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1. Executive Summary

In this report the initial Data Management Plan (DMP) for the U_CODE project is presented. The report outlines how research data will be handled during and after the project duration. It describes what data will be collected, processed or generated with which methodologies and standards, whether and how this data will be shared or made open, and how it will be curated and preserved.

The Data Management Plan (DMP) describes the data management life cycle for all data sets. The purpose of the DMP is to provide an analysis of the main elements of the data management policy that will be used in U_CODE with regard to all data sets that will be generated by the project. The data collected and generated by the different U_CODE partners will have multiple formats. In general four different types are generated and processed 1.) text based data, 2.) visual based data sets, 3.) models, and 4.) software / source code data sets.

The Data Management Plan provides information on the following points:

- Data set description
- Data set reference and name
- Data sharing
- Standards and metadata
- Archiving and preservation (including storage and backup)

The DMP gives a first overview on the diversity, scale and amount of data which will be handled during the U_CODE project. While the project is ongoing, conjectPM is used as the collaboration platform for the management of U_CODE data.

The DMP is not a fixed document, but evolves during the lifespan of the project.

2. Applied Methodology

The methodology applied for drafting this initial DMP of U_CODE is based on guidelines of the European Commission¹. According to these guidelines all U_CODE partners were asked to list and describe their datasets. The compiled list is presented in attachment 1² at the end of this document. The tables give details about the datasets generated in the project. These various datasets are stored at conjectPM for (internal) use during the project duration. Which data sets will be stored for open access will be decided later in the project.

This list addresses the main points on a dataset by dataset basis and reflects the current status of discussion and reflection within the consortium about the data that is going to be produced within the U_CODE project. This list will evolve and develop over the lifetime of the project and will be kept up to date on the U_CODE collaborative platform conjectPM.

¹<u>https://ec.europa.eu/research/participants/data/ref/h2020/grants_manual/hi/oa_pilot/h2020-hi-oa-data-mgt_en.pdf</u>

² Not intended for print on A4 paper.





2.1 Data set description

The data collected and generated by the different U_CODE partners will have multiple formats and vary in size from a few MB's to several GB's. The formats range from interview transcripts, survey results, protocols, pictures, visual recordings up to software prototypes, and test data. So far four types of general data sets are identified:

- text based data: interviews, surveys (scientific), publications, reports,
- visual data: logfiles graphs, visual protocols, pictures, UML diagrams
- models: models, digital models, conceptual framework
- software data: prototype, software prototypes, test data, source code

The Initial DMP template asked the U_CODE partners to describe their different data sets according to the following items:

DATA SET – name; DATA SET - nature of data; Lead; WP; Task/ Deliverable, time in which data is generated/collected, type of data, data format, publication date, source of data, how is the data generated/collected, how is the data processed; restriction on using the data; standards; metadata; data sharing; preservation and backup; duration of preservation (short-term, long-term, ...), related dataset; underpins scientific publication; License



how is the data generated/collected	Restriction on using the data, suggestions by now		standards	metadata	data sharing
	open zens open to quellind researcher, confidentia' only for U, COM members	ag, athar research groups, seens of		what metadata will be created.	Characterized the data will be band of humanity are approximately employed and a second of any data will be band of humanity and a provide the bandwide paper or an another to prove the provide the transmission of the second will be approximately the provide the transmission of the paper of the second will be approximately and the transmission of the second will be approximately and any second second second second second second second the second se









Due to the fact that data collection and creation is an ongoing process, questions such as the detailed description of data nature, exact scale, to whom those data may be useful or if these data underpin a scientific publication will be answered in the updated versions of the DMP. Moreover the question on the existence or non-existence of similar data and the possibilities for integration and reuse are not finally agreed between the U_CODE partners and will be reported later.

2.2 Data set reference and names

A first collection of datasets has been compiled in Attachment 1 at the end of this document. A comprehensive pattern for naming the produced datasets of the project to be published open access is going to be developed. As an example one approach could be the following:

UCODE_Data_"WPNo."."DatasetNo."_"DatasetTitle"UCODE_Data_WP1.1_UserGenerate dContent). This depends also on the long term data sharing platform to be chosen.

conjectPM is used to organize, manage and monitor the collected and generated data sets of the U_CODE project. Due to the structure of the collaboration platform conjectPM (for a detailed explanation see Section 2.4) a unified name structure is not necessary to handle the various data sets during the project duration.

2.3 Data sharing

ConjectPM is used to share and manage the collected and generated data sets within the U_CODE project. It provides a well-organized structure to make it easy for research teams to find, better understand and reuse the various data by creating a consistent and well structured research data pool (see also 2.4).

Open access policy: By default all of the created data in U_CODE shall be made available open access. Reasons for not making the data open will derive from

- **legal properties** (e.g. missing copyrights, participant confidentiality, consent agreements, or intellectual property rights)
- scientific and/or business reasons (e.g. pending publications, exploitation aspects)
- technical issues (e.g. incomplete data sets).

The collected and generated data can be classified into two categories 1) **short term** intermediate **data** (stored at conjectPM), and 2.) **long term data** (stored in repositories, such as ZENODO or OpARA). The long term data have different levels of open accessibility:

- data with restricted access to the U_CODE partner creating this data set;
- data with restricted access to U_CODE project partners;
- data that is to be published and shared as open source to researchers only;
- data that is to be published and shared as open source to everyone.

The decisions on data publication and the level of accessibility will be taken per dataset and by the responsible U_CODE partner who created the dataset. This will be documented





in this (or future) versions of the data management plan. The updated version of the DMP shall detail the information on data sharing, including access procedures, embargo periods, and outlines of technical mechanisms for dissemination for open accessible data sets.

Strategies to limit restrictions may include: anonymising or aggregating data. Questions to be considered when further developing the open access policy in U_CODE are:

- How do we make the date available to others?
- With whom are we sharing the data, and under what conditions?
- What kind of restrictions are needed and why?
- What actions are we planning to minimise these restrictions?

2.4 Standards and metadata

The U_CODE project will create diverse data to detail project content and moreover create data needed to enable other researchers to use and regenerate output data in a systematic way. The documentation can take the form of publications, manuals and README files on how to use the software, in addition to scripts for running the software.

To enable a consistent description of all datasets provided by the project, a template table is used to describe metadata of each dataset including title, author, description, formats, etc. (see attachment 1). U_CODE partners collect and create data sets on their own or by co-creating these data sets together. Due to the diversity of the project partners involved there were no community data standards identified yet.

The collaboration platform – conjectPM – used for the management of U_CODE enforces the categorization of any document uploaded in order to impose a common structure in the metadata of the document repository. On project initialization, participants agreed on the following mandatory categories to be assigned to a document: Company, Document Type, Topic and Work Package. The values assignable to the respective categories are shown in the following screens.





ttps://ng.conject.com/ng/faces/	oms/multiupload/multiuploadDocuments.jsp?multiUp	load=false&versionExistingDoc=false	
pload document			
Select File:		Durchsuchen	
Name: -	1		
Create file as:	Upload multiple files		
Description:	New version New draft		
Valid until:			
Mandatory categories			
Company:			Add
Document type: -			Add
Topic: •			Add
Work Package*: -			Add
⊙ General settings			
Security			
Message			
No participant will be notified abor	ut this document.		

Fig. 2: Upload Dialog with mandatory categories

Upload document - Internet Explor https://ng.conject.com/ng/faces/	er ms/multiupload/multiuploadDocuments.jsp?multiUpload=false&versionEx
Upload document	
Select File: Name: *	Durchsuchen
Create file as: Description: Valid until: Mandatory categories Company: * Document type: * Topic: * Work Package*; *	
⊙ General settings	OPT - Optis Ltd. SiSAX - Silicon Saxony Management GmbH STRAB - Strabag
Security ☐ Message	TUDE - TU Delft TUDr DL - TU Dresden Center for Digital Linguistics TUDr KA - Knowledge Architecture
No participant will be notified abou	_

Fig. 3: Upload dialog with company category selections





Upload document - Internet Explorer	
Upload document	ultiuploadDocuments.jsp?multiUpload=false&versionExistingD
Select File:	Durchsuchen
Name:*	
Upload multiple files	
Create file as: New version	DEVB - Development brief
	DEVS - Development strategy
Description:	DLI - Deliverable
Valid until:	EML - E-Mail
	GUID - Guidelines, Instructions
Mandatory categories	LET - Letter
Company: * CONJ - Conject Gmb	
Document type: *	MDOC - Meeting document
	MS - Milestone
Topic: *	MSD - Milestone Draft
Work Package*: *	PHO - Photo
_	
	PRO - Proposal PROR - Project report
	REP - Report
	SAM - Samples
	SBL - Sprint Backlog
Message	SCH - Schedule
No participant will be notified about this document.	SCW - Scope of works
No paracipant will be notified about this document.	SPEC - Specification
	SRV - Sprint Review
	SYS - System document
	TECR - Technical Requirements
	TECS - Technical Specifications
	TDI Tomoloto
	[Cancel] OK

Fig. 4: Upload dialog with document type category selection

https://ng.conject.com/ng/faces/oms/multiupload/multiu	ipioadbocuments.jsp:multiopioad=taise&version
Jpload document	
Select File:	Durchsuchen
Name: *	
Upload multiple files	
Create file as: New version Ne 	∧ draft
Description:	
Valid until:	۲
Mandatory categories	AD - Archive document
Company: * CONJ - Conject GmbH;	CH - Commissioning and Handover
Document type: * DLI - Deliverable;	COMM - Communications Management
Topic:*	CQM - Construction and Quality Management
Work Package*: *	HSM - Health and Safety Management
	Administration
⊙ General settings	PCD - Post Construction Documents PCSM - Project Control and Schedule
⊙ Security	Management
	PROR - Project Organization REGA - Regulatory Approvals
Message	TDM - Technical and Design Management
No participant will be notified about this document.	TM - Tender Management
	[Cancel] OK

Fig. 5: Upload dialog with Topic category selections





遵 Upload document - Internet Explore	er		
p∃ https://ng.conject.com/ng/faces/c	oms/multiupload/multiuplo	adDocuments.jsp?multiUplo	ad=false&versionExis
Upload document			
Select File: Name:*			Durchsuchen
Create file as: Description: Valid until:	Upload multiple files New version New dr	aft	
Document type: *	CONJ - Conject GmbH; DLI - Deliverable; AD - Archive document; PCS	no WP assigned WP 1 WP 2 WP 3 WP 4	Q X
⊙ General settings ⊙ Security		✓ WP 5 WP 6 WP 7 WP 8	
Message No participant will be notified about	this document.		
		[Cancel]	ок

Fig. 6: Upload dialog with Work Package category selections

	rer		(\$\$) [c	0 🗕
https://ng.conject.com/ng/faces	/oms/multiupload/multiuploadDocuments.jsp?	multiUpload=false&versionExistingDoc=false		
Select File:		Durchsuchen		
Name: -	•			
	Upload multiple files			
Create file as:	New version New draft			
Description:				
Valid until:	(F)			
Mandatory categories				
	CONJ - Conject GmbH;		Add	
Document type:	DLI - Deliverable;		Add	
Topic:	AD - Archive document; PCSM - Project Control a	ind Schedule Management;	Add	
Work Package*:	WP 5:		Add	
Security Message				
🗌 message				
No participant will be notified abo	ut this document.			
No participant will be notified abo	ut this document.			
No participant will be notified abo	ut this document.			
No participant will be notified abo	ut mis document.			
No participant will be notified abo	ut mis document.			
No participant will be notified abo	of this accument.			
No participant will be notified abo	of this document.			
No participant will be notified abo	of the occument.		(Guard) 1 2 11	
No participant will be notified abo	of the document.		[Cancel] 📇 U	pload

Fig. 7: Upload dialog with selected category choices (example)

Document retrieval can then be conducted on the basis of categories, as shown in the Advanced Search dialog.





Folder	Views	Search	
Simple	Advanced	1	
Occur	nents		
O Folder	s		
Name: Extension: Description Ser O Curren	ent search n: arch at files only s (drafts and s (only versi		
More optid Owner / cr Created or Path: Keywords: Categorie	eated by:	II II II	
Company:	onject Gmb	ц	
Deliverable	-		~
WP 5: D 5			~
Document DLI - Deliv			~
Topic:			
- any -			~
Work Pack	age*:		~

Fig. 8: search options (example)

Category settings can be adapted during the project if necessary. However, the addition or removal of categories is not downward compatible (additions) and might render existing documents invisible via category search. Hence the removal of existing categories is not advisable. However, adding more choices to any existing category is entirely non-critical. Besides project-specific categories the default categories Owner/created by, Creation date, Path in the document tree and Keywords are always in place. Keyword search is made available by full-text scanning of the entire document on document upload.

2.5 Archiving and preservation

2.5.1 Storage, backup, replication and versioning in U_CODE

Intermediate data generated by the U_CODE partners will be stored in the U_CODE collaborative platform conjectPM. This repository can be easily accessed by all partners. It includes all the publications, raw data, reviews, all Deliverables and the management of the U_CODE project.

Data Security at conject Data Centres

The conjectPM systems are located in two self-sufficient and geographically separated facilities. During normal operation the system load is balanced across the two locations. In





the unlikely event that either one of the data centres becomes unavailable the remaining one can take over full operation and guarantee the availability of all customer data. The conjectPM file system consists of an array of independent storage units. It maintains at least three copies of each file spread across the two locations. Failures of storage units are automatically detected and handled by recreating the data on other storage units. Storage units can be added or replaced while the system stays fully operable, ensuring that sufficient capacity is always available when required.

Core system components are secured against failure by duplication of power supplies, CPUs, storage devices and network connections. All hardware components have secondary devices in place for failover contingency. Due to the high levels of resiliency in place conjectPM guarantees a 99.5% availability SLA to all of their clients around the globe.

The U_CODE project on the conjectPM platform has been configured to match the overall U_CODE work package structure. Access rights to documents have been set according to the work package leader. A general section in the project folder structure is set up for administrative purposes and information exchange between U_CODE partners.

2.5.2 Long term data sharing platform

Selected data from the conjectPM repository will be shared publicly during or after the life time of the project. All long term data collected or generated will be deposited in a repository. If required, the entire information content of the U_CODE project can be stored on disk for archiving. This functionality can also be used to transfer U_CODE content to another system. The final repository has not been chosen yet. The choice of repository will depend on:

- location of repository
- research domain
- costs
- open access options
- prospect of long-term preservation.

ZENODO repository:

One of the repositories considered is ZENODO <u>https://zenodo.org/</u>. This is online, free of charge storage created through the European Commission's OpenAIREplus project and is hosted at CERN, Switzerland. It encourages open access deposition of any data format, but also allows deposits of content under restricted or embargoed access. Contents deposited under restricted access are protected against unauthorized access at all levels. Access to metadata and data files is provided over standard protocols such as HTTP and OAI-PMH.

Data files are kept in multiple replicas in a distributed file system, which is backed up to tape every night. Data files are replicated in the online system of ZENODO. Data files have versions attached to them, whilst records are not versioned. Derivatives of data files are





generated, but the original content is never modified. Records can be retracted from public view; however, the data files and records are preserved. The uploaded data is archived as a Submission Information Package in ZENODO. Files stored in ZENODO will have MD5 checksum of the file content, and it will be checked against their checksum to assure that a file content remains correct. Items in the ZENODO will be retained for the lifetime of the repository which is also the lifetime of the host laboratory CERN which currently has an experimental programme defined for the next 20 years. Each dataset can be referenced at least by a unique persistent identifier (DOI), in addition to other forms of identifications provided by ZENODO.

OpARA repository

Another option is provided by the Technische Universität Dresden, which is currently setting up an institutional, inter-disciplinary repository with long-term archive in the project OpARA. It will provide open access long-term storage of data, including metadata and will go into production in 2017.

Other institutional and thematic repositories will be considered and evaluated in the next months.

3. Budget

The costs of preparing the data and documentation will be borne by the project partners. This is already budgeted in the personnel costs included in the project budget.

The permanent costs of preserving datasets on the ZENODO repository will be free of charge as long as the single dataset storage is no greater than the maximum 2GB of data.

The permanent costs of preserving datasets on the OpARA repository are planned to be free of charge for TUD members. But the final decision on costs has not been taken.

4. Attachment 1: Initial Datasets in U_CODE

Initial Datasets in U_CODE sorted by U_CODE partners³

Initial Datasets in U_CODE sorted by DATA SET Type⁴

³ Not intended for print on A4 paper.

⁴ Not intended for print on A4 paper.

ir E xplanation & filling	DATA SET - name	U_CODE Data Management Plan Templata (by Partes)																			
planation & filling		DATA SET Type - nature of data	Lead	wp Ta	isk/ time in which data is	Type of data	data format	Publication Date	Source of data	how is the data generated/collected	how is the data processed	Restriction on using the data, suggestions by now	audience, if yet known	standards	metadata	data sharing	preservation and backup	duration of preservation (short-term, long-term,)	related dataset	underpins scientific publication	License
		a.	TU Dr, TU De, ISEN, CONE,	1_8	env. generated/conected	audio, video, text, pictures, code,	, kli, dock, jepg, pdt, ppt, mp3,			generated/cosected		open access, open to gualified researchers, confidental - only for U CODE members	e.g. other research groupe, users of	Reference to existing suitable standards of the	If standards do not exist, an outline on how and	- Description of how data will be shared, including access procedures, embargo periods	Description of the procedures that will be put in place for long-term	Indication of how long the data should be preserved, what is its			
mples		nierotore, survey mesity, unbeaux positypys, schowe, publication, production, test data, conceptual framework, modelly,	097, 525a, 6449			nodrit						li_CCCC member		elugina,	what metadata will be crusted.	If and, advance of individual meta-bases for distribution and an execute of indivi- pants of individual meta-bases and an execution of the spectrum sector and meta-bases of a strategy control of the spectrum sector and the spectrum sector accession of the distribution of a spectrum sector and individual meta-bases and the spectrum sector and the spectrum sector accession of a spectrum sector and the distribution of the spectrum sector accession of a spectrum sector and the distribution of a spectrum sector accession of a spectrum sector and the spectrum sector accession of a spectrum sector accession of a spectrum sector accession of a spectrum sector accession of a spectrum sector accession of a spectrum sector accession accession of a spectrum sector accession of	penservition of the data.	approximite for drouwn, whit the associated costs are and how then are planted to be covered			
ita set 1 8	Reviewreport on Kick off meeting in Dresden	report	TUDr-KA	WP1 1.3	2 02/03/2016-04/03/2016	text, pictures, , visual protocols	pdf, docx,		workshop with U_CODE partners	workshop	stored at conject pm	confidential - only for U_CODE members	U_CODE			conject platform					no
lata set 2 B	Reviewreport on GA Meeting in Dresden	report	TUDr-KA	WP1 1.3	2 01/06/2016-03/06/2016		pdf, docx,		workshop with U_CODE partners	workshop	stored at conject pm	confidential - only for U_CODE members	U_CODE			conject platform					no
lata set 3 in	deagrams of workshop	logfiles of discussions/interviews	TUDr-KA	WP1 1.3	2 02/03/2016-31/07/2019	picture, graph			workshop with U_CODE partners	workshop	stored at conject pm	confidential - only for U_CODE members	U_CODE			conject platform					no
uata set 4 p	photo documentation of meetings & ws	report	TUDr-KA	WP1 1.3	2 02/03/2016-31/07/2019	pictures	jpeg, img		workshop with U_CODE partners	workshop	stored at conject pm	confidential - only for U_CODE members	U_CODE			conject platform					no
lata set 5 n	tetplans	graphs/pictures	TUDr-KA	WP2 1.3	3 02/03/2016-31/07/2020	pictures	ipeg, img														
	xpert talk Hamburg/Reschke	interview	TUDr-KA	WP2 2.4	4 11.04.2016	audio	mpg		workshop with CONJECT				U_CODE			conject platform					no
lata set 7 b	technical & financial quarterly reports	report	TUDr-KA	WP1 1.3	2 02/03/2016-31/07/2019	text.	edf. docx.		U_CODE partners		stored at conject pm	confidential - only for U_CODE members	U_CODE			conject platform					no
	Design Heurisics and Design Decision making process	models	TUDr-KA	WP2 T2	1.4 01/02/2016-30/11/2016	software						confidential - only for U_CODE members	U_CODE			dataset cannot be shared due to IP		short-term preservation			W6
6	iterature review of social media and communication workflows												-								
	n urban planning	(scientific) publications	TU Dr MC	WP2 2.3	2 01/04- ongoing	text, pictures	pdf, docx, ppt		(scientific) literature		stored at conject pm	only for U_CODE members	U_CODE					long term preservation			
	review of existing crowdsourcing and garning approaches in urban planning	(scientific) publications	TU Dr MC	WP2 2.3	2 01/04- ongoing	text, pictures	pdf, docx, ppt		(scientific) literature		stored at conject pm	only for U_CODE members	U_CODE					long term preservation			
			TUDr-MC		2.2 01/02/2016-31/12/2017	text, pictures	pdť, docx,					confidential - only for U_CODE members	U_CODE			conject platform		short-term preservation			no
			TUDr		2.4 01/02/2016-30/11/2016	text, pictures	pdf, docx,					confidential - only for U_CODE members	U_CODE			conject platform		short-term preservation			no
	Usability Testing		TUDr-MC	WP6 T6	5.2 01/08/2016-30/11/2018							confidential - only for U_CODE members	U_CODE			conject platform		short-term preservation			no
			TUDr-AL		3 2014-2016	text	xml		https://mopo24.de/share/sitemap.xml			only for U_CODE members		TEI XML				short-term preservation (test file)			no
	ressectad Dresden	surrounding area	TUDr-AL	WP2 II.3		test	xml		daily newsletter sent via E-mail			only for U_CODE members		TEI XML				short-term preservation (test file)			no
ta set 16 S	Semantic / Sentiment Analysis in Social Media	models	TUDr -AL	WP2 T2	1.3 01/02/2016-30/11/2016	software	pdf, docx,					confidential - only for U_CODE members	U_CODE			dataset cannot be shared due to IP		short-term preservation			yes
ata set 17 h	interview Collection	interviews	ISEN	WP3 3.:	1-3.3 01/04/2016-01/12/2016	text, pictures, audio records	4 pdf, docx, MP3, JPEG			ethnographic observation, semi- structured interviews		confidential	U_CODE								
ata set 18 P	Nictures	pictures	ISEN	WP 3.:	1-3.3 01/04/2016-01/12/2016	pictures,	pdf, JPEG			ethnographic observation, semi- structured interviews	stored at PC	confidential	U_CODE								
ata set 19 M	Moderated Models	МоМ	ISEN	WP3 3.:	1-3.3 01/04/2016-01/12/2016	text, pictures,	pdf, docx, MP3, JPEG			ethnographic observation, semi- structured interviews	stored at PC	confidential	U_CODE								
	nitial report on co-design sessions, ethnographic study and interviews	publication	ISEN	WP3 1	8.1/D3. 01/02/2016-30/09/2016	text, pictures	pdf, docx,					confidential - only for U_CODE members	U_CODE			conject platform		short-term preservation			no
ata set 21 h	interaction Formats between professionals and citizens	publication	ISEN	WP3 D3	3.2/M1 01/02/2016-30/10/2016	text, pictures	pdf, docx,					confidential - only for U_CODE members	U_CODE			conject platform		short-term preservation			no
ita set 22 F	Functional specifications of U_CODE and use case description	publication	ISEN	WP3 D3	3.3 01/02/2016-30/10/2016	text, pictures	pdf, docx,					confidential - only for U_CODE members	U_CODE			conject platform		short-term preservation			no
ta set 23 F	Functional description of the U_CODE tool	publication	ISEN	WP3 D3	3.4 01/02/2016-30/10/2016	text, pictures	pdf, docx,		interview partners:			confidential - only for U_CODE members	U_CODE			conject platform		short-term preservation			no
ta set 24 B	Roadmap for implementation and of a validation test plan	publication	ISEN	WP3 D3	3.5 01/02/2016-28/02/2017	text, pictures	pdf, docx,					confidential - only for U_CODE members	U_CODE			conject platform		short-term preservation			no
ta set 25 C	DTD NL Valkenburg CONFIDENTIAL	interviews	TUDe	WP7 7.:	1 01/04-01/06/2016	text, pictures	PDF	May 10, 2016	Interview project leaders of Location Valkenburg	interview	stored at conject pm	confidental - only for U_CODE members	U_CODE members only								no
ita set 26 L	Legal Framework NL	interviews + models	TUDe	WP2 2.:	1 01/04-01/06/2016	text, pictures	PDF		interview, + publications	interview + publications	to be stored at conject pm	open access	U_CODE								no
ta set 27 L	LEF Report	interview	TUDe	WP2 2.:	1 01/04-01/06/2016	text, pictures	PDF	May 27, 2016	interview LEF expert	interview	stored at conject pm	open access	U_CODE								no
ata set 28 P	Phases presentation TUDelft	conceptual framework	TUDe	WP2 2.:	1 01/04-01/06/2016	text, pictures	PDF	Jun 7, 2016	interview, + publications	interview + publications	stored at conject pm	open access	U_CODE								no
ata set 29 V	Workshop I&M report	workshop + observations	TUDe	WP2 2.:	1 01/04-20/04/2016	text, pictures	PDF	TBD	workshop at Dutch ministry I&M	workshop report	to be stored at conject pm	open access	U_CODE								no
nata set 30 C	D-Testbed Description Workshop - report	workshop report	TUDe	WP2, 3, 7 7.:	1 01/04-01/05/2016	text, pictures	PDF	Apr 27, 2016	workshop with U_CODE members	workshop report	stored at conject pm	open access	U_CODE								no
ata set 31 C	Co-Design methodologies in urban design (initial version)	survey	TUDe	WP2 12	1.1/D2. 01/02/2016-30/11/2016	text, pictures	pdf, docx,		research and review of existing tools for urban planning (e.g. Poldering in NL)	using of linguistic data form social networks	stored at conject pm	open access	U_CODE			conject platform		short-term preservation			no
nata set 32 C	Co-Design methodologies in urban designs	survey	TUDe	WP2 12	01/02/2016-31/12/2017	text, pictures	pdf, docx,		interview partners:			open access	U_CODE			conject platform		short-term preservation			no
nata set 33 A	Assessment report and testbed report	publication	TU Delft	WP7 1/	7.2/D7. 01/05/2016-01/02/2019	text, pictures	pdf, docx,					confidential - only for U_CODE members	U_CODE			conject platform		short-term preservation			no
iata set 34 c	cross-cultural comparison study	publication	TU Delft		7.2/M3 01/05/2016-01/02/2019	text, pictures	pdf, docx,					confidential - only for U_CODE members	U_CODE			conject platform		short-term preservation			no
lata set 35	examplatory Model Data for OPTIS WP4 virtual space	digital models in the standardized format IFC. Different	CONJECT/OPT	WP4 D4	4.4 20.06.2016	Format: IFC part 21 physical	al its	June 2016	freely available ifc sources	conject sample files, internet	stored at conject pm. Optis will use them for trial in virtu	al open access	U_CODE, in special for OPTIS testing	ISO 20759 - Industry roundation Causes (IFC) for data sharing in the construction		available on conject PM, project U_CODE	subject to the conject PM versioning, backup and security	subject to conject PM long-term preservation policy (i.e. hard disc image of the project including entire project	annotations to models (participant		no
		discipilines (partial models) and sizes Formalization methods for WP7 Testbed Assesment	CONJECT/TUDe	WP7 D7	7.1 29.04.2016	File (ISO 10303.21) power point presentation			created by the author	no copyrights	environment	only for U_CODE members	U_CODE	and farility management industries Office Open XML			subject to the conject PM versioning, backup and security	document cet)	feartharkl in R°F format		
ata set 37 L	U.CODE Sales Presentation	SPIN - Presentation for potential U_CODE customers	CONJECT/TUDr KA	WP8 DE	8.1 07.06.2016	power point presentation	pptx	June 2016	created by the author			only for U_CODE members	U_CODE	Office Open XML		available on conject PM, project U_CODE	procedures subject to the conject PM versioning, backup and security	subject to conject own rong-term preservation poincy (i.e. hard disc image of the project including entire project			
ata set 38 A	agile Methodology	Introduction into agile methods and tools	CONJECT/TUDr KA	WP1 T1	stopped due to the problem 1.1 will be resumed as life	no, webinar		June 2016	created by the author		to be done after successful presentation	only for U_CODE members	U_CODE				horemage	document ceth			
	ntroduction into UML	webinar on UML methodology, first UML diagram types and how to use them in U_CODE	CONJECT/TUDe	WP1 D7	7.1 01.04.2016	webinar		Apr 16	created by the author			only for U_CODE members	U_CODE								
ta set 40 L		first UML diagrams	CONJECT	WP1 D7	7.1 01/04/2016-01/12/2017	visual graphs	eg. vpp	Apr 16	created by the author			only for U_CODE members	u_CODE								
ta set 41 P	Project Information Model	prototype	CONJECT	WPS TS	i.1/D5. 01/06/2016-31/12/2018	software						confidential - only for U_CODE members	u_CODE			dataset cannot be shared due to IP		long term preservation			yes
ta set 42 E	Data Space structure (cloud server)	prototype	CONJECT	wps 15 2	3.2/D5. 01/07/2016-31.12.2018	software						confidential - only for U_CODE members	U_CODE			dataset cannot be shared due to IP		long term preservation			yes
	Co-design space	prototype	CONJECT	WP5 15	5.3/D5. 01/08/2016-31/08/2018	software						confidential - only for U_CODE members	U_CODE			dataset cannot be shared due to IP		long term preservation			yes
ta set 44 S	Social Media component	prototype	CONJECT	WP5 15	5.4/D5. 01/08/2016-31/08/2018	software						confidential - only for U_CODE members	U_CODE			dataset cannot be shared due to IP		long term preservation			yes
a set 45 T	Foolkit for design	prototype	CONJECT	WP5 5.	5.6/D5. 01/09/2016-31/12/2018	software						confidential - only for U_CODE members	U_CODE			dataset cannot be shared due to IP		long term preservation			yes
ta set 46 E	Exchange information architecture (HUB)	prototype	CONJECT	WP D5	5.6 01/09/2016-31/12/2018	software						confidential - only for U_CODE members	U_CODE			dataset cannot be shared due to IP		long term preservation			yes
ta set 47 F	Functionality Testing	test data	CONJECT	WP6 4	6.1/M2 01/07/2016-31/12/2018							confidential - only for U_CODE members	U_CODE			conject platform		short-term preservation			no
ta set 48 li	integration and standardisation	test data	CONJECT	WP6 2	5.3/D6. 01/05/2018-31/12/2018							confidential - only for U_CODE members	U_CODE			conject platform		long term preservation			no
a set 49	Natural interface development	Software prototypes	OPTIS			Software application, 3D visualization. Natural	exe, docx, pdf, pptx		WP3 deliverables		Stored at OPTIS headquarter	Confidential - only for U_CODE members	U_CODE								yes
	Fechnical specifications of interface development	publication			9-5 8.1/D4. 1M14 01/07/2016-31/12/2016		pdf, docx,					confidential - only for U_CODE members	U_CODE			conject platform		short-term preservation			no
a set 51	Public project space (interface for front-end design, version 1+2)	prototype			1.2/D4. 01/07/2016-28/02/2017							confidential - only for U_CODE members	U_CODE			conject platform		short-term preservation			no
a set 52 0	Public project space (interface for front-end design) with 3D (version 1)	prototype			s.3/D4. 01/08/2016-30/06/2018								U_CODE			conject platform		long term preservation			no
ta set 53 E	Exchange data functionality	prototype	OPTIS		8.4/D4. 01/08/2016-30/06/2018							confidential - only for U_CODE members	U_CODE			dataset cannot be shared due to IP		long term preservation			yes
	Public project space (interface for front-end design) with 3D (version 2)				4.6 01/08/2016-31/12/2018							confidential - only for U_CODE members	U_CODE			dataset cannot be shared due to IP		long term preservation			yes
	Reports on end-users feedback and enhanced functional requirements	publication	OPTIS	WP4 6	4.7/M3 01.07.2016-31/12/2018	text, pictures	pdf, docx,					confidential - only for U_CODE members	U_CODE			conject platform		short-term preservation			no
ta set 55 b							pdf, docx,						U_CODE members only								no
	Exploitataion, Dissemination ans Communication	report	SilSax / TUDr KA	WP8 8.3	3 02/03/2016-31/07/2019	test, picture															
iata set 56 E					3 02/03/2016-31/07/2019 4 02/03/2016-31/07/2020		pdf, docx,														no

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c	DATA SET - name	DATA SET Type - nature of data	Lead	WP Task/ Deliv.	time in which data is generated/collected	Type of data	data format	Publication Date Source of data	how is the data generated/collected	how is the data processed	Restriction on using the data, suggestions by now	audience, if yet known	standards	metadata	data sharing	preservation and backup	duration of preservation (short-term, long-term,)	related dataset underpin	scientific publication	License
tion & filling is		Ne Alexindeas, survey results safetare prototypes, safeare, publications, production, test data, conceptual framework, modelly,	TU De, TU De, ISEN, CONI, CPT, SIGar, GMP	1.4		audia, video, terei, picturee, cede, mod	ok. kir, docx, jogg, patt, opt, mp3,				gan xun, gan ta guilded muarther, cotténcia - ony fo V COOS menium	r s≵ other musicity goupt, usen af _	Reference to existing valuable standards of the shoupting,	if classifiertin dio test evint, an overline on how an what netsidets will be created.	Description of them all and bill in Annual, functioning anomaly providences, nationage proteiness of the production of the source of the production of	Security for all the providences that will be put in place for long term personalized of the dela.	indication at Provincing the data shared the presenced, what is in approximated and enables, which it is suscitated cashs are and how these are phonoid to be consend			
6 e	opert talk Hamburg/Reschke	interview	TUDr-KA	WP2 2.4	11.04.2016	audio	mpg	workshop with CONJECT				U_CODE			conject platform					no
27 L	EF Report	interview	TUDe	WP2 2.1	01/04-01/06/2016	text, pictures	PDF	May 27, 2016 interview LEF expert	interview	stored at conject pm	open access	U_CODE								no
17 li	nterview Collection	interviews	ISEN	WP3 3.1-3.	3 01/04/2016-01/12/2016	text, pictures, audio records	pdf, docx, MP3, IPEG		ethnographic observation, s structured interviews	emi- stored at PC	confidential	U_CODE								
25 0	TD NL Valkenburg CONFIDENTIAL	interviews	TUDe	WP7 7.1	01/04-01/06/2016	text, pictures	PDF	May 10, 2016 Interview project leaders of Lo Valkenburg	ation interview	stored at conject pm	confidental - only for U_CODE members	U_CODE members only								no
26 L	egal Framework NL	interviews + models	TUDe	WP2 2.1	01/04-01/06/2016	text, pictures	PDF	TBD interview, + publications	interview + publications	to be stored at conject pm	open access	U_CODE								no
	deagrams of workshop		TUDr-KA	WP1 1.2	02/03/2016-31/07/2019	picture, graph		workshop with U_CODE partn		stored at conject pm	confidential - only for U_CODE members	U_CODE			conject platform					no
35 e	xamplatory Model Data for OPTIS WP4 virtual space mplementation	digital models in the standardized format IFC. Different disciplines (partial models) and sizes	CONJECT/OPT	WP4 D4.4	20.06.2016	Digital Building Model. Format: II part 21 physical file (ISO 10303-2	FC ifc 11)	June 2016 freely available if csources	conject sample files, interne no copyrights	t stored at conject pm. Optis will use them for trial in virtu environment		U_CODE, in special for OPTIS testing purposes	(IFC) for data sharing in the construction and facility management industries		available on conject PM, project U_CODE	subject to the conject PM versioning, backup and security procedures	hard disc image of the project including entire project incrument set)	annotations to models (participant feedback) in RCF format		no
	besign Heurisics and Design Decision making process				01/02/2016-30/11/2016	software					confidential - only for U_CODE members	U_CODE			dataset cannot be shared due to IP		short-term preservation			yes
				WP2 T2.3	01/02/2016-30/11/2016	software	pdf, docx,				confidential - only for U_CODE members	U_CODE			dataset cannot be shared due to IP		short-term preservation			yes
					3 01/04/2016-01/12/2016		pdf, docx, MP3, JPEG		ethnographic observation, s structured interviews	emi- stored at PC	confidential	U_CODE								
40 L				WP1 D7.1	01/04/2016-01/12/2017	visual graphs		Apr 16 created by the author			only for U_CODE members	U_CODE								
	lictures		ISEN	WP 3.1-3.	3 01/04/2016-01/12/2016	pictures,	pdf, JPEG		ethnographic observation, s structured interviews	stored at PC	confidential	U_CODE								
5 n	etplans		TUDr-KA	WP2 1.3	02/03/2016-31/07/2020	pictures	jpeg, img													
	roject Information Model			WP5 15.1/0 1 T5.2/0	25. 01/06/2016-31/12/2018	software					confidential - only for U_CODE members	U_CODE			dataset cannot be shared due to IP		long term preservation			yes
42 D	hata Space structure (cloud server)			-	25. 01/07/2016-31.12.2018	software					confidential - only for U_CODE members	U_CODE			dataset cannot be shared due to IP		long term preservation			yes
	lo-design space	- and the		3/M3.	25. 01/08/2016-31/08/2018	software					confidential - only for U_CODE members	U_CODE			dataset cannot be shared due to IP		long term preservation			yes
44 S	ocial Media component	prototype		WP5 T5.4/L 4/M3: T5.6/L	20. 01/08/2016-31/08/2018 205.	software					confidential - only for U_CODE members	U_CODE			dataset cannot be shared due to IP		long term preservation			yes
45 T 46 E	oolkit for design	prototype		WP5 5/M34	4 01/09/2016-31/12/2018	software					confidential - only for U_CODE members	U_CODE			dataset cannot be shared due to IP		long term preservation			yes
	ixchange information architecture (HUB)	prototype	CONIECT	WP D5.6 T4.2/0	01/09/2016-31/12/2018	software					confidential - only for U_CODE members	U_CODE			dataset cannot be shared due to IP		long term preservation			yes
51 P	ublic project space (interface for front-end design, version 1+2) ublic project space (interface for front-end design) with 3D		OPTIS	WP4 2/D4.5	5 01/07/2016-28/02/2017	software					confidential - only for U_CODE members	U_CODE			conject platform		short-term preservation			no
2 (·	version 1)			WP4 3	01/08/2016-30/06/2018	software					confidential - only for U_CODE members	U_CODE			conject platform		long term preservation			no
				WP4 4 WP4 D4.6	01/08/2016-30/06/2018 01/08/2016-31/12/2018	software					confidential - only for U_CODE members	U_CODE			dataset cannot be shared due to IP		long term preservation			yes
	ublic project space (interface for front-end design) with 3D version 2) unctionality scheme of a communication system				01/08/2016-31/12/2018	text, pictures	pdf, docx,				confidential - only for U_CODE members	U_CODE			dataset cannot be shared due to IP conject platform		long term preservation			yes .
	tevised functional specifications		TUDr-MC	WP2 D2.2		text, pictures	pdf, docx,				confidential - only for U_CODE members	U_CODE			conject platform		short-term preservation			no
12 N	nitial report on co-design sessions, ethnographic study and		ISEN	WP2 D2.4	01/02/2016-30/11/2016 01/02/2016-30/09/2016	text, pictures	pdf, docx,				confidential - only for U_CODE members	U_CODE			conject platform		short-term preservation			10
	nterviews			WP3 1 WP3 D3.2/1	M1 01/02/2016-30/09/2016		pdf, docx,				confidential - only for U_CODE members	U_CODE			conject platform		short-term preservation			10
					01/02/2016-30/10/2016	text, pictures	pdf, docx,				confidential - only for U_CODE members	0_0006			conject platform		short-term preservation			10
	unctional description of the U_CODE tool				01/02/2016-30/10/2016		pdf, docx,	interview nartners			confidential - only for U_CODE members	U CODE			conject platform		short-term preservation			-
24 R			ISEN		01/02/2016-28/02/2017	text, pictures	pdf, docs,	nite vew partients			confidential - only for U_CODE members	U_CODE			conject platform		short-term preservation			-
33 A	assessment report and testbed report			WP7 T7.2/0	07. 01/05/2016-01/02/2019		pdf, docx,				confidential - only for U_CODE members	U_CODE			conject platform		short-term preservation			no
34 c	ross-cultural comparison study			1/1/13	M ³ 01/05/2016-01/02/2019	text, pictures	pdf, docx,				confidential - only for U_CODE members	U CODE			conject platform		short-term preservation			10
	echnical specifications of interface development			8 WP4 T4.1/E	01/07/2016-31/12/2016	text, pictures	pdf, docx,				confidential - only for U_CODE members	U_CODE			conject platform		short-term preservation			no
55 ^R	leports on end-users feedback and enhanced functional	publication	OPTIS	1/M1- WP4 D4.7/1	4 M3 01.07.2016-31/12/2018	text. pictures	pdf. docx.				confidential - only for U_CODE members	U CODE			coniect platform		short-term preservation			10
r.	equirements Leviewreport on Kick off meeting in Dresden			WP1 1.2		text, pictures, , visual protocols	pdf, docx,	workshop with U_CODE pertn	s workshop	stored at conject pm	confidential - only for U_CODE members	U_CODE			conject platform					no
	teviewreport on GA Meeting in Dresden		TUDr-KA	WP1 1.2	01/06/2016-03/06/2016	text, pictures, , visual protocols	pdf, docx,	workshop with U_CODE partn		stored at conject pm	confidential - only for U_CODE members	U_CODE			conject platform					no
	hoto documentation of meetings & ws	report	TUDr-KA	WP1 1.2	02/03/2016-31/07/2019	pictures	jpeg, img	workshop with U_CODE partn		stored at conject pm	confidential - only for U_CODE members	U_CODE			conject platform					no
	echnical & financial quarterly reports		TUDr-KA	WP1 1.2	02/03/2016-31/07/2019	text,	pdf, docx,	U_CODE partners		stored at conject pm	confidential - only for U_CODE members	U_CODE			conject platform					no
	Aopo24 – Morgenpost Sachsen	articles of daily newspaper	TUDr-AL	WP2 II.3	2014-2016	text	xml	https://mopo24.de/share/site	ap.onl		only for U_CODE members		TEI XML				short-term preservation (test file)			no
15 P	resseschau Dresden	articles of different newspapers about Dresden and surrounding area	TUDr-AL	WP2 II.3	2007-2016	text	xml	daily newsletter sent via E-ma			only for U_CODE members		TEI XML				short-term preservation (test file)			no
36 L	Jse Case Framework	Formalization methods for WP7 Testbed Assesment Reports	CONJECT/TUDe	WP7 D7.1	29.04.2016	power point presentation	pptx	Apr 16 created by the author			only for U_CODE members	U_CODE	Office Open XML		available on conject PM, project U_CODE	subject to the conject PM versioning, backup and security procedures	subject to conject PM long-term preservation policy (Le. hard disc image of the project including entire project			
17 L	J_CODE Sales Presentation		CONJECT/TUDr KA	WP8 D8.1	07.06.2016	power point presentation	pptx	June 2016 created by the author			only for U_CODE members	U_CODE	Office Open XML		available on conject PM, project U_CODE	procedures subject to the conject PM versioning, backup and security procedures	subject to conject PM long-term preservation policy (i.e. hard disc image of the project including entire project			
38 A	igile Methodology	Introduction into agile methods and tools	CONJECT/TUDr KA	WP1 T1.1	stopped due to nne proteen will be resumed as life	ns, webinar		June 2016 created by the author		to be done after successful presentation	only for U_CODE members	U_CODE					decoder of			
9 ir	ntroduction into UML	webinar on UML methodology, first UML diagram types and how to use them in U_CODE	CONIECT/TUDe	WP1 D7.1	01.04.2016	webinar		Apr 16 created by the author			only for U_CODE members	U_CODE								
6 E	xploitataion, Dissemination ans Communication		SilSax / TUDr KA	WP8 8.3	02/03/2016-31/07/2019	text, picture	pdf, docx,					U_CODE members only								no
7 C	collection of future customers	report	SilSax / TUDr KA	WP9 8.4	02/03/2016-31/07/2020	text, picture	pdf, docx,					U_CODE members only								no
9 N	latural interface development	Software prototypes	OPTIS	WP4 D4.1	Month 06 -> 36	Software application, 3D visualization, Natural interfaces	exe, docx, pdf, pptx	WP3 deliverables		Stored at OPTIS headquarter	Confidential - only for U_CODE members	U_CODE								yes
1 0	o-Design methodologies in urban design (initial version)	survey	TUDe	WP2 T2.1/0	01/02/2016-30/11/2016	text, pictures	pdf, docx,	research and review of existin urban planning (e.g. Poldering	tools for using of linguistic data form n NL) social networks	stored at conject pm	open access	U_CODE			conject platform		short-term preservation			no
2 C	o-Design methodologies in urban designs	survey	TUDe	WP2 T2:1/0 3	01/02/2016-31/12/2017	text, pictures	pdf, docx,	interview partners:			open access	U_CODE			conject platform		short-term preservation			no
	Jsability Testing	test data	TUDr-MC		01/08/2016-30/11/2018						confidential - only for U_CODE members	U_CODE			conject platform		short-term preservation			no
7 F	unctionality Testing	test data	CONIECT	WP6 4	M2 01/07/2016-31/12/2018						confidential - only for U_CODE members	U_CODE			conject platform		short-term preservation			no
18 11	ntegration and standardisation	test data	CONJECT	WP6 2	01/05/2018-31/12/2018						confidential - only for U_CODE members	U_CODE			conject platform		long term preservation			no
29 V	Vorkshop I&M report	workshop + observations	TUDe	WP2 2.1	01/04-20/04/2016	text, pictures	PDF	TBD workshop at Dutch ministry IS	t workshop report	to be stored at conject pm	open access	U_CODE								no
30 C	0-Testbed Description Workshop - report	workshop report	TUDe	WP2, 3, 7 7.1	01/04-01/05/2016	text, pictures	PDF	Apr 27, 2016 workshop with U_CODE meml	rs workshop report	stored at conject pm	open access	U_CODE								no
) ¹¹	terature review of social media and communication workflows n urban planning	(scientific) publications	TU Dr MC	WP2 2.2	01/04- ongoing	text, pictures	pdf, docx, ppt	(scientific) literature		stored at conject pm	only for U_CODE members	U_CODE					long term preservation			
						text, pictures	PDF	Jun 7, 2016 interview, + publications		stored at conject pm										10