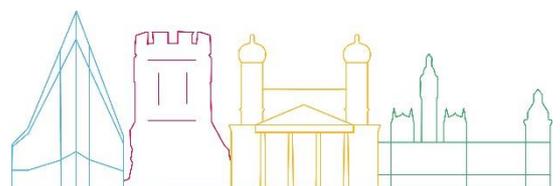




Local partnership and work plan for Valencia

ARCH D3.2

30 October 2020



Deliverable No.	D3.2
Work Package	WP3
Dissemination Level	PU
Author(s)	Emilio Servera (LNV), Lidia Garcia (LNV)
Co-Author(s)	-
Contributor(s)	Saioa Zorita (TEC)
Due date	2020-03-31
Actual submission date	2020-10-30
Status	For submission
Revision	-
	Sonia Giovinazzi (ENEA), 28-09-2020
Reviewed by (if applicable)	Intza Balenciaga (ICLEI), 09-10-2020 Eleanor Chapman (ICLEI), 25-10-2020

This document has been prepared in the framework of the European project ARCH – Advancing Resilience of historic areas against Climate-related and other Hazards. This project has received funding from the European Union’s Horizon 2020 research and innovation programme under grant agreement no. 820999.

The sole responsibility for the content of this publication lies with the authors. It does not necessarily represent the opinion of the European Union. Neither the EASME nor the European Commission are responsible for any use that may be made of the information contained therein.

Contact

arch@iais.fraunhofer.de

www.savingculturalheritage.eu



This project has received funding from the European Union’s Horizon 2020 research and innovation programme under Grant Agreement no. 820999.

Table of contents

Executive Summary	4
1. Where are we?	5
1.1. Target historic areas	5
1.2. Governance framework for cultural heritage management, disaster risk reduction and climate adaptation.....	5
1.3. Expected impacts of climate change and environmental hazards.....	6
1.4. Resilience of historic areas and the larger urban system	6
2. Who are we?	7
2.1. Existing capacity	7
2.2. Capacity gaps	7
2.3. Stakeholder analysis process and results.....	7
2.4. Existing groups and initiatives.....	8
2.5. Our local partnership.....	9
3. Where are we going?	14
3.1. Our overall aim.....	14
3.2. Objectives	14
4. How will we get there?	14
4.1. Work plan	14
4.2. Activities to develop and implement your work plan	15
4.3. Strategy to collaborate with local partners	17
4.4. Checking and reporting on progress	23
5. Reference list.....	24
Annex 1: Stakeholder analysis table.....	26
Annex 2: Work plan matrix	27

Executive Summary

For the **City of Valencia**, this document presents the process and current state regarding the development of a local partnership and work plan focused on the challenges and priorities related to the two ARCH Project focus areas: the Huerta and the Albufera.

Both areas are cultural landscapes, with relevant historic, cultural, natural and agricultural heritage value. They have a shared history and common challenges, as well as a complex governance framework. A clear need to better understand and demonstrate in detail the impacts of possible climate change scenarios on the Huerta and the Albufera was identified in the previous deliverable D3.3 City baseline, along with the necessity to design the corresponding detailed resilience strategies. Furthermore, it was deemed appropriate to gain a better understanding of the way in which both areas help to mitigate the effects of climate change in the city of Valencia. These three areas of work, framed within the overall aim of improving the resilience of the Huerta and the Albufera and demonstrating how they support the city of Valencia in adapting to climate change, have been validated by project partners during the past months, and have therefore been incorporated as objectives for local work in Valencia in this plan.

After a stakeholder analysis was developed (Annex 1), local actors were identified and approached, through a process of collaboration which was inevitably affected by the COVID-19 crisis. Key stakeholders were invited to join the ARCH local partnership in Valencia by means of two online consultations, which have taken place since the Local Launch Event developed in July 23, 2020. Eight specific strategies to advance towards ARCH local objectives have been defined in the work plan matrix (Annex 2), considering as well other specificities of local work. Those strategies have led to the establishment of six different working groups, which currently structure the ARCH Valencia local partnership. The results of the first online consultation have also been used to assess the preliminary potential actions previously identified for the Valencia case by the ARCH partners. Those actions which were considered of interest by the majority of relevant stakeholders have also been included in the work plan matrix, and will be prioritised in ARCH local work in Valencia. Additionally, this document summarises the main planned milestones in relation to local work in Valencia in the framework of the ARCH project, as well as the main activities which will be developed as part of the monitoring and reporting process, both at the ARCH consortium level and in relation to local partners.

Local work plan: Valencia

1. Where are we?

1.1. Target historic areas

The ARCH project focus areas in Valencia are two large cultural landscapes: the Huerta and the Albufera, which partly overlap with one another. The Huerta is one of six remaining irrigated peri-urban farmlands of that type in Europe. It is officially valued as “historic, cultural, natural and agricultural heritage of the Valencian people” [1], while its social and public functions are also recognised by regional law (Article 4, Law 5/2018 [2]) in relation to human welfare, sustainable development and climate change mitigation, among others. Its cultural heritage value has been formally recognised under several designations, such as the 2009 registration of the irrigators’ tribunal of the plain of Valencia on the UNESCO representative list of the intangible cultural heritage of humanity. The Albufera is a wetland of international importance under the Ramsar Agreement, with different natural, semi-natural and agricultural ecosystems, including the large coastal lagoon after which the whole area is known. Its cultural value has also led to relevant designations concerning tangible and intangible heritage, for instance in relation to traditional activities pursued in the area, such as traditional fishing and lateen sailing [3]. Both areas have a shared history and common challenges, as recognised by the Food and Agriculture Organization of the United Nations (FAO) which added the Huerta and part of the Albufera Natural Park to its Globally Important Agricultural Heritage Systems (GIAHS) list in 2019 as one single designated site [4]. Although the Valencia City Council developed a *Sustainable Energy and Climate Action Plan (SECAP)* in 2019 [5] based on previous works such as a vulnerability analysis (VA) [6] [7], no detailed information regarding the expected impacts of climate change on the Huerta and the Albufera could be found within those studies, beyond some brief generic information in relation to the expected impacts on agriculture or potential threats from sea level rise, as well as a brief list of existing and potential impacts in the wetland.

1.2. Governance framework for cultural heritage management, disaster risk reduction and climate adaptation

The most relevant current local plan regarding climate change adaptation is the aforementioned *SECAP*. Other key climate change adaptation documents are the regional *Climate Change Strategy 2020-2030* [8] as well as the *National Adaptation to Climate Change Plan* [9], recently reviewed.

Each of the ARCH target areas has several relevant management instruments, such as the *Huerta Regional Land Use Plan* [1] or the comprehensive regional legislative package, which constitutes the current Albufera Natural Park management scheme [10]. Document 5 of the *Huerta Regional Land Use Plan* is an inventory of protected cultural items in the whole Huerta area, including some items located in the Albufera agricultural areas as well. Several levels of protection are defined, with their corresponding norms. The last revision of the Valencia

masterplan, still pending approval, included a Catalogue of Protected Goods and Areas, whose rural section [11] lists, maps and sets norms relative to the most important heritage items catalogued in both the Huerta and Albufera areas of Valencia. The *Albufera Management Plan* [12] also includes specific rules in relation to cultural heritage (e.g. in Chapter XII). Local and regional stakeholders are also involved in the governance process through various supra-local structures, which are mentioned later in Part 2.4 'Existing groups and initiatives'.

Several regional or local disaster risk reduction documents also deserve to be mentioned, such as the regional *Flood Risk Prevention Plan* (PATRICOVA, [13]) or the local specific operating procedure regarding wildfires in the Devesa del Saler forest within the Albufera area [14].

1.3. Expected impacts of climate change and environmental hazards

Both areas are significantly threatened by climate change and other hazards. Local communities, such as farmers, fisher folk, and other residents in the existing population nuclei in both areas, are also increasingly affected. Furthermore, expected impacts might lead to the loss of the historical and cultural value of the Huerta and the Albufera, as well as their ability to provide other ecosystem services, and therefore affecting Valencia's citizens in general.

Many threats have been identified in Valencia's *City Baseline Report* [15] as common to the Huerta and the Albufera, such as those related to changes in precipitation, wind, lightning or extreme temperatures. Water scarcity and, on the other side, flooding, might also affect both sites, as well as salt water intrusion. Changes in the presence and prevalence of diseases transmitted by vectors, water and air, as well as in insect infestation risk, are also considered potential hazards regarding the Huerta and the Albufera. Furthermore, the Albufera faces additional specific hazards, such as increasing wild fire risk or potential damage due to wave action, as already seen in some recent storms.

1.4. Resilience of historic areas and the larger urban system

The preliminary resilience assessment of the city of Valencia, included within Valencia's *City Baseline Report* [15] identified significant room for improvement in most resilience essential aspects considered at city level. Within the same document, a clear need to better understand and demonstrate in detail the impacts of possible climate change scenarios on the Huerta and the Albufera was identified, as well as the necessity to design detailed resilience strategies in order to cope with these identified impacts. In a cross-cutting manner, additional efforts are needed for gaining a deeper understanding in relation to the multiple interactions among the ARCH target areas, which are considered key elements of Valencia's green and blue infrastructure, and its own resilience. Further work within the ARCH project has confirmed the potential interest of such an approach, aiming at acknowledging and exploring how the Huerta and the Albufera help to mitigate the effects of climate change in the urban environment of Valencia.

2. Who are we?

2.1. Existing capacity

Valencia's core team consists of two agricultural engineers working on the agri-food area within Las Naves (the municipality's centre for social and urban innovation): Project Manager Lidia García and Research and Development (R&D) Officer Emilio Servera. Several other members from Las Naves staff provide ad-hoc support whenever needed in their different areas of expertise, such as Maite Nacher (communication focal point), Julián Torralba (R&D Financial Manager) and Las Naves's Communication and Production teams.

2.2. Capacity gaps

For the time being, the main capacity gaps identified in the context of the ARCH project are related to the size and character of the historic areas selected in Valencia. As both sites under scrutiny are peri-urban cultural landscapes, their characteristics differ from the rest of the ARCH cities' sites: namely due to their agricultural and natural character as well as their complexity and size. These make it harder to accommodate their specific needs within the project's framework. Discussions so far suggest that modelling at the catchment scale as well as other key identified areas for building resilience are likely beyond the scope of the project and the whole consortium.

As mentioned in the *City Baseline Report*, some of these limitations have already been faced in the past by other organisations, and therefore, the knowledge in the field of the Huerta and Albufera's climate change adaptation remains limited. While some ongoing identified projects, such as the current review of the basin hydrological plan, might generate new relevant knowledge for building resilience in the pilot areas, it remains uncertain whether this will be available within the project's timeframe.

2.3. Stakeholder analysis process and results

With a view to establishing a local partnership to support the work outlined later in Parts 3 and 4, an initial list of stakeholders was developed by Las Naves, based on knowledge from previous projects and other existing contact networks. That preliminary list was analysed by ARCH partners Tecnalia and ICLEI, who provided valuable feedback, including some suggestions regarding additional local stakeholders who could also be of interest. Additionally, the Las Naves team developed some preliminary contacts, in order to gather information regarding other stakeholders who could also be invited to take part in the local partnership. The knowledge gathered in the *City Baseline Report* in relation to the governance of the Huerta and the Albufera was also taken into account. A consolidated list of more than sixty stakeholders representing 63 different organisations was then produced, based on all the gathered information. Within the stakeholder analysis table attached (Annex 1), no reference to the specific strategies listed in the work plan matrix (Annex 2) is provided yet, since it was decided the stakeholders themselves should decide to which (if any) work strategies they wanted to contribute once they were informed. The approach followed was to classify

stakeholders in relation to their potential historic area(s) of primary interest (Huerta/Albufera/Both), in order to invite a balanced group of stakeholders to take part in the local activities. This was decided based on the principles of the *Guideline on ARCH co-creation approach* [16], paying special attention to flexibility, which was established as a key criterion to communicate with local stakeholders amidst COVID-19. All invited stakeholders were free to decide the specific strategies to which they were interested in contributing, irrespective of how they had been initially classified.

The COVID-19 crisis affected the whole process in several ways. For instance, it was not possible to make preliminary contact with some of the stakeholders in order to assess their potential interest in taking part in the project. The whole process also took longer than expected, due to the added difficulties for project related work since March 2020, when the health crisis in Spain became life-changing. Finally, it also became apparent that due to the extreme impact this health crisis has had and will continue having in the personal and professional lives of Spaniards, it could become harder to find potential local partners who could find time to contribute to the project.

2.4. Existing groups and initiatives

The Las Naves core team previously took part in another European project (AELCLIC, “Adaptation of European Landscapes to Climate Change” [17], co-funded by EIT Climate-KIC), which worked during 2019 in the Huerta area between Valencia and Alboraya in order to create a local network of stakeholders able to co-define the contents of a potential ‘Landscape Adaptation Plan to Climate Change’ (LACAP). The experience and contacts produced during that project have proven valuable during the current process.

Both the Huerta and the Albufera each have some kind of Council or Board that have been approached. The Huerta Council (“Consell de l’Horta”), created after the passing of the Huerta Law (Law 5/2018), started working on February 2020, and is currently made up of members from the regional, provincial and local authorities of Valencia, as already identified in the *City Baseline Report*. The Albufera Natural Park Management Board (“Junta Rectora”) is also a consolidated group, where the main Albufera stakeholders are present in order to develop some specific functions established in the protected area regulatory framework (for instance, in [18] and [12]). The Las Naves core team can’t be part of those groups due to their regulatory foundation, although both groups have been contacted in order to be able to count on their feedback and participation. Due to the coronavirus pandemic, they are experiencing serious difficulties that affect the performance of their functions, which has added extra difficulties to the stakeholder engagement process.

Some additional relevant working groups have been identified and approached. On one side, the Valencia City Council is promoting a local Nature-Based Solutions roadmap (mainly focused on climate change adaptation in the city), to be developed through a participatory process which started with a workshop in March, 2020 [19]. The ARCH core team contacted the coordinating group of the roadmap development, to indicate their availability to take part in that initiative if deemed appropriate. However, the participatory process is currently on hold due to COVID-19, and therefore, it’s not possible to know if the ARCH team will be finally involved in it. On the other hand, Visit València (a non-profit foundation in which the València

City Council is involved) is developing a Sustainable Tourism Strategy [20], which will also be based on the participation of key local stakeholders. The Las Naves team has already taken part in some of the initial meetings, and formally expressed interest (following an established mechanism) in being involved in the working groups which will be established. Visit València also kindly provided contact details of some local stakeholders which are already involved in relevant local initiatives in relation to sustainable and nature tourism.

2.5. Our local partnership

The local partnership in Valencia currently consists of six different working groups (WGs), constituted in order to contribute to the specific strategies defined in the Work plan matrix (Annex 2), as shown in the following table:

Working Group	Strategies
WG1	Assessing resilience in the Huerta / Building resilience in the Huerta
WG2	Assessing resilience in the Albufera / Building resilience in the Albufera
WG3	Exploring the influence of the Huerta and the Albufera on Valencia’s urban resilience
WG4	Development of an Action Plan on responsible tourism
WG5	Systematisation and management of the local knowledge on climate change and agriculture
WG6	Development and implementation of a climate adaptation awareness raising campaign

Table 1: Valencia’s working groups

The above-mentioned strategies, and thus the 6 WGs, were identified based on specificities of local work in the ARCH Grant Agreement and on previous technical work developed in the past months. WG1 will work in relation to two different strategies (“Assessing resilience in the Huerta” and “Building resilience in the Huerta”). It was decided to join both of them in a single working group since the involved stakeholders were presumably going to be the same. The same applies to WG2 in relation to the work to be developed regarding the Albufera target area. The strategy related to the “Development of an Action Plan on responsible tourism” might need to be refined at a later stage since, as already mentioned, a Sustainable Tourism Strategy at city level is currently under its early stages of development. The Sustainable Tourism Strategy is being developed, among others, by the “Visit València” Foundation, partly managed by the city council, and currently a member of the ARCH Valencia local partnership. The ARCH Grant Agreement stressed the need to coordinate the Action Plan development with the city’s Tourism Department.

Mapped stakeholders (see Annex 1) were invited to join the local partnership, as well as to indicate in which strategies they would be interested in engaging, in order to assign them to specific working groups to be established (please see Section 4 and Annex 2 for details). As

at October 22, 2020, stakeholders belonging to 31 different organisations had agreed to become local partners. Figure 1 shows how these organisations are distributed by sector, while Table 2 summarises the specific working groups which they engaged.

Two stakeholders signed up for some of the WGs but didn't agree to become members of the ARCH Valencia local partnership. Therefore, their organisations are not included in Figure 1 nor Table 2. However, they are accounted for in Figure 2, which shows the total number of stakeholders per working group.

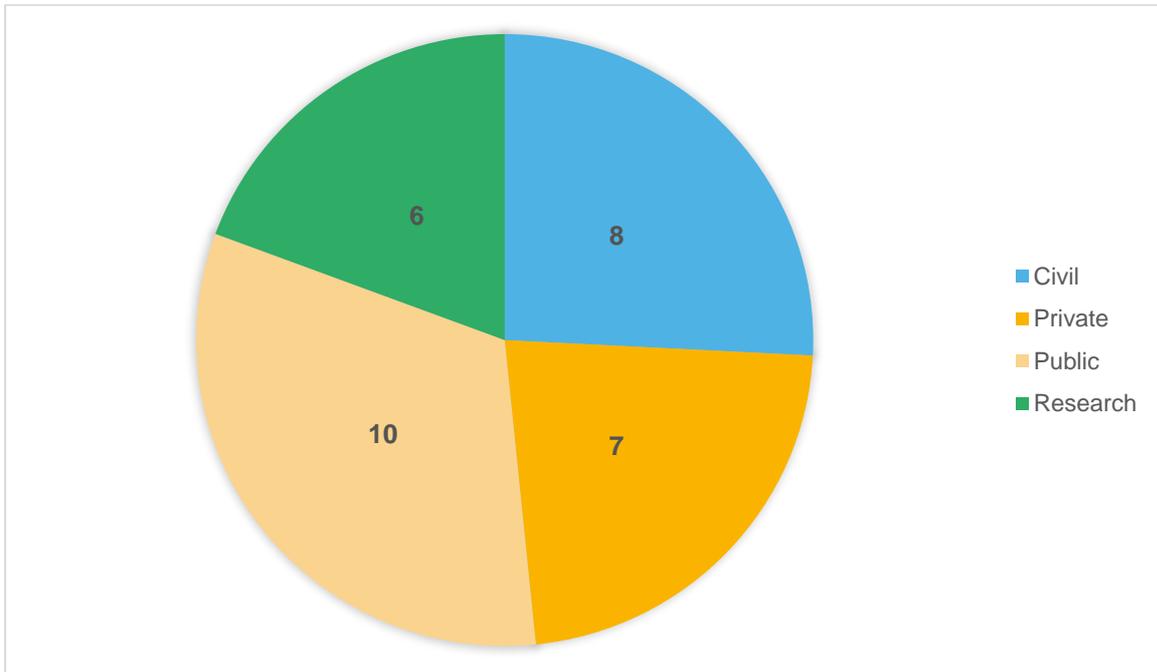


Figure 1: ARCH Valencia local partnership. Type of stakeholder (by sector) (October 22, 2020)

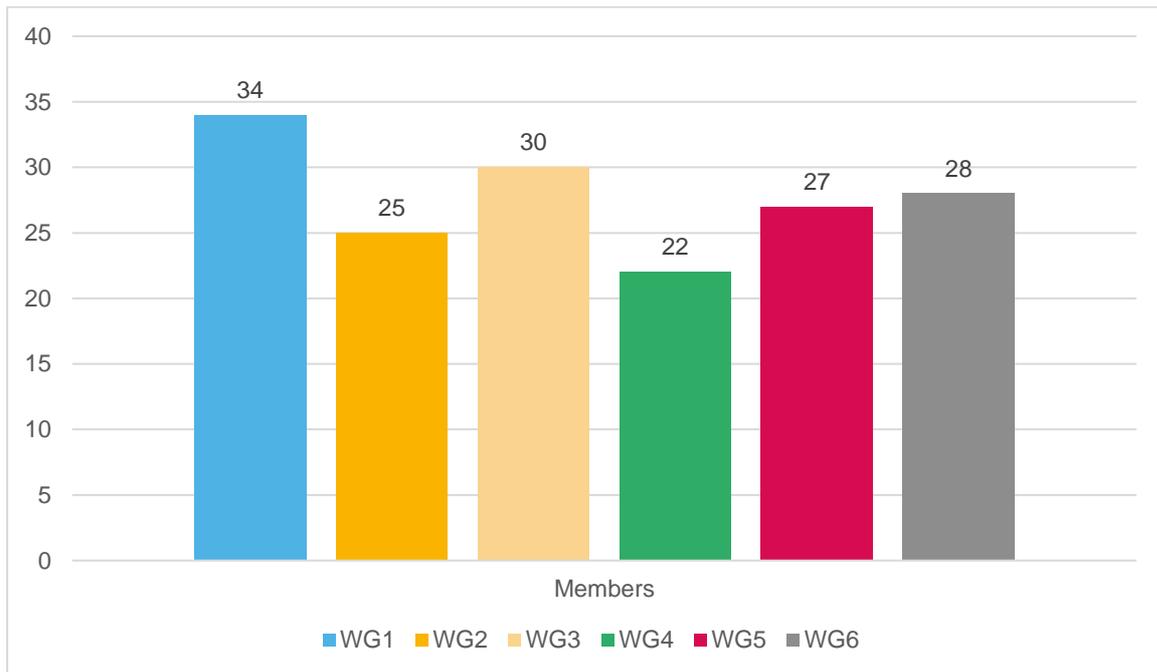


Figure 2: ARCH Valencia WGs. Number of members per working group (October 22, 2020)

Local partner organisation	Sector	WG1	WG2	WG3	WG4	WG5	WG6
Centro de Estudios Rurales y de Agricultura Internacional (CERAI)	Civil	Yes	No	No	Yes	Yes	No
Colegio Oficial de Ingenieros Técnicos Agrícolas y Graduados de Valencia y Castellón (COITAVC)	Civil	Yes	Yes	Yes	Yes	Yes	Yes
Fundación Global Nature	Civil	Yes	Yes	Yes	No	Yes	Yes
Acció Ecologista – Agró	Civil	Yes	Yes	Yes	Yes	No	Yes
Fundació Assut	Civil	Yes	Yes	Yes	Yes	Yes	Yes
Sociedad Española de Ornitología (SEO/BirdLife)	Civil	Yes	Yes	Yes	Yes	Yes	Yes
Colegio Oficial de Ingenieros Agrónomos de Levante (COIAL)	Civil	Yes	Yes	Yes	Yes	Yes	Yes
Justicia Alimentaria	Civil	Yes	No	Yes	No	No	Yes
Green Urban Data	Private	Yes	Yes	Yes	Yes	Yes	Yes
Horta Viva	Private	Yes	No	Yes	Yes	No	No
Descubre L’Horta	Private	Yes	No	Yes	Yes	Yes	Yes
Terra i Xufa, S.L.	Private	Yes	No	No	No	Yes	No
Global Omnium	Private	Yes	Yes	Yes	Yes	Yes	Yes

Local partner organisation	Sector	WG1	WG2	WG3	WG4	WG5	WG6
Valencia Birding	Private	Yes	Yes	Yes	Yes	No	Yes
Turiart Tours	Private	Yes	Yes	Yes	Yes	Yes	Yes
Ajuntament de València / Secció d'Agricultura i Horta	Public	Yes	Yes	Yes	Yes	Yes	Yes
Fundació Visit València	Public	Yes	Yes	Yes	Yes	Yes	Yes
Conselleria d'Agricultura, Desenvolupament Rural, Emergència Climàtica i Transició Ecològica / D.G. Canvi Climàtic	Public	Yes	Yes	Yes	Yes	Yes	Yes
ConSORCI del Consell de l'Horta de València	Public	Yes	No	Yes	Yes	Yes	Yes
Parador de Turismo y Campo de Golf de El Saler	Public	Yes	Yes	Yes	Yes	Yes	Yes
Ajuntament de València / OAM Parques y Jardines y Escuela Municipal de Jardinería y Paisaje de València	Public	Yes	No	Yes	No	Yes	No
Ajuntament de València / Servicio de Energías Renovables y Cambio Climático	Public	Yes	Yes	Yes	No	Yes	Yes
Ministerio para la Transición Ecológica y el Reto Demográfico / Demarcación de Costas en Valencia	Public	Yes	Yes	Yes	Yes	Yes	Yes
València Clima i Energia	Public	Yes	Yes	Yes	Yes	Yes	Yes
Conselleria de Política Territorial, Obres Públiques i Mobilitat / D.G. Política Territorial i Paisatge	Public	Yes	Yes	Yes	No	Yes	Yes
Universitat Politècnica de València / Centro Valenciano de Estudios sobre el Riego	Research	Yes	Yes	No	No	Yes	Yes
Conselleria d'Agricultura, Desenvolupament Rural, Emergència Climàtica i Transició Ecològica / Instituto Valenciano de Investigaciones Agrarias (IVIA)	Research	Yes	No	Yes	No	Yes	Yes
Universitat Politècnica de València / Centro de Investigación en Arquitectura, Patrimonio y Gestión para el desarrollo Sostenible	Research	Yes	Yes	Yes	Yes	No	Yes
Universitat Politècnica de València / Instituto Universitario de Ciencia y Tecnología Animal	Research	Yes	Yes	No	No	Yes	Yes

Local partner organisation	Sector	WG1	WG2	WG3	WG4	WG5	WG6
Universitat Politècnica de València / Centro de Investigación Acuicultura y Medio Ambiente	Research	Yes	Yes	Yes	No	No	Yes
Universitat de València / Unidad de Cambio Global	Research	Yes	Yes	Yes	Yes	Yes	Yes

Table 2: ARCH Valencia local partnership composition (October 22, 2020).

3. Where are we going?

3.1. Our overall aim

To improve the resilience of the Huerta and the Albufera and to demonstrate how they support the city of Valencia in adapting to climate change.

3.2. Objectives

The following first draft of objectives for local work in Valencia has been agreed by project partners, and is included in the Valencia needs / support matrix (an evolving document that was drafted at a 'virtual visit' to Valencia for ARCH scientific partners, organised by the Las Naves core team in March/April 2020):

1. To acknowledge and explore how the Huerta and the Albufera help to mitigate the effects of climate change in the urban environment of Valencia.
2. To understand and demonstrate in detail the impacts of possible climate change scenarios on the Huerta and the Albufera.
3. To design detailed resilience strategies for the Huerta and the Albufera in order to cope with identified impacts.

4. How will we get there?

4.1. Work plan

The work plan matrix is attached to this document as Annex 2, where relevant strategies, actions, and indicators can be found. The stakeholders involved in each strategy are referenced based on the WG nomenclature which can be found in Table 1 above. The work plan matrix might be updated during the project since, for instance, it is still unclear if it will be possible to develop every action which has been initially selected as a priority by local stakeholders (according to the procedure described below).

4.2. Activities to develop and implement your work plan

The following table summarises the main activities to be developed in relation to the local work in Valencia in the framework of the ARCH project.

Year	Milestone type	Objective	When	Target audience	Public or invitation only
2020	Local Launch Event	Kick-off meeting with local stakeholders	July 23	All potential local partners	Invitation
2020	First online consultation	Creation of the local partnership and obtaining input/feedback to be included in the local workplan.	July 23 – September 13	All potential local partners	Invitation
2020 – 2022	Local Working Groups online consultation	Allow new partners to join the local partnership over the whole duration of the project.	Since September 14 2020 to the end of the project.	All potential local partners	Invitation
2020	First local work plan published	Inform local partners and community about activities to be developed in Valencia within the ARCH project. Creation of specific local working groups.	November	Public	Public
2021-2022	Review local work plan and update (if needed)	Monitor local work plan to confirm its validity and to potentially reflect relevant local developments and potential changes to priorities	Every 6 months	Public	Public

Year	Milestone type	Objective	When	Target audience	Public or invitation only
2020-2022	Regular local working group meetings	Monitor and advance local work plan	To be agreed within each established working group, according to local needs ¹	Members of local working groups	Invitation
2020	Local ARCH Dashboard launched ²	Inform local partners and community about local work plan progress	December	Public	Public
2021	Workshop 1, Task 3.4.3 Co-create the Impact and Risk Assessment	DSS CIPCast customisation	To be agreed with scientific partners	End users to be identified	Invitation
2021	Workshop 1, Task 3.4.4 Co-create Resilience Options and Pathways	Identifying resilience options	To be agreed with scientific partners	End users to be identified	Invitation
2022	Workshop 2, Task 3.4.4 Co-create Resilience Options and Pathways	Validate and adjust pathway approach	To be agreed with scientific partners	End users to be identified	Invitation
2021 - 2022	Other Stakeholder workshops	Define user needs for other Tasks/Deliverables	To be agreed with scientific partners	End users to be identified	Invitation

¹ At the time of writing, it was not yet possible to yet define a schedule for future meetings with WGs. Likely this will differ between WGs depending on stakeholders' interests and capacity, and WG members may potentially be consulted on whether certain tasks require meetings, or whether input may rather be gathered via an online questionnaire, for instance, when suitable.

² For further details see section on "Checking and reporting on progress"

Year	Milestone type	Objective	When	Target audience	Public or invitation only
2022	Action Plan on responsible tourism developed	Attract tourists interested in the heritage assets of the city and increase their awareness about climate change impacts	To be agreed	Public	Public
2022	Systematised access to local knowledge on climate change and agriculture	Improve access to already available knowledge from city and other actors regarding local mitigation and adaptation to climate change and agriculture	To be agreed	Public	Public
2022	Climate adaptation awareness raising campaign developed and implemented	Increase stakeholders' and citizens' awareness	To be agreed	Public	Public

Table 3: Calendar of activities

4.3. Strategy to collaborate with local partners

With continued uncertainty surrounding local work due to the restrictions caused by the COVID-19 pandemic, it was decided to prioritise online activities in the short-to-medium term. Work procedures will be tailored to the needs and priorities of each specific local WG, and will be adjusted to local conditions as the project develops. Being extra kind and comprehensive, making things easy and interesting, as well as leaving the doors open are considered as some of the guiding principles in the relationship with local stakeholders, in order to facilitate engagement.

The process of collaboration with local stakeholders formally began with the **Local Launch Event**, which took place on July 23, 2020 with support from Tecnalía and ICLEI. The initially mapped stakeholders were invited to an online, private session, broadcast via YouTube and also available later as an on-demand video, where the ARCH project and the local team members were presented. The city case objectives and potential actions were introduced, as well as the ARCH co-creation framework and the first online consultation. The main contents

from the *ARCH Guideline on co-creation approach* (D3.1, [16]) were presented as the basis for the vision, principles and practical framework for working together during the course of the project.

During the session, it was also explained that local stakeholders who wanted to take part in the local partnership should fill a multi-language online form (**First online consultation**), which allowed stakeholders to answer in either of the two official languages in Valencia (Spanish and Valencian), and remained open until September 13, 2020. During the period from the local launch event to the end of the first online consultation, some additional stakeholders were also invited to take part in the local partnership based on suggestions by already engaged local partners. These newly invited stakeholders were provided with the links to watch the on-demand Local Launch Event video on YouTube and to fill the first online consultation if they were interested in taking part in the project.

The online form used in the first online consultation was designed to allow local partners to indicate the local strategies to which they were interested in contributing, and in turn to provide a basis for the WGs described above, providing invited local stakeholders the opportunity to take part in every local ARCH activity, or just in some of them, based on their interests and availability. They could also provide some feedback on the preliminary potential actions identified for the Valencia case based on previous work by the ARCH partners. In particular, stakeholders were able to select those actions which they considered useful in order to develop each relevant strategy of their interest.

By the end of the first online consultation, 21 local stakeholders had filled it and agreed to take part in some of the 6 established WGs. Only 20 of them are formally considered members of the local partnership, since one stakeholder was only interested in taking part in some of the actions but didn't want to be engaged as a local partner. Table 4 shows the number of members of each WG as at September 14, 2020 (after the first online consultation ended).

Working Group	Number of members
WG1	21
WG2	15
WG3	17
WG4	15
WG5	17
WG6	17

Table 4: Number of members per working group. September 14, 2020

The following tables indicate the priorities for the local work, established according to the answers received in the first online consultation. For each WG, the preliminary potential actions identified for the Valencia case (based on previous work by the ARCH partners) are ranked based on the number of WG members who considered them of interest. Those actions which

were chosen by at least half of the WG members are highlighted in bold and included in Annex 2, within the relevant strategy. Such actions will be prioritised in ARCH local work in Valencia, although it is still unclear if it will be possible to develop all of them. Future updates of the work plan might consequently redefine the scope of each proposed strategy. Annex 2 also shows some additional actions within each strategy (shown in italics) which are not included in the following tables, since stakeholders were not consulted on them as part of the first online consultation. The development of such actions was already clear based on the ARCH grant agreement, and therefore there was no reason for stakeholder consultation about them. Nonetheless, each of these actions has been assigned to a WG based on logical thematic links, and interested stakeholders will be given the opportunity to take part in the related co-creation activities.

Action	Number of times chosen
Climate change vulnerability and risk assessment	18
Systematic generation of monitoring and assessment indicators based on satellite imagery (temperature, land use, status of vegetation, etc)	17
Calculation of expected changes in relevant agro-climatic indices under regional climate change scenarios	14
Systematic generation of monitoring and assessment indicators based on sensor data (weather, air quality, etc)	12
Surface-water run-off modelling in the Huerta	11
Detailed crop status monitoring of a small Huerta area, based on UAV multi-spectral imaging	8
Systematic generation of monitoring and assessment indicators based on elevation data (morphology, slope, etc)	5
3D modelling for analysis of crops and structures of a small Huerta area, based on UAV data	4

Table 5: Local priorities for WG1

Action	Number of times chosen
Climate change vulnerability and risk assessment	13
Systematic generation of monitoring and assessment indicators based on satellite imagery (temperature, land use, status of vegetation, etc)	12
Systematic generation of monitoring and assessment indicators based on sensor data (weather, air quality, etc)	11
Calculation of expected changes in relevant agro-climatic indices under regional climate change scenarios	10
Modelling of future changes in wildfire risk at the Devesa del Saler	8
Systematic generation of monitoring and assessment indicators based on elevation data (morphology, slope, etc)	7
Detailed vegetation status monitoring of a small Albufera area, based on UAV multi-spectral imaging	4
3D modelling for analysis of vegetation and structures of a small Albufera area, based on UAV data	2

Table 6: Local priorities for WG2

Action	Number of times chosen
Thermal modelling of the cooling effect of the Huerta and the Albufera in the city of Valencia	15
Definition of adaptation pathways	15
Satellite imagery-based analysis of thermal differences between Valencia areas adjacent to the Huerta and the Albufera and the rest of the city	13

Table 7: Local priorities for WG3

Action	Number of times chosen
Design of environmental awareness materials and activities, tourism-oriented, in relation to the potential climate change impacts on the Huerta and the Albufera	12
Development of innovative nature tourism products for the Huerta and the Albufera	11
Nature tourism sector climate change vulnerability and risk assessment (due to temperature rise) in the Huerta and the Albufera	10

Table 8: Local priorities for WG4

Action	Number of times chosen
Development of information exchange and communication activities in relation to climate change and agriculture, based on existing platforms (such as AdapteCCa)	14
Development of information exchange and communication activities in relation to climate change and agriculture, based on the development of new platforms	11

Table 9: Local priorities for WG5

Action	Number of times chosen
Design of other training and awareness raising resources related to climate change adaptation	15
Organisation and development of training and awareness raising activities, with active involvement by other interested stakeholders	15
Design of other communication resources related to climate change adaptation	12
Involvement in training and awareness raising activities organised by other stakeholders	12
Writing science communication pieces related to climate change adaptation	11

Table 10: Local priorities for WG6

The stakeholders who filled the First Online Consultation were also given the opportunity to propose additional actions which could be developed within the framework of each WG (beyond those preliminary options identified for the Valencia case by the ARCH partners). Some proposals were made, and their suitability will be assessed by the corresponding ARCH research partners and, if deemed appropriate, subject to later validation by the whole relevant WG.

An additional multi-language online questionnaire (**Local Working Groups online consultation**) was set up after the first online consultation ended. The objective of this questionnaire was to allow invited stakeholders who had not answered the initial questionnaire within the specified time limit to be able to indicate during the course of the project their interest in joining the local partnership, and the specific WGs to which they would like to contribute. This questionnaire was set up as a simplified version of the first online consultation, without opportunities to provide feedback on the potential actions identified for the Valencia case based on previous work by the ARCH partners.

Until October 22, 2020, 13 additional stakeholders had filled this questionnaire. Only 12 of them are considered members of the local partnership, since one stakeholder was only interested in taking part in some of the activities and did not want to be formally engaged as a local partner.

The local partnership at the time of writing is therefore formed by 32 stakeholders from 31 different organisations, as shown in Table 2, plus two additional stakeholders interested in collaborating with 5 of the established working groups without being formally considered as members of the local partnership.

The Informed Consent Form annexed to ARCH D1.3 “Data Management Plan” was also translated and adapted into a Yes/No question format in order to be included in both questionnaires. An open question was also added to both questionnaires specifically related to potential ways through which contact and work with local partners could be improved, taking into account the health crisis in Spain since March 2020. This question was designed to allow stakeholders to make any kind of suggestion as to how local work should develop during the next months. Suggestions received in that regard until October 22, 2020 included for instance specific additional stakeholders which could be approached, or a general recommendation regarding the already identified need to coordinate local ARCH work with other projects and working groups currently active.

A specific e-mail address (arch@lasnaves.com) was also created and presented in the Local Launch Event and online questionnaires, as an additional way of contacting the Las Naves ARCH team, for any kind of suggestion, comment or question.

4.4. Checking and reporting on progress

Monitoring and reporting will be carried out following two different but complementary approaches:

1. At the ARCH consortium level, the internally established procedures will be followed, including the use of the ARCH Local Partnerships self-assessment tool (a checklist), which will be filled and shared internally at least once per year. Minutes and documentation will be shared via online project management platform Confluence, as well as an attendance list if possible, whose format will be adapted to ongoing circumstances, (which will also determine the ways in which local activities can be carried out). Collaboration with other partners will continue, for instance through the already well-established internal channels, such as the monthly calls with all pilot cities.
2. In relation to local partners, as established for instance in the *Guideline on ARCH co-creation approach*, meeting agendas and minutes will be shared with them, in principle via email. Besides other mechanisms which could be established following ARCH internal procedures, a Local Dashboard will be set up by the Las Naves team in the form of a public website. It will be used as a user-friendly information and engagement tool, as it will allow to easily visualise and track the trends and status of the key indicators established in the Work Plan Matrix (Annex 2). The possibility to use the Local Dashboard as an access hub for information generated at local level will also be assessed. In order to increase transparency and dissemination, public access to the Local Dashboard will be granted. To increase cooperation and engagement, besides some aspects already mentioned in the previous section, the use of novel tools such as online apps and web maps will be prioritised if possible. Online meetings will be recorded and made available later as video on demand for those members of the respective working group who are unable to attend live, whenever possible.

5. Reference list

- [1] Conselleria de Vivienda, Obras Públicas y Vertebración del Territorio, “Plan de acción territorial de ordenación y dinamización de la Huerta de València,” 2018. [Online]. Available: <http://politicaterritorial.gva.es/es/web/planificacion-territorial-e-infraestructura-verde/pat-horta-de-valencia>. [Accessed 29 July 2020].
- [2] Presidencia de la Generalitat, “LEY 5/2018, de 6 de marzo, de la Generalitat, de la Huerta de València,” 12 March 2018. [Online]. Available: http://www.dogv.gva.es/es/disposicio-consolidada?signatura=002588/2018&url_lista=. [Accessed 21 Feb. 2020].
- [3] Conselleria de Educación, Cultura y Deporte, “Actividades tradicionales de la Albufera de Valencia,” [Online]. Available: <http://www.ceice.gva.es/patrimonio-cultural/ficha-inmaterial.php?id=23129&lang=es>. [Accessed 25 Feb. 2020].
- [4] Food and Agriculture Organization of the United Nations, “Historical Irrigation System at l'Horta de València, Spain,” 2020. [Online]. Available: <http://www.fao.org/giahs/giahsaroundtheworld/designated-sites/europe-and-central-asia/historical-waterscape-of-lhorta-de-valencia/en>. [Accessed 14 Oct 2020].
- [5] Ajuntament de València, “Sustainable Energy and Climate Action Plan of Valencia,” 2019. [Online]. Available: https://www.covenantofmayors.eu/about/covenant-community/signatories/action-plan.html?scity_id=11935. [Accessed 29 July 2020].
- [6] Factor CO2, “Análisis de vulnerabilidad al cambio climático del municipio de Valencia,” 25 March 2015. [Online]. Available: https://mycovenant.eumayors.eu/docs/document/15441_1507911537.pdf. [Accessed 29 July 2020].
- [7] Factor CO2, “Análisis de vulnerabilidad al cambio climático del municipio de Valencia. Extensión del informe previo de fecha 25 de marzo de 2015,” 30 March 2016. [Online]. Available: [https://www.valencia.es/ayuntamiento/Energias.nsf/0/57AABB553B187CC8C1257F8700396AD6/\\$FILE/An%C3%A1lisis_vulnerabilidad.pdf?OpenElement&lang=1](https://www.valencia.es/ayuntamiento/Energias.nsf/0/57AABB553B187CC8C1257F8700396AD6/$FILE/An%C3%A1lisis_vulnerabilidad.pdf?OpenElement&lang=1). [Accessed 29 July 2020].
- [8] Conselleria de Agricultura, Desarrollo Rural, Emergencia Climática y Transición Ecológica, “Estrategia Valenciana de Cambio Climático y Energía 2030,” 2019. [Online]. Available: <http://www.agroambient.gva.es/es/web/cambio-climatico/2020-2030>. [Accessed 29 July 2020].
- [9] Ministerio para la Transición Ecológica y el Reto Demográfico, “Plan Nacional de Adaptación al Cambio Climático,” 2020. [Online]. Available: <https://www.miteco.gob.es/es/cambio-climatico/temas/impactos-vulnerabilidad-y-adaptacion/plan-nacional-adaptacion-cambio-climatico/>. [Accessed 29 July 2020].
- [10] Conselleria de Agricultura, Medio Ambiente, Cambio Climático y Desarrollo Rural, “Legislación del Parque Natural de l'Albufera,” [Online]. Available: <http://www.parquesnaturales.gva.es/es/web/pn-l-albufera/legislacion-del-parque>. [Accessed 29 July 2020].
- [11] Ajuntament de València, “CATÁLOGO DE BIENES Y ESPACIOS PROTEGIDOS. De origen Rural.,” 2012. [Online]. Available: <https://www.valencia.es/ayuntamiento/urbanismo.nsf/vDocumentosTituloAux/59554911F786991DC125798F003A1AB1?OpenDocument&bdOrigen=ayuntamiento%2Furbanismo.nsf&idapoyo=693E082FE52C3836C125798F0039D4DB&lang=1>. [Accessed 14 Oct. 2020].
- [12] Conselleria Territorio y Vivienda, “DECRETO 259/2004, de 19 de noviembre, del Consell de la Generalitat, por el que se aprueba el Plan Rector de Uso y Gestión del Parque Natural de

- l'Albufera.,” 24 Nov 2004. [Online]. Available: <https://www.dogv.gva.es/es/eli/es-vc/d/2004/11/19/259/>. [Accessed 15 Oct 2020].
- [13] Conselleria de Política Territorial, Obras Públicas y Movilidad, “PATRICOVA Plan de Acción Territorial de carácter sectorial sobre prevención del Riesgo de Inundación en la Comunitat Valenciana,” 2015. [Online]. Available: <http://politicaterritorial.gva.es/es/web/planificacion-territorial-e-infraestructura-verde/patricova-plan-de-accion-territorial-de-caracter-sectorial-sobre-prevencion-del-riesgo-de-inundacion-en-la-comunitat-valenciana>. [Accessed 29 July 2020].
- [14] Ajuntament de València, “PROCEDIMIENTO OPERATIVO DE ACTUACIÓN EN INCENDIOS FORESTALES EN LA DEVESA DEL SALER,” 2017. [Online]. Available: [valencia.es/ayuntamiento/bomberos.nsf/0/6DBD12EB83938BD7C125827A003B276F/\\$FILE/PROCOP%201.11%20INCENDIOS%20FORESTALES%20EN%20LA%20DEVESA%20DEL%20SALER.pdf?OpenElement&lang=1](http://valencia.es/ayuntamiento/bomberos.nsf/0/6DBD12EB83938BD7C125827A003B276F/$FILE/PROCOP%201.11%20INCENDIOS%20FORESTALES%20EN%20LA%20DEVESA%20DEL%20SALER.pdf?OpenElement&lang=1). [Accessed 29 July 2020].
- [15] L. García, G. Roig, E. Servera, S. Zorita, E. Chapman, D. Lückerath, K. Nickel, O. Ulrich, S. Giovinazzi and L. Giordano, “City baseline report – Valencia. ARCH D3.3,” March 2020. [Online]. Available: https://savingculturalheritage.eu/fileadmin/user_upload/Deliverables/ARCH_D3_3_City_baseline_report_Valencia.pdf. [Accessed 29 July 2020].
- [16] V. Latinos and E. Chapman, “Guideline on ARCH co-creation approach ARCH D3.1,” 2019. [Online]. Available: https://savingculturalheritage.eu/fileadmin/user_upload/Deliverables/ARCH_D3.1_Guideline_on_co-creation_approach.pdf. [Accessed 21 Oct. 2020].
- [17] AELCLIC, “AELCLIC PATHFINDER,” 2019. [Online]. Available: <https://aelcllicpathfinder.com/>. [Accessed 23 Oct. 2020].
- [18] Conselleria de Agricultura, Medio Ambiente, Cambio Climático y Desarrollo Rural, “DECRETO 52/2019, de 29 de marzo, del Consell, de modificación del Decreto 71/1993, de régimen jurídico del Parque Natural de l'Albufera,” 11 April 2019. [Online]. Available: http://www.dogv.gva.es/es/disposicio?id=4213&sig=003370/2019&L=1&url_lista=+. [Accessed 22 Feb. 2020].
- [19] Ajuntament de València, “VALÈNCIA CANVIA PEL CLIMA! 2020. Informe de conclusiones.,” 2020. [Online]. Available: http://canviclimatic.org/wp-content/uploads/2020/05/VCC-040302020-LN-Informe-de-Resultados_web.pdf. [Accessed 15 Oct 2020].
- [20] Fundació Visit València, “Estrategia de sostenibilidad turística VLC 2030,” 2020. [Online]. Available: <https://www.visitvalencia.com/fundacion-turismo-valencia/turismo-y-ciudad/estrategia-turismo-sostenible-valencia-2030>. [Accessed 30 July 2020].

Annex 1: Stakeholder analysis table

STAKEHOLDER ANALYSIS TABLE

(Local partners as at October 22, 2020 highlighted in bold)

Activity	To be determined. Potential target historic areas of primary interest: Huerta and Albufera			
Sector	Organisation	Relationship with municipality (if any)	Information (what useful information can they provide?)	Impacts (how, if at all, are they impacted by the issue?)
Public	Ajuntament de València / Área de Ecología Urbana, Emergencia Climática y Transición Energética	City council “Urban Ecology, Climate Emergency and Energy Transition” Area	Coordination with other relevant initiatives in relation to climate change and urban ecology.	Besides being in charge of measures related to climate change, this wide-ranging area of the municipality has also responsibilities on the Albufera area, water management, beaches or air quality, among others, all of them facing significant impacts due to climate change.
Public	Ajuntament de València / Servicio de Energías Renovables y Cambio Climático	City council “Climate emergency and renewable energy” Service, part of the “Urban Ecology, Climate Emergency and Energy Transition” Area.	Coordination with other relevant initiatives in relation to climate change.	Due to the broad scope of responsibilities held by the whole Area, due consideration has been given to its particular department in charge of climate change measures.
Public	Ajuntament de València / Secció d'Agricultura i Horta	City council “Agriculture and Huerta” section, part of the “Innovative Development of	Coordination with other relevant initiatives in relation to agriculture and Huerta.	They are aware of the whole range of impacts that climate change and other hazards have and will continue having on agriculture and on the Huerta long-term sustainability.

Activity	To be determined. Potential target historic areas of primary interest: Huerta and Albufera			
Sector	Organisation	Relationship with municipality (if any)	Information (what useful information can they provide?)	Impacts (how, if at all, are they impacted by the issue?)
		Economic Sectors and Employment” Area.		
Public	Ajuntament de València / OAM Consell Agrari Municipal de València	“Valencia Local Agriculture Council”, autonomous body part of the city council organizational structure.	Coordination with other relevant initiatives in relation to agriculture and Huerta.	They are aware of the whole range of impacts that climate change and other hazards have and will continue having on agriculture and on the Huerta long-term sustainability.
Public	Ajuntament de València / OAM Parques y Jardines y Escuela Municipal de Jardinería y Paisaje de València	Autonomous Body, Part of the city council organizational structure, in charge of Parks and gardens, and the local School of gardening.	Coordination with other relevant initiatives in relation to urban greenery. The project might support their area of intervention in relation to urban adaptation trough green spaces.	They are aware of the whole range of impacts that climate change and other hazards have and will continue having on Valencia parks and gardens, and the role those green areas have in relation to urban adaptation to climate change.
Public	Ajuntament de València / Servicio de Patrimonio Histórico y Artístico	City council “Historic and Artistic Heritage”, part of the “Education, Culture and Sports” Area.	Coordination with other relevant initiatives in relation to local heritage.	Climate Change and other natural hazards will increasingly impact heritage resources for which they are responsible.
Public	Ajuntament de València / Museu d’història de València	City council history museum, within the “Historic and Artistic Heritage”, part of the	Coordination with other relevant initiatives in relation to local heritage.	Climate Change and other natural hazards will increasingly impact heritage resources for which they are responsible.

Activity	To be determined. Potential target historic areas of primary interest: Huerta and Albufera			
Sector	Organisation	Relationship with municipality (if any)	Information (what useful information can they provide?)	Impacts (how, if at all, are they impacted by the issue?)
		"Education, Culture and Sports" Area.		
Public	Ajuntament de València / Delegación de igualdad y políticas inclusivas	City council "Equality and Inclusive Policies" Delegation within the "Welfare and Social Rights" Area.	Equality analysis, policies, and solutions.	Climate Change and other natural hazards disproportionately affect women, some studies show.
Public	Ajuntament de València / Área de Protección Ciudadana	City council "Citizen's Protection" Area	Fire risk and other disaster reduction policies.	Climate Change increases the risk of some of the disasters under their responsibility. They're in charge of fire prevention risk in the Devesa forest in the Albufera area.
Public	València Clima i Energia	Foundation part of the city council organizational structure.	Coordination with other relevant initiatives in relation to climate change.	Resilience and adaptation are within their core areas of work.
Public	Fundació Visit València	Foundation part of the city council organizational structure.	Local initiatives regarding nature tourism and the environmental impacts of tourism. In charge of the Sustainable Tourism Strategy currently under development, and other actions related to the linkages between climate change and tourism.	They are in charge in promoting nature tourism in the city, which might be severely affected by climate change. They're also aware of the impacts that tourism has on climate change and other environmental issues, and are working towards mitigating them.
Public	Conselleria d'Agricultura,	"Climate Change" Directorate General	Regional initiatives regarding climate change. (Responsible of the development	As responsible body of regional climate change initiatives and actions which are aligned with

Activity	To be determined. Potential target historic areas of primary interest: Huerta and Albufera			
Sector	Organisation	Relationship with municipality (if any)	Information (what useful information can they provide?)	Impacts (how, if at all, are they impacted by the issue?)
	Desenvolupament Rural, Emergència Climàtica i Transició Ecològica / D.G. Canvi Climàtic	within the Regional Department on Agriculture, Rural Development, Climate Emergency and Ecological Transition.	of the Regional Climate Change Law and the coordination and monitoring of the implementation of the Regional Climate Change Strategy).	the ARCH project, the successful development of local action within ARCH might contribute to their own objectives.
Public	Conselleria de Política Territorial, Obres Públiques i Mobilitat / D.G. Política Territorial i Paisatge	“Territorial Policy and Landscape” Directorate General within the Regional Department on Territorial Policy, Public Works and Mobility.	Initiatives and priorities mainly related to the Huerta area and the coastline. (Responsible for the Huerta Land Use Plan and other relevant plans, such as the Coastal Green Infrastructure Plan (PATIVEL)).	Impacts by climate change are explicitly considered in their work, for instance in the Coastal Green Infrastructure Plan. They are commissioned by the regional government in the Valencian Climate Change Strategy to develop several research actions related to climate change inter linkages with land use and landscape, among other.
Public	Conselleria d'Agricultura, Desenvolupament Rural, Emergència Climàtica i Transició Ecològica / D.G. de Desenvolupament Rural	“Agriculture, Livestock and Fishing” Directorate General within the Regional Department on Agriculture, Rural Development, Climate Emergency and Ecological Transition	Regional initiatives regarding agriculture and rural development.	Some of the ARCH local actions might be relevant at advancing knowledge regarding the multiple climate change impacts on agriculture and the rural environment.

Activity	To be determined. Potential target historic areas of primary interest: Huerta and Albufera			
Sector	Organisation	Relationship with municipality (if any)	Information (what useful information can they provide?)	Impacts (how, if at all, are they impacted by the issue?)
Public	Conselleria d'Agricultura, Desenvolupament Rural, Emergència Climàtica i Transició Ecològica / Servei de Producció Ecològica, Innovació i Tecnologia	"Organic Farming, Innovation and Technology" Service within the Regional Department on Agriculture, Rural Development Climate Emergency and Ecological Transition	Regional initiatives regarding organic farming.	As responsible body of promoting organic farming, some of the ARCH local actions might be relevant at advancing knowledge regarding the interlinkages between organic farming and climate change mitigation and adaptation.
Public	Conselleria de Agricultura, Desarrollo Rural, Emergencia Climática y Transición Ecológica / Comité de Agricultura Ecológica de la Comunitat Valenciana (CAECV)	"Committee of Ecological Agriculture of the Valencian Community", in charge of regional certification of organic agri-food products under the authority of the Regional Department on Agriculture, Rural Development, Climate Emergency and Ecological Transition.	Regional initiatives regarding organic farming.	Some of the ARCH local actions might be relevant at advancing knowledge regarding the interlinkages between organic farming and climate change mitigation and adaptation.

Activity	To be determined. Potential target historic areas of primary interest: Huerta and Albufera			
Sector	Organisation	Relationship with municipality (if any)	Information (what useful information can they provide?)	Impacts (how, if at all, are they impacted by the issue?)
Civil	Fundación Global Nature	Foundation involved in several projects in the municipality.	Relevant experience in relation to agriculture adaptation to climate change and other sustainability areas.	Working on conservation, agriculture, and other areas impacted by climate change.
Civil	Coordinadora de Organizaciones de Agricultores y Ganaderos (COAG)	Farmer union involved in several projects in the municipality.	Relevant experience in relation to the creation of resilience regarding agriculture.	Working on agriculture, one of the most vulnerable sectors to climate change.
Civil	Associació Valenciana d'Agricultors (AVA/ASAJA)	Farmer union involved in several projects in the municipality.	Relevant experience in relation to the creation of resilience regarding agriculture.	Working on agriculture, one of the most vulnerable sectors to climate change.
Civil	La Unió de Llauradors i Ramaders	Farmer union involved in several projects in the municipality.	Relevant experience in relation to the creation of resilience regarding agriculture.	Working on agriculture, one of the most vulnerable sectors to climate change.
Civil	Fundació Assut	Foundation involved in several projects in the Huerta and Albufera areas.	Relevant experience in relation to the creation of resilience regarding agriculture and natural ecosystems.	Extensive work on Huerta and Albufera, aware of climate change impacts on both areas and the need to adapt.
Civil	Tribunal de las Aguas	The Court of Waters (irrigators' tribunal of the plain of Valencia), a traditional institution solving	Water use and governance issues in the agricultural areas of the municipality.	Working on agriculture, one of the most vulnerable sectors to climate change, among others due to the future changes in water availability.

Activity	To be determined. Potential target historic areas of primary interest: Huerta and Albufera			
Sector	Organisation	Relationship with municipality (if any)	Information (what useful information can they provide?)	Impacts (how, if at all, are they impacted by the issue?)
		conflicts on the use of irrigation water in the plain of Valencia		
Civil	Colegio Oficial de Ingenieros Agrónomos de Levante (COIAL)	Professional association of Agricultural Engineers (long-cycle degree), working on Valencia and Balearic regions and its linked foundation	Relevant experience in relation to the creation of resilience regarding agriculture and natural ecosystems.	Working on agriculture, one of the most vulnerable sectors to climate change.
Civil	Colegio Oficial de Ingenieros Técnicos Agrícolas y Graduados de Valencia Y Castellón (COITAVC)	Professional association of Agricultural Engineers (short-cycle degree), working on part of the Valencia region.	Relevant experience in relation to the creation of resilience regarding agriculture and natural ecosystems.	Working on agriculture, one of the most vulnerable sectors to climate change.
Private	Global Omnium	Water management business group based on Valencia.	Relevant experience in relation to water management. Involved in local initiatives regarding nature tourism and the environmental impacts of tourism due to some of their areas of work as well as part of their corporate social responsibility strategy.	Potential climate change impacts on water management in the Mediterranean area are considered a key issue of concern.

Activity	To be determined. Potential target historic areas of primary interest: Huerta and Albufera			
Sector	Organisation	Relationship with municipality (if any)	Information (what useful information can they provide?)	Impacts (how, if at all, are they impacted by the issue?)
Private	Asociación de Guías de Birding de la Comunitat Valenciana	Professional association of birdwatching guides, working on the whole Valencia region.	Relevant information regarding sustainable tourism and other matters.	Potentially affected by climate change impacts on the natural environment and the nature tourism sector.
Private	Valencia Birding	Tourist company, based on Valencia, providing guided bird watching day-trips and holidays. Member of the professional association of birdwatching guides, working on the whole Valencia region.	Relevant information regarding sustainable tourism and other matters.	Potentially affected by climate change impacts on the natural environment and the nature tourism sector.
Private	Green Urban Data	Start-up based on València, supported by Col-lab (accelerator program by Las Naves) and involved in several projects with the municipality.	Remote sensing of environmental indicators, with a strong focus on climate change adaptation. Highly specialized on providing easy access to remote sensing data, especially in urban environments.	Their work is highly focused on climate change adaptation in urban environments.

Activity	To be determined. Potential target historic areas of primary interest: Huerta and Albufera			
Sector	Organisation	Relationship with municipality (if any)	Information (what useful information can they provide?)	Impacts (how, if at all, are they impacted by the issue?)
Private	Turiart Tours	Tourist company providing cultural tourism programs and guided tours across the Valencian region	Involved in local initiatives regarding nature tourism and the environmental impacts of tourism.	Potentially affected by climate change impacts on heritage, the natural environment, and the tourism sector.
Research	Universitat de València / Unidad de Cambio Global	Global Change research unit, based on one of the main Universities in Valencia.	Remote sensing specialists. Past work in the Albufera, and regarding the Urban Heat Island effect, among other relevant scientific issues.	Research unit specialized in remote sensing, studying some climate change impacts, inter alia.
Research	Universitat Politècnica de València / Cátedra Tierra Ciudadana	One of the key institutions promoting and supporting the Globally Important Agricultural Heritage System (GIAHS) proposal. Involved in additional initiatives with the municipality. University chair based on Valencia.	Focused on agriculture, food and rural development.	Involved in several initiatives regarding the Huerta and Albufera.

Activity	To be determined. Potential target historic areas of primary interest: Huerta and Albufera			
Sector	Organisation	Relationship with municipality (if any)	Information (what useful information can they provide?)	Impacts (how, if at all, are they impacted by the issue?)
Research	Universitat Politècnica de València / Cátedra Estructuras Agrarias	Focused on improving farming systems at regional level. University chair based on Valencia.	Improving resiliency for the agricultural areas under study.	Involved in several initiatives regarding agriculture.
Research	Universitat Politècnica de València / Cátedra Cambio Climático	University chair focused on climate change. Funded by the regional government, and based on Valencia.	Relevant information on climate change adaptation, including research at local and regional level.	The whole purpose of the chair is promoting training, awareness-raising and dissemination activities in relation to climate change. They're recognised as a relevant stakeholder in that regards in the Valencian Climate Change Strategy.
Research	Universitat Politècnica de València / Centro de Investigación en Arquitectura, Patrimonio y Gestión para el desarrollo Sostenible	Research Center on Architecture, Heritage and Management for Sustainable Development, based on Valencia.	Involved in several projects and initiatives in relation to nature tourism and heritage.	Relevant to their core research areas.
Research	Universitat Politècnica de València / Instituto Universitario de Ciencia y Tecnología Animal	Institute for Animal Science and Technology, based on Valencia.	Involved in several projects and initiatives in relation to climate change and agronomy.	Relevant to their core research areas. Researchers involved in several broad research initiatives in relation to climate change and agriculture.
Research	Conselleria d'Agricultura, Desenvolupament	Valencian Institute for Agricultural Research, an organ of	Relevant information on agricultural systems resilience. Relevant experience on dealing with agricultural issues such as	Focused, among other things, on promoting relevant research for the agri-food regional sector. They're commissioned by the regional

Activity	To be determined. Potential target historic areas of primary interest: Huerta and Albufera			
Sector	Organisation	Relationship with municipality (if any)	Information (what useful information can they provide?)	Impacts (how, if at all, are they impacted by the issue?)
	Rural, Emergència Climàtica i Transició Ecològica / Instituto Valenciano de Investigaciones Agrarias (IVIA)	the Regional Department on Agriculture, Rural Development, Climate Emergency and Ecological Transition.	salinization or drought on a local and regional scale.	government in the Valencian Climate Change Strategy to develop several research actions related to climate change adaptation in the Valencian agriculture.
Research	Conselleria d'Agricultura, Desenvolupament Rural, Emergència Climàtica i Transició Ecològica / Centro de Estudios Ambientales del Mediterráneo (CEAM)	"Mediterranean Center for Environmental Studies", which depends on the Regional Department on Agriculture, Rural Development, Climate Emergency and Ecological Transition	Information related to their research activities, mainly focused on the atmosphere, ecosystems, human activities, and their interactions.	Some of the ARCH local actions might be relevant at advancing knowledge regarding climate change mitigation and adaptation, which is one of their working areas.
Research	Conselleria d'Educació, Cultura i Esport / Institut Valencià de Conservació, Restauració i Investigació (IVCR+i)	"Conservation, Restoration and Research Valencian Institute", an organ of the Regional Department on Education, Culture and Sports	Coordination with other initiatives in relation to regional heritage, including some related to disaster risk prevention and mitigation.	Climate Change and other natural hazards will increasingly impact heritage resources for which they are responsible.

Activity	To be determined. Potential target historic area of primary interest: Huerta			
Sector	Organisation	Relationship with municipality (if any)	Information (what useful information can they provide?)	Impacts (how, if at all, are they impacted by the issue?)
Public	Consorti del Consell de l'Horta de València	Partnership made up of members from the regional and provincial governments, and the Municipality of Valencia. The rest of the municipalities part of the Huerta area will join later.	Initiatives and priorities regarding the Huerta area. Potential contact point for many Huerta stakeholders.	Working primarily on agriculture, one of the most vulnerable sectors to climate change. According to the regional Huerta Law, one of its main objectives is guaranteeing the survival and promoting the revitalisation of agricultural activities in the Huerta. Therefore, climate change and other climatic hazards need to be considered by them.
Civil	Per l'Horta	Grassroots organization heavily involved in the promotion of actions and policies in support of the Huerta in Valencia and its surrounding municipalities.	Initiatives and priorities regarding the Huerta area in particular and green infrastructure in general. Potential contact point for many Huerta stakeholders.	Supporting the Huerta is their core objective, and they're aware of the potential impacts in the area due to climate change, as well as its ability to contribute to the adaptation of the city of Valencia.
Civil	Justicia Alimentaria	Based on Valencia, involved in several projects with the municipality.	Association promoting food sovereignty and social awareness.	They're aware of the multiple linkages between their core areas of work and climate change.

Activity	To be determined. Potential target historic area of primary interest: Huerta			
Sector	Organisation	Relationship with municipality (if any)	Information (what useful information can they provide?)	Impacts (how, if at all, are they impacted by the issue?)
Civil	Centro de Estudios Rurales y de Agricultura Internacional (CERAI)	Based on Valencia, involved in several projects with the municipality.	Promotion of sustainable rural development, food sovereignty and agroecology.	They're aware of the multiple linkages between their core areas of work and climate change.
Private	Terra i Xufa, S.L.	Producers and traders of organic fruits and vegetables from the Huerta. Members of the MercaValencia management board (biggest agri-food centre in the region, established as a company whose majority owner is the Valencia city council)	Interested in sustainable development and agroecology. Assessment of the relevance and viability of the ARCH proposals from the producers' point of view.	They're aware of the multiple linkages between agriculture and climate change.
Private	Horta viva	Company promoting agrotourism and educational activities in the whole Huerta area.	Relevant information in relation to the planned activities related to sustainable tourism, among other.	Their work is based on the sustainability of agriculture and the Huerta landscape.
Private	Descubre L'Horta	Company promoting agrotourism and educational activities	Relevant information in relation to the planned activities related to sustainable tourism, among	Their work is based on the sustainability of agriculture and the Huerta landscape.

Activity	To be determined. Potential target historic area of primary interest: Huerta			
Sector	Organisation	Relationship with municipality (if any)	Information (what useful information can they provide?)	Impacts (how, if at all, are they impacted by the issue?)
		in the whole Huerta area.	other. Involved in local initiatives regarding nature tourism and the environmental impacts of tourism.	
Private	Consejo Regulador de la Denominación de Origen Chufa de Valencia	Regulating Board for the “Chufa de Valencia” designation of origin, including growers from València and other Huerta municipalities.	Contact point for information on traditional, local tigernut (“chufa”, one of the most important Huerta crops) varieties and affiliated production companies.	Working on agriculture, one of the most vulnerable sectors to climate change.
Research	Universitat de València / Càtedra L’Horta de València: territori metropolità	University chair funded by Las Naves. Involved in many initiatives with the municipality.	Relevant information in relation to the Huerta history and heritage, among other.	Their core area of research is the study of the Huerta.
Research	Universitat Politècnica de València / Centro de Investigación Acuicultura y Medio Ambiente	Research Center on Aquaculture and Environment. Based on Valencia, supported the Globally Important Agricultural Heritage System (GIAHS) proposal.	They have developed relevant research on the Huerta resiliency, and promoted several related projects such as AELCLIC.	They’re aware of the multiple linkages between their core areas of work and climate change.

Activity	To be determined. Potential target historic area of primary interest: Huerta			
Sector	Organisation	Relationship with municipality (if any)	Information (what useful information can they provide?)	Impacts (how, if at all, are they impacted by the issue?)
Research	Universitat Politècnica de València / Instituto de Ingeniería del Agua y Medio Ambiente	Institute for Water and Environmental Engineering. Based on Valencia, relevant work on the whole region.	They have developed relevant research on multiple aspects related to climate change adaptation in agriculture and natural areas, inter alia.	Climate change adaptation is one of their core areas of work.

Activity	To be determined. Potential target historic area of primary interest: Albufera			
Sector	Organisation	Relationship with municipality (if any)	Information (what useful information can they provide?)	Impacts (how, if at all, are they impacted by the issue?)
Public	Ajuntament de València / Servicio Devesa-Albufera	“Devesa-Albufera” Service, associated to the local “Urban Ecology, Climate Emergency and Energy Transition” Area.	Relevant information in relation to the Albufera area.	Due to the broad scope of responsibilities held by the whole Area, due consideration has been given to its particular department in charge of the Albufera area.
Public	Conselleria d'Agricultura, Desenvolupament Rural, Emergència Climàtica i Transició Ecològica / Parc Natural de l'Albufera	Albufera Natural Park associated staff within the Regional Department on Agriculture, Rural Development, Climate Emergency and Ecological Transition	Relevant information in relation to the Albufera area. The Natural Park management board might act as a potential contact point for many Albufera stakeholders.	They're aware of the multiple vulnerabilities in the area due to climate change and other hazards.
Public	Conselleria d'Agricultura, Desenvolupament Rural, Emergència Climàtica i Transició Ecològica / D.G. de Medi Natural i d'Avaluació Ambiental	Directorate General on “Natural Environment and Environmental Assessment”, within the Regional Department on Agriculture, Rural Development, Climate Emergency	Relevant information in relation to the Albufera area.	They're commissioned by the regional government in the Valencian Climate Change Strategy to develop several research actions related to climate change inter linkages with the Valencian natural ecosystems.

Activity	To be determined. Potential target historic area of primary interest: Albufera			
Sector	Organisation	Relationship with municipality (if any)	Information (what useful information can they provide?)	Impacts (how, if at all, are they impacted by the issue?)
		and Ecological Transition		
Public	Ministerio para la Transición Ecológica y el Reto Demográfico / Confederación Hidrográfica del Júcar	Jucar Basin Management Agency, autonomous body of the National Department on Ecological Transition and Demographic Challenge	Responsible for water management and activities taking place around water bodies. Currently updating the river basin management plan. In charge of a sensor network in the Albufera.	According to Spanish Laws, they must take into account climate change during the process of updating the basin management plan.
Public	Ministerio para la Transición Ecológica y el Reto Demográfico / Demarcación de Costas en Valencia	Valencia Province Coast Management Body (National Authority, depending on the National Department on Ecological Transition and Demographic Challenge).	Powers regarding activities in the coastal zone. Currently developing several projects around the Albufera coastline.	They're aware of the need to develop climate change adaptation actions in the coastline, and already involved in some projects related to the matter.
Public	Parador de Turismo y Campo de Golf de El Saler	Tourism facility located in the Devesa del Saler area within the municipality (in the Albufera Natural Park). It belongs to a public company	Relevant experience on sustainable tourism experiences in the Albufera area. Involved in local initiatives regarding nature tourism and the environmental impacts of tourism.	Well aware of the need to develop tourism activities in a sustainable way. They're located in the Devesa del Saler area, and would therefore be negatively affected by any impacts on the area due to climate change.

Activity	To be determined. Potential target historic area of primary interest: Albufera			
Sector	Organisation	Relationship with municipality (if any)	Information (what useful information can they provide?)	Impacts (how, if at all, are they impacted by the issue?)
		(Paradores de Turismo de España S.M.E.,S.A), owned by the State.		
Civil	Sociedad Española de Ornitología (SEO/BirdLife)	NGO involved in several projects in the Albufera area.	Relevant experience on conservation needs of the Albufera, and potential climate change impacts and resiliency strategies.	Conservation NGO involved in several initiatives regarding climate change.
Civil	Acció Ecologista – Agró	NGO involved in several projects in the Albufera area.	Relevant experience on conservation needs of the Albufera, and potential climate change impacts and resiliency strategies.	Conservation NGO involved in several initiatives regarding climate change.
Private	Consejo Regulador de la Denominación de Origen Arroz de Valencia	Regulating Board for the “Arroz de Valencia” designation of origin, including growers from València and other Albufera municipalities.	Contact point for information on traditional, local rice varieties and affiliated production companies.	Working on agriculture, one of the most vulnerable sectors to climate change.
Private	Comunidad de Pescadores de El Palmar	"El Palmar" Fishing Community, involved in several projects in the Albufera area.	Relevant information in relation to traditional fishing activities.	The eutrophication problems in the lake might get worsened due to climate change, negatively impacting their work.

Activity	To be determined. Potential target historic area of primary interest: Albufera			
Sector	Organisation	Relationship with municipality (if any)	Information (what useful information can they provide?)	Impacts (how, if at all, are they impacted by the issue?)
Private	Cooperativa Valenciana Unió Protectora d'El Perelló	Agricultural cooperative working on the Albufera area.	Relevant information in relation to traditional crop varieties in the Albufera area.	Working on agriculture, one of the most vulnerable sectors to climate change.
Private	Albufera Parc	Tourist company working on the Albufera area.	Relevant information in relation to sustainable tourism in the Albufera.	Their work is based on the sustainability of agriculture and the Albufera landscape.
Private	VisitAlbufera	Tourist company working on the Albufera area.	Relevant information in relation to sustainable tourism in the Albufera.	Their work is based on the sustainability of agriculture and the Albufera landscape.
Private	Mirador de la Albufera	Tourist company working on the Albufera area.	Relevant information in relation to sustainable tourism in the Albufera.	Their work is based on the sustainability of agriculture and the Albufera landscape.
Research	Universitat de València / Laboratorio de Limnología	Limnology Laboratory based on one of the main Universities in Valencia.	Relevant information in relation to eutrophication in the lake. Have been studying the wetland for decades.	The eutrophication problems in the lake, one of their core research areas, might get worsened due to climate change.
Research	Universitat Politècnica de València / Centro Valenciano de Estudios sobre el Riego	Valencian Centre for Irrigation Studies, based on Valencia. Involved in several projects in the Albufera area.	Relevant research in relation to the soil and water salinization processes in the Albufera.	One of their core research areas is the study of the salinization trends in the Albufera soils and water.

Activity	To be determined. Potential target historic area of primary interest: Albufera			
Sector	Organisation	Relationship with municipality (if any)	Information (what useful information can they provide?)	Impacts (how, if at all, are they impacted by the issue?)
Research	Universitat Politècnica de València / Grupo de Cartografía GeoAmbiental y Teledetección (CGAT)	Geo-Environmental Cartography and Remote Sensing Group, based on Valencia. Involved in several projects along the whole region coastline.	Specialized in coastline monitoring via satellite imagery.	Some of their core research areas are potentially relevant for resilience and impacts monitoring.
Research	Consejo de Cámaras de Comercio, industria, Servicios y Navegación de la Comunidad Valenciana	Valencian Chambers of Commerce, based on Valencia. Involved in several projects across the region.	Involved in the promotion of sustainable tourism in the Albufera via the Delta Lady Interreg Europe project.	They are working on developing innovative solutions for using natural and cultural resources to improve local economies. Climate change might suppose an added challenge.
Research	Instituto IMDEA Agua	Research Institute based on Madrid. Currently involved in a water quality monitoring project in the Albufera lagoon.	Experts on water quality monitoring.	Some of their core research areas are potentially relevant for resilience and impacts monitoring.

Annex 2: Work plan matrix

ARCH D3.2 Local partnership and work plan: Valencia									
Work plan matrix									
Note: actions in italics derive from the ARCH grant agreement and were identified in 2018, prior to the project beginning. Other actions have been identified and prioritised in consultation with local stakeholders since the project began in 2019.									
Overall aim: To improve the resilience of the Huerta and the Albufera and to demonstrate how they support the city of Valencia in adapting to climate change.									
Objective 1: To acknowledge and explore how the Huerta and the Albufera help to mitigate the effects of climate change in the urban environment of Valencia									
Strategy	Action within the strategy	Indicator	Responsibility (lead/support)	Stakeholders involved (indicate whether local partner or other stakeholder)	Related plan, policy or strategy (existing or future)	Link to ARCH scientific partners' tasks (if known)	Implementation period	Status (for monitoring purposes)	Notes
Explore the influence of the Huerta and the Albufera in Valencia's urban resilience	Thermal modelling of the cooling effect of the Huerta and the Albufera in the city of Valencia	Maps of land use influence on temperature of the peri-urban area of Valencia generated and available via the ARCH Hub.	Lead: Tec. Support: LNV	WG3	Valencia Sustainable Energy and Climate Action Plan Valencia Green and Biodiversity Plan	T5.1 Hazard models for impact estimation	Delivered by M30	Not started	Data collection will be necessary from Valencia's stakeholders. Ideally within 2020 so that modelling can be run within first months of 2021
	Satellite imagery-based analysis of thermal differences between Valencia areas adjacent to the Huerta and the Albufera and the rest of the city	Accessibility to temperature satellite maps through the ARCH Hub on place	Lead: INGV. Support: LNV	WG3	Valencia Sustainable Energy and Climate Action Plan Valencia Green and Biodiversity Plan	T4.3 Information Management about Environmental Hazards	Delivered by M28	Not started	
	Support reviews of management / climate change adaptation plans	Management/Climate change adaptation plans review supported	Lead: FHG. Support: LNV, Tecnalia	WG3	Valencia Sustainable Energy and Climate Action Plan Valencia Green and Biodiversity Plan	T3.4 Co-create methods and tools for making historic areas more resilient T7.3 ARCH disaster risk management framework	Delivered by M36	Not started (support request pending)	It's not clear yet if any plan review will be supported.
	Definition of adaptation pathways	Resilience assessments, development of a few adaptation actions and pathway available via the ARCH Hub	Lead: Tec, SOG. Support: LNV	WG3	Valencia Sustainable Energy and Climate Action Plan Valencia Green and Biodiversity Plan	T3.4 Co-create methods and tools for making historic areas more resilient T6.4 Resilience pathway design T6.3 Inventory and categorisation of funding opportunities	Delivered by M36	Not started	Once it is validated and thermal modelling has started, co-creation may start around M27
Development and implementation of a climate adaptation awareness raising campaign	Design of other training and awareness raising resources related to climate change adaptation	At least 4 dissemination activities carried out every year (either by organisation of the activity or by collaboration in activities organised by other stakeholders and partners).	Lead: LNV. Support: ICLEI, TECNALIA	WG6	Valencia Sustainable Energy and Climate Action Plan Regional Climate Change Strategy 2020-2030	T3.5.5 City case Valencia	2020-2022	Not started	
	Organisation and development of training and awareness raising activities, with active involvement by other interested stakeholders	At least 4 dissemination activities carried out every year (either by organisation of the activity or by collaboration in activities organised by other stakeholders and partners).	Lead: LNV. Support: ICLEI, TECNALIA	WG6	Valencia Sustainable Energy and Climate Action Plan Regional Climate Change Strategy 2020-2030	T3.5.5 City case Valencia	2020-2022	Ongoing	
	Design of other communication resources related to climate change adaptation	At least 4 dissemination activities carried out every year (either by organisation of the activity or by collaboration in activities organised by other stakeholders and partners).	Lead: LNV. Support: ICLEI, TECNALIA	WG6	Valencia Sustainable Energy and Climate Action Plan Regional Climate Change Strategy 2020-2030	T3.5.5 City case Valencia	2020-2022	Not started	
	Involvement in training and awareness raising activities organised by other stakeholders	At least 4 dissemination activities carried out every year (either by organisation of the activity or by collaboration in activities organised by other stakeholders and partners).	Lead: LNV. Support: ICLEI, TECNALIA	WG6	Valencia Sustainable Energy and Climate Action Plan Regional Climate Change Strategy 2020-2030	T3.5.5 City case Valencia	2020-2022	Not started	
	Writing science communication pieces related to climate change adaptation	At least 4 dissemination activities carried out every year (either by organisation of the activity or by collaboration in activities organised by other stakeholders and partners).	Lead: LNV. Support: ICLEI, TECNALIA	WG6	Valencia Sustainable Energy and Climate Action Plan Regional Climate Change Strategy 2020-2030	T3.5.5 City case Valencia	2020-2022	Ongoing	
Objective 2: To understand and demonstrate in detail the impacts of possible climate change scenarios on the Huerta and the Albufera									
Strategy	Action within the strategy	Indicator	Responsibility (lead/support)	Stakeholders involved (indicate whether local partner or other stakeholder)	Related plan, policy or strategy (existing or future)	Link to ARCH scientific partners' tasks (if known)	Implementation period	Status (for monitoring purposes)	Notes
Assessing resilience in the Huerta	Climate change vulnerability and risk assessment	Indicator-based climate change vulnerability and risk assessment developed	Lead: ENEA; Support: FHG, Tec, UNICAM, LNV	WG1	Valencia Sustainable Energy and Climate Action Plan Regional Climate Change Strategy 2020-2030	T3.4.3 Co-create the Impact and Risk Assessment	Delivered by M33	Not started	
	Systematic generation of monitoring and assessment indicators based on satellite imagery (temperature, land use, status of vegetation, etc)	Systematic generation of monitoring and assessment indicators based on satellite imagery implemented and available via the ARCH Hub	Lead: INGV; Support: FHG, Tec, LNV, ENEA, RFSAT	WG1	Valencia Sustainable Energy and Climate Action Plan Regional Climate Change Strategy 2020-2030	T4.1 Sensing and Data Repositories T4.2 Information Management about Historic Areas T4.3 Information Management about Environmental Hazards	Delivered by M28	Not started	
	Systematic generation of monitoring and assessment indicators based on sensor data (weather, air quality, etc)	Systematic generation of monitoring and assessment indicators based on sensor data implemented and available via the ARCH Hub	Lead: RFSAT ; Support: FHG, Tec, LNV, ENEA, INGV	WG1	Valencia Sustainable Energy and Climate Action Plan Regional Climate Change Strategy 2020-2030	T4.1 Sensing and Data Repositories T4.2 Information Management about Historic Areas T4.3 Information Management about Environmental Hazards	Delivered by M28	Not started	
	Surface-water run-off modelling in the Huerta	Surface-water run-off modelling in the Huerta developed and available via the ARCH Hub.	Lead: Tec. Support: LNV	WG1	Valencia Sustainable Energy and Climate Action Plan Valencia Green and Biodiversity Plan	T5.1 Hazard models for impact estimation	Delivered by M30	Not started	
Assessing resilience in the Albufera	Climate change vulnerability and risk assessment	Indicator-based climate change vulnerability and risk assessment developed	Lead: ENEA; Support: FHG, Tec, UNICAM, LNV	WG2	Valencia Sustainable Energy and Climate Action Plan Regional Climate Change Strategy 2020-2030	T3.4.3 Co-create the Impact and Risk Assessment	Delivered by M33	Not started	
	Systematic generation of monitoring and assessment indicators based on satellite imagery (temperature, land use, status of vegetation, etc)	Systematic generation of monitoring and assessment indicators based on satellite imagery implemented and available via the ARCH Hub	Lead: INGV; Support: FHG, Tec, LNV, ENEA, RFSAT	WG2	Valencia Sustainable Energy and Climate Action Plan Regional Climate Change Strategy 2020-2030	Task 4.1 Sensing and Data Repositories Task 4.2 Information Management about Historic Areas Task 4.3 Information Management about Environmental Hazards	Delivered by M28	Not started	
	Systematic generation of monitoring and assessment indicators based on sensor data (weather, air quality, etc)	Systematic generation of monitoring and assessment indicators based on sensor data implemented and available via the ARCH Hub	Lead: RFSAT ; Support: FHG, Tec, LNV, ENEA, INGV	WG2	Valencia Sustainable Energy and Climate Action Plan Regional Climate Change Strategy 2020-2030	T4.1 Sensing and Data Repositories T4.2 Information Management about Historic Areas T4.3 Information Management about Environmental Hazards	Delivered by M28	Not started	
	Modelling of future changes in wildfire risk at the Devesa del Saler	Modelling of future changes in wildfire risk at the Devesa del Saler developed and available via the ARCH Hub	Lead: RFSAT ; Support: FHG, Tec, LNV, ENEA, INGV	WG2	Valencia Sustainable Energy and Climate Action Plan Regional Climate Change Strategy 2020-2030	T4.3 Information Management about Environmental Hazards	Delivered by M28	Not started	

Objective 3: To design detailed resilience strategies for the Huerta and the Albufera in order to cope with identified impacts									
Strategy	Action within the strategy	Indicator	Responsibility (lead/support)	Stakeholders involved (indicate whether local partner or other stakeholder)	Related plan, policy or strategy (existing or future)	Link to ARCH scientific partners' tasks (if known)	Implementation period	Status (for monitoring purposes)	Notes
Building resilience in the Huerta	Assessment and identification of resilience strategies and funding opportunities for the Huerta	Resilience assessments, development of a few adaptation actions and pathway available via the ARCH Hub	Lead: LNV Support: Tec, SOG, FhG.	WG1	Valencia Sustainable Energy and Climate Action Plan Huerta Land Use and Agriculture Development Plans Regional Climate Change Strategy 2020-2030	T3.4 Co-create methods and tools for making historic areas more resilient T6.4 Resilience pathway design T6.3 Inventory and categorisation of funding opportunities	Delivered by M36	Not started	
	Support collection and access to data and information	At least 10 local stakeholders registered as users in the ARCH Hub to access data and information via the ARCH RAD	Lead: FhG. Support: LNV, Tec	WG1		T7.3 ARCH disaster risk management framework T7.5 Interface specification and system architecture T7.6 System realisation T7.7 Continuous system integration and validation	Delivered by M36	Not started	
	Calculation of expected changes in relevant agro-climatic indices under regional climate change scenarios	Climate projections incorporated in relevant information for the agri-stakeholders and available via the ARCH Hub	Lead: Tec, LNV. Support: Relevant work by other partners.	WG1	Valencia Sustainable Energy and Climate Action Plan Regional Climate Change Strategy 2020-2030	T3.4.2 Co-create the Hazard and Object Information Management System T4.3 Information Management about Environmental Hazards	Delivered by M28	Not started	Selection of indices and output format by local stakeholders is required.
Building resilience in the Albufera	Assessment and identification of resilience strategies and funding opportunities for the Albufera	Resilience assessments, development of a few adaptation actions and pathway available via the ARCH Hub	Lead: LNV Support: Tec, SOG, FhG.	WG2	Valencia Sustainable Energy and Climate Action Plan Albufera Natural Park Management Plan Regional Climate Change Strategy 2020-2030	T3.4 Co-create methods and tools for making historic areas more resilient T6.4 Resilience pathway design T6.3 Inventory and categorisation of funding opportunities	Delivered by M36	Not started	
	Support collection and access to data and information	At least 10 local stakeholders registered as users in the ARCH Hub to access data and information via the ARCH RAD	Lead: FhG. Support: LNV, Tec	WG2		T7.3 ARCH disaster risk management framework T7.5 Interface specification and system architecture T7.6 System realisation T7.7 Continuous system integration and validation	Delivered by M36	Not started	
	Calculation of expected changes in relevant agro-climatic indices under regional climate change scenarios	Climate projections incorporated in relevant information for the agri-stakeholders and available via the ARCH Hub	Lead: Tec, LNV. Support: Relevant work by other partners.	WG2	Valencia Sustainable Energy and Climate Action Plan Regional Climate Change Strategy 2020-2030	T3.4.2 Co-create the Hazard and Object Information Management System T4.3 Information Management about Environmental Hazards	Delivered by M28	Not started	Selection of indices and output format by local stakeholders is required.
Development of an Action Plan on responsible tourism	Design of environmental awareness materials and activities, tourism-oriented, in relation to the potential climate change impacts on the Huerta and the Albufera	Environmental awareness materials and activities developed.	Lead: LNV. Support: Relevant work by other partners.	WG4	Sustainable Tourism Strategy	T3.5.5 City case Valencia	2020-2022	Preliminary contacts with key stakeholders	This strategy might need to be refined at a later stage since a Sustainable Tourism Strategy at city level is currently under its early stages of development.
	Development of innovative nature tourism products for the Huerta and the Albufera	Innovative nature tourism products developed.	Lead: LNV. Support: Relevant work by other partners.	WG4	Sustainable Tourism Strategy	T3.5.5 City case Valencia	2020-2022	Preliminary contacts with key stakeholders	This strategy might need to be refined at a later stage since a Sustainable Tourism Strategy at city level is currently under its early stages of development.
	Nature tourism sector climate change vulnerability and risk assessment (due to temperature rise) in the Huerta and the Albufera	Nature tourism sector climate change vulnerability and risk assessed.	Lead: LNV. Support: Relevant work by other partners.	WG4	Sustainable Tourism Strategy	T3.5.5 City case Valencia	2020-2022	Preliminary contacts with key stakeholders	This strategy might need to be refined at a later stage since a Sustainable Tourism Strategy at city level is currently under its early stages of development.
Systematisation and management of the local knowledge on climate change and agriculture	Development of information exchange and communication activities in relation to climate change and agriculture, based on existing platforms (such as AdapteCCA)	Access to at least 25 relevant local resources in relation to climate change and agriculture systematised via existing or new information hubs.	Lead: LNV. Support: Relevant work by other partners.	WG5		T3.5.5 City case Valencia	2020-2022	Not started	
	Development of information exchange and communication activities in relation to climate change and agriculture, based on the development of new platforms	Access to at least 25 relevant local resources in relation to climate change and agriculture systematised via existing or new information hubs.	Lead: LNV. Support: Relevant work by other partners.	WG5		T3.5.5 City case Valencia	2020-2022	Not started	