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Project number: 645043



A typology, method and roadmap for HUman-MAchine NEtworks

Deliverable D5.3

Data management plan

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Abstract	This deliverable describes how HUMANE will organize dissemination of work, results, data and publications to meet the Open Research Data requirements. This includes a description of the data management life cycle for all data sets that will be collected, and a listing of gold and green open access journals relevant for the project. The DMP will be updated throughout the project-period.
Key-words	Open data, open access, data management

Versioning and contribution history

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V05	23/09/2015	DS.C5 and DS.C6 added.	UOXF
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V07	29/09/2015	Deliverable revised and finalized addressing suggestions and comments from internal review.	SINTEF

Definitions and abbreviations

Abbreviation	Definition
APC	Article Processing Charges
CSV	Comma Separated Values
DS	Data set
DMP	Data Management Plan
Gold open access	A journal-article is immediately provided in open access mode as published. Some journals require a fee (see APC) as a one-off payment by authors.
Green open access	Self-archiving: the published article or the final peer-reviewed manuscripts is archived by the author in an online repository. Most journals operate with an embargo-period, typically 12 months, before the article can be self-archived.
Open access	The practice of providing online access to scientific information that is free of charge to the end-user and that is re-usable.
Open data	Research data that is made openly accessible for any third party to be mined, exploited, reproduced and disseminated free of charge for the user.

Executive summary

This deliverable presents the first version of the Data Management Plan (DMP) for the HUMANE project, and is a mandatory report for all projects participating under the ICT31 Open Research Data pilot in Horizon 2020.

The deliverable first presents the key considerations made to ensure open access to both research data and project publications. We next describe the background for why and how HUMANE needs to be an open access project, influencing the overall data management processes. The deliverable next describes the data sets to be gathered, processed and analysed. These data set descriptions follow the HUMANE 2020 DMP template provided by the European Commission. This template was circulated to the project-partners responsible for the different studies to be conducted, and partners completed the data set descriptions according to the current plans for gathering and analysis of data as well as the methods and processes foreseen to be applied to ensure open access and data sharing of the data. Where open access to research data represents a risk for compromising the privacy of study participants, data will not be shared or made accessible.

As a final activity in preparing the DMP, we have reviewed HUMANE-relevant open access journals, focusing on gold open access without author processing fees and green open access journals with a maximum of 12 months embargo period for self-archiving in repositories. The review resulted in a long list of potential publication-venues.

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1 Introduction

All projects under ICT 31 participate in the Open Research Data pilot. This implies requirements for open access to research data and open access to scientific publications. Open access is defined by the EC as "the practice of providing online access to scientific information that is free of charge to the end-user and that is re-usable" (European Commission 2013a, p. 2).

This Data management plan (DMP) describes the data management life cycle for the data sets to be collected and processed by HUMANE. The DMP outlines the handling of research data during the projects, and how and what parts of the data sets will be made available after the project has been completed. This includes an assessment of when and how data can be shared without disclosing directly or indirectly identifiable information from study participants.

The DMP specifies deadlines for the availability of research data, describes measures to ensure data are properly anonymized to ensure the privacy of informants and respondents, and to ensure the open data strategy does not violate the terms made with the interlinked R&I projects.

With regard to access to research data HUMANE will make the data available in a research data repository to make it possible for third parties to access, mine, exploit, reproduce and disseminate - free of charge - the data and metadata. Research data was originally planned to be archived at the Norwegian Social Science Data Services to ensure re-use in future research projects and follow-up studies. Working with this deliverable, project partners decided to use Zenodo as the project data and publication repository, and to link the repository to a HUMANE project-site at OpenAIRE. This decision was made to make sure the data and publications are as easily discoverable and accessible as they should be, assessing Zenodo and OpenAIRE to be a better option than the Norwegian Social Science Data Services.

With regard to open access to scientific publications, HUMANE aims to publish in open access journals (gold open access), and to make publications behind pay-walls available as final peer-reviewed manuscripts in an online repository after publication (green open access). To ensure gold open access, the HUMANE budget includes costs for Article Processing Charges (APC), yet a review of HUMANE-relevant journals conducted for this deliverable indicates that a better option is to choose gold open access journals without APC or journals offering green option access. With regard to the latter, following the recommendations of the data management plan ensures we only submit our work to journals with a maximum of 12 months embargo period for self-archiving in repositories.

This deliverable is structured as follows. In chapter 2, we will describe the guiding principles for the overall data management of HUMANE. In chapter 3 we will present the data sets to be gathered, processed and analysed, following the H2020 DMP template (European Commission 2013b). For each data set, we will: (i) provide an identifier for the data set to be produced; (ii) provide the data set description; (iii) refer to standards and metadata; (iv) describe how data will be shared; and (v) describe the procedures for archiving and long-term preservation of the data. In chapter 4 we describe how HUMANE plans to comply with the Horizon 2020 mandate on open access to publications.

2 Guiding principles

The legal requirements for open research data in ICT topic 31-projects are contained in the article 29.3 in the Grant Agreement, stating that:

Regarding the digital research data generated in the action ('data'), the beneficiaries must:

- a) *Deposit in a research data repository and take measures to make it possible for third parties to access, mine, exploit, reproduce and disseminate – free of charge for any users – the following:*
 - I. *the data, including associated metadata, needed to validate the results presented in scientific publications as soon as possible.*
 - II. *other data, including associated metadata, as specified and within the deadlines laid down in the 'data management plan':*
- b) *provide information – via the repository – about tools and instruments at the disposal of the beneficiaries and necessary for validating the results (and – where possible – provide the tools and instruments themselves).*

As can be interpreted from article 29.3 in the Grant Agreement, the objectives of open access to data primarily concern two aspects: to have raw-data available for post-validation of research results; and to permit re-use in future research projects. Relatedly, as emphasized by the EC (2013a), open research data can help to accelerate innovation; foster collaboration and avoid duplication of efforts; build on previous research results; and increase the transparency of the scientific process.

Open access to research data and to publications should however not represent a risk for compromising the privacy of informants participating in the different HUMANE case-studies by openly publish datasets in which persons, households or families are identified. This DMP assesses when and how data can be shared within a sound research ethics framework, where directly or indirectly identifiable information is not disclosed at any stage in the research process.

In addition to open access to research data, HUMANE will comply with the requirements for open access to scientific publications. We will return to this in section 4. In the below section 3, we describe the data sets to be gathered and processed in HUMANE, and the procedures followed to ensure open access to these data sets without violating the privacy of informants taking part in the HUMANE case-studies.

Figure 1 illustrates the main points for how open access to research data and publications will be ensured in the project.

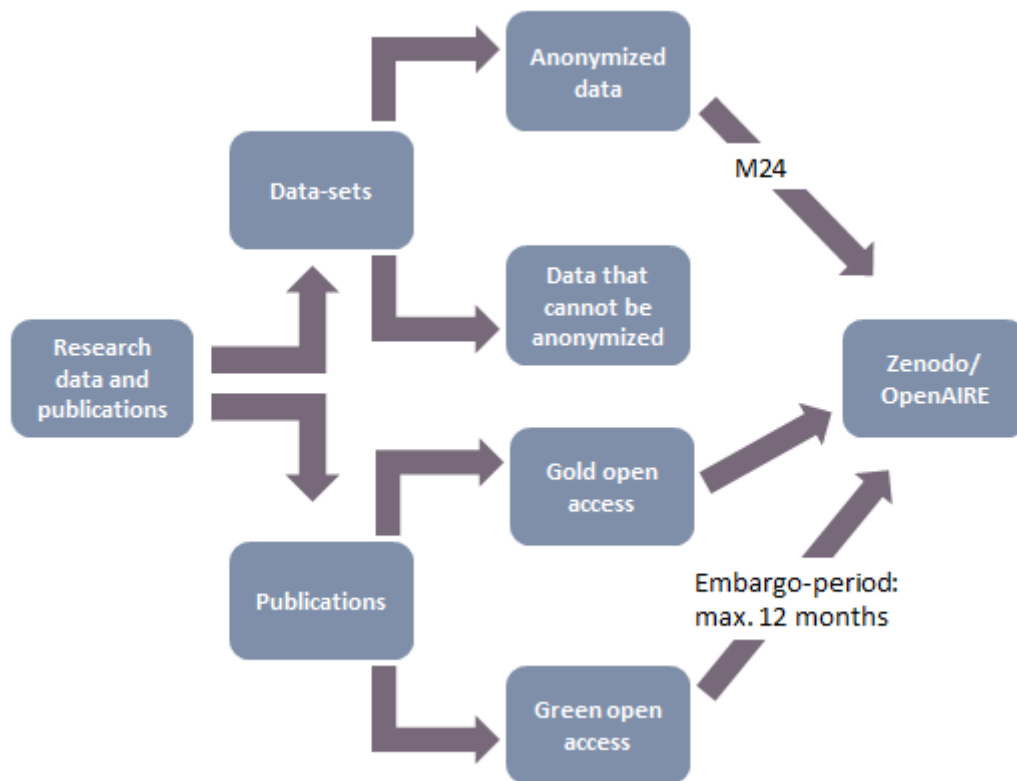


Figure 1: HUMANE open access to data and publications.

Finally, it is worth noting that open access to research data and publications is important within the context of responsible research and innovation¹. Ensuring research data and publications can be openly and freely accessed, means any relevant stakeholder can choose to cross-check and validate whether research data are accurately and comprehensively reported and analysed, and may also encourage re-use and re-mixing of data. A better exploitation of research data has much to offer, also in terms of alleviating the efforts required by study participants as well as researchers. Optimizing sharing of research data could potentially imply less duplication of very similar studies as previously collected data sets may be used at least as additional sources of data in new projects. Again, we emphasize that open access to research data must comply with sound research ethics, ensuring no directly or indirectly identifiable information is revealed.

3 Data sets to be gathered and processed in HUMANE

In this chapter we describe the different data sets that are planned to be gathered and processed by the HUMANE-partners. These descriptions follow the template provided by the EC for open research data projects in Horizon 2020 (European Commission 2013b). This template (see section 7: Appendix) was circulated to be completed by the project-partners responsible for the different studies to be conducted. The data sets follow many of the same procedures, e.g. with regard to using Zenodo as

¹ Open access is for example one objective for the forum for responsible research and innovation in ICT: http://www.rri-ict-forum.eu/index.php/Main_Page

an open data repository. This means the same wording is often repeated in the different data sets. As each data set description should give a comprehensive overview of the gathering, processing and open access archiving of data, we assessed it as necessary to repeat the procedures in the different data set descriptions. The name for each data set includes a prefix "DS" for data set, followed by a case-study identification number, the partner responsible for collecting and processing the data, as well as a short title. The H2020 DMP template requires that information about data set metadata is provided. We have primarily based the outlining of how and what metadata will be created on the guidelines provided by the European University Institute (2015).

Table 1 gives an overview of the data sets to be collected. The descriptions of each data set, following the H2020 template, are provided in the following sections.

Table 1: Overview of data sets

No.	Identifier/name	Brief description
1	DS.C1.SINTEF. Open Innovation data set	This data set will provide accounts on open innovation in terms of involved personnel and customers' experiences of cross- and intra-organizational collaboration, and motivation-mechanisms such as gamification.
2	DS.C2.SINTEF. Redistribution markets data set	This data set will provide accounts on customer-experiences with redistribution markets, including both the experiences of selling and buying products.
3	DS.C3.IT Innovation. eVACUATE data set	This data set will provide qualitative insights on using the HUMANE typology and method for human machine networks for crisis management from use case end-users and ICT/system architects.
4	DS.C4.ATC. REVEAL data set	This data set will provide accounts on journalists' experiences regarding the use of REVEAL platform, which aims to analyse the credibility and trustworthiness of diverse online sources.
5	DS.C5.UOXF. Wikipedia data set	This data set will provide the analysed large-scale raw data extracted from selected channels for Wikipedia data, aiming to address transactions and collaboration between active and contributing Wikipedia-users.
6	DS.C6.UOXF. Zooniverse data set	This data set will provide logs of contributors' classifications at the citizen science portal Zooniverse.
7	DS.C7.ATC. Roadmap data set	This data set will provide the raw-data from a survey conducted with relevant practitioners to gather data on needs, expectations and experiences with human-machine networks.

3.1 DS.C1.SINTEF. Open innovation data set

The DS.C1 data-set consists of: (1) Qualitative and anonymized interview-transcripts with employees in an enterprise, which uses an online open innovation solution for gathering suggestions and ideas for service innovation; (2) Anonymized and primarily qualitative data from a survey with customers who have contributed ideas and suggestions to the open innovation solution, and (3) Anonymized interview-transcripts from focus-groups with enterprise-employees.

Anonymous data are items of information that cannot in any way identify individuals in the data material directly through names or personal ID numbers, indirectly through background variables, or through a list of names / connection key or encryption formula or code. The data set will not include the name of the company we are studying. The combination of background variables such as gender, age, employee role in the company and the company name increases the risk of identifying individuals in the data material. At this stage we assess that withholding the company name is sufficient to ensure the privacy of the informants, but we will need to re-assess this continuously.

In order to ensure confidentiality, the lists with names and reference-number to the participants will be kept separate from the empirical data. These lists will not be stored together with the main material, but stored in an isolated computer belonging to the institution conducting the different case studies, and accessible only for the person in charge of the case-study.

3.1.1 Data set description

Origin of data: The data set will provide accounts on open innovation in terms of involved personnel and customers' experiences of cross- and intra-organizational collaboration, and motivation-mechanisms such as gamification. The data in this data set will be collected by SINTEF.

Nature and scale of data: (1) Transcripts of interview data in the language it was conducted (English or Norwegian); (2) Completed surveys in Norwegian. Note: survey will primarily include open-ended questions; (3) Transcripts of focus-group interviews in Norwegian.

To whom the data set could be useful: Outside of the consortium, the data in its anonymized form might be useful for other researchers interested in the potentials and limitations of open innovation and crowdsourcing of ideas. However, most of the transcripts will be in Norwegian, which clearly delimits the usefulness of the data outside of Scandinavian countries.

Scientific publication: It is our objective to use the data-set as a basis for at least one scientific publication.

Existence of similar data-sets? To our knowledge qualitative data-sets on the experiential aspects of online open innovation are not openly available.

3.1.2 Standards and metadata

The following metadata (with indicative values) will be created:

- Author/compiler of data set: Marika Lüders, Dimitra Chasanidou, SINTEF (may be updated)
- Funded by: [HUMANE, H2020 – 645043]
- Format: [PDF/A]
- Content-data: open innovation, crowdsourcing, online open innovation, Norway
- Method of data accumulation: qualitative interviews, qualitative survey, focus-groups.
- Data collection period [from] – [to]: 15.10.2015-15.12.2016 (may be updated)
- Conditions of use of data: open access, free of charge.
- DOI: [assigned by Zenodo]
- Related publications [Bibliographic details of publications based on the data-set]

3.1.3 Data sharing

Access procedures: The anonymized and transcribed data from the interviews and the anonymized collation of survey responses will be made accessible and available for re-use and secondary analysis by uploading the data to Zenodo. For the transcribed interviews, the time, location, pseudonym for each individual interview will be clearly stated.

Document format and availability: The data-set will be available as PDF/A at <http://www.zenodo.org/collection/datasets>. From here the fully anonymized data are open accessible for anyone, free of charge.

The data will be uploaded to Zenodo in M24 of HUMANE's project period. Before uploading data-sets, we will first have to anonymize data. We plan to anonymize the data in the final month of the project.

3.1.4 Archiving and preservation (including storage and backup)

Archiving of the anonymized data-set at Zenodo guarantees a long-term and secure preservation of the data at no additional cost for the project. Zenodo informs that "in the highly unlikely event that Zenodo will have to close operations, we guarantee that we will migrate all content to other suitable repositories, and since all uploads have DOIs, all citations and links to Zenodo resources (such as your data) will not be affected."

3.2 DS.C2.SINTEF. Redistribution markets data set

The DS.C2 data-set consists of (1) qualitative and anonymized interview-transcripts with adult end-users of the online redistribution service Snapsale; (2) Data-base with raw data on independent and dependent variables in selling- and buying experiments (quasi-experimental); (3) Summaries of qualitative content analysis; (4) Interview-transcripts from focus-groups with Snapsale managers and employees.

Anonymous data are items of information that cannot in any way identify individuals in the data material directly through names or personal ID numbers, indirectly through background variables, or through a list of names / connection key or encryption formula or code. The data-material from the focus-groups with Snapsale managers and employees will not be shared outside the consortium. We assess it as unviable to withhold the company-name, as the qualitative content analysis and the quasi-experiment will require disclosing the company. Disclosing the company name will not enable us to properly anonymize the company employees and managers, as the combination of company name and background variables such as gender, age and company role will increase the risk of identifying individuals in the data material. The data from the interviews with adult end-users of Snapsale can be properly anonymized and will be shared as described below.

In order to ensure confidentiality, the lists with names and reference-number to the participants will be kept separate from the empirical data. These lists will not be stored together with the main material, but stored in an isolated computer belonging to the institution conducting the different case studies, and accessible only for the person in charge of the case-study.

3.2.1 Data set description

Origin of data: The data set will provide accounts on customer-experiences with redistribution markets, including both the experiences of selling and buying products. The data in this data set will be collected and analysed by SINTEF.

Nature and scale of data: (1) Transcripts of interview data in Norwegian; (2) Data-base on selling/buying quasi-experiments in English; (3) Summaries of qualitative content analysis in English; (4) Transcripts of focus-group interviews in Norwegian (not shared outside the consortium).

To whom the data set could be useful: Outside of the consortium, the data from the interviews with adult end-users of Snapsale in its anonymized form might be useful for other researchers interested in user-experiences of redistribution markets. The interview transcripts will be in Norwegian, which limits the usefulness of the data outside of Scandinavian countries.

Scientific publication: It is our objective and plan to use the data-set as a basis for at least one scientific publication.

Existence of similar data-sets? To our knowledge qualitative data-sets on the experiential aspects of online redistribution markets are not openly available.

3.2.2 Standards and metadata

The following metadata (with indicative values) will be created:

- Author/compiler of data set: Marika Lüders, Jan Håvard Skjetne, Aslak Eide, SINTEF (may be updated)
- Funded by: [HUMANE, H2020 – 645043]
- Format: [PDF/A; excel]
- Content-data: sharing-economy, redistribution markets, second hand consumption
- Method of data accumulation: qualitative interviews, focus groups, quasi-experimental design, qualitative content analysis.
- Data collection period [from] – [to]: 15.10.2015 – 15.12.2016 (may be updated)
- Conditions of use of data: open access, free of charge.
- DOI: [assigned by Zenodo]
- Related publications [Bibliographic details of publications based on the data-set]

3.2.3 Data sharing

Access procedures: The anonymized and transcribed data from the interviews with end-users, and the data from the quasi-experiment and content analysis will be made accessible and available for re-use and secondary analysis by uploading the data to Zenodo. For the transcribed interviews, the time, location, pseudonym for each individual interview will be clearly stated.

Document format and availability: The data-set will be available as PDF/A for the transcribed interviews and summary of content analysis and excel-data base for the quasi-experimental data at <http://www.zenodo.org/collection/datasets>. From here the fully anonymized data are open accessible for anyone, free of charge.

The data will be submitted to NSD in M24 of HUMANE's project period. Before uploading data-sets, we will first have to anonymize data. We plan to anonymize the data in the final month of the project.

3.2.4 Archiving and preservation (including storage and backup)

Archiving of the anonymized data-set at Zenodo guarantees a long-term and secure preservation of the data at no additional cost for the project. Zenodo informs that "in the highly unlikely event that Zenodo will have to close operations, we guarantee that we will migrate all content to other suitable repositories, and since all uploads have DOIs, all citations and links to Zenodo resources (such as your data) will not be affected."

3.3 DS.C3.IT Innovation. eVACUATE data set

The DS.C3 data set consists of: (1) qualitative and anonymised survey responses from eVACUATE use case end-user participants from the different eVACUATE use cases on whether networks described in the HUMANE topology adequately reflect the situation in the respective use case scenarios; (2) qualitative and anonymised interview transcripts from telephone-based focus group discussions with the same eVACUATE use case end-users around any issues or concerns that may have been defined through the aforementioned survey; (3) qualitative and anonymised interview transcripts from focus groups with IT/system architects from eVACUATE using design patterns and applying the HUMANE typology to the process of system design; (4) qualitative and anonymised survey responses from eVACUATE IT/system architects, which will establish a ranking of importance of factors arising from the aforementioned focus groups; (5) summaries from the analysis of the four former sources of data.

Anonymous data are items of information that cannot in any way identify individuals in the data material directly through names or personal ID numbers, indirectly through background variables, or through a list of names / connection key or encryption formula or code. The data set will not include the name of the specific eVACUATE use cases we are studying. The combination of background variables such as gender, age, employee role in the use case and the use case name increases the risk of identifying individuals in the data material. Therefore, at this stage, we deem that withholding the aforementioned information is sufficient to ensure the privacy of participants; however, we will need to re-assess this continuously.

3.3.1 Data set description

Origin of data: The data set is collected in the HUMANE project based on responses from use case end-users and IT architects/designers from the eVACUATE project. The data in this data set will be collected and analysed by IT Innovation.

Nature and scale of data: All data is expected to be small scale, qualitative, data from approximately 10-20 participants. There are four types of data: (1) Anonymised survey responses in English; (2) anonymised interview transcripts in English; (3) anonymised focus group transcripts in English; (4) anonymised summaries of analysis.

To whom the data set could be useful: Outside of the consortium, the data in its anonymised form might be useful for other researchers interested in the experience of system end-users and system designers of using the HUMANE resources for designing human-machine networks. All data will be in English, and is, thus, widely accessible.

Scientific publication: It is our objective to use the data-set as a basis for at least two scientific publications.

Existence of similar data-sets? To our knowledge, there are no similar data-sets available, except for other data sets that will be generated in the HUMANE project.

3.3.2 Standards and metadata

The following metadata (with indicative values) will be created:

- Author/compiler of data set: Brian Pickering and Vegard Engen, University of Southampton IT Innovation Centre
- Funded by: [HUMANE, H2020 – 645043]
- Format: [PDF/A; excel]
- Content-data: evacuation, eVACUATE use cases, system design, HUMANE typology feedback and evaluation, technology-mediated collaboration, decision making for evacuation, dynamic HMN creation in crises.
- Method of data accumulation: qualitative surveys, qualitative interviews, focus groups, qualitative content analysis.
- Data collection period [from] – [to]: 01.11.2015 – 31/06/2016.
- Conditions of use of data: open access, free of charge
- DOI: [assigned by Zenodo]
- Related publications [Bibliographic details of publications based on the data-set]

3.3.3 Data sharing

Access procedures: The anonymized and transcribed data from the interviews and the anonymized collation of survey responses will be made accessible and available for re-use and secondary analysis by uploading the data to Zenodo. For the transcribed interviews, the time, location, pseudonym for each individual interview will be clearly stated.

Document format and availability: The data-set will be available as PDF/A at <http://www.zenodo.org/collection/datasets>. From here the fully anonymized data are open accessible for anyone, free of charge.

The data will be uploaded to Zenodo in M24 of HUMANE's project period. Before uploading data-sets, we will first have to anonymize data. We plan to do anonymize the data in the final month of the project.

3.3.4 Archiving and preservation (including storage and backup)

Archiving of the anonymized data-set at Zenodo guarantees a long-term and secure preservation of the data at no additional cost for the project. Zenodo informs that "in the highly unlikely event that Zenodo will have to close operations, we guarantee that we will migrate all content to other suitable repositories, and since all uploads have DOIs, all citations and links to Zenodo resources (such as your data) will not be affected.

3.4 DS.C4.ATC. REVEAL data set

The DS.C4 data-set consists of (1) qualitative and anonymized interview-transcripts with adult end-users / journalists of the REVEAL platform; (2) Summaries of qualitative content analysis; (3) Sets of data gathered from the REVEAL human – machine network, regarding the dependencies between the network's elements.

As in the data sets of the other use cases, the data will be anonymous, meaning that it cannot in any way be used in order to identify individuals in the data material directly through names or personal ID numbers, indirectly through background variables, or through a list of names / connection key or encryption formula or code.

In order to ensure confidentiality, the lists with names and reference-number to the participants will be kept separate from the empirical data. These lists will not be stored together with the main material, but stored in an isolated computer belonging to the institution conducting the different case studies, and accessible only for the person in charge of the case-study.

3.4.1 Data set description

Origin of data: The data set will provide accounts on journalists-experiences with the REVEAL platform, to be used in order to identify the credibility of several sources in the internet. The data in this data set will be collected and analysed by ATC.

Nature and scale of data: (1) Transcripts of interview data in Greek; (2) Data related to interaction between human – machine elements, in English (3) Summaries of qualitative content analysis in English.

To whom the data set could be useful: Outside of the consortium, the data in its anonymized form might be useful for other researchers interested in the investigation of sources' credibility for journalists. The interview transcripts will be in Greek, which limits the usefulness of the data outside Greece.

Scientific publication: It is our objective and plan to use the data-set as a basis for at least one scientific publication.

Existence of similar data-sets? To our knowledge qualitative data-sets on the sources' credibility for journalists are not openly available.

3.4.2 Standards and metadata

The following metadata (with indicative values) will be created:

- Author/compiler of data set: George Bravos, Eva Jaho, ATC (may be updated)
- Funded by: [HUMANE, H2020 – 645043]
- Format: [PDF/A]
- Content-data: trustworthiness, online sources credibility, Greece
- Method of data accumulation: qualitative interviews, qualitative survey.

- Data collection period [from] – [to]: 01.11.2015 – 15.12.2015 (may be updated)
- Conditions of use of data: open access, free of charge.
- DOI: [assigned by Zenodo]
- Related publications [Bibliographic details of publications based on the data-set]

3.4.3 Data sharing

Access procedures: The anonymized and transcribed data from the interviews and the anonymized collation of survey responses will be made accessible and available for re-use and secondary analysis by uploading the data to Zenodo. For the transcribed interviews, the time, location, pseudonym for each individual interview will be clearly stated.

Document format and availability: The data-set will be available as PDF/A at <http://www.zenodo.org/collection/datasets>. From here the fully anonymized data are open accessible for anyone, free of charge.

The data will be uploaded to Zenodo in M24 of HUMANE's project period. Before uploading data-sets, we will first have to anonymize data. We plan to anonymize the data in the final month of the project. At this point, the list with names and reference-number to the participants will be deleted.

3.4.4 Archiving and preservation (including storage and backup)

Archiving of the anonymized data-set at Zenodo guarantees a long-term and secure preservation of the data at no additional cost for the project. Zenodo informs that "in the highly unlikely event that Zenodo will have to close operations, we guarantee that we will migrate all content to other suitable repositories, and since all uploads have DOIs, all citations and links to Zenodo resources (such as your data) will not be affected."

3.5 DS.C5.UOXF. Wikipedia data set

Wikipedia is the focus of DS.C5. An amazing feature of Wikipedia is that every single action of its editors is tracked and recorded. This includes all edits on articles, posts on talk pages, page deletions or creations, changes in page titles, uploading multimedia files, etc. Apart from the practical advantages of this complete archiving, it is also extremely valuable from scientific point of view.

There are three main channels for collecting Wikipedia data:

- Live data: There are two convenient ways to access live data of Wikipedia. i) “Wikimedia Toolserver databases (<http://toolserver.org/>), which contains a replica of all Wikimedia wiki databases, and ii) “MediaWiki web service API” (<https://www.mediawiki.org/wiki/API>).
- Dumped data: Wikipedia also offers archived copies of its content in different formats (<http://dumps.wikimedia.org>), e.g., XML and HTML and different types, e.g., snapshots of full history of articles or a collection of latest version of all articles.
- Semantic Wikipedia: “Semantic Wikipedia”, as a general concept would be a combination of Semantic Web and WP data to provide structured data sets through query services. There are various projects providing access to Semantic WP. Examples are “DBpedia” (<http://dbpedia.org>) “Semantic MediaWiki” (<http://semantic-mediawiki.org>), and “Wikipedia XML corpus” (<http://www-connex.lip6.fr/~denoyer/wikipediaXML>), and most notably, Wikidata (<https://www.wikidata.org>).

3.5.1 Data set description

Nature and scale of data: Most of the data described above are either numeric or textual (action logs and article content respectively). The size of the data is at the order of few Tera Bytes. Therefore it is essential to use live access to publicly available replica (a few of which are named above) rather than locally host the data. The analysed datasets however can be locally host and shared with other interested parties.

To whom the data set could be useful: Outside of the consortium, other researchers with interest in analysing Wikipedia activity data can use the data packages produced in this case study.

3.5.2 Standards and metadata

The following metadata (with indicative values) will be created:

- Author/compiler of data set: Milena Tsvetkova, Ruth Garcia, Taha Yasseri, UOXF
- Funded by: [HUMANE, H2020 – 645043]
- Format: [CSV]
- Content-data: Wikipedia, collective action, editorial activity and readership
- Method of data accumulation: large-scale statistical analysis.
- Date-range coverage of dataset: 01.01.2001 – 15.12.2016
- Conditions of use of data: open access, free of charge.
- DOI: [assigned by Zenodo]

- Related publications [Bibliographic details of publications based on the data-set]

3.5.3 Data sharing

Access procedures: The linked data from different sources will be made accessible and available for re-use and secondary analysis by uploading the data to Zenodo.

Document format and availability: The data-set will be available as CSV at <http://www.zenodo.org/collection/datasets>. From here the data are open accessible for anyone, free of charge.

The data will be uploaded to Zenodo in M24 of HUMANE's project period.

3.5.4 Archiving and preservation (including storage and backup)

Archiving of the data-set at Zenodo guarantees a long-term and secure preservation of the data at no additional cost for the project. Zenodo informs that "in the highly unlikely event that Zenodo will have to close operations, we guarantee that we will migrate all content to other suitable repositories, and since all uploads have DOIs, all citations and links to Zenodo resources (such as your data) will not be affected."

3.6 DS.C6.UOXF. Zooniverse data set

DS.C6 will consider Zooniverse, the citizen science portal. The datasets used in this case study consist of logs of contributors' classification. The datasets are produced in collaboration with the Zooniverse team and they are not originally publicly available. The Zooniverse User Agreement describes how usage information (e.g. log-ins, page-requests, classifications made) are recorded and made available for collaborators to the Citizens Science Alliance (Oxford as one of the collaborators) for research purposes (see D3.1). The data sets will be anonymized, meaning no directly or indirectly identifiable information will be disclosed in the process of sharing the data through Zenodo.

3.6.1 Data set description

Nature and scale of data: The dataset under study consist of logs of 3.5 years of 35,000,000 contributions to 17 projects of Zooniverse by 345,000 users form 198 countries.

To whom the data set could be useful: This is a unique dataset in the area of citizen science studies. No project has been growing at this scale and no aggregate data at this size is publicly available.

3.6.2 Data sharing

Access procedures: The anonymized will be made accessible and available for re-use and secondary analysis by uploading the data to Zenodo.

Document format and availability: The data-set will be available as CSV at <http://www.zenodo.org/collection/datasets>. From here the fully anonymized data are open accessible for anyone, free of charge.

The data will be uploaded to Zenodo in M24 of HUMANE's project period.

3.6.3 Standards and metadata

The following metadata (with indicative values) will be created:

- Author/compiler of data set: Taha Yasseri, UOXF.
- Funded by: [HUMANE, H2020 – 645043]
- Format: [CSV]
- Content-data: Citizen science, large-scale collaboration, crowdsourcing
- Method of data accumulation: large scale statistical analysis.
- Date-range coverage of dataset: 09.11.2009 – 01.06.2013.
- Conditions of use of data: open access, free of charge.
- DOI: [assigned by Zenodo]
- Related publications [Bibliographic details of publications based on the data-set]

3.6.4 Archiving and preservation (including storage and backup)

Archiving of the anonymized data-set at Zenodo guarantees a long-term and secure preservation of the data at no additional cost for the project. Zenodo informs that "in the highly unlikely event that Zenodo will have to close operations, we guarantee that we will migrate all content to other suitable repositories, and since all uploads have DOIs, all citations and links to Zenodo resources (such as your data) will not be affected."

3.7 DS.C7.ATC. Roadmap data set

The DS.C7 data-set consists of the anonymized raw-data from a survey of practitioners we foresee to be the target-groups for the roadmap. The survey will be developed to systematize knowledge on stakeholder needs, expectations and previous experiences with human-machine networks. The survey will likely include a combination of closed and open survey-questions.

The survey data set will be anonymized, meaning that it cannot in any way be used in order to identify individuals in the data material directly through names or personal ID numbers, indirectly through background variables, or through a list of names / connection key or encryption formula or code.

3.7.1 Data set description

Origin of data: The data set is collected in the HUMANE project, and is based on the planned survey to be conducted approximately in month 18 of the project. The data in this data set will be collected and analysed by ATC and IT Innovation.

Nature and scale of data: We aim to reach out to as many respondents as possible. The data will be available as a CSV file and can hence be accessible and read with e.g. excel and SPSS.

To whom the data set could be useful: Outside of the consortium, the data in its anonymized form might be useful for other researchers interested in the design and implementation of roadmaps related to the operation of human – machine networks.

Scientific publication: It is our objective to use the data-set as a basis for at least one scientific publication.

Existence of similar data-sets? To our knowledge qualitative data-sets related to the design of roadmaps for the implementation of human – machine networks are not openly available.

3.7.2 Standards and metadata

The following metadata will be created:

- Author/compiler of data set: Person with main responsibility compiling data set to be decided, ATC.
- Funded by: [HUMANE, H2020 – 645043]
- Format: [CSV]
- Content-data: human – machine networks operation, roadmaps
- Method of data accumulation: Survey
- Data collection period [from] – [to]: 01.09.2016 – 01.11.2016.
- Conditions of use of data: open access, free of charge.
- DOI: [assigned by Zenodo]
- Related publications [Bibliographic details of publications based on the data-set]

3.7.3 Data sharing

Access procedures: The data gathered from all case studies will be made accessible and available for re-use and secondary analysis by uploading the data to Zenodo.

Document format and availability: The data-set will be available as a CSV-file at <http://www.zenodo.org/collection/datasets>. From here the fully anonymized data are open accessible for anyone, free of charge.

The data will be uploaded to Zenodo in M24 of HUMANE's project period. Before uploading data-sets, we will first have to anonymize data. We plan to do anonymize the data in the final month of the project.

3.7.4 Archiving and preservation (including storage and backup)

Archiving of the anonymized data-set at Zenodo guarantees a long-term and secure preservation of the data at no additional cost for the project. Zenodo informs that "in the highly unlikely event that Zenodo will have to close operations, we guarantee that we will migrate all content to other suitable repositories, and since all uploads have DOIs, all citations and links to Zenodo resources (such as your data) will not be affected.

4 Open access to publications

Any publications from HUMANE must be available as open access. Open access to publications can be ensured either by publishing in Gold open access journals or Green open access journals.

Gold open access means the article is available as open access by the scientific publisher. Some journals require an author processing fee for publishing open access.

Green open access or self-archiving means that the published article or the final peer-reviewed manuscript is archived by the researcher in an online repository (such as Zenodo), in most cases after its publication. Most journals within the social sciences and humanities domains require authors to delay self-archiving to repositories to 12 months after the article first being published.

In the HUMANE project, author publishing fees for gold open access journals can be reimbursed within the project period and budget. There are however a very good selection of relevant gold open access and green open access journals available that do not charge author processing fees. Scholarly publication can take a very long time, and final acceptance of all submitted manuscripts may not occur before the end of the HUMANE project. For these reasons, we will prioritize to submit our work to gold open access journals without author processing fees or green open access journals.

4.1 Gold open access journals without author processing fees

Table 2 gives an overview of relevant HUMANE-relevant gold open access journals without author processing fees.

Table 2: HUMANE-relevant Gold open access journals with no author processing charges

Journal	Link and description
Big Data & Society	<p>http://bds.sagepub.com/</p> <p>Big Data & Society is an open access peer-reviewed scholarly journal that publishes interdisciplinary work principally in the social sciences, humanities and computing and their intersections with the arts and natural sciences about the implications of Big Data for societies.</p> <p>This journal is of particular interest for publishing work from WP3.</p> <p>For an introductory period any publication fee will be waived in order to allow the journal to establish itself.</p>
Complex & Intelligent Systems	<p>http://www.springer.com/engineering/journal/40747</p> <p>A SpringerOpen journal, which aims to provide a forum for presenting and discussing novel approaches, tools and techniques meant for attaining a cross-fertilization between the broad fields of complex systems, computational simulation, and intelligent analytics and visualization. This journal is of particular interest for publishing work in</p>

	Task 3.4, for example.
Computational Cognitive Science	<p>http://www.computationalcognitivescience.com/</p> <p>A SpringerOpen journal, which focuses on cross-disciplinary research pertaining to any aspects of computational modelling of cognitive theories and implementation of intelligent systems. This journal may be of interest for publishing work from WP2 on the HUMANE typology, for example.</p>
Digital Humanities Quarterly (DHQ)	<p>http://www.digitalhumanities.org/dhq/</p> <p>Digital humanities is a diverse and still emerging field that encompasses the practice of humanities research in and through information technology, and the exploration of how the humanities may evolve through their engagement with technology, media, and computational methods.</p> <p>This journal is of particular interest for publishing work from WP3.</p>
European Journal of Futures Research	<p>http://www.springer.com/philosophy/journal/40309</p> <p>A SpringerOpen journal, which has got a very broad scope aiming to strengthen networking and community building among European scholars. The journal invites papers pertaining to society, politics, economy, and science and technology.</p> <p>This journal is of interest for publishing work from WP4 on the roadmap of future human-machine networks, for example.</p>
Fibreculture Journal	<p>http://fibreculturejournal.org/</p> <p>Digital media + networks + transdisciplinary critique</p> <p>The journal serves wider social formations across the international community, working with those thinking critically about, and working with, contemporary digital and networked media.</p> <p>This journal is of particular interest for publishing work from WP3.</p>
First Monday	<p>http://journals.uic.edu/ojs/index.php/fm/index</p> <p>First Monday is one of the first openly accessible, peer-reviewed journals on the Internet, solely devoted to the Internet.</p> <p>This journal is of particular interest for publishing work from WP2, WP3 and also WP4 considering the wide readership of the journal.</p>
Human-centric Computing and	<p>http://www.hcis-journal.com/</p> <p>A SpringerOpen journal, which publishes papers on human-centric</p>

Information Sciences	<p>computing and information sciences, covering many aspects of work in the HUMANE project, such as human-computer interaction, social computing and social intelligence, and privacy, security and trust management. Therefore, a journal well suited for publishing a range of research outputs from HUMANE.</p>
Human Technology	<p>http://www.humantechnology.jyu.fi/</p> <p>Human Technology is an interdisciplinary, multi-scientific journal focusing on the human aspects of our modern technological world. The journal provides a forum for innovative and original research on timely and relevant topics with the goal of exploring current issues regarding the human dimension of evolving technologies and providing new ideas and effective solutions for addressing the challenges.</p> <p>This journal is of particular interest for publishing work from WP2 and WP3.</p>
International Journal of Communication	<p>http://ijoc.org/index.php/ijoc</p> <p>The International Journal of Communication is an interdisciplinary journal that, while centred in communication, is open and welcoming to contributions from the many disciplines and approaches that meet at the crossroads that is communication study.</p> <p>This journal is of particular interest for publishing work from WP2 and WP3.</p>
International Journal of Internet Science	<p>http://www.ijis.net/</p> <p>The International Journal of Internet Science is an interdisciplinary, peer reviewed journal for the publication of research articles about empirical findings, methodology, and theory in the field of Internet Science. It provides an outlet for articles on the Internet as a medium of research and its implications for individuals, social groups, organizations, and society. Typical articles report empirical results gathered to test and advance theories in the social and behavioural sciences.</p> <p>This journal is of particular interest for publishing work from WP2 and WP3.</p>
Journal of Community Informatics	<p>http://ci-journal.net/index.php/ciej</p> <p>Community Informatics (CI) is the study and the practice of enabling communities with Information and Communications Technologies (ICTs). CI seeks to work with communities towards the effective use of ICTs to improve their processes, achieve their objectives, overcome the "digital divides" that exist both within and between communities, and</p>

	<p>empower communities and citizens in the range of areas of ICT application including for health, cultural production, civic management, and e-governance, among others.</p> <p>This journal is of particular interest for publishing work from WP3.</p>
Journal of Computer-Mediated Communication	<p>http://onlinelibrary.wiley.com/journal/10.1111/(ISSN)1083-6101</p> <p>The Journal of Computer-Mediated Communication (JCMC) is a web-based, peer-reviewed scholarly journal. Its focus is social science research on communicating with computer-based media technologies. Within that general purview, the journal is broadly interdisciplinary, publishing work by scholars in communication, business, education, political science, sociology, psychology, media studies, information science, and other disciplines.</p> <p>This journal is of particular interest for publishing work from WP2 and WP3, also as continuing the advancements made in WP1.</p>
Journal of Media Innovations	<p>https://www.journals.uio.no/index.php/TJMI</p> <p>The Journal of Media Innovations is an open access journal that explores changes in media technologies, media policies, organizational structures, media management, media production, journalism, media services, and usages.</p> <p>This journal is of particular interest for publishing work from WP2.</p>
Journal of Virtual Worlds Research	<p>http://jvwresearch.org/</p> <p>The Journal of Virtual Worlds Research is a transdisciplinary journal that engages a wide spectrum of scholarship and welcomes contributions from the many disciplines and approaches that intersect virtual worlds research.</p> <p>This journal is of particular interest for publishing work from WP3.</p>
M/C Journal	<p>http://journal.media-culture.org.au/index.php/mcjournal/</p> <p>M/C Journal is a journal for public intellectualism analysing and critiquing the meeting of media and culture. M/C Journal takes seriously the need to move ideas outward, so that our cultural debates may have some resonance with wider political and cultural interests. Each issue is organised around a one word theme, and is edited by one or two guest editors with a particular interest in that theme. Each issue has a feature article which engages with the theme in some detail, followed by several shorter articles.</p> <p>HUMANE will need to keep track of call for papers to see whether any</p>

	future special issues are of relevance for our work.
MedieKultur	<p>http://ojs.statsbiblioteket.dk/index.php/mediekultur/index</p> <p>The aim of MedieKultur is to contribute to critical reflection and the development of theories and methods within media and communication research. MedieKultur publishes works of relevance to the community of researchers in Denmark exploring media and communication in political, economic, cultural, historic, aesthetic and social contexts. MedieKultur publishes theme issues with the aim of bringing Danish and international media and communication research into dialogue. Accordingly, MedieKultur is a publication forum for Danish and international researchers.</p> <p>This journal is of particular interest for publishing work from WP2 and WP3.</p>
Nordicom Review	<p>http://www.nordicom.gu.se/sv/publikationer/nordicom-review</p> <p>Nordicom Review, a refereed journal, provides a major forum for media and communication researchers in the Nordic countries. This semi-annual and blind peer-reviewed journal (hard copy and open access) is addressed to the international scholarly community with articles published in English. It publishes the best of media and communication research in the region, as well as theoretical works in all its diversity; it seeks to reflect the great variety of intellectual traditions in the field and to facilitate a dialogue between them.</p> <p>This journal is of particular interest for publishing work from WP3.</p>
Observatorio (OBS*)	<p>http://obs.obercom.pt/index.php/obs/index</p> <p>Observatorio (OBS*) is an interdisciplinary journal that welcomes contributions coming from and speaking to the many disciplines and approaches that meet at the crossroads that is Communication Studies, and is open to several publishing languages such as Portuguese, Spanish, Catalan, Galician, Italian, French, and English.</p>
Social Media + Society	<p>https://uk.sagepub.com/en-gb/eur/social-media-society/journal202332</p> <p>Social Media + Society is an open-access, peer-reviewed scholarly journal that focuses on the socio-cultural, political, historic, economic, legal and policy dimensions of social media in societies past, contemporary and future. It publishes interdisciplinary work that draws from the social sciences, humanities and computational social sciences, reaches out to the arts and natural sciences, and endorses mixed methods and methodologies. The journal is open to a diversity of</p>

	<p>theoretic paradigms and methodologies.</p> <p>This journal is of particular interest for publishing work from WP2 and WP3.</p> <p>For an extended introductory period all APCs will be waived [no publication fee], a policy that will be reviewed as the journal establishes itself.</p>
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4.2 Green open access journals

Journals are increasingly allowing authors to self-archive the final peer-reviewed manuscript in repositories (Green open access). Table 3 gives an overview of only some of these journals, and only those with a maximum embargo-period of 12 months. Before taking any decisions of where to submit a manuscript, all involved HUMANE researchers will be required to ensure the green open access policy of the journal complies with the requirements posed on H2020 open data access projects: authors must be allowed to self-archive the final peer-reviewed article at the latest 12 months after publication.

Most of the journals listed in Table 3 also offer the opportunity to publish open access with author processing fees, yet these journals are not repeated in Table 4, which lists HUMANE-relevant gold open access journals with APC.

Table 3: HUMANE-relevant journals with green open access after embargo period

Journal	Link and brief description	Embargo period
CoDesign	<p>http://www.tandfonline.com/toc/ncdn20/current</p> <p>CoDesign is inclusive, encompassing collaborative, co-operative, concurrent, human-centred, participatory, socio-technical and community design among others. Research in any design domain concerned specifically with the nature of collaboration design is of relevance to the Journal.</p> <p>This journal is of particular interest for publishing work from WP2.</p>	12 months
Computer Journal	<p>http://comjnl.oxfordjournals.org/</p> <p>The Computer journal serves all branches of the academic computer science community, and publishes in four sections: Computer Science Theory, Methods and Tools; Computer and Communications Networks and Systems; Computational Intelligence, Machine Learning and Data Analytics; Security in Computer Systems and Networks.</p>	12 months

	<p>This journal is of particular interest for publishing work from WP3.</p> <p>Authors may upload their accepted manuscript PDF (version before being copyedited) to an institutional and/or centrally organized repository, provided that public availability is delayed until 12 months after first online publication in the journal.</p>	
Computing Surveys	<p>http://csur.acm.org/</p> <p>The primary purpose of the ACM Computing Surveys is to present new specialties and help practitioners and researchers stay abreast of all areas in the rapidly evolving field of computing. Computing Surveys focuses on integrating and adding understanding to the existing literature. This is accomplished by publishing surveys, tutorials, and symposia on special topics of interest to the membership of ACM.</p> <p>This journal is of particular interest for publishing work from WP1.</p>	0 months
Convergence	<p>http://con.sagepub.com/</p> <p>Convergence is a quarterly, peer-reviewed academic journal that publishes leading research addressing the creative, social, political and pedagogical issues raised by the advent of new media technologies. It provides an international, interdisciplinary forum for research exploring the reception, consumption and impact of new media technologies in domestic, public and educational contexts.</p> <p>This journal is of particular interest for publishing work from WP3.</p> <p>Original submission to the journal with revisions after peer review can be uploaded to a repository (such as Zenodo).</p>	12 months
Cyber-Physical systems	<p>http://www.tandfonline.com/toc/tcyb20/1/1</p> <p>Cyber-Physical Systems is an international interdisciplinary journal dedicated to publishing the highest quality research in the rapidly-growing field of cyber-physical systems / Internet-of-Things.</p> <p>This journal is of particular interest for publishing work from</p>	12 months

	<p>WP2.</p> <p>Publications will cover theory, algorithms, simulations, architectures, implementations, services and applications of state-of-the-art research in this exciting field.</p>	
European Journal of Work and Organizational Psychology	<p>http://www.tandfonline.com/toc/pewo20/current</p> <p>The mission of the European Journal of Work and Organizational Psychology is to promote and support the development of Work and Organizational Psychology by publishing high-quality scientific articles that improve our understanding of phenomena occurring in work and organizational settings. The journal publishes empirical, theoretical, methodological, and review articles that are relevant to real-world situations.</p> <p>This journal is of particular interest for publishing work from WP3.</p>	12 months
Human-Computer Interaction	<p>http://www.tandfonline.com/toc/hhci20/current</p> <p>Human- Computer Interaction (HCI) is a multidisciplinary journal defining and reporting on fundamental research in human5computer interaction. The goal of HCI is to be a journal of the highest-quality that combines the best research and design work to extend our understanding of human-computer interaction. The target audience is the research community with an interest in both the scientific implications and practical relevance of how interactive computer systems should be designed and how they are actually used. HCI is concerned with the theoretical, empirical, and methodological issues of interaction science and system design as it affects the user.</p> <p>This journal is of particular interest for publishing work from WP2.</p>	12 months
Human Performance	<p>http://www.tandfonline.com/toc/hhup20/current</p> <p>Human Performance publishes research investigating the nature and role of performance in the workplace and in organizational settings and offers a rich variety of information going beyond the study of traditional job behavior. Dedicated to presenting original research, theory, and measurement methods, the journal investigates</p>	12 months

	<p>individual, team, and firm level performance factors that influence work and organizational effectiveness.</p> <p>This journal is of particular interest for publishing work from WP3.</p>	
Information Systems Management	<p>http://www.tandfonline.com/toc/uism20/current</p> <p>Information Systems Management (ISM) is the on-going exchange of academic research, best practices, and insights based on managerial experience. The journal's goal is to advance the practice of information systems management through this exchange.</p> <p>The target readership includes both academics and practitioners. Hence, submissions integrating research and practice, and providing implications for both, are encouraged.</p> <p>This journal is of particular interest for publishing work from WP2.</p>	12 months
Information Society	<p>http://www.indiana.edu/~tisi/</p> <p>The Information Society (TIS) journal, published since 1981, is a key critical forum for leading edge analysis of the impacts, policies, system concepts, and methodologies related to information technologies and changes in society and culture. Some of the key information technologies include computers and telecommunications; the sites of social change include homelife, workplaces, schools, communities and diverse organizations, as well as new social forms in cyberspace.</p> <p>This journal is of particular interest for publishing work from WP3.</p>	0 months
Interacting with Computers	<p>http://iwc.oxfordjournals.org/</p> <p>Interacting with Computers is the interdisciplinary journal of Human-Computer Interaction. Topics covered include: HCI and design theory; new research paradigms; interaction process and methodology; user interface, usability and UX design; development tools and techniques; empirical evaluations and assessment strategies; new and emerging technologies; ubiquitous, ambient and mobile interaction; accessibility, user modelling and intelligent systems;</p>	12 months

	<p>organisational and societal issues.</p> <p>This journal is of particular interest for publishing work from WP2.</p> <p>Authors may upload their accepted manuscript PDF (version before being copyedited) to an institutional and/or centrally organized repository, provided that public availability is delayed until 12 months after first online publication in the journal.</p>	
Internet Mathematics	<p>http://www.tandfonline.com/toc/uim20/current</p> <p>Internet Mathematics publishes conceptual, algorithmic, and empirical papers focused on large, real-world complex networks such as the web graph, the Internet, online social networks, and biological networks. The journal accepts papers of outstanding quality focusing on either theoretical or experimental work, and encourages submissions which have a view toward real-life applications.</p> <p>This journal is of particular interest for publishing work from WP3.</p>	12 months
Journal of Complex Networks	<p>http://comnet.oxfordjournals.org/</p> <p>The Journal of Complex Networks publishes original articles and reviews with a significant contribution to the analysis and understanding of complex networks and its applications in diverse fields. Complex networks are loosely defined as networks with nontrivial topology and dynamics, which appear as the skeletons of complex systems in the real-world.</p> <p>This journal is of particular interest for publishing work from WP2 and WP3, also as continuing the advancements made in WP1.</p> <p>Authors may upload their accepted manuscript PDF (version before being copyedited) to an institutional and/or centrally organized repository, provided that public availability is delayed until 12 months after first online publication in the journal.</p>	12 months
International Journal of Design Creativity and	<p>http://www.tandfonline.com/toc/tdci20/current</p> <p>The International Journal of Design Creativity and Innovation is an international publication that provides a forum for</p>	12 months

Innovation	<p>discussing the nature and potential of creativity and innovation in design from both theoretical and practical perspectives.</p> <p>Design creativity and innovation is an interdisciplinary academic research field that will interest and stimulate researchers of engineering design, industrial design, architecture, art, and similar areas. The journal aims to not only promote existing research disciplines but also pioneer a new one that lies in the intermediate area between the domains of systems engineering, information technology, computer science, social science, artificial intelligence, cognitive science, psychology, philosophy, linguistics, and related fields.</p> <p>This journal is of particular interest for publishing work from WP2.</p>	
International Journal of Human-Computer Interaction	<p>http://www.tandfonline.com/toc/hihc20/current</p> <p>The International Journal of Human-Computer Interaction addresses the cognitive, creative, social, health, and ergonomic aspects of interactive computing.</p> <p>It emphasizes the human element in relation to the systems and contexts in which humans perform, operate, network, and communicate, including mobile apps, social media, online communities, and digital accessibility. The journal publishes original articles including reviews and reappraisals of the literature, empirical studies, and quantitative and qualitative contributions to the theories and applications of HCI.</p> <p>This journal is of particular interest for publishing work from WP2.</p>	12 months
Journalism	<p>http://jou.sagepub.com/</p> <p>Journalism is a major international, peer-reviewed journal that provides a dedicated forum for articles from the growing community of academic researchers and critical practitioners with an interest in journalism. The journal is interdisciplinary and publishes both theoretical and empirical work and contributes to the social, economic, political, cultural and practical understanding of journalism. It includes contributions on current developments and</p>	12 months

	<p>historical changes within journalism.</p> <p>This journal is of particular interest for publishing work from WP3.</p> <p>Original submission to the journal with revisions after peer review can be uploaded to a repository (such as Zenodo).</p>	
Journal of Control and Decision	<p>http://www.tandfonline.com/loi/tjcd20</p> <p>The primary aim of the Journal of Control and Decision (JCD) is to provide a platform for scientists, engineers and practitioners throughout the world to present the latest advancement in control, decision, automation, robotics and emerging technologies.</p> <p>JCD will cover both theory and application in all the areas of these disciplines.</p> <p>This journal is of particular interest for publishing work from WP2.</p>	12 months
Journal of Information Privacy and Security	<p>http://www.tandfonline.com/toc/uips20/11/1</p> <p>The Journal of Information Privacy and Security (JIPS) serves as a reliable source on issues of information privacy and security for both academics and practitioners. The journal is a refereed journal of high quality that seeks support from academicians, industry experts and specific government agencies.</p> <p>The journal focuses on publishing articles that address the paradoxical nature of privacy versus security amidst current global conditions. It is increasingly important that various constituents of information begin to understand their role in finding the delicate balance of security and privacy.</p> <p>This journal is of particular interest for publishing work from WP3.</p>	0 months
Journal of Information Technology Case and Application Research	<p>http://www.tandfonline.com/loi/utca20</p> <p>The Journal of Information Technology Case and Application Research (JITCAR) publishes case-based research on the application of information technology and information systems to the solution of organizational problems.</p> <p>Research articles may focus on public, private, or governmental organizations of any size, from start-up</p>	0 months

	<p>through multinational. The research can focus on any type of application, issue, problem or technology, including, for example, artificial intelligence, business process reengineering, cross-cultural issues, cybernetics, decision support systems, electronic commerce, enterprise systems, groupware, the human side of IT, information architecture, joint application development, knowledge based systems, local area networks, management information systems, office automation, outsourcing, prototyping, robotics, security, social networking, software as a service, supply chain management, systems analysis, telemedicine, ubiquitous computing, video-conferencing, and Web 2.0.</p> <p>This journal is of particular interest for publishing work from WP2 and WP3.</p>	
Journal of Responsible Innovation	<p>http://www.tandfonline.com/loi/tjri20</p> <p>The Journal of Responsible Innovation (JRI) provides a forum for discussions of the normative assessment and governance of knowledge-based innovation. JRI offers humanists, social scientists, policy analysts and legal scholars, and natural scientists and engineers an opportunity to articulate, strengthen, and critique the relations among approaches to responsible innovation, thus giving further shape to a newly emerging community of research and practice. These approaches include ethics, technology assessment, governance, sustainability, socio-technical integration, and others.</p> <p>This journal is of particular interest for publishing work from WP4.</p>	12 months
Media, Culture & Society	<p>http://mcs.sagepub.com/</p> <p>Media, Culture & Society provides a major international, peer-reviewed forum for the presentation of research and discussion concerning the media, including the newer information and communication technologies, within their political, economic, cultural and historical contexts. It regularly engages with a wider range of issues in cultural and social analysis. Its focus is on substantive topics and on critique and innovation in theory and method. An interdisciplinary journal, it welcomes contributions in any</p>	12 months

	<p>relevant areas and from a worldwide authorship.</p> <p>This journal is of particular interest for publishing work from WP3 also as continuing the advancements made in WP1.</p> <p>Original submission to the journal with revisions after peer review can be uploaded to a repository (such as Zenodo).</p>	
New media & society	<p>http://nms.sagepub.com/</p> <p>New Media & Society is a top-ranked, peer-reviewed, international journal that publishes key research from communication, media and cultural studies, as well as sociology, geography, anthropology, economics, the political and information sciences and the humanities.</p> <p>This journal is of particular interest for publishing work from WP3 also as continuing the advancements made in WP1.</p> <p>Original submission to the journal with revisions after peer review can be uploaded to a repository (such as Zenodo).</p>	12 months
New Review of Hypermedia and Multimedia	<p>The New Review of Hypermedia and Multimedia (NRHM) is a world-leading interdisciplinary journal providing a focus for research covering practical and theoretical developments in hypermedia, hypertext, and interactive multimedia.</p> <p>Topics include, but are not limited to the conceptual basis of hypertext systems, cognitive aspects, design strategies, intelligent and adaptive hypermedia, user interfaces, physical hypermedia, individual, social and societal implications.</p> <p>This journal is of particular interest for publishing work from WP2.</p>	12 months
Theory, Culture & Society	<p>http://tcs.sagepub.com/</p> <p>Theory, Culture & Society is a highly ranked, high impact factor, rigorously peer reviewed journal that publishes original research and review articles in the social and cultural sciences. Launched to cater for the resurgence of interest in culture within contemporary social science, it provides a forum for articles which theorize the relationship between culture and society.</p> <p>This journal is of particular interest for publishing work from WP3 also as continuing the advancements made in WP1.</p>	12 months

	Original submission to the journal with revisions after peer review can be uploaded to a repository (such as Zenodo).	
Transactions on Computer-Human Interactions	<p>http://tochi.acm.org/</p> <p>TOCHI publishes archival research papers in the following major areas.</p> <ul style="list-style-type: none"> • Studying new hardware and software architectures for building human-computer interfaces • Studying new interactive techniques, metaphors and evaluation • Studying processes and techniques for designing human-computer interfaces • Studying users and groups of users to understand their needs <p>This journal is of particular interest to publish work from WP2.</p>	0 months
Transactions on Interactive Intelligent Systems	<p>http://tiis.acm.org/</p> <p>The journal publishes articles on research concerning the design, realization, or evaluation of interactive systems that incorporate some form of machine intelligence.</p> <p>TiiS articles come from a wide range of research areas and communities. An article can take any of several complementary views of interactive intelligent systems, focusing on:</p> <ul style="list-style-type: none"> • the intelligent technology, • the interaction of users with the system, or • both aspects at once. <p>This journal is of particular interest to publish work from WP3.</p>	0 months

4.3 Gold open access journals with author processing fees

As described in section 4.2, many green open access journals also provide gold open access with APC. These journals are not repeated in this section, as we will if submitting and being accepted in these journals opt for green open access.

Table 4: Gold open access journal with author processing fees (APCs)

Journal	Link and brief description	APC
International Journal of Computer Science Issues	<p>http://www.ijcsi.org/</p> <p>The International Journal of Computer Science Issues (IJCSI) is a venue for publishing high quality research papers as recognised by various universities and international professional bodies. IJCSI is a refereed open access international journal for publishing scientific papers in all areas of computer science research.</p> <p>This journal is of particular interest for publishing work from WP3.</p>	USD 190
Journal of ICT Research and Applications	<p>http://journals.itb.ac.id/index.php/jictra</p> <p>Journal of ICT Research and Applications welcomes full research articles in the area of Information and Communication Technology from the following subject areas: Information Theory, Signal Processing, Electronics, Computer Network, Telecommunication, Wireless & Mobile Computing, Internet Technology, Multimedia, Software Engineering, Computer Science, Information System and Knowledge Management.</p> <p>This journal is of particular interest for publishing work from WP3.</p>	USD 100
Journal of Communications	<p>http://www.jocm.us/</p> <p>JCM is a scholarly peer-reviewed international scientific journal published monthly, focusing on theories, systems, methods, algorithms and applications in communications.</p> <p>This journal is of particular interest for publishing work from WP3.</p>	USD 590
Media and Communication	<p>http://cogitatiopress.com/ojs/index.php/mediaandcommunication/</p> <p>Media and Communication is concerned with the social development and contemporary transformation of media and communication and critically reflects on their interdependence with global, individual, media, digital, economic and visual processes of change and innovation. Contributions ponder the social, ethical, and cultural conditions, meanings and consequences of media, the public sphere and organizational as well as interpersonal communication and their complex interrelationships.</p> <p>This journal is of particular interest for publishing work from WP3.</p>	EURO 800

5 Conclusions

In this DMP we have described the requirements imposed on HUMANE as a participant in the Open Research Data pilot with regard to open access to research data and open access to publications. The project partners have decided to use Zenodo as the open project and publication repository, and to link the repository to a HUMANE project site at OpenAIRE.

Chapter 3, which describes the data sets following the Horizon 2020 template, is the most important part of the DMP. These descriptions will likely need to be revised to provide updated versions as the HUMANE project evolves. A version two of the DMP was not initially planned, yet we believe this is required as the DMP should be a living document. Although we have attempted to take into consideration the data management life cycle for the data sets to be collected and processed by HUMANE, it is very likely that additions and changes may be needed.

This DMP also includes the results of a review of HUMANE-relevant open access journals, with an emphasis on gold open access journals without APC and green open access journals with an embargo period of a maximum of 12 months. This review has resulted in a considerable amount of relevant journals, demonstrating the wide variety of open access dissemination channels possible for the HUMANE activities. The listed publications venues are not complete and other journals may be identified as the project progresses. For each planned publication we will consider which journals will be the most appropriate first choices for publication.

6 References

European Commission (2013a). Guidelines on Open Access to Scientific Publications and Research Data in Horizon 2020.

European Commission (2013b). Guidelines for Data Management in Horizon 2020, Version 1.0.

European University Institute (2015). Research Data Guide, Version 3.0. Retrieved from <http://www.eui.eu/Documents/Research/Library/ResearchGuides/Economics/PDFs/EUIResearchDataServicesGuide3.0July2015.pdf>

7 Appendix: Data set description template

7.1 DS.CX.PARTNER. TITLE data set

General description

7.1.1 Data set description

"Description of the data that will be generated or collected, its origin (in case it is collected), nature and scale and to whom it could be useful, and whether it underpins a scientific publication.

Information on the existence (or not) of similar data and the possibilities for integration and reuse."

7.1.2 Standards and metadata

"Reference to existing suitable standards of the discipline. If these do not exist, an outline on how and what metadata will be created."

The following metadata (with indicative values) will be created:

- Author/compiler of data set: [name and institution]
- Funded by: [HUMANE, H2020 – 645043]
- Format: [PDF/A; CSV, Excel, JPEG etc.]
- Content-data: [Key-words]
- Method of data accumulation: [Methods used to gather data].
- Data collection period [from] – [to]: dd.mm.yyyy - dd.mm.yyyy.
- Conditions of use of data: [e.g. open access, free of charge]
- DOI: [assigned by Zenodo]
- Related publications [Bibliographic details of publications based on the data-set.

7.1.3 Data sharing

"Description of how data will be shared, including access procedures, embargo periods (if any), outlines of technical mechanisms for dissemination and necessary software and other tools for enabling re-use, and definition of whether access will be widely open or restricted to specific groups. Identification of the repository where data will be stored, if already existing and identified, indicating in particular the type of repository (institutional, standard repository for the discipline, etc.).

In case the dataset cannot be shared, the reasons for this should be mentioned (e.g. ethical, rules of personal data, intellectual property, commercial, privacy-related, security-related)."

7.1.4 Archiving and preservation (including storage and backup)

"Description of the procedures that will be put in place for long-term preservation of the data.

Indication of how long the data should be preserved, what is its approximated end volume, what the associated costs are and how these are planned to be covered."