.]

◆ nameShort : String Public
   Multiplicity: ([0..1], Allow duplicates: 0, Is ordered: False)

Short name or abbreviation of the project

[Is static True. Containment is Not Specified.]

◆ nameFull : String Public

The full, formal name of the project

[Is static True. Containment is Not Specified.]

◆ dateStart : LocalDateTime Public

Starting date of the project, compliant to the ISO 8601 (YYYY-MM-DDThh:mm:ssTZD)

ISO 8601, the International Standard for the representation of dates and times
https://www.w3.org/TR/NOTE-datetime

[Is static True. Containment is Not Specified.]

◆ dateEnd : LocalDateTime Public
   Multiplicity: ([0..1], Allow duplicates: 0, Is ordered: False)

Ending date of the project, compliant to the ISO 8601 (YYYY-MM-DDThh:mm:ssTZD)

[Is static True. Containment is Not Specified.]

◆ website : URL Public
   Multiplicity: ([0..1], Allow duplicates: 0, Is ordered: False)

URL to the web site of the project

[Is static True. Containment is Not Specified.]

◆ description : String Public
   Multiplicity: ([0..1], Allow duplicates: 0, Is ordered: False)

Description of the main project, e.g. project type, aim of the project, expected outcomes etc.

[Is static True. Containment is Not Specified.]

ATTRIBUTES

◆ mainResponsible : String Public
  Multiplicity: ([0..1], Allow duplicates: 0, Is ordered: False)

Name of the main responsible person, unit or organization for the main project

[Is static True. Containment is Not Specified.]

◆ country : CountryCodes Public

The country of the project represented as a ISO 3166 country code, e.g. GER

[Is static True. Containment is Not Specified.]

◆ region : LAU Public

Region of the project in accordance with the LAU code

[Is static True. Containment is Not Specified.]

◆ language : LanguageTag Public
  Multiplicity: ([0..1], Allow duplicates: 0, Is ordered: False)

The original language used in the project, represented as an IETF language tag, for explanation see also the definition of
LanguageTag

[Is static True. Containment is Not Specified.]

◆ type : ProjectTypes Public
  Multiplicity: ([0..1], Allow duplicates: 0, Is ordered: False)

type of the project (e.g. comprehensive plan, urban design, etc.) defined by the project owner

[Is static True. Containment is Not Specified.]

◆ customAttribute : CustomAttributeType Public
  Multiplicity: ([0..*], Allow duplicates: 0, Is ordered: False)

If necessary more custom attributes could be added to the class

[Is static True. Containment is Not Specified.]

ASSOCIATIONS

✎ Association (direction: Bi-Directional)

Source: Public participatoryProjects (Class) ParticipatoryProject   Target: Public mainProject (Class) MainProject
  Cardinality: [0..*]   Cardinality: [0..1]

Participatory projects related to a main project   Main project, which the participatory project
                                                          belongs to

Organization

Class in package 'Participatory Data Specification'

Organizations involved in a participatory project. It can be an institution which send representatives to a participatory project or a firm which submits a design concept for the participation.

ATTRIBUTES

◆ id : IdType Public

An automatically generated identifier of the organization

[Is static True. Containment is Not Specified.]

◆ name : String Public

Official name of the organization.

[Is static True. Containment is Not Specified.]

◆ address : String Public
Multiplicity: ([0..1], Allow duplicates: 0, Is ordered: False)

Postal address of the organization.

[Is static True. Containment is Not Specified.]

◆ postalCode : String Public
Multiplicity: ([0..1], Allow duplicates: 0, Is ordered: False)

Postal Code of the organization

[Is static True. Containment is Not Specified.]

◆ country : String Public
Multiplicity: ([0..1], Allow duplicates: 0, Is ordered: False)

The country of the organization.

[Is static True. Containment is Not Specified.]

◆ email : String Public
Multiplicity: ([0..1], Allow duplicates: 0, Is ordered: False)

Email address of the organization.

[Is static True. Containment is Not Specified.]

◆ telephone : String Public
Multiplicity: ([0..1], Allow duplicates: 0, Is ordered: False)

Telephone number of the organization.

[Is static True. Containment is Not Specified.]

◆ website : URL Public
Multiplicity: ([0..1], Allow duplicates: 0, Is ordered: False)

ATTRIBUTES

In case the author represents an agency or a company, the web site of this institution can be specified here

[Is static True. Containment is Not Specified.]

ParticipatoryProject

Class in package 'Participatory Data Specification'

A participatory project describes a certain participatory procedure itself, in which the different stakeholders are involved to write their contributions. For each main project there could be as many participatory projects as needed throughout its duration and within its geographical range. A participatory project usually covers the same area as the main project but doesn't have to. For each participatory project the collected data (contributions) would be stored in a database and can later be retrieved through an identifier.

ATTRIBUTES

◆ projectArea : Geometry Public
   Multiplicity: ([0..1], Allow duplicates: 0, Is ordered: False)

Area of the participatory project, this field is to be filled if the extent of the participatory project varies from that of the main project of if no main project is specified.

[Is static True. Containment is Not Specified.]

◆ id : IdType Public

An automatically generated identifier for the project

[Is static True. Containment is Not Specified.]

◆ nameShort : String Public
   Multiplicity: ([0..1], Allow duplicates: 0, Is ordered: False)

Short name or abbreviation of the project

[Is static True. Containment is Not Specified.]

◆ nameFull : String Public

The full, formal name of the project

[Is static True. Containment is Not Specified.]

◆ dateStart : LocalDateTime Public

Starting date of the project, compliant to the ISO 8601 (YYYY-MM-DDThh:mm:ssTZD)

ISO 8601, the International Standard for the representation of dates and times
https://www.w3.org/TR/NOTE-datetime

[Is static True. Containment is Not Specified.]

◆ dateEnd : LocalDateTime Public
   Multiplicity: ([0..1], Allow duplicates: 0, Is ordered: False)

ATTRIBUTES

Ending date of the project, compliant to the ISO 8601 (YYYY-MM-DDThh:mm:ssTZD)

[Is static True. Containment is Not Specified.]

◆ website : URL Public
   Multiplicity: ([0..1], Allow duplicates: 0, Is ordered: False)

URL to the web site of the project

[Is static True. Containment is Not Specified.]

◆ description : String Public

Description of the aims, content and target groups of the participatory project

[Is static True. Containment is Not Specified.]

◆ processingStep : ProcessingSteps Public
   Multiplicity: ([0..1], Allow duplicates: 0, Is ordered: False)

The current processing step of the main project in which the participatory project takes place. The steps can be predefined and the values may vary depending on the country, so they should be defined uniformly in a district/city/region/or even country

[Is static True. Containment is Not Specified.]

◆ areaSize : Real Public
   Multiplicity: ([0..1], Allow duplicates: 0, Is ordered: False)

Size of the participatory project area in km^2

[Is static True. Containment is Not Specified.]

◆ locationDescription : String Public
   Multiplicity: ([0..1], Allow duplicates: 0, Is ordered: False)

Qualitative description of the location, e.g. demographics, land use

[Is static True. Containment is Not Specified.]

◆ owner : Organization Public

Name of the person, unit or organization responsible for running the participatory project (project manager)

[Is static True. Containment is Not Specified.]

◆ publisher : Organization Public

Name of person, unit or organization responsible for providing and publishing the data

[Is static True. Containment is Not Specified.]

◆ standardCategories : StandardCategoriesList Public

Standard categories in a list defined by the project owner, e.g. mobility, housing, greenery etc. For each contribution, a value from this list would be chosen to classify it.

[Is static True. Containment is Not Specified.]

ATTRIBUTES

◆ standardSubcategories : StandardSubcategoriesList Public
   Multiplicity: ([0..1], Allow duplicates: 0, Is ordered: False)

Standard subcategories for a participatory project defined by the project owner. For example the category mobility can have the subcategories pedestrian traffic, vehicle traffic, bicycle traffic etc.

[Is static True. Containment is Not Specified.]

◆ referenceSystem : EPSGCode Public

The EPSG code of the original geographical data

[Is static True. Containment is Not Specified.]

◆ projectContributionType : ContributionTypes Public
   Multiplicity: ([0..1], Allow duplicates: 0, Is ordered: False)

A list of allowed values for the types of contribution in the project. This should be provided by the person or organisation responsible for the participatory project.

[Is static True. Containment is Not Specified.]

◆ customAttribute : CustomAttributeType Public
   Multiplicity: ([0..*], Allow duplicates: 0, Is ordered: False)

If necessary more custom attributes could be added to the class

[Is static True. Containment is Not Specified.]

ASSOCIATIONS

✏ Association (direction: Bi-Directional)

Source: Public participatoryProjects (Class) ParticipatoryProject
   Cardinality: [0..*]

Participatory projects related to a main project

Target: Public mainProject (Class) MainProject
   Cardinality: [0..1]

Main project, which the participatory project belongs to

✏ Association (direction: Source -> Destination)

Source: Public (Class) ParticipatoryProject

Target: Public hasAttachment (Class) Attachment
   Cardinality: [0..*]

Attached files to a project

✏ Association (direction: Bi-Directional)

Source: Public belongToProject (Class) ParticipatoryProject

The participatory project, to which the comments belong

Target: Public hasParticipatoryText (Class) Contribution

Contributions made in a participatory project

PersonalData

Class in package 'Participatory Data Specification'

Personal data, which will only be collected if needed and the collection and usage agreed, for example when the citizen would like to get reply for their contribution/suggestions; these data won't be published.

ATTRIBUTES

◆ age : int Public
   Multiplicity: ([0..1], Allow duplicates: 0, Is ordered: False)

Age of the author

[Is static True. Containment is Not Specified.]

◆ ageCategory : AgeCategories Public
   Multiplicity: ([0..1], Allow duplicates: 0, Is ordered: False)

Age category of the author, or use the precise age

[Is static True. Containment is Not Specified.]

◆ gender : Genders Public
   Multiplicity: ([0..1], Allow duplicates: 0, Is ordered: False)

gender of the author

[Is static True. Containment is Not Specified.]

◆ postalCode : String Public
   Multiplicity: ([0..1], Allow duplicates: 0, Is ordered: False)

postal code of the author

[Is static True. Containment is Not Specified.]

◆ country : String Public
   Multiplicity: ([0..1], Allow duplicates: 0, Is ordered: False)

Country where the author is from

[Is static True. Containment is Not Specified.]

◆ name : String Public
   Multiplicity: ([0..1], Allow duplicates: 0, Is ordered: False)

Full name of the author

[Is static True. Containment is Not Specified.]

◆ address : String Public
   Multiplicity: ([0..1], Allow duplicates: 0, Is ordered: False)

Postal address of the author

ATTRIBUTES
[Is static True. Containment is Not Specified.]

◆ email : String Public
Multiplicity: ([0..1], Allow duplicates: 0, Is ordered: False)

E-Mail address of the author

[Is static True. Containment is Not Specified.]

◆ telephone : String Public
Multiplicity: ([0..1], Allow duplicates: 0, Is ordered: False)

Phone number of the author

[Is static True. Containment is Not Specified.]

◆ institution : Organization Public
Multiplicity: ([0..1], Allow duplicates: 0, Is ordered: False)

in case the author represents an agency or a company, the name of this institution should be filled in

[Is static True. Containment is Not Specified.]

ASSOCIATIONS

✎ Association (direction: Destination -> Source)

Source: Public belongTo (Class) Author   Target: Public (Class) PersonalData
    Cardinality: [1]

Owner of the personal data

StandardCategoriesList

Enumeration «enumeration» in package 'Participatory Data Specification'

An empty extensible list for the categorization of contributions. This list shall be provided by the project owner.

StandardSubcategoriesList

Enumeration «enumeration» in package 'Participatory Data Specification'

An empty extensible list for the subcategories of contributions. This list shall be provided by the project owner.

AgeCategories

Enumeration in package 'Participatory Data Specification'

A list of the age categories. This list should be defined by the responsible according to the local custom.

CategoryValue

DataType in package 'Participatory Data Specification'

ContributionTypes

Enumeration in package 'Participatory Data Specification'

The data type is to be used to define types of contributions. The list can and should be modified by the responsible person at the project level. Possible values include suggestion, criticism, opinion etc.

ATTRIBUTES
◆ Suggestion :   Public   [Stereotype is «enum». Is static True. Containment is Not Specified.]
◆ Criticism :   Public   [Stereotype is «enum». Is static True. Containment is Not Specified.]
◆ Opinion :   Public   [Stereotype is «enum». Is static True. Containment is Not Specified.]

CountryCodes

DataType in package 'Participatory Data Specification'

The ISO country codes are described in the ISO 3166 international standard.
These codes are used throughout the IT industry by computer systems and software to ease the identification of country names. For a full list of the codes see:
https://www.iso.org/obp/ui/#search

CustomAttributeType

DataType in package 'Participatory Data Specification'

Custom defined attribute type

EPSGCode

DataType in package 'Participatory Data Specification'

Genders

Enumeration in package 'Participatory Data Specification'

ATTRIBUTES
◆ Male :   Public
[Stereotype is «enum». Is static True. Containment is Not Specified.]
◆ Female :   Public
[Stereotype is «enum». Is static True. Containment is Not Specified.]
◆ Other :   Public
[Stereotype is «enum». Is static True. Containment is Not Specified.]

Geometry

DataType in package 'Participatory Data Specification'

Data type for the geometry, this can be a point, a line or a polygon

IdType

DataType in package 'Participatory Data Specification'

A UUID or an unique identifier.
A universally unique identifier (UUID) is a 128-bit number used to identify information in computer systems.

It's displayed in 5 groups separated by hyphens, in the form 8-4-4-4-12 for a total of 36 characters (32 alphanumeric characters and 4 hyphens). For example:
123e4567-e89b-12d3-a456-426655440000

KeywordValue

DataType in package 'Participatory Data Specification'

LanguageTag

DataType in package 'Participatory Data Specification'

An IETF language tag indicating the language that will be used throughout the rest of the files. This is a string that defines a single language tag only. The tag structure has been standardized by the Internet Engineering Task Force (IETF) in Best Current Practice (BCP) 47; the subtags are maintained by the IANA Language Subtag Registry.IETF language tags are used by computing standards such as HTTP, HTML,XML,and PNG.
For example, the tag *en* stands for English; *es-419* for Latin American Spanish; *rm-sursilv* for Sursilvan

See also https://tools.ietf.org/html/bcp47 and https://en.wikipedia.org/wiki/IETF_language_tag for details about the format of this tag

LAU

DataType in package 'Participatory Data Specification'

To meet the demand for statistics at a local level, Eurostat maintains a system of Local Administrative Units (LAUs). These LAUs comprise the municipalities and communes of the European Union.

For a updated list see:
https://ec.europa.eu/eurostat/web/nuts/local-administrative-units

LocalDateTime

DataType in package 'Participatory Data Specification'

Defines a local date time value for ... in a format that is ISO 8601 compliant. The value is a string of the form: YYYY-MM-DDThh:mm:ss

Where:
- YYYY represents the year digits, such as 2019
- MM represents the month digits, such as 11
- DD represents the date digits, such as 15
- hh represents the hour digits in 24 hour format, such as 14
- mm is optional and represents the minutes from 00 to 59
- ss is optional and represents the seconds from 00 to 59

Using the above example values, the local date time string would be written as: 2019-11-15T14:00:00. This corresponds to 2PM on November 15, 2019. The location for this time, or time zone, needs to separately defined to facilitate time conversions across different regions

MimeTypes

DataType in package 'Participatory Data Specification'

ProcessingSteps

Enumeration «enumeration» in package 'Participatory Data Specification'

The Processing step should be defined by the responsible according to the local law or practice

ProjectTypes

Enumeration in package 'Participatory Data Specification'

A predefined list of the project types/plan types (e.g. comprehensive plan, urban design, etc.) This should be defined by the project owner according to the local practice

SentimentType

DataType in package 'Participatory Data Specification'

StatusValue

Enumeration in package 'Participatory Data Specification'

Different status of the contribution, this can be expanded accordingly

ATTRIBUTES
◆ New :   Public [Is static True. Containment is Not Specified.]
◆ InProgress :   Public [Is static True. Containment is Not Specified.]
◆ Finished :   Public [Is static True. Containment is Not Specified.]
◆ Categorized :   Public [Is static True. Containment is Not Specified.]

URL

DataType in package 'Participatory Data Specification'