



AmsTERdam BiLbao ciTizen drivEn smaRt cities

## Deliverable 1.3: Data Management Plan

### WP1, Task 1.5

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<sup>1</sup> PU = Public

PP = Restricted to other programme participants (including the Commission Services)

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## Document History

This is the first version of deliverable D1.3 to be submitted in M6. We will update and complete it as many times as necessary, considering in the minimum to annual review and update.



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<b>DoA</b>	<p>A Data Management Plan (including a Data Protection Impact Assessment, DPIA) will be developed that consists of information on: the handling of research data during and after the end of the project, what data will be collected, processed and/or generated, which methodology and standards will be applied, whether data will be shared/made open access and how data will be curated and preserved (including after the end of the project). This will be updated halfway the project. The data manager will keep track of generated data sets and secures that it will fit to the procedures in the DMP. The Privacy Manager will be responsible for the DPIA and privacy issues during the execution of the project. DEUSTO will fulfil the roles of Data Manager and Privacy Manager, being responsible for the DMP including DPIA</p>	

Date	Version	Author	Comment
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## Abbreviations and Acronyms

Acronym	Description
CA	Consortium Agreement
DM	Data Manager
DMP	Data Management Plan
DMPR	Data Management Plan Responsible
DPIAO	Data Protection Impact Assessment Officer
EC	European Commission
FC	Fellow City
GA	Grant Agreement
GDPR	General Data Protection Regulation
IPR	Intellectual Property Rights
LHC	Lighthouse City
LOD	Linked Open Data
ORA	Open Research Amsterdam
ORD	Open Research Data
PED	Positive Energy District
SCIS	Smart Cities Information System
WP	Work Package
WPL	Work Package Leader

## 0. Executive Summary

The EU-funded ATELIER project will demonstrate positive energy districts (PEDs) in eight European cities that will strive for sustainability and carbon neutrality. Amsterdam and Bilbao as lighthouse (LHC) but also Bratislava, Budapest, Copenhagen, Krakow, Matosinhos, and Riga are the fellow cities (FCs) aim at inspiring other European cities in replicating similar models that use PEDs as basic management unit for the implementation of energy transition strategies. Providing access to high quality data will facilitate the replication of the demonstrated solutions, the cooperation with other municipalities and the rapid uptake of results all along the European Union (EU).

This deliverable is targeting a consistent management of data all along the ATELIER data cycle (section 2) by defining two separate but interconnected sections: ATELIER Data Management Plan (DMP, section 3) and ATELIER Data Protection Impact Assessment (DPIA, section 4). The DMP provides a broad analysis of the data that will be generated, processed and/or stored by ATELIER partners. It provides a description of the methods to be used in terms of making ATELIER data findable, accessible, interoperable and reusable. The document also provides an explanation about the allocation of resources which includes the short/medium-term strategy and long-term strategy which assures ATELIER generated data would be preserve and accessible after the end of the project. Being ATELIER a smart city project, the seamless communication among the different city infrastructures, municipal services and citizens is crucial and keeps at the core of the project. Thus, making an efficient management of data and providing the mechanisms to deliver high quality standards is of vital importance.

ATELIER designs a DPIA plan that provides the tools and methods to implement the General Data Protection Regulation (GDPR) of the EU. The regulation tries to strike a balance between being strong enough to give individuals clear and tangible protection while being flexible enough to allow for the legitimate interests of businesses and the public. ATELIER not only provides the mechanisms to assess the risks regarding the use (or misuse) of personal data but it also provides methods to manage other ethic and security issues, as those related to the participation of volunteers, the participation (as beneficiary) of partners from non-EU countries or the security with respect to data management platforms. As basic DPIA tools, ATELIER foresees to track and continue filling the Data Protection Plans and the contact details of Data Protection Impact Officers of all the entities handling sensitive data or sensitive information.



# 1. Introduction

The European Commission requires H2020 beneficiaries to accomplish with Open Research Data (ORD) pilot. The EC committed itself to running a flexible pilot on ORD that aims to improve and maximize access to and re-use of research data generated by Horizon 2020 projects. Accordingly, ATELIER is urged to endorse FAIR principles, making data findable, accessible, interoperable and re-usable.

## 1.1. The overarching data framework of ATELIER

ATELIER Data Management Plan (DMP) is designed on the idea of providing the necessary tools and mechanisms to promote suitable data handling procedures. The strategic model for energy transition (WP2) will be drawn through citizen and stakeholder participation (WP3 and WP7) that will pave the way for a rapid uptake of demonstrated solutions (WP4 and WP5). The monitoring and evaluation of all specific actions and in-city interventions (WP9) will be based on the analysis of data. On the top of that ATELIER plans to design a complete strategy for replication (WP6) and collaboration (WP8), as well as targeted set of dissemination and communication activities (WP10) that will champion the project outputs. The benefits, and therefore the commitment, of ATELIER partners to provide FAIR data is clear since that helps:

- ✓ encourage collaboration and replication avoiding duplication of efforts
- ✓ involve citizens and society improving transparency and public participation
- ✓ ensure quality of data processing at the monitoring and evaluation as well as other analytical work performed
- ✓ build on previous results and experiences, both within the ATELIER partnership and within EU
- ✓ speed up the innovation uptake and therefore, facilitate faster and greater development of markets

On the other hand, General Data Protection Regulation (GDPR) urge H2020 projects to assess and provide the security measures to manage the risks to the rights and freedoms of natural persons resulting from the processing of personal data. The DPIA is a process designed to describe the processing, assess its necessity and proportionality and help manage those risks.

ATELIER will handle personal data at different chapters and with different purposes. Some examples include making a dynamic management of energy balances and therefore promoting prosumer behaviors (WP4 and WP5), working with volunteers in several activities promoting empowerment and cooperation (WP7), building up cities' transition labs based on citizen and stakeholder collaboration (WP3), etc. The protection of personal data will allow citizen and stakeholders to build close relationships with the municipalities, research organizations and industries because that would provide the trust and confidence they deserve.

## 1.2. Relation to other project tasks and deliverables

The Deliverable is part of Task 1.5: Data management and is linked with Task 1.1: Overall project planning & management and Task 1.4: Innovation management and market replication. It is further linked to Task 3.3 Monitoring the process of the PED Innovation Ateliers, Task 7.3

Citizens' behavior in system balancing and optimization and Task 9.2 Monitoring of progress for implemented measures in PEDs.

This deliverable is straightforwardly connected to D1.7 Open Access Research Data (also due M6). The deliverable D1.3 defines the methodologies and tools proposed to comply with a DMP in H2020 and DPIA accordingly to GDPR requirements, while the D1.7 analyses the mechanisms that allow the need to balance openness and protection of scientific information, fostering the open access to research data and project results. Both deliverables will keep a parallel progress and will work on the premise of making data 'as open as possible as close as necessary'.

### **1.3. Contributions and iterations with other partners**

We have had multiple iterations with other partners, especially with cities (both LHCs and FCs), as well as with industrial partners (specially energy utilities, SPE and IBE), research entities working at the monitoring and evaluation (WP9, AUAS and PSI), the Work Package Leader (WPL) of the Citizen and Stakeholder Engagement (WP7, WAA), the WPL of the Cooperation with the SCC Community (WP8, AUAS) and the WPL of the Communication and Dissemination strategy (WP10, SEZ).

The Data Manager (DEU) organized a webinar the 14/02/2020 that was designed as an introductory seminar to explain the basic principles underlying DMPs and DPIAs under H2020 projects. The objective was to provide the tools and concepts that any entity participating in a H2020 action needs to know to guarantee appropriate data management, security and ethics. The participation of project beneficiaries was very significant (26 out of 30). The slides prepared for the session are shown available at the project website<sup>2</sup>. Both, the slides and the audio are shared to project beneficiaries<sup>3</sup>.

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<sup>2</sup> <https://smartcity-atelier.eu/outcomes/presentations/>

<sup>3</sup> [https://drive.google.com/drive/u/0/folders/1M7nRGczuDgtIsDKwewBJpGX6\\_M12lc6k](https://drive.google.com/drive/u/0/folders/1M7nRGczuDgtIsDKwewBJpGX6_M12lc6k)

## 2. ATELIER Data Cycle

The ATELIER Data Cycle (Figure 1) includes both research data linked to publications as well as any other digital data generated during the project (Accordingly to GA, articles 29.2 and 29.3).

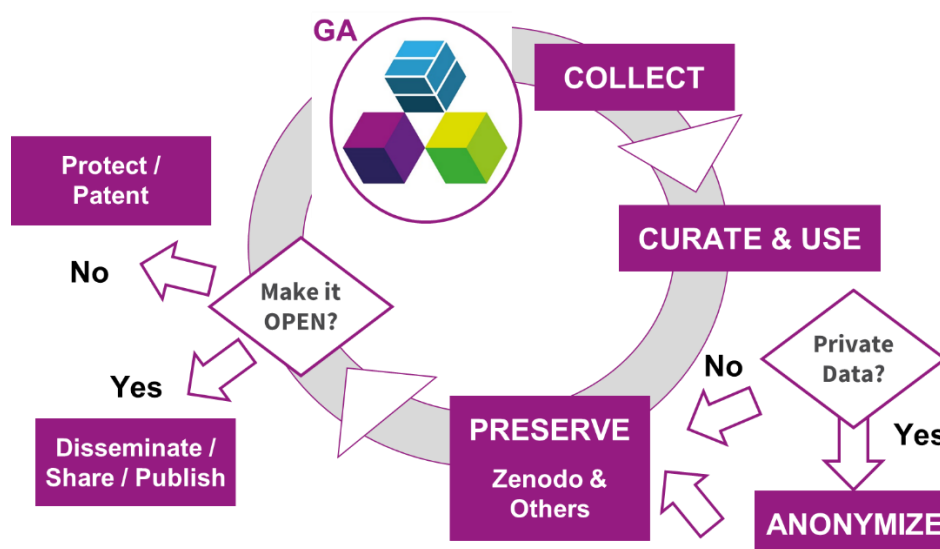


Figure 1: ATELIER Data Cycle

The ATELIER Data Cycle covers the full project and research cycle, it starts with the signature of the GA and the starting of the ATELIER action. As soon as the ATELIER team starts collecting data, we will gather and curate the data, and provide the means for anonymization and preservation. All the methods and tools that allow these steps are available at the Data Management Plan (D1.3). Once the data is preserved, data owner will decide upon making data open or not. The decision on making open the research data may take place not immediately after the generation. On the contrary, partners may delay the access to specific information (or data) making use of 'embargo period' that would be used to ensure the required protection or privacy methods

### 3. Data Management Plan (DMP)

The purpose of the DMP is to provide an overview of the main elements of the data management policy that will be used by the ATELIER project with regards to the methodologies and methods to be implemented.

ATELIER analysis data generated, processed and/or stored during the whole research data cycle. While this deliverable explains the most methodological aspects, D1.7 will reflect the current status of reflection within the consortium about the data that will be generated, collected, stored and processed. The ATELIER research data cycle includes four main chapters, data collection, data usage and curation, data preservation and data openness (D1.7, section 4). ATELIER works on a dataset by dataset basis by using ATELIER Data tracker and ATELIER template (D1.7, section 3.1). We provide most of the methodological aspects below.

#### 3.1. Introduction

The purpose of the DMP is to provide an analysis of the main elements of the data management policy with regards to all the datasets that will be generated by the project. The DMP is not a fixed document but evolves during the lifespan of the project; in fact, it functions as a dynamic document of agreements. The DMP should address the points presented below on a dataset by dataset basis and should reflect the current status of reflection within the consortium about the data that will be generated, collected, stored and processed.

#### 3.2. Data summary

##### 3.2.1 PURPOSE OF DATA COLLECTION AND/OR GENERATION

In principle, publicly funded research data are a public good, produced for the public interest that should be made openly available with as few restrictions as possible in a timely and responsible manner that does not harm intellectual property. On this basis, the DMP intends to help researchers consider at an early stage, when research is being designed and planned, how data will be managed during the research process and shared afterwards with the wider research community. The benefits of a well-designed DMP not only concern the way data are treated but also the successful outcome of the project itself. A properly planned DMP guides the researchers first to think what to do with the data and then how to collect, store and process them, etc.

Furthermore, the planning of the data treatment is important for addressing timely security, privacy and ethical aspects. This way the research data are kept in track in cases of possible staff or other changes. The DMP can also increase preparedness for possible data requests and easy the collaboration among different partners. In short, planned activities, such as implementation of well-designed DMP, stand a better chance of meeting objectives and goals.

The process of planning is also a process of communication, increasingly important in a multi-partner research. The characteristics of collaboration should be accordingly harmonized among project partners from different organizations or different countries. The DMP also provides an opportunity to engender best practice with regards to e.g. file formats, metadata

standards, storage and risk management practices, leading to greater longevity and sustainability of data and higher quality standards.

Ultimately, the DMP should engage researchers in conversations with those providing the services. In this context, the DMP becomes a document in accordance with relevant standards and community best practice. Data should be shared, edited, and monitored among those contributing to the project. Releasing research data should follow legal, ethical and commercial terms and conditions. To serve the multiple purposes just described, the DMP is designed for easy digital exchange across a variety of applications. The best way to approach this in today's complex world of information technology is by adopting metadata standards (see D1.7, section 3.3.2) and field specific standards describing a data model of elements for the DMP.

### 3.2.2 RELATION TO THE OBJECTIVES OF THE PROJECT

ATELIER is aiming to demonstrate Positive Energy Districts (PEDs) within Amsterdam and Bilbao citizen-driven Smart Cities by validating innovative technological, business and governance solutions that would be scaled up and replicated all along the EU. In order to accomplish that, it is necessary to develop strategic visioning documents, integration of energy systems and ICT tools, new collaborative urban laboratories, as well as policy and legal framework conditions that will accelerate the acceptance of new energy models and the development of new markets and new business models.

The core of the project is embedded by PED Transition Labs or Ateliers (WP3) that will work on a quadruple helix methodology promoting the active collaboration of citizen, industry, research bodies and governance to pave the way towards new energy models that assume sustainability and carbon neutrality as ultimate objectives. These structures are established within Bilbao and Amsterdam Lighthouse Cities and follow the underlying ambition to become stable self-sustainable municipal structures. They are basic elements for the co-design and co-implementation of the PED demo site in Amsterdam (WP4) and PED demo site in Bilbao (WP5), where specific solutions such as the adoption of an increased share of renewables, integration of different energy sources and storage methods, deployment of e-mobility solutions, development of new energy markets and, the promotion of smart and active collaboration with citizens among others are to be validated. The engagement with the general public will also be enforced by a wide set of activities specifically designed to balance the behaviors and attend different understandings (WP7). Both Lighthouse Cities (LHCs, Bilbao and Amsterdam) are working on their respective city vision 2050 (WP2) where strategic plans and roadmaps will be defined according to LHCs' own features and ambitions. Both, the innovation Ateliers (WP3) and city vision and planning (WP2), together with lessons learnt in the PEDs (WP4 & WP5) will be transferred and/or replicated in the six Fellow Cities (WP6). The monitoring and evaluation (WP9) will measure the impact of the measures performed in the PEDs and benchmark the outputs facilitating the visualization and communication of the project results. The cooperation with the SCC community (WP8) as well as the communication, dissemination and exploitation strategy (WP10) will enlarge the impact of the project, accelerating the uptake of the outputs and the generation of new markets.

In sum, ATELIER aims at setting up the systems and structures that will demonstrate PED as basic unit for energy transition. The rapid replication of ATELIER, first through FCs and then all along EU is a strong constant. That will be enormously facilitated by a healthy and consistent management of data that implements FAIR principles and favors openness of research data and research results.

### **3.2.3 SPECIFICATION OF THE ORIGIN AND TYPES OF DATA GENERATED AND/OR COLLECTED**

ATELIER will measure the impact of the deployments installed in the PEDs of the LHCs which include deployment of specific infrastructures, integration of smart metering systems, sensing of buildings, integration of telecommunication systems, deployment of smart apps and visualization tools, etc. Data will also be gathered in relation to the participative mechanisms and collaborative strategies that aim at supporting citizens' behaviors towards new energy models. The progress of the project will also be measured with respect to the updates of legal frameworks, the number of new business models generated, the ambition and impact of the communication and dissemination activities, the number of meetings held, the resonance of the project in social media, etc.

In order to perform this, we will build define the status quo of LHCs and FCs gathering information and collecting data from:

1. strategic documents, indicators and plans already being used in LHCs and FCs that define boundary conditions and set up criteria for future scenarios
2. technology specific data of the infrastructure and innovative systems to be deployed in LHCs. That includes thermal and electrical energy systems, storage technologies, electrical vehicles performance, telecommunication infrastructure, data servers, etc.
3. stakeholders map including industrial partners, research institutions, clusters and associations, municipal service providers, local artists, schools and secondary educational centers, etc.

During the project lifespan of ATELIER we will generate a substantial amount of data both directly from the PEDs and the entire cities, and also as a result of data processing. That can be summarized as:

1. Data being directly measured from PEDs in Bilbao and Amsterdam and therefore verifies the deployment and validation of infrastructures at operational level
2. Outputs of questionnaires that will assess citizens' and stakeholders' behaviors and responses to participatory activities
3. Monitoring and evaluation data that will be expressed in terms of project indicators and results of holistic assessment tools (i.e. life cycle analysis) facilitating the extrapolation of measurements and the uptake of most effective solutions
4. Strategic documents, lessons learnt, deliverables and reports that will ease the replication and uptake of ATELIER methods, technologies and solutions
5. Software packages, methodologies (i.e. risk assessment), as well as dissemination material and other instruments that have facilitated the elaboration of methods for the deployment, evaluation and dissemination of ATELIER solutions.

### **3.2.4 RE-USAGE OF DATA: TO WHOM WILL IT BE USEFUL?**

The data already available at the LHCs and FCs will be largely increased all along the ATELIER project. The generated data will be re-used for several purposes and by several



stakeholders. The list will be updated along the project, while initial data have been identified as follows:

- Public authorities will make use of energy, mobility and environmental indicators to develop ambitious while realistic strategic plans. The transparency of information will increase the participatory opportunities and the social cohesion
- ESCOs, technology providers, etc. will be interested in data related to energy consumptions, energy generation rates of renewables, performance of storage systems, etc.
- Industry and service providers will make use of extensive data services of the municipality that would allow the identification of new business opportunities, the identification of increasing/decreasing demands, etc.
- Investors will use information about technology performance and maturity, payback ratios of new solutions, etc. so that they can assess them and make better and more informed decisions
- Citizen would make use of data commons and specially of their energy bills and energy consumption profiles to interact more actively with the energy system and optimize their energy balances
- Civil organizations, neighborhood associations, etc. will keep an eye into citizen participation dynamics, impacts on their energy behaviors, acceptance of new solutions, pros and cons of innovative energy management systems, etc.

### 3.3. FAIR data

The FAIR principles precede implementation choices and do not necessarily suggest any specific technology, standard or implementation. Below, we explain the solutions and options that ATELIER will promote. During the course of the project, every dataset generated on the purpose of the project will be describe on a dataset by dataset basis using the ATELIER template (explanation provided at D1.7, section 3.3)

#### 3.3.1 MAKING DATA FINDABLE, INCLUDING PROVISIONS FOR METADATA

ATELIER pursues that any data and supplementary material use standard formats and identifiers so that it is easy to find. In this regard:

- We outline the discoverability of data by fostering the use of metadata standards<sup>4</sup> providing specific information for data related to engineering fields, social and behavioral science, research purposes, etc.
- We emphasize the quality of data and classify ATELIER datasets according to Tim Berners-L Classification<sup>5</sup> which encourage to move forward from text files (1 star) to linked open data (5 stars)

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<sup>4</sup> <http://rd-alliance.github.io/metadata-directory/>

<sup>5</sup> <https://5stardata.info/en/>

- We use unique identifiers for each dataset as *Dataset Number-WP Number-ENTITY Name* (see D1.7, section 3.3), and provide a data inventory (see D1.7, section 3.2) of all datasets and research data generated by ATELIER can be looked up, including document history
- We foster the use of a common language that will be generated naturally along the project. Common naming and acronyms are already arising such as: PEDs, LHCs, FCs, ateliers, upscale, replicate, archetypes, integration, smart tools, prosumers, etc.
- We will use clear versioning of all reports, documents and deliverables so their status and evolution is clearly recorded
- We foster the use of data standards according to regional consensus, national legislation, certification systems, etc. European or international standards such as ISO 50001:2018 Energy Management Systems or ISO 19115-1:2014 Geographic information are two examples.

### 3.3.2 MAKING DATA OPENLY ACCESSIBLE

ATELIER project aims at making data as open as possible, all the details about this policy are given in D1.7 (Open Access to Research Data). In this regard,

- we specify for each dataset whether it is open or not and explain the reasons why. All research data linked to open publications will be open by default (GA, article 29.2) as well as digital research data generated by the action (GA, article 29.3). The cities have also expressed their willingness to open as much data as possible to make information available to the general public and academia
- data will be made available by using open repositories. We use ZENODO as a common and 'by default' system to store all open ATELIER datasets. Institutional repositories from research centers and institutes as well as cities' open data services will be used (see section 3.4.3). ATELIER reports and deliverables will be accessible from the project webpage. Official reports will also be available at CORDIS<sup>6</sup>.
- in general terms ATELIER data will be based on standard software in order to make it available to a broader audience. This aspect, will however, be specified for each dataset using the ATELIER template. In case that any further documentation is required to understand or make data accessible it is also to be provided
- in case of any particularities in sharing the data, those will be explained and justified

### 3.3.3 MAKING DATA INTEROPERABLE

ATELIER beneficiaries aim at generating interoperable datasets that will allow data exchange and reuse. All systems will be user friendly, well documented and unless otherwise specified openly accessible. ATELIER will follow established European metadata vocabularies, standards and methodologies.

<sup>6</sup> <https://cordis.europa.eu/project/id/864374/es>



On a dataset basis, ATELIER partners will specify any methods or software that might be necessary to access and manipulate the data. Those include:

- Data formats of spreadsheets, documents, geographical data, image, videos, etc.
- Methods or software needed to access the data and make it operable in other systems

### 3.3.4 MAKING DATA RE-USABLE

The possibility that a third person or entity makes use of a dataset entirely depends on the licensing conditions, as well as other intellectual property rights or permissions. ATELIER partners will be supportive to other stakeholders to decide which licensing or protecting options are the most suitable at each case. The use of Creative Commons<sup>7</sup> will be encouraged for digital creations (web page, contents of digital channels, etc.), other software might have specific (owner defined) terms of use.

In the Creative Commons framework, a decision tree is provided in order to help choose the most appropriated license (see fact sheet<sup>8</sup> *Which Creative Commons Licence is right for me?*). The five main questions to be answered are:

- Am I alright with other people copying and distributing my content without asking my permission every time?
- Am I ok with other people not recognizing my work?
- Am I ok with them changing and adapting the content?
- Do I want to limit how others can release their remixes?
- Am I right with other people making money out of their reuse of the content?

Depending on the answers a different license should be used. The details of every license shall be consulted at the Creative Common web page.

Copyright holders and creations will be protected in accordance with intellectual property rights (D10.6. IPR management report). Access permissions and restrictions will be identified indicating the list of partners involved, their roles, as well as the limitations given to each specific use and user. All research data generated by the action will be open by default (GA, articles 29.2 and 29.3) and therefore *the license should allow to freely used, re-used and redistributed by anyone – subject only, at most, to the requirement to attribute and share alike*<sup>9</sup>.

## 3.4. Allocation of resources

The allocation of resources includes short-medium term and long-term strategies. The former defines who and how the expenses of making data fair will be covered as well as the data governance model which is already defined. The latter features the tools and methods that will allow the maintenance and preservation of data well after the project is finished.

<sup>7</sup> <https://creativecommons.org/>

<sup>8</sup> <http://creativecommons.org.au/content/licensing-flowchart.pdf>

<sup>9</sup> <http://opendatahandbook.org/guide/en/what-is-open-data/>

### 3.4.1 FAIR DATA COSTS

ATELIER does not envisage to support cost of development of new data management platforms; however, it supports the cost of the use of open data systems. It also supports the integration of the data systems and the management of information, understood in wide terms, that is, all types of datasets that include configuration of systems, methodologies, instrumentation, photos, videos, newsletters, etc.

ATELIER partners have allocated a budget to make a consistent use and processing of data that supports FAIR principles. The openness of datasets to the general public is at the core of the project, and that is why we have specific chapters on making citizen aware about the availability and value of data: the ateliers (WP3) include as one of the tracks the data privacy, the engagement and participation (WP7) includes a chapter on the development of data commons, both demo sites (WP4 and WP5) include tasks making citizen participant of new energy markets, etc.

ATELIER fosters the public use of information through specific activities but also by providing public open repositories at the City Data infrastructure to facilitate the access and use of data (see section 3.4.3).

### 3.4.2 ATELIER DATA GOVERNANCE

ATELIER governance model (Figure 2) includes two differentiated levels designed in accordance with the requirements of the DMP and the DPIA.

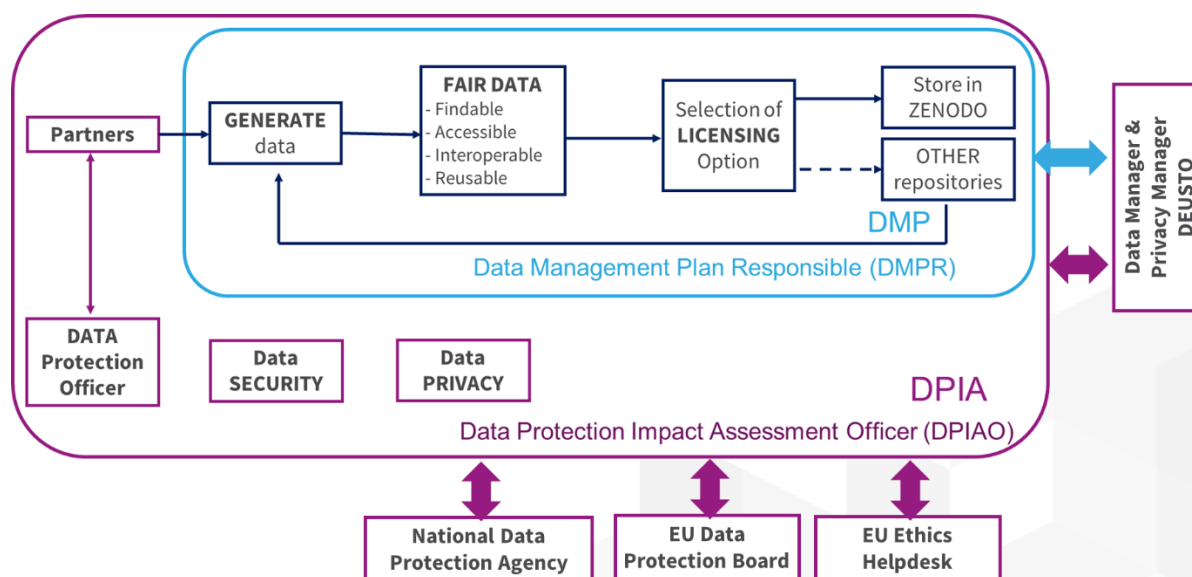


Figure 2: ATELIER Data Governance Model

- 1) **FIRST LEVEL:** Guarantees the quality of data with respect to FAIR principles

ATELIER DMP identifies a Data Management Plan Responsible (DMPR) per institution. This person belongs to the ATELIER team of this institution and will be responsible for:

- supervise the collection of data for the project
- prepare and collect consent forms (first draft available, see Annex 1)

- discuss with the DPIAO (see below) about the internal procedures to collect, process and/or transfer personal data
- ensure that ATELIER datasets are FAIR
- facilitate the discussion about licensing
- prepare the dataset to be published (curate, anonymize, etc.)
- upload to ZENODO and any other public repository where the dataset will be preserved and/or made available
- complete the template from the Data Management Plan (see D1.7, section 3.3)

The DMPR will be aware of the progress of the project, be able to interact with all members of the ATELIER working team, keep constant communication with the ATELIER Data Manager and Privacy Manager (DEUSTO) and with the DPIAO.

## 2) **SECOND LEVEL:** Coordination of DPIA with DPIAOs

In the ATELIER DMP a Data Protection Impact Assessment Officer (DPIAO) is identified for all the beneficiaries. This person belongs to the institution and is not necessarily linked to the ATELIER research team, but she/he is responsible for all the data privacy and data security issues of the entity. This person may already be defined at the institution or may be defined with the purpose of ATELIER. The DPIAO is in permanent contact with the Data Manager and Privacy Manager of ATELIER (Deusto) but also with the National Data Protection Agency, EU Data Protection Board and EU Ethics Helpdesk.

### **3.4.3 LONG-TERM PRESERVATION STRATEGY**

Data will be made accessible for verification and reuse to various stakeholders through appropriate channels and repositories. Limited access and availability are to be indicated in the individual data descriptions (ATELIER data templates) and will be further developed within the project with the aim of achieving greater openness. Whenever research data is made available, it will be made available always in Zenodo (as common repository) and also (if appropriate) through any other thematic or institutional systems.

LHCs and FCs provide their City Portals as project repositories and work in line with ATELIER open data ambition to open as much data as possible in view of improving the transparency and public service to citizens. ATELIER will just reinforce this willingness and provide extra information about the PED performance. The open data portals of ATELIER cities are described below:

#### **AMSTERDAM**

Open Research Amsterdam (<https://openresearch.amsterdam>) is City of Amsterdam's digital platform for research, knowledge and innovation regarding Amsterdam and its broader Metropole region. The purpose of the open platform is to share knowledge, provide insights in working relations and create a platform for joint research and co-creation. The platform is mainly meant for civil servants of the City of Amsterdam and researchers of Knowledge Institutes in the region. A login name can be obtained via the City of Amsterdam.

## BILBAO

GeoBilbao ([www.geobilbao.eus](http://www.geobilbao.eus)) is the municipal portal of the City of Bilbao. It is aligned with Bilbao Open Data<sup>10</sup> initiative whose main mission is to contribute, through the progressive publication of public data, to the development of economic sectors, to the promotion of administrative transparency and to the implementation of Smart Bilbao strategy. GeoBilbao was made open and available in 2012 and aims to provide geo-referenced data to citizens. For the moment, GeoBilbao allows the download and reuse of a total of 150 datasets or raw data sets on public transport, parking lots, public facilities, demography, tourism, economic-financial indicators, municipal budgets, tenders, contracting , works, environment, etc. GeoBilbao's functionalities are intended to facilitate the use of information and its analysis. To do this, 'Bilbao Open Data' uses free and free standards —such as CSV, XML, RDF, RSS, JSON, WMS and WFS—, which allow automatic processing of open data for public, private and commercial use. The open portal facilitates simple operations that include measuring distances, measuring areas, obtaining dimensions, drawing longitudinal profiles, extracting geocoders or transforming coordinates given in different standards. The initial number of data sets available (150) will be constantly increased and updated, always considering criteria of social utility, availability and economic and organizational sustainability.

## BUDAPEST (HU)

The City of Budapest does not account with an Open Data City Portal, the public data generated by the municipality are published and available at the city webpage: <https://budapest.hu>. Data uploaded to the Information System of the Body is automatically published on the Budapest Portal, so it is cognizable for everybody without restrictions.

## MATOSINHOS (PO)

Matosinhos has not any open city portal yet.

## RIGA (LT)

At national level there is an open data platform (<https://data.gov.lv/en>) with a complete catalogue of data as well as searching and other functionalities. The City of Riga has not yet implemented an open city portal. However, Riga has several projects that have secondary impact on open-data and the digitalization of municipal services (see <https://www.eriga.lv/>). While the main goal of these projects is not a municipal open-data platform, the data is being prepared for opening if such political initiative should occur. Besides, Riga is working at several initiatives with respect to data interoperability and data-unification allowing open-data formats and geo-location centered formats (OData, CSV, WMS, XLSX, JSON, SHP, DOCX, XML, ZIP). Geo oriented data platform (formerly known as RIGIS / Riga Geographic Information System) was open until the autumn 2019 when municipality began transitioning from Microsystems based CAD/GIS software to ESRI GIS system.

Riga City Municipality provides 13 data sets out of a total of 371 open source datasets available at the state open data portal ([data.gov.lv](http://data.gov.lv)). These datasets include the register of inhabitants, municipal register of street addresses, registry of marriage, register of school & pre-school attendance, register of social, education, and sports services in the municipality, etc. Until the development of a municipal open portal, the national platform is hosting some municipal datasets.

<sup>10</sup> <https://www.bilbao.eus/opendata/es/que-es-bilbao-open-data>

## COPENHAGEN (DK)

"Københavnerkortet" (<https://kbhkort.kk.dk/cbkort?&element=footer>) is a publicly accessible, interactive map of Copenhagen that among other things shows the large construction projects of the city and the local plans. Users can click on any area of the city to access e.g. local plan documents and more details on various topics. Information concerning climate and energy can be found under the topic About the Municipality (in Danish: "Om kommunen"). Here the user can find information on administrative boundaries, city planning, climate adaptation, and municipal elections.

## BRATISLAVA (SK)

The Bratislava Open portal (<https://opendata.bratislava.sk/en/l>) is focused on electronic services in the execution of self-governing functions of the city of Bratislava. It offers information and transaction services in Slovak and English. Transaction services create electronic submissions. These submissions shall have the same legal weight as classic letter submissions.

The City Portal includes hundreds of datasets about Bratislava, not only produced/owned by the municipality, but also publicly accessible data from various other sources, provided that they fulfill the data standards pursued by the city. Data visualization is facilitated through Microsoft PowerBi and GIS systems. The electronic services are categorized according to the categories of life situations and services. The philosophy of life situations is based on what a person experiences and what needs and duties life brings. This categorization of services emphasizes citizen orientation so that it can better orientate itself in the tangle of official concepts and procedures.

## KRAKOW (PL)

The Municipal Spatial Information System of Krakow (MSIP, available on: <http://www.msip.krakow.pl>) is a little part of the City Portal, Magiczny Kraków or Magical Krakow (<http://www.krakow.pl>). Magical Krakow helps citizens, visitors and stakeholders participate in the life of the city, learn about the monuments and history of the city, establish business contacts, make investment offers, etc. MSIP website contains current and historical data about e.g. spatial planning, real estate market, transportation, demography. Information is provided in the form of accessible maps.

Another source of city information is Public Information Bulletin (BIP, available on: <http://www.bip.krakow.pl>). It is a Polish system of unified public records, which allows citizens to access public information. It contains reports, documents, strategies and legal acts provided by the President and Kraków City Council, as well as information about law, finance, city development. Part of BIP website is the 'e-Office' system (e-Urząd). It is a web-based platform, where citizens can send requests, opinions, complaint or submit an application.

## 4. Data Protection Impact Assessment

### 4.1. Introduction

Data Protection Impact Assessment is directly linked to the EU legislation on personal data (Regulation 2016/6791, GDPR). Article 35 of the GDPR introduces the concept of a Data Protection Impact Assessment (also referred to as Privacy Impact Assessment). A DPIA is a process designed to help manage the **risks to the rights and freedoms of natural persons resulting from the processing of personal data** by assessing them and determining the measures to address them<sup>11</sup>.

GDPR provides a definition of personal data: *‘Personal data means information relating to an identified or identifiable natural person. An identifiable natural person is one who can be identified, directly or indirectly, in particular by reference to an identifier such as a name, an identification number, location data, an online identifier or to one or more factors specific to the physical, physiological, genetic, mental, economic, cultural or social identity of that natural person’*. Individuals are not considered ‘identifiable’ if identifying them requires excessive effort.

ATELIER, in response to the GA (articles 34, 36, 37 and 39), the CA (sections 9 and 10), and the EthSR (identifies requirements with respect to the use of personal data, the participation of non-EU countries, and the use of social media), implements a DPIA that includes the following chapters:

- Data Protection Plans
- Volunteers
- Security
- Non-EU countries

### 4.2. Data Protection Plans

Data Protection Plans (DPPs) will be submitted by all ATELIER entities processing personal data and will be used as basic element for Data Protection Impact Assessment. During the first DMP webinar (see section 1.2), ATELIER partners were proposed to consider the following decision tree in view of preparing (if necessary) their DPP (Figure 3).

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<sup>11</sup> Guidelines on Data Protection Impact Assessment (DPIA) and determining whether processing is "likely to result in a high risk" for the purposes of Regulation 2016/679, wp248rev.01



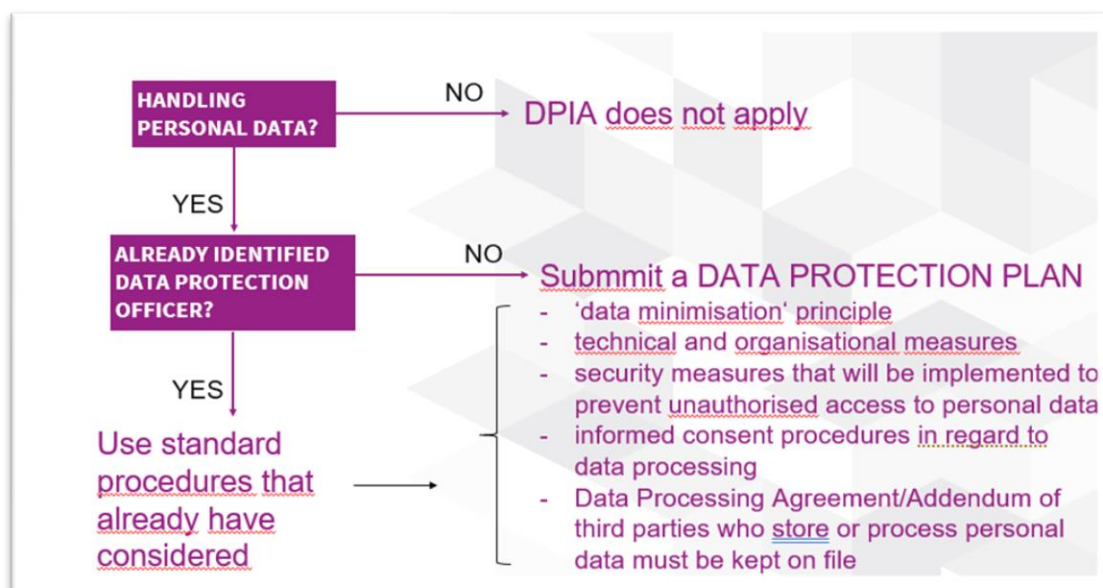


Figure 3: Decision Tree that ATELIER partners will follow for the preparation of DPPs

ATELIER DPPs will follow local, national, and EU regulations with respect to personal data processing. GDPR sets out the minimum features that a DPP should include (Article 35(7), and recitals 84 and 90):

- 'a description of the envisaged processing operations and the purposes of processing'
- 'an assessment of the necessity and proportionality of the processing'
- 'an assessment of the risks to the rights and freedoms of data subjects'
- 'the measure envisaged to:
- 'address the risks'
- 'demonstrate compliance with this regulation'

DPPs will be defined and kept on file prior to collecting, processing or handling any personal data, therefore ensuring that the Activity is consistent with data protection by design and by default principles (Article 35(1) and Article 35(10)). The plans will be integrals to all the activity of the company and would be dynamic and flexible accommodating to the requirements of ATELIER Data Cycle (section 2).

ATELIER Data Management Plan Responsible (DMPR) will also be responsible of ensuring that the DPPs are carried out. Therefore they become DPIA controllers accordingly to Article 35(2). DMPRs will work hand to hand with the Data Protection Impact Assessment Officers (DPIAO) and with any person handling personal data (processors, Article 35(2)). In case the management of personal data would endorse or be 'likely to result in a high risk to the rights and freedoms of natural person (Article 35(1), see III.B.a)' supervisory authorities shall be consulted, i.e.: National Data Protection Agency, EU Data Protection Board, EU Ethics HelpDesk (as external consultancy body).

The ATELIER partners who have already confirmed that they will generate or handle personal data are:

- **IBERDROLA (IBE):** gathers electrical consumption that reflects domestic activities and habits and implements smart grid in Bilbao PED. The DPP of Iberdrola is open and accessible from IBE website<sup>12</sup>. Iberdrola designates Alfonso Menchen as Protection Delegate for Spain and María Teresa Rodríguez de Tembleque as Global Data Protection Coordinator. Those names are also provided at ATELIER Governance file (D1.7, section 3.1.6).
- **SPECTRAL:** establishment of local energy communities and development and installation of smart (micro)grids in Amsterdam PED. The DPIAO at Spectral is Stephen Donnelly, also CEO of the company (see Governance.xls, D1.7, section 3.1.6). Spectral is working on the DPP that will be finished and reported before start collecting personal data.

These entities will collect information about energy consumption and be directly implied in the development of Bilbao and Amsterdam smart grids. They are already in contact with the respective LHCs and work in collaboration with other partners. In the current status of the project, they do not consider sharing personal data with any other partner. On the contrary, they intent to anonymize any customer using ad hoc methods that will largely depend on the specific type and format of data. In case, they see the necessity of sharing any personal data, the DPIA will be updated consequently and confidential agreements between the partners involved will be signed.

The **DE WAAG SOCIETY** WPL (WP7: Citizen and stakeholder engagement) will lead the mapping of stakeholders (T7.1) and organize activities to work with volunteers. It might be that WAAG retrieves information from participants in the form of questionnaires, surveys, etc. They are working on a Data Privacy Policy that would be ready before conducting any activity that implies the use of personal data. Further versions of the ATELIER DMP might identify more partners that will handle personal data and will report about the procedures to be used.

### 4.3. Volunteers

ATELIER keeps at a very central part the interaction with participants and stakeholders through a trans-disciplinary collaboration. We foresee the participation of volunteers all along the project and with respect to all the WPs, especially at all the workshops carried out in WP3 and all the activities designed to engage with the stakeholders and citizens (WP7).

The methods of recruitment will be ad hoc designed for each of the participative session. The organizing entity (ATELIER partner) will present the recruitment procedure and keep it on file. The volunteers will be informed about the context and purpose of the participatory activity, their role as volunteer, the data we might be gathering from this activity, etc. A very preliminary draft of the informed consent forms to be used during the project is shown in Annex 1 and made available at the Shared Disk (see D1.7 section 3.1.1).

More detailed requirements and documentation will be generated before the start of any activity involving participation of humans as subjects of the study, while fully operating within

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[https://www.iberdrola.com/wcorp/gc/prod/en\\_US/corporativos/docs/personal\\_data\\_protection\\_policy.pdf](https://www.iberdrola.com/wcorp/gc/prod/en_US/corporativos/docs/personal_data_protection_policy.pdf)



local, national, and EU regulations. These forms will be detailed and tailored to the individual activities, objective public and LHC or FC. They will use the official language of the country/city where the activity takes place and include local context specific aspects referring to the relevant regulations on data protection and/or other legislation if applicable.

For all applicable physical meetings and consortium events we will inform participants that pictures will be taken, and participants will have to actively consent to, with an option to opt out from pictures (or any other multimedia material) being used in project specific communication. It also concerns photographic evidence of events, demonstrations, etc. that are to be done throughout the project and may be needed for deliverables (internal or official) and reports. This will also be specially considered with WP10 on communication and dissemination and WP8 on cooperation with SCC community.

#### 4.4. Security

Security measures are related to a wide spectrum of ICT systems that ensure the collection, communication, processing and storage of data. They involve multiple partners that will work together to fulfill the project tasks and milestones. Some clear examples are:

- The deployment of Smart Grids and Energy Management System in Bilbao (WP5) which involves COB, CAR, DEU, TEL, IBE, EVE, and the citizens
- The deployment of Smart Grids and Energy Market System in Amsterdam which involves SPE, GRE and FRA, and the citizens
- The design and generation of Energy Data Commons (WP3, WP7) that involves in the minimum COA, COB, WAA, AMS, DEU, TEC, AUAS, EVE, SPE) and the citizens
- The connectivity and functionality of Bilbao data platform as main information repository for the design of City Vision (WP2), the implementation of smart iteration tools (WP5), the monitoring and evaluation of ATELIER's PED measures (WP9), etc.
- The connectivity and functionality of Amsterdam data platform as main information repository for the design of the City Vision (WP2), the implementation of energy markets (WP4), the monitoring and evaluation (WP9), etc.

The beneficiaries will implement technical and organizational measures to ensure privacy and data protection rights in the project. All ICT systems to be developed will be designed to safeguard collected data against unauthorized use and to comply with all national and EU regulations. EU guidelines on general standards will be followed, e.g., ISO/IEC 27001 and 27002 (Code of practice for information security management), to ensure confidentiality, integrity, and availability. It will additionally include the Directive on security of network and information systems ('Cybersecurity directive', NIS-Directive 2016/1148) on the security of critical infrastructures and the ePrivacy Directive 2002/58, as well as European Union Agency for Network and Information Security (~) guidance. Engineering best practices and state-of-the-art data security measures will be incorporated as well as GDPR considerations, and respective guidelines and principles. Ultimately, each partner is responsible for their own information security in its respective IT/data systems.

ATELIER LHCs and FCs have their own data protection routines established in their existing operations and in their development and test activities of the project. They are responsible to establish compliance with GDPR and other data protection and security regulations in accordance with the local, regional and national law.

## CITY OF AMSTERDAM

The Data Management Policy of the Municipality of Amsterdam responds to the *May 25, 2018, the General Data Protection Regulation (GDPR / AVG)* and applies to all processing of personal data. This European legislation has direct effect in the Netherlands. The AVG Implementation Act in the Netherlands additionally applies to those matters that must be regulated nationally. The Privacy Statement of the Municipality designates the Data Protection Officer (also reported at ATELIER Data Governance D1.7, section 3.1.6).

The Municipality of Amsterdam attaches great importance to good protection of personal data. The City of Amsterdam also takes appropriate organizational measures to properly protect personal data against misuse, loss, unauthorized access and processing. Thus ensuring:

- Processing of personal data properly, lawfully and transparently, on the basis of a legal basis for processing personal data,
- Collection and usage of personal data only for a specific and clearly defined purpose and only uses the personal data for the purposes for which they were collected or for the (compatible) purposes for which they are further processed, including scientific and historical research, archiving in the public interest and statistical purposes,
- Only to process the personal data necessary for the purpose,
- The personal data is correct and updated if necessary,
- Not to store personal data longer than necessary. The necessity is related to the purposes to which the relevant personal data refer to or as long as this is necessary for compliance with legal obligations, for example for archiving or statistics,
- To take appropriate organizational and technical measures for the protection of personal data

For the performance of the duties and responsibilities of the city, we work together with partners outside the organization of the municipality of Amsterdam. This can be other governmental bodies, but sometimes also private parties. In certain cases, we share personal data with those organizations. When we exchange personal data with other parties, we make agreements about this that are in line with applicable laws and regulations. When personal data is provided to parties outside the European Economic Area (EEA), this will be in accordance with the requirements of the law, such as making appropriate agreements about the level of data protection in that country.

## CITY OF BILBAO

The legal framework of Bilbao Open Data<sup>13</sup> complies with existing legislation at European, national and municipal level. At EU level, Bilbao fulfills as general references the *Directive*

<sup>13</sup> <https://www.bilbao.eus/opendata/es/marco-legal-existente>

2003/98 / EC of the European Parliament and the Council of 17 November 2003 on public sector information and the Directive / 2013/37 / EU of the European Parliament and of the Council of June 26, 2013, amending Directive 2003/98 / EC on the reuse of public sector information. Bilbao follows the Spanish regulation Law 37/2007, of November 16, on the reuse of public sector information that transposes the European Directive 2003/98 / EC and the Organic Law 3/2018, of December 5, on the Protection of Personal Data and guarantee of digital rights. With respect to transfer of Data Privacy Policy<sup>14</sup>, sensitive data processing will only be proceeded if necessary and for the fulfillment of a mission carried out in the public interest or in the exercise of public powers (RGPD 6.1). At this respect Bilbao follows its competences based on Spanish Law 7/1985, of April 2, Regulating the Bases of the Local Regime and Law 2/2016, of April 7, on Local Institutions of the Basque Country.

At municipal level, *The Open Government Alliance (Alianza para el Gobierno Abierto)* was launched in 2011 as an international platform for domestic reformers committed to holding their governments accountable, more open, and improving their responsiveness to their citizens. Although the Alliance does not constitute a legislative or normative mandate, it has become the most recognized international reference. The scope of the Alliance includes open data initiatives, but also includes the other aspects of Open Government, thus constituting a broad framework of implementation. The Data Protection Plan of Bilbao is available online<sup>13</sup> as well as the contact (email) of the Data Protection Officer (Delegado de Protección de Datos) (see ATELIER Data Governance D1.7, section 3.1.6).

## BUDAPEST (HU)

The City of Budapest complies with the national law *Act CXII of 2011 on the Right of Informational Self-Determination and on Freedom of Information* that establishes the fundamental rules for data processing activities with a view to ensuring that the right to privacy of natural persons. The scope includes any data management procedure which is related to personal information as well as data of public interest in view of guaranteeing the privacy of individuals as well as fostering the process of making public affairs transparent. Other important national laws that Budapest City guarantees are the *Act L of 2013 on the Electronic Information Security of Governmental and Municipal Bodies* and the *Act LXII of 2012 on the Recycling of Data of Public Interest*. At municipal scale, ATELIER will fulfill the *Joint Instruction 1/2019 (I. 3.)* on the data privacy of the Municipality of Budapest, the data security and the procedures of disclosure of data of public interest. The municipal instruction applies at all the internal organizational units, as well as all of its employees and the City Council of Budapest and its Committees, Representative and Non-representative Members who perform any activity related to administering, storing or providing either personal data or data of public interest, or preparing documents (proposals, handouts, reports, etc.) containing such data. The Privacy Policy is available at: <http://einfozab.budapest.hu/list/adatkezelesi-tajekoztatok>

<sup>14</sup>

[https://www.bilbao.eus/cs/Satellite?c=Page&cid=3000106346&language=es&pageid=3000106346&pagename=Bilbaonet%2FPage%2FBIO\\_contenidoFinal&pageid=1272994181655](https://www.bilbao.eus/cs/Satellite?c=Page&cid=3000106346&language=es&pageid=3000106346&pagename=Bilbaonet%2FPage%2FBIO_contenidoFinal&pageid=1272994181655)

## MATOSINHOS (PO)

The City of Matosinhos (Câmara Municipal de Matosinhos, CMM) allows the access of personal documents of citizens and companies only to some employees accordingly to GDPR principles and is therefore not freely accessible. Access to employees' personal data is also limited to some human resources technicians. GDPR is regulated by the Law number 58/2019 and Law 59/2019, both approved on the 8<sup>th</sup> of August by the Assembly of the Portuguese Republic.

## RIGA (LT)

Riga City Municipality is fully compliant with the General Data Protection Regulation (EU) 2016/679 of the European Parliament and the European Council of 27 April 2016 (further – GDPR). On the National level the “Law on Personal Data Processing” has been adopted on 21 June 2018 with a purpose to define legal preconditions for setting up a system for the protection of personal data of a natural person at a national level, determining the competence and basic principles of operation thereof, as well as regulating operation of data protection officers and provisions of data processing and free movement. (Law is available online in English): <https://likumi.lv/ta/en/en/id/300099-personal-data-processing-law>.

On the municipal level on 4 April 2016 the city has adopted municipal regulations “Rules and Procedures of the Security Centre for Data Protection and Information Technology of the Riga City Council” aimed to coordinate and supervise safety and compliance of the personal data protection and municipal information and communication technologies/services with the requirements of binding regulatory framework at the municipality – city administration and all municipal structural units (departments, directorates, municipal agencies, enterprises, services providers, etc.).

The regulation enforces compliance with GDPR requirements and requires each municipal unit to assign their data managing officer. The role of data security is uniformly assigned to the Security Centre for Data Protection and Information Technology of the Riga City Council, also referred as the Data Protection Centre (DAC). The institution has elaborated detailed protocols aimed to ensure compliance of all municipal processes with the GDPR. The Head of the DAC is authorized as the Data Protection Manager of the municipality. A Data Protection Officer (DPO) is appointed for all municipal structural units who acts in-line with the GDPR and ensures compliance of data management with National legislation and municipal regulations.

## COPENHAGEN (DK)

Copenhagen Municipality is obligated to follow the national rules regarding data protection. The Danish Data Protection Agency (in Danish: Datatilsynet<sup>15</sup>) is the independent authority that monitors compliance, handles complaints, as well as provides guidance and advice. This also includes provision of e.g. templates for data processor agreements. Within Copenhagen Municipality it is the City Data Department that is the main data handling department.

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<sup>15</sup> <https://www.datatilsynet.dk/generelt-om-databeskyttelse/lovgivning/>

## BRATISLAVA (SK)

Bratislava Municipality endorses the Slovak law 18/2018 Z.Z.<sup>16</sup> – *Zákon o ochrane osobných údajov a o zmene a doplnení niektorých zákonov* that translates GDPR requirements into national legislation.

With respect to security issues, Krakow introduced the Information Security Policy of the City of Krakow in 2010, under the Ordinance of the Mayor of Krakow No. 958/2010 regarding the introduction of the Information Security Management System at the Municipality of Krakow. Implemented system is certified according to the requirements of ISO 27001. Personal data is processed in order to provide services by the City of Krakow. This is realized in accordance with the provisions of Regulation (EU) 2016/679 of the European Parliament and of the Council of 27 April 2016.

At municipal scale, the Internal Directive 8/2018 on Data Protection ensures the GDPR implementation and translation into municipal legislature and the adoption of an Internal Directive 9/2019 on Data Policy that regulates the rules for the collection, generation, monitoring, sharing and manipulation of data sets (including geospatial data sets) and the process of publishing data on the open data portal of the Capital City of the Slovak Republic Bratislava. The Data Officer is Mgr. Michaela Peťovská (contact details available at the Data Governance.xls).

## KRAKOW (PL)

Krakow introduced the Information Security Policy of the City of Krakow in 2010, under the Ordinance of the Mayor of Krakow No. 958/2010 regarding the introduction of the Information Security Management System at the Municipality of Krakow. Implemented system is certified according to the requirements of ISO 27001.

Personal data is processed in order to provide services by the City of Krakow. This is realized in accordance with the provisions of Regulation (EU) 2016/679 of the European Parliament and of the Council of 27 April 2016.

## 4.5. Non-EU Countries

ATELIER includes a non-EU partner, Paul Scherrer Institute (PSI) located in Switzerland. PSI is the leader of WP9 (Monitoring and evaluation) and participates in WP1 (Coordination), WP2 (City Vision and Planning), WP3 (Transition Labs) and WP10 (Communication and Dissemination). In case personal data would be transferred to Switzerland, PSI will confirm that such transfers are in accordance with Chapter V of the GDPR 2016/679. In case any personal data would be generated in Switzerland, the procedures will follow the legal procedures of at least one EU Member State and will be transferred back to EU (if necessary) accordingly to Swiss laws.

The Data Policy on Research Data (in English) and Information Security Procedures (in German) of PSI are documented (and kept on file), and are aligned with GDPR which would facilitate any operation. During the course of the project and in case any transfer of personal

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<sup>16</sup> <https://www.zakonypreludi.sk/zz/2018-18>

data would be required, the corresponding procedures will be further explained and submitted as part of D11.1: POPD - Requirement No. 1 and D11.2: NEC - Requirement No. 2.





## 5. Conclusion

This deliverable constitutes the first Data Management Plan of ATELIER. It is delivered in April 2020 and will be regularly followed up and advanced with the consortium members. The next official delivery of D1.3 will be in M33. The data manager (DEUSTO) will keep the responsibility of keeping this live document updated, and also the tools and instruments that ensures its correct performance.

Deliverable D1.3 is directly linked to deliverable D1.7 (Open Access to Research Data). These documents are closely linked and strike for an effective and high-quality data management performance. It might be that some methodological aspects are being changed or updated according to project necessities and partners requirements. As basic elements for the Data Management Plan, ATELIER accounts with a set of shared resources (with all project partners) that include these deliverables, the records and slides of the webinars, the data inventory (D1.7, section 3.2), and the dataset templates (D1.7, section 3.3). With respect to DPIA, each partner (beneficiary) keeps the responsibility of preparing and keeping on file the Data Protection Plans as well as the consent forms to recruit and work with volunteers, or any other document required by the GDPR. DEUSTO as Privacy Data Manager will support and provide help.

The link between deliverable D1.3 and D1.7 will be maintained all along the project, in a manner that both documents are maintained and developed consistently. Any change in one deliverable affecting the other one will translate into immediate amendments of the other deliverable. The underlying idea (to be modified if necessary) is to keep D1.3 as more methodological deliverable and D1.7 as main working document.



## Annexes

### Annex 1: Draft of ATELIER Consent Form





## **D1.3 Annex 1**

### Draft of ATELIER Consent Form



**AmsTERdam BiLbao ciTizen drivEn smaRt cities**

# **Draft of Consent Form for Volunteers**

UNIVERSITY of DEUSTO

4<sup>th</sup> APRIL 2020



**AmsTERdam BiLbao ciTizen drivEn smaRt cities**



## ***ATELIER: AMSTERDAM BILBAO citizen driven smart cities. Grant Agreement No: 864374. H2020 project, funded by the EU***

### **ATELIER INFORMATION SHEET**

#### **The context of ATELIER**

ATELIER is a smart city project that demonstrates Positive Energy Districts (PEDs) within 8 European cities with sustainability and carbon neutrality as guiding ambitions. Amsterdam and Bilbao are the Lighthouse cities that will generate an energy surplus of 1340 MWh of primary energy, prevent 1,7 kt of CO<sub>2</sub>- and 23 t of NO<sub>x</sub>-emissions, and invest 156 mln Euros to realise their PEDs. Together with district users, ATELIER will showcase innovative solutions that integrate buildings with smart mobility and energy technologies to create a surplus of energy and balance the local energy system. Bratislava, Budapest, Copenhagen, Krakow, Matosinhos, and Riga are the Fellow cities that will replicate and adapt successful solutions.

All cities will establish a local PED Innovation Atelier to co-produce locally embedded, smart urban solutions. In the ateliers, the local innovation ecosystem (authorities, industries, knowledge institutes, citizens) is strengthened, enhancing embeddedness and removing any obstacles (legal, financial, social, etc.) for implementation of the smart solutions. The Innovation Ateliers are designed to be self-sustaining and to live on after the project has ended. The ateliers are engines for upscaling solutions within the ATELIER-cities and replication to other EU-cities. ATELIER integrates a high degree of citizen engagement throughout the project, by actively involving local residents (>9000), local initiatives, and energy communities in activities to align technical solutions with citizens' objectives and behaviour. Each of the cities will develop a City Vision 2050 that creates the roadmap for upscaling the solutions in the long term.

ATELIER has the ambition to pave the way for "energy positive cities" in Europe. All ATELIER activities will be monitored (socially and technically), and lessons learned are systematically drawn and disseminated to relevant SET-plan groups, city networks, and innovation forums.

#### **Purpose of the ACTIVITY**

ATELIER is being run in collaboration with citizen who will lead the way for the energetic transition. In this sense, ATELIER has organized XXXXXXXXXXXX in which citizen/stakeholders are invited to participate by XXXXXXXXXXXX.

#### ***DESCRIPTION OF THE ACTIVITY***

#### ***DESCRIPTION OF THE DATA THAT WILL BE RETRIEVE***

#### ***JUSTIFICATION: WHY WE NEED THESE DATA?, WHAT IT IS GOING TO BE USED FOR?***

## Participation Form for Volunteers

### 1. Volunteer's Information

Full name	
Contact details (email, telephone)	

### 2. Contact Person Details

Full name	
Entity/Organization	
Contact Details	

### 3. City and/or demonstration area

Country	
City	
Neighbourhood	
PED	

### 4. Volunteer Questionnaire

I have read the ATELIER information sheet that provides enough details about the project (purpose, expected duration and procedures of the study)	Yes	No
I have read the ATELIER information sheet that provides enough detail of the activity and about the data that will be retrieve	Yes	No
I was informed about my right to refuse to participate or to leave the activity at any moment without any justification	Yes	No
I was notified of the contact person, in the case I have questions or doubts during the activity.	Yes	No
I was given a copy of my filled in consent form.	Yes	No
I had enough time to decide on my participation in the study.	Yes	No
I was informed about the questionnaire that I will be asked to complete	Yes	No
I was informed about the storage procedures of the study data.	Yes	No
I was assured about the confidentiality of my personal data. Publication of study results does not disclose personal data. Always according to the principles of confidentiality, I allow experts involved in the study and	Yes	No

signing respective NDAs can utilize the information for the purpose of the study and only for this.		
<i>ADD As many lines as necessary....</i>		
I agree to participate in the study	<b>Yes</b>	<b>No</b>

Date: \_\_\_\_\_

Signature: \_\_\_\_\_

