Final version after processing the resu	Its of discussion	in the working group			Colour Legend						
This will become a collection of all tab	les; after reviewi	ng per item			Row colours		mandatory/recommended/optional column				
Review the sheet Sunflower_Sample_ Please leave comments including you					Confirmed elements Newly added elements - for		mandatory and mandatory if applicable				
If done with review (even if no remarks	s/comments) add	d your name below under Review	wers of this versio	n	review	ments - ioi	recommended				
Note: The HealthDCAT-AP column will be	·						optional				
class (new class name for Submitter) sinc of a dataset. For other classes we only pro specific concept can be harvested/used to	e that class is all a ovide an entry in th	about metadata during submission nis column if information of that									
							conditional				
Note on mandatory fields with lists (but no	t strings): also HL	7 NULL flavors will be allowed									
Version history; Items added per ve	rsion										
Items	Date version re	lease									
Submitter, Sample	2024-09-04										
Custimus, Cumple	2021 00 01										
Decision(s):	Date decision	Motivation/Information:									
Submitter should not be part of the minimal dataset. Submitter is part of metadata. Within UML-diagram this will be explicitely visualised	2024-09-18	Submitter of a dataset within GDI should not be part of the minimal dataset per se, it is the metadata provided to make clear who submits a dataset within GDI.									
The class "Submitter" was renamed to "Metadata Submission" to make it clearer it is a class concerning metadata.	2024-10-02	The name of the class Submitter was confusing and wasn't properly representing the class.									
New class "Identification" was added. The class contains Identifier, Identifier Type and Name properties.	2024-10-02	Multiple elements about identifiers got feedback that only providing the ID is not sufficient. New class "Identification" was added, where other items can point to.									
Authors of latest version:											
Name	Date version re	lease									
Ana Konrad	2025-01-30										
Hannah Neikes	2025-01-30										
Jeroen Belien	2025-01-30										
Joeri van der Velde	2025-01-30										
Abhishek Nayak	2025-01-30										

Aedin Culhane	2025-01-30				
Reviewers of latest version					
Name	Date				
Mikael Kronborg	2025-02-10				
Richard Hagan	2025-02-10				
Evita Lindholm	2025-02-10				
Hannele Laivuori	2025-02-11				
Milan Ojsteršek	2025-02-11				
Michela Riba	2025-02-11				
Edel Cahalin	2025-02-10				

Suggested_Union_Domain/class/table	Suggested Union Item	Suggested_Union_Proposed_Definition	Suggested_Union_Proposed_Values	Suggested_Union_Proposed_ cardinality	Suggested_union_mandator /recommended/optional	f onditional, terms of condition stated here	Part of sunflower	Link to terminology/ontology that defines item	tink to terminology/ontology that defines value(s)/value(sts(s)	Reasoning/explanation/evi dence of/for suggestion	Concept: Exact match with	Concept: close match with	Value list: Exact match with	Value list: Close match with	Example data	Link to terminology/ ontology that defines the class	sact Class: close with match with
Sample	Anatomical sample location	Anatomic site from which the sample was taken.	SCI-11 Austrony and Incorporaby	11	conditional	In use case cancer, the exact sample location is interest, therefore the more detailed value lat of 100-00 can be used (which is included in 100-11).	Core	hites find an ab portpoliton uses Fences (flaced distribution). The second according to the control of the cont	CCC-11 for Markethy and Marketing Statistics			Goodfree		SNC4ETD Anatomical shucture		https://brishes. crabettilopy/si (20to-http: thems.actionstern ch. prohimmanne/si (2, 0)1660	bitos (bisocratic bisocraticos) cas infectiones Casa infe
Sample	Pathological state	The pathological condition of the sample.	Taxon Normal Comment Section of Comment Section of Taxon Medicates Section - Lanced Comment - Lanced	11	conditional	In concer use case, the pulhological state of the sample must be recorded; several instructor of the sample must be recorded; several instructor of the sample must be supported by the sample of the sample	Core	MCIT Tenne Sevele	Timme Morrow Generalize Morrow Generalize Morrow Timmer Montanini Binarrowi Limite Clarification Limited Limited								
Sample	Date	Defines the date of sampling	Date, ISO 8601 format, YYYY-MM-DD	0.1	recommended		Core	https://bioportal.bioontology.org/ontologies/NCIT/7 perclasses/Aconospidehttp/s/A/N2T-N2T-ncich.nci. ph.gov/s/25am/N2Eos/N2EC-NSN/25T-hessures.	https://www.iso.org/iso-5501-date-and-time-format.								
Sample	ю	Unique identifier for a collected specimen assigned by data provider.	String	0.1	recommended		Core	gN/5/20025164&ump_to_novelnue	bird NA								
Sample	Organism	Alloing antity	List of shiftings/children of https://biococcid.html Short biology constructions (N-TT) The Construction of t	1.1	mandatory	If Organism is for exception "Visua" but Beospeciment, "Type in each of the controlling like "Years"	Cone	bites find and non-projections are Concertificated to the concertifi	List of children labilings of trimes (horsontal listensity) and the children labilings of trimes (horsontal listensity). The children lability of								
Sample	Biospecimen_Type	Interpret of a material sample states from a biological entity for festing, diagnostic, propagation, treatment or research purposes. This includes particular types of cellular molecules, cells, tissues, organs, body fluids, embryos, and body exceptory substances.	SPREC codes	5.1	conditional	For Cancer use case, this field is mandatory, otherwise optional.	Core / Cancer	http://purl.obe/brary.org/obe/NCIT_C20713	https://doi.umaws.com/ever/laber, grg/resource/remor/laber_2019/bdf/standard_oneso abrical_code_pdf						8458T5 (where 84 = blood tube with EDTA, 58 = centrifugation at 2000g for 10 minutes. T5 = storage at -60°C).		
Sample Sample	Extraction_Technique Storage_Conditions	The technique of extraction of the sample Storage conditions of the sample.	Values within MESH Societies Handling https://github.com/talgenomes/falgenomes_ semantic_ model/biok/main/societies/Societies/societies/	0.1 0.n	recommended recommended		Core		Values within MESH Specimen Handling https://pithub.com/fairpenomes/fairpenomes- serrantic, model/biobins/airpenomes/fairpenomes/ model/biobins/airpenomes/fairpenomes/								
	Annual Malay			0.1	recommended		Core		Other all Tools			https://biocontal.biocontology_ protentialogies.NCIT/7 processes@conceptid=http%34%,25%, 25 noich noi.nli.go/%25 xm1%25 gal % 25 NOICE has no noice 2017 508					
Sample Sample	Assayed_Biological_Macromolecule Sampling_Intent	Macromolecule derived from the sample. Describes the purpose for taking the sample.	Children of <u>biological measureolecule</u> String	0.1 0.n	recommended		Core	https://lock.nci.nth.go./hc/throuses/Conced/Report. im?dc/concy=NCI - These read-version=24, 05dkns=cctdcode=C25725dkny=645878955bb=18	Children of CEC biological macromolecule NA			22 Land Hessenson 2078			The sample was taken for germline testing.		
There can be multiple related samples with the same type of relation (multiple sample Etc.). Thus, cardinally for relation type is 1. For different relation types, relatedate the Sample Relation states and ple trees.				Sample relation class is not ma	ndatoy, but sample ID is mand	atory inside this class.		ÇEAG									
Sample_Tableton	Robbed, Sarph	Points to a nidebul sample.	Sangka ID	t.n	mandatory	Finding to other semple is provided, the face describes the point indication between the face exemples (for exchange) and subsequently of the exemples (for exchange) and subsequently off larger exemples).	Cone		м								tem channels. The ch
Sample_Relation	Relation_Type	Describes the relationship type between the two connected exemple.	List to be defined included. New sample Detected Control (opportunity) Control (opportunity) Control (opportunity) Control (opportunity) Control (opportunity) Control (opportunity) Familia Spatial	5.4	mandatory	If initiation to other arrapid in provided, this laws describes that type of initiationally between the law samples (for exemption motivated healthy and demonstrated).	Core		Polectial value set, either if it fulls demandahrende um it, or make a substitution of the common of the unit of the common of t	In Cancer use case: if normal and famor samples are present, corresponding to the same adjacent to harm fisses, should be matched by the sample date, but also by a direct match.					Maked from the control was a street by the control of a control order ord		
Sample_Relation	Relation_Description	Free text describing the Relation Type of two samples.	String	0.1	recommended		Core		NA.	Suggested by Alfonso: Regarding the samples, given that in many cases more than one sample is collected if will be key to indicate the relation with other samples of the same donor (e.g., different tumors) or from different donors (in family for RDIs)							
TNIM	Turnor_nizo	Indicates the size of the primary tumor.	Couble	0.1	optional		Canor	https://biocodal.biochibosy.en-bertisosen-by-TIT/ performal-brane-politicosyste-brane-by-TIT/ performal-brane-politicosyste-brane-by-TIT/ performal-politicosyste-brane-by-TIT/ performal-politicosyste-brane-by-TIT/ performal-politicosyste-brane-by-TIT/ performal-politicosyste-brane-by-TIT/ performal-brane-by-TIT/ perf	. NA.							https://biocots/ biocots/pices/ pices/pices/ NGIZ pecksassalcon pattichitchi MGZZ pecksassalcon pattichi MGZ pecksassalcon pattichi MGZ pecksassalcon pattichi MGZ pecksassalcon pattichi MGZ pecksassa pecksassa pecksassa pecksassa pecksassa pe	
TNM	Tumor_size_unit	Indicates the unit in which tumor size is stated.	UCUM	0.1	optional		Cancer	https://build.frir.com/g/His.7/frir-mCCDE-ig/ValueSet mcode-tumor-alize-units-vs.html	blom/scom ong!	William of this field on							
TNM	Lymph_Node_Status	Indicates lymph node involvement according to the international TMM classification for solid tumors	Children of 1279504008 (American Joint Committee, on Cancer yell category allowable value (qualifier, value) Children of American Joint Committee on Cancer.	0.1	optional		Cancer	258283002 (Lymphomatous nodel involvement, flumor ateging)(1279504008 (American Joint Committee on Cancer yol) category allowable value (qualifier value) Children of American Joint Committee on Cancer	definitions from AJDC, but via SNOMED to make it machine- readable.							
TNM	Metastases	Indicates presence or absence of metastasis according to the international TNM classification for solid tumors	chical M category allowable value (qualifier value), or American Joint Committee on Cancer cathological M category allowable value (qualifier value) and HLT NULL flavor in case not determined	0.1	optional		Cancer		Children of American Joint Committee on Cancer- cininal M category altreatile value (qualifier value) or American Joint Committee on Cancer pathological M category altreatile value (qualifier value) and NLT NULL flavor in case not determined	Values of this field use definitions from AJDC, but via SNOMED to make it machine-readable.							
TNM	Version Stage	Version of the TNM classification The extent of a cancer in the body. Staging is usually based on the size of the tumor, whereby they be contain cancer, and whether the cancer that agreed from the original size to other parts of the body.	Selecy Challen of American Joint Challen of American Joint Conference of control states, games discoulter value incentive value) Execution Joint Commentum on Camper nathological, librar cancel showthen are Laureller value) Facilities and Allender and Laureller value American Joint Commentum on Camper nathological, librar cancel laureller value Josephin value (mortiler value) UCC values for the another location of the property of the pro	Q.1	optional optional		Cancer		Children of American Just Committee on Canner children for groun Securities value insulation value American Just Committee on Canner substitute American Just Committee on Canner substitute Justa 2000 all absolute value (Laufille substitute American Just Committee on Canner on steen ground American Just Committee on Canner on steen ground American Just Committee on Canner on steen ground Canner on Canner on Securities UCCC values (to be added to SNOMED in 2005)								
TNM	Pathology_Clinical	Indication whether TNM classification is based on clinical or pathological evaluation. If pathological is available, this always goes before clinical.	UICC values (to be added to SNOMED in 2025) Clinical or pathological	1.1	mandatory		Canor		UICC values (to be added to SNOMED in 2025)								
TNM	Date of evaluation	available, this always goes before clinical. Date of the clinical/pathological evaluation.	Date, ISO 8601 format, YYYY-MM-DD	0.1	optional		Cancer		https://www.isn.org/so-8001-date-and-time-format. html								