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FELICE will apply data anonymization techniques to guarantee the preservation of anonymity of the users' sensitive and personal data. Anonymization or pseudonymization will be applied to the data before their transmission to partners of the consortium and dissemination. At the end of the data retention period, full anonymization and data sanitization methods shall be applied.

### 3.9 Repositories

Four different repositories are used by FELICE for communication, organization/management and data storage. These repositories are the project website, the project repository, the cloud service and the Zenodo<sup>13</sup> platform. Additional internal communication tools that might be used by the consortium partners are independent and are not considered as repositories of the project. In the following section the repositories used by the project are further analysed.

#### 3.9.1 FELICE Website

The FELICE website (<https://www.felice-project.eu/>) will be a channel for communication and for releasing publicly datasets of the project. It will contain information about the project, including public project details, news, events, dissemination and communication materials (e.g., flyers, posters, papers) as well as public deliverables. The website will also provide access to several public project datasets or refer visitors to the Zenodo repository.

The FELICE website is hosted by UNISA on an Ubuntu 20.04 LTS virtual server. The service is ensured by Nginx over HTTPs and the database is hosted on the same server. A backup of the database and the pages is performed daily to remote server at UNISA, hosted on a different physical server. The website is developed and maintained in compliance with the most modern and strict security requirements and guidelines. It will also be designed in accordance with the provisions regarding respect for user privacy deriving from the applicable EU regulations (as enlisted in the FELICE deliverable D1.3 "Ethics and Privacy Manual"). FELICE website will be made available during the project and for at least five years after the project end.

#### 3.9.2 FELICE SVN Repository<sup>14</sup>

The FELICE SVN repository will be the repository that will accumulate all the project data, including open, embargoed and restricted ones, while

<sup>13</sup> <https://zenodo.org>

<sup>14</sup> <http://subversion.apache.org>



not making them publicly available. This repository is a safe, password-protected repository that will only have internal use between the authenticated and authorized FELICE members. Therefore, the repository can be used by all partners to store and manage data. The FELICE repository is managed by ICCS and will be available during and five years after the completion of the project.

### 3.9.3 FELICE Large Seafile File Store<sup>15</sup>

The Large Seafile file store is a cloud service that will share large files within the FELICE consortium. It is a safe, password-protected service, which will be accessible only by the authenticated and authorized FELICE members. It will accommodate all the large files (like videos, images, multimedia files etc.) that are cumbersome to be stored in the SVN repository. Each partner will have their own folder for sharing their data and will be personally responsible for their management.

### 3.9.4 Zenodo

FELICE will also provide publicly available datasets, using an online platform. In fact, the platform that will be used for this repository will be the Zenodo platform, which is a general-purpose open-access repository operated by CERN<sup>16</sup>. It stores files and metadata, provides version control and assigns DOIs to all uploaded elements. Zenodo is an open and accessible repository that enables access to data without restrictions and retains datasets for the lifetime of the repository, which is at least 20 years<sup>17</sup>. It uses a JSON schema as the internal representation of metadata and offers export to other formats such as Dublin Core<sup>18</sup>, MARCXML<sup>19</sup>, BibTeX<sup>20</sup>, CSL<sup>21</sup>, DataCite<sup>22</sup> and Mendeley<sup>23</sup>. The data record metadata will make usage of the vocabularies applied by Zenodo and reference to any external metadata will be done with a resolvable URL.

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<sup>15</sup> <https://storage.felice-project.eu>

<sup>16</sup> <https://about.zenodo.org/infrastructure/>

<sup>17</sup> <https://about.zenodo.org/policies/>

<sup>18</sup> <https://dublincore.org/>

<sup>19</sup> <https://www.loc.gov/standards/marcxml/>

<sup>20</sup> <http://www.bibtex.org/>

<sup>21</sup> <https://citationstyles.org/>

<sup>22</sup> <https://datacite.org/>

<sup>23</sup> <https://www.mendeley.com/>

## 4 FAIR Data

FELICE, as a Horizon 2020 funded project that participates in the ORD pilot, will release its publicly available data in such a manner to comply with the FAIR data principles<sup>24</sup>, *i.e. Findable, Accessible, Interoperable, and Reusable*.

Findability is related to how discoverable the data are from other researcher, what metadata accompany them and according to what standards they are created. Findability is also related to the extent to which the data are identifiable, well documented, with proper naming conventions, clear versioning and search keywords. Accessibility is related to the availability and access of all types of data and the software documentation. Interoperability depends on the licensing strategy that affects the data reusability. It also specifies the vocabulary and mapping to commonly used ontologies. Finally, reusability defines the ability of the data to be reused by third parties. The duration of the reusability, the restrictions and the quality assurance process depends on the corresponding project.

Apart from the publicly available data, other data will also be collected and generated that are confidential due to internal regulations and/or legal reasons. These data will not be publicly available. Such data will be either shared within the consortium or become accessible in-house after a proper agreement is signed. In this manner FELICE will ensure a well-structured data management for both public and confidential data.

### 4.1 Making data findable, including provisions for metadata

The data generated or collected within FELICE should be easily discoverable by researchers. This can be achieved by providing rich metadata and a unique and persistent identifier.

As described in section 3.3, FELICE will use a standardized naming convention for all the project data and will facilitate citation by assigning DOIs to the uploaded online datasets. Search keywords for publications and datasets will also be used as a measure of increasing their reusability. Furthermore, the data will be accompanied with rich metadata, providing context and additional information about the datasets. These provisions will make the data more findable and will increase the reusability and impact of the project (c.f. section 3.4).

### 4.2 Making data openly accessible

As per Article 29.2 of the Model Grant Agreement under Horizon 2020, the FELICE consortium will ensure open access to all peer-reviewed

<sup>24</sup> <https://www.force11.org/group/fairgroup/fairprinciples>

scientific publications related to its results. The consortium will strive for gold open access for its publications. Additionally, as per Article 29.3, the FELICE consortium will also ensure open access to research data. The decision on whether to publish through open access will have to account for the potential necessity of protecting sensitive data.

All public datasets, scientific publications, software and deliverables will be made openly available, free of charge on Zenodo (c.f. section 3.9.4). The final version of DMP will include possible exceptions that might arise in cases of privacy concerns or protection for commercial exploitation. Confidential data will be available internally on the SVN repository<sup>25</sup> or Large Seafile File Store of the project (c.f. section 3.9.2, 3.9.3).

### 4.3 Making data interoperable

FELICE will make data interoperable as described in section 3.7, by using commonly used metadata vocabularies and the shared metadata standards. Table 4 presents the general overview of the FELICE metadata structure, which however might slightly be updated throughout the project.

*Table 4: FELICE Metadata*

Title	Name of the data
Creator / Responsible Partner	Name of the partner responsible for the data created
Dataset Identifier	Data's internal reference number
DOI	(if applicable)
Dataset Description	A brief description of the data
Work Package/Deliverable	Associated work package and deliverable/task
Source	How the data have been generated
Processing	How the data have been processed
Repository	The repository where the data will be uploaded
Language	All languages used in the data
Code list	Explanation of codes or abbreviations used
Type	Types of the data
Format	Formats of the data
Expected Size	An approximation of the size of the data
Keywords	Keywords describing the content of the data
Version	Unique identifier for each version of the data
Date of Repository Submission	Release date (preferred format yyyy-mm-dd)
Necessary software	Necessary software needed to create, view or analyse data
Rights	Any rights information on the use of the data
Access Information	Where and how your data can be accessed by other researchers

<sup>25</sup> <http://subversion.apache.org>

#### **4.4 Increase data re-use (through clarifying licenses)**

FELICE will increase data re-use by encouraging third parties to access, process, reproduce and disseminate the project's publicly available data free of charge (c.f. section 3.6).

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## 5 Allocation of resources

FELICE data will follow the FAIR principles, as also mentioned in section 4. To achieve this, publications, software and datasets will be made publicly accessible on different free-of-charge, self-archived and open access repositories (c.f. section 3.9), enabling the findability, accessibility, interoperability and reusability by the research community.

The cost of the necessary actions for making the data FAIR, are mainly related to personnel costs and include preparation of data by each project partner for publishing, updating and maintaining the data, data hosting and backup, data sharing, and security. These costs will be covered by the project funds since according to Article 6 and Article 6.2.D.3 of the Grant Agreement (GA), costs related to open access to research data in Horizon 2020 are eligible for reimbursement during the duration of the project.

The FELICE EPM, QAM and DQC will be responsible for the data management within FELICE. They will ensure the drafting and updating of the DMP, and will additionally control the appropriate storage, management, and sharing. However, every individual partner is responsible for implementing and respecting the policies of the FELICE Data Management Plan.

After the completion of the project, the data will be preserved for a long-term period. The related costs though are hard to estimate at this first version of the Data Management Plan. The data will be preserved for up to 3 years after the end of the project. However, preserving datasets on the Zenodo repository where a single dataset file does not exceed 50 GB, is free of charge. Moreover, internal datasets of the project will be stored and preserved in the SVN repository<sup>26</sup> hosted by the coordinator. These costs are estimated to be zero. Nevertheless, the final decision regarding the costs of preserving datasets has not been made yet.

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<sup>26</sup><http://subversion.apache.org>

## **6 Data security**

As analysed more extensively in section 3.8, FELICE will ensure the data security by applying appropriate security principles through the lifecycle of the data, while complying with the GDPR and being monitored by the FELICE EPM (Dr. Maria Crociani (EUNL)). The data will be stored and preserved through and after the completion of the FELICE project in certified repositories, as discussed in section 3.9.

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## 7 Ethics aspects

Partners within FELICE will comply with the highest of ethical standards to ensure the ideal balance between research objectives and the means by which the project partners go about achieving these. Research activities will comply with ethical principles, and applicable international, EU and national law, satisfying by design all relevant compliance requirements for each specific activity. They will ensure respect for people and for human dignity, fair distribution of burden and research benefits, while at the same time they will protect the value, rights and interests of all research stakeholders.

FELICE deliverable D1.3 “Ethics and privacy manual” analyses very extensively the FELICE ethics and privacy aspects. It specifies all the considerations taken into account within FELICE regarding the research with human participants during the pilot and evaluation execution. It also specifies the security measures, guidelines and rules that will be followed by FELICE, to ensure the users’ privacy and safety, respecting their rights as volunteer test subjects. In the following paragraphs, a short overview of the application of GDPR and ePrivacy Directive to the FELICE project is provided.

### 7.1 GDPR

The General Data Protection Regulation (GDPR) is the European Regulation on privacy since May 2018. Within FELICE, all sensitive data shall be processed lawfully, fairly and transparently, adhering to the GDPR. A more extensive analysis regarding the compliance of FELICE with GDPR is provided in the FELICE deliverable D1.3 “Ethics and privacy manual”.

### 7.2 ePrivacy Directive (ePD)

The 2002 ePrivacy Directive 2002/58/EC<sup>27</sup> (amended in 2009<sup>28</sup>) is an important legal instrument for privacy in the digital age, and more specifically the confidentiality of communications and the rules regarding tracking and monitoring. The entry into force of the GDPR requires the EU legislator to update this text and the European Commission published a proposal on 10 January 2017. This new text will have to tackle the rapidly evolving technological landscape, with issues such as confidentiality of machine-to-machine communication (Internet of Things) or the confidentiality of individuals’ communication on publicly accessible networks (such as public Wi-Fi). These European privacy laws regulate how data is allowed to be collected, processed and stored.

<sup>27</sup> <http://data.europa.eu/eli/dir/2002/58/oj>

<sup>28</sup> <http://data.europa.eu/eli/dir/2009/136/oj>

As a Directive, it is transposed into EU national laws rather than being imposed in a unified way as a Regulation is. FELICE project activities will design, develop, evaluate, and showcase solutions which highly rely on electronic communication. From these, new or improved products will emerge, as well as research outputs will be published and shared open and freely, satisfying also the EC's Open Access policy. The project will fully comply with Article 5, which directs the 27 EU member states to ensure that the storage of information or the gaining of access to information already stored on users' devices, is only allowed on the condition that the user has given their consent, having been provided with clear and comprehensive information about the purposes of the processing.

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## 8 Other issues

There are no other national/funder/sectorial/departmental procedures that project partners must adhere to.

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## 9 Data

This chapter will present the first version of the FELICE collected and generated data descriptions.

### 9.1 Scientific publications

FELICE research activities will lead to scientific publications created by the project partners. The authors/editors are responsible to make their publications publicly available, except if certain restrictions apply. The scientific publications should be provided free of charge in the Zenodo FELICE repository.

Table 5: FELICE scientific publications description

Field	Details
Name of the dataset	FELICE scientific publication
Responsibility	All partners of the consortium, editor and task leader
Purpose and relation to the objectives of the project	This dataset contains project journals and conferences papers/ posters, white papers, or other scientific publications.
Data type	NA
Data format	pdf
Data origin	Project research output
Expected size of the data	100Mb
Data utility	Researchers and scientists
Privacy principles	NA
Accessibility policy	Open except if certain restrictions apply
Security & storage	Zenodo repository

### 9.2 Other dissemination and communication publications

FELICE activities will lead to dissemination and communication (non-scientific) publications, like white papers, magazine articles, web pages, promotional materials (brochures, flyers, newsletters, posters, etc.), press releases, website news, posts (e.g. Facebook, Twiter, LinkedIn) and videos produced during the FELICE project. These publications will be publicly available free of charge.

Table 6: FELICE Dissemination and communication publications description

Field	Details
Name of the dataset	FELICE dissemination and communication publication
Responsibility	Dissemination manager, all partners of the consortium
Purpose and relation to the objectives of the project	Dissemination and communication of the FELICE results to increase its impact.

Data type	This dataset contains the research results in terms of publications and the data collection on the website and social networks. It involves different dissemination documents and videos.
Data format	Pdf, json, mp4
Data origin	Project dissemination and communication activities
Expected size of the data	10Gb
Data utility	The dissemination and communication publications will be useful for other researchers and groups in industry that are interested in increasing the impact of a project.
Privacy principles	NA
Accessibility policy	Open
Security & storage	Zenodo repository

### 9.3 Software

FELICE research activities will lead to the development of software serving the needs of the software modules. The different modules will require implementations in different programming languages and will provide several source code files as described below. The developed software will be available on Github<sup>29</sup> and will be subject to the quality assurance processes, as described in FELICE deliverable D1.1 “Quality assurance plan”.

Table 7: FELICE Software source code description

Field	Details
Name of the dataset	Software source code
Responsibility	PRO, FORTH, ICCS, FHOOE, IML, AEGIS, UNISA, CAL-TEK, TUD, ACC
Purpose and relation to the objectives of the project	The source files serve the needs for all the software modules of the FELICE project.
Data type	Text files
Data format	py, npy, pyc, pyd, pyo, rpy, whl, h, hh, hpp, hxx cpp, c, cc, cxx, cs, csx, rsp, class, js, ts, html, scss, txt, json, csv, xml
Data origin	NA
Expected size of the data	To be defined
Data utility	The developed software will be useful to other research groups, tech companies and other research projects outside FELICE, working on related research topics or commercial areas.
Privacy principles	Github privacy principles
Accessibility policy	Github policy

<sup>29</sup> <https://github.com>

Security & storage	Github
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## 9.4 Datasets

Apart from the publications and software, several research datasets will be collected and/or generated within FELICE, to serve the planned experiments and software modules. Descriptions of the currently foreseen datasets are provided next.

### 9.4.1 Object detection and localization

The object detection and localization dataset will serve the needs of the Task 4.1, to facilitate the human-robot collaboration. It will depict tools and components commonly met in industrial environment, focusing more on objects with challenging geometric and surface characteristics.

*Table 8: FELICE Object detection and localization dataset description*

Field	Details
Name of the dataset	Object detection and localization dataset
Responsibility	ICCS, WP4, T4.1
Purpose and relation to the objectives of the project	The dataset aims to support research in object detection and localization focusing on specific objects with challenging characteristics, like weak texture, reflective surfaces, symmetries and occlusions, commonly met in industrial (car manufacturing) environments.
Data type	Benchmark dataset of colour (RGB) and depth (D) images (RGB-D data) will be collected demonstrating specific assembly tools and components. The 3D information/models of the known objects will be available in the form of ply files. The camera calibration will be provided in text or structured file. The annotations (ground truth data) for the poses of the known objects for each image will be provided in text or structured files. Documentation of data structure, source code to parse the data etc in text files.
Data format	png, ply, xls, csv, doc, pdf, txt, html, xml, json Png image files, ply files containing the 3D information/models of the known objects. Text, csv or structured json or xml files containing the camera calibration and the object pose labels. Documentation will be provided in txt and pdf files.
Data origin	Visual sensors (cameras) installed at the CRF working environment or on-board the robotic platform, part of the annotation (ground truth) data will be provided by experts.
Expected size of the data	To be defined
Data utility	The dataset will be useful for other research groups, private technological companies and other research projects outside FELICE, working on related research topics or commercial areas.

Privacy principles	The image data will be post-processed in order to remove the identity of potential users depicted in the scene with masking/blurring face characteristics.
Accessibility policy	Open
Security & storage	Zenodo repository

### 9.4.2 Robot localization and mapping

The robot localization and mapping dataset will serve the needs of the Task 4.2, to facilitate the robot navigation. It will depict an industrial environment, captured under realistic conditions and during common manufacturing activities.

*Table 9: FELICE Robot localization and mapping dataset description*

Field	Details
Name of the dataset	Robot localization and mapping dataset
Responsibility	FORTH, WP4, T4.2
Purpose and relation to the objectives of the project	The dataset aims to support research and development in robot localization and mapping (SLAM) in a realistic industrial environment (specifically, a car assembly line). The dataset will be captured during normal manufacturing activities. Despite the abundance of public SLAM datasets, they generally do not adequately represent the particularities exhibited by FELICE's environment (in particular, frequent dynamic scene motions).
Data type	Video sequences and stills of (RGB) colour and (D) depth data (RGB-D data) will be recorded by a moving robot as it navigates in the assembly line. Additionally, camera calibration information and possibly some sort of ground truth localization data will be collected. The data will be accompanied by relevant documentation.
Data format	avi, mp4, svo, jpg, png, xml, json, xls, csv, doc, pdf, txt, html AVI, MPEG-4 video files, JPG or PNG images, proprietary video files (e.g. SVO by StereoLabs™), text or CSV files for calibration and ground truth data. Documentation will be provided in text and PDF files.
Data origin	Visual sensors (cameras) installed on-board the robotic platform.
Expected size of the data	Several Gbs
Data utility	The dataset will be useful to researchers and practitioners working on related research topics or commercial areas.
Privacy principles	The video data will be post-processed in order to remove the identity of humans by masking/blurring their facial characteristics and only after obtaining approval from those involved through the informed consent forms.
Accessibility policy	Restricted. The data will visually depict indoor spaces owned by a private company (CRF), hence appropriate

	clearances are needed for sharing them. Access will be provided through password protection mechanism.
Security & storage	FELICE Seafile cloud service

### 9.4.3 User actions and postures

User actions and postures dataset will serve the needs of the Task 4.3, to facilitate human body posture estimation. It will capture videos of workers' actions and postures under realistic conditions and during common manufacturing activities.

Table 10: FELICE User actions and postures dataset description

Field	Details
Name of the dataset	User actions and postures dataset
Responsibility	ICCS/FORTH, WP4, T4.3
Purpose and relation to the objectives of the project	The dataset aims to support research in human body pose estimation, tracking and action/posture recognition in the context of symbiotic human-robot collaboration in a realistic industrial (car manufacturing) environment. Despite the reasonably accurate performance of state-of-the-art algorithms in controlled or semi-controlled scenarios, there are limitations in coping with complex, realistic scenarios. FELICE aims to capture video data with workers' actions and postures during manufacturing activities.
Data type	Both qualitative and quantitative data will be generated. Video files and image sequences of (RGB) colour images and (D) depth images (RGB-D data) will be collected demonstrating the assembly actions and postures of workers during assembly tasks in the shop floor. Additionally, for each video the annotations (ground truth data) corresponding to semantic/linguistic labels/types of actions, postures and user ids will be generated in structured text files. Information on the 2D/3D human body pose estimated and tracked across time (coordinated and angles of body joints estimated) based on a skeletal model will be provided as numeric data. Documentation of data structure, source code to parse the data etc.
Data format	avi, mpeg-4, svo, bvh, jpg, png, xml, json, xls, csv, doc, pdf, txt, html AVI, MPEG-4 video files, jpg or png images, svo video files (proprietary file format of StereoLabs™ containing stereo colour and depth frames), text or csv files of linguistic/semantic action/posture labels, text or structured json or xml files of numeric values corresponding to 2D/3D positions and angles of human body joints estimated, .bvh file format of human motion data. Documentation will be provided in txt and pdf files.
Data origin	Visual sensors (cameras) installed at the CRF working environment, part of the annotation (ground truth) data

	will be provided by experts.
Expected size of the data	To be defined
Data utility	The dataset will be useful for other research groups, tech companies and other research projects outside FELICE, working on related research topics or commercial areas.
Privacy principles	The video data will be post-processed in order to remove the identity of users with masking/blurring face characteristics only after obtaining approval from the data subjects involved through the informed consent forms. Video data sequences will be made available in uncompressed format and compressed format based on the ITU-T H.264 codec.
Accessibility policy	Open
Security & storage	Zenodo repository

#### 9.4.4 Speech command

The speech command dataset will serve the needs of the Task 4.4, to facilitate human-robot vocal and textual communication.

*Table 11: FELICE Speech command dataset description*

Field	Details
Name of the dataset	Speech command dataset
Responsibility	UNISA, WP4, T4.4
Purpose and relation to the objectives of the project	Recording the speech commands that the robot must recognize, in terms of voice samples and text.
Data type	Voice samples and text of the speech command
Data format	Wav, json Voice samples in WAV, ground truth (path, text, duration) in JSON
Data origin	To be defined
Expected size of the data	To be defined
Data utility	Research groups and private sector
Privacy principles	NA
Accessibility policy	Open
Security & storage	Zenodo repository

#### 9.4.5 Gesture command

The gesture command dataset will serve the needs of the Task 4.4, to facilitate human-robot gestures.

Table 12: FELICE Gesture command dataset description

Field	Details
Name of the dataset	Gesture command dataset
Responsibility	UNISA, WP4, T4.4
Purpose and relation to the objectives of the project	Recording video samples of the gesture commands that the robot must recognize.
Data type	Video samples and metadata for the gesture commands
Data format	mp4, json Video samples in MP4, ground truth (path, type, duration) in JSON
Data origin	To be defined
Expected size of the data	To be defined
Data utility	Research groups and private sector
Privacy principles	NA
Accessibility policy	Open
Security & storage	Zenodo repository

#### 9.4.6 ADAPT workflow/meta-model

The Asset-Decision-Action-Property-Relationship (ADAPT) workflow/meta-model dataset will serve the needs of the WP7, to facilitate the workflow execution.

Table 13: FELICE ADAPT workflow / meta-model dataset description

Field	Details
Name of the dataset	ADAPT workflow / meta-model
Responsibility	FHOOE, WP7, T7.3
Purpose and relation to the objectives of the project	Data format for the ADAPT Workflow (meta) models. These are generated/modified based on data from the process optimization in a previous step in the toolchain. Required for the workflow execution by the workflow runtime.
Data type	Structured text data (ADAPT-workflow elements such as actions, decisions, assets and their relationship to each other)
Data format	xml
Data origin	Data is generated at runtime. Outcome depends on input data provided by the process optimizer.
Expected size of the data	< 5MB
Data utility	Research groups (workflow performance / execution times)
Privacy principles	NA
Accessibility policy	Restricted. Data is generated (dynamic / changing). Data must be shared with other elements of the toolchain but



	might contain sensitive data such as execution time.
Security & storage	FELICE SVN repository

### 9.4.7 Adaptive workstation operation dataset

The adaptive workstation operation dataset will serve the needs of the WP5, to develop an adaptive workstation for industrial environments and to facilitate the human-workstation interaction.

Table 14: FELICE Adaptive workstation operation dataset description

Field	Details
Name of the dataset	Adaptive workstation operation dataset
Responsibility	TUD, WP5, T5.2
Purpose and relation to the objectives of the project	<p>Anonymised data of the person (in advance):</p> <ul style="list-style-type: none"> <li>- to allow physical adaptation of the workstation based on anthropometric and other data</li> <li>- to allow cognitive adaptation of information</li> <li>- to allow adaptation of illumination</li> </ul> <p>Some anonymised data related to stress-strain concept of the test persons (optional, in concept):</p> <ul style="list-style-type: none"> <li>- to give recommendations on how to reduce stress</li> </ul>
Data type	<p>Structured text data of anonymised test persons: age, sex, some anthropometric data (e.g.) body height, work experience.</p> <p>Some anonymised physiological data (optional, in concept): e.g. heart rate or heart rate variability (Excel format)</p>
Data format	xlsx, csv, doc, pdf
Data origin	<p>Some anonymised personal data: Surveys filled out by the test persons or measured before experimentation (using scales, measuring tape).</p> <p>Anonymised data from: Measurement systems e.g. polar 10 belt or smartwatch.</p>
Expected size of the data	Some MBs
Data utility	The data might be useful for ergonomists and research groups, working on adaptive systems or industrial groups who want to improve working conditions and reduce risks related to work-related injuries.
Privacy principles	Use a worker-ID for anonymization when collecting data.
Accessibility policy	Restricted. Data is only to be shared after anonymization and signed agreement from the data owners that allows to share the data with third partners/the public.
Security & storage	The datasets will be stored or are already stored on the FELICE project server and TUD's data is stored on the IAD institutes server.

## 10 Conclusions

The FELICE project is expected to provide the consortium partners with the opportunity to collect, generate and process different types of research data as part of their research and development work. The current deliverable presented the Data Management Plan according to which all the identified FELICE types of data (scientific publications, dissemination and communication publications, software and datasets) will be handled during the implementation and after the completion of FELICE. The presented DMP was created in order to follow the FAIR principles<sup>30</sup> and the H2020 ORD principle, according to which the project data should be made “as open as possible, as close as necessary”<sup>31</sup>.

As expected, for this first DMP version, it was not yet feasible to define all the details of the data to be collected or generated within FELICE. In the future and during the project, the DMP will be constantly updated, to incorporate the changes that might arise regarding the datasets, the methodologies and policies.

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<sup>30</sup> <https://www.force11.org/group/fairgroup/fairprinciples>

<sup>31</sup> [https://ec.europa.eu/research/participants/docs/h2020-funding-guide/cross-cutting-issues/open-access-data-management/data-management\\_en.htm](https://ec.europa.eu/research/participants/docs/h2020-funding-guide/cross-cutting-issues/open-access-data-management/data-management_en.htm)