

## Supplementary Material S1 – ES list for each assessment method

Table S1 - ES list for ES mapping and assessment method

ES Category	ES
Provisioning	Crops
	Forage, pasture
	Game/fish
	Raw materials (timber, fiber)
	Wild fruits
	Medical plants
	Genetic resources
	Drinking water
Regulating	Carbon sequestration
	Air purification
	Water flow regulation
	Water purification
	Floods control
	Pollination and seed dispersal
	Pests control
	Habitat for diversity
Cultural	Landscape aesthetic
	Recreational value
	Inspiration for culture, arts, educational and spiritual values, sense of identity

Table S2 – ES list for experts-based assessment method

ES Category	ES
Provisioning	Agricultural products
	Raw materials (timber, fiber)
	Wild fruits
	Water resources
Regulating	Carbon sequestration
	Air purification
	Water flow regulation
	Water purification
	Water purification
	Floods control
	Noise pollution
	Extreme events mitigation
	Pollination and seed dispersal
	Habitat for biodiversity
Cultural	Landscape aesthetic
	Recreational value
	Inspiration for culture, arts, educational and spiritual values, sense of identity

Table S3 - ES list for residents' perception method

ES Category	ES
Provisioning	Economic value
Regulating	Biodiversity value
	Life sustaining value
Cultural	Aesthetic value
	Cultural value

ES Category	ES
	Future value
	Historic value
	Intrinsic value
	Learning value
	Recreation value
	Spiritual value
	Therapeutic value

## Supplementary Material S2—Questionnaire used in experts-based analysis

General information (Age; Gender; Education)

### Questions

1) On the basis of your experience and the information acquired before and during the workshop, please indicate the relevance (from 1 - very low to 5 - very high) of each ecosystem service connected to the Agricultural Park area at present (in the case of who cannot attribute importance to ecosystem service, write "NS - I don't know").

ES Category	ES	Description	Relevance (from 1 – very low a 5 – very high; IDK – I don't know)
Provisioning	Agricultural products	Vegetables, fruit and farm products from agricultural land in the Park	
	Raw materials (timber, fiber)	Wood products for work or for energy use from the Park's land	
	Wild fruits	Wild fruits, medicinal plants, etc. present in the Park	
	Water resources	Presence in the Park of springs and water basins for drinking, irrigation, industrial use, etc.	
Regulating	Carbon sequestration	Carbon sequestration by the Park vegetation	
	Air purification	Urban temperature regulation	
	Water flow regulation	The soil and vegetation of the Park allow rainwater to infiltrate, regulating runoff and flooding	
	Water purification	Purification of waste water and fixation of nutrients by the green areas of the Park	
	Water purification		
	Floods control	The park allows for the reduction of erosion related to water and wind	
	Noise pollution	Reduction of noise pollution by the Park vegetation	
	Extreme events mitigation	The Park prevents the negative effects of extreme events (e.g. thunderstorms, floods, heat waves)	
	Pollination and seed dispersal	The Park area provides habitats for birds, insects including pollinators	
	Habitat for biodiversity	The Park provides habitats for birds and other animals	
Cultural	Landscape aesthetic	The park provides opportunities	

		for outdoor recreation and recreation in contact with nature	
	Recreational value	The park provides opportunities for outdoor recreation and recreation in contact with nature	
	Inspiration for culture, arts, educational and spiritual values, sense of identity	The park offers the opportunity to enjoy the aesthetic value of the landscape	

2) For the 3 ecosystem services that you consider most important among those identified above, would you be able to indicate who contributes to providing them, who benefits from them (both directly and indirectly) and what or who can hinder or reduce their supply?

3) Could you locate on the map of the Casal del Marmo area where these 3 important ecosystem services originate, so which portion of the Agricultural Park are they associated with? (draw a circle on the map and inside it the number of the corresponding ecosystem service)?

### Supplementary Material S3—Questionnaire used in residents' perception analysis

General information (Age; Gender; Education, Job, Marital status, Income)

#### Questions

1) We would like to know which values of the Casal del Marmo Agricultural Park area are important to you. Imagine having 100 euros (N.B. not real money) to save the social and cultural values of the Agricultural Park, how would you spend them? (among the 12 values below you can choose to spend 100 euros on a single value and 0 euros on the others or divide the expense between the different values; their final sum must in any case be 100 euros)

ES Category	ES	Description	Expenditure
Provisioning	Economic value	The area is important to me because it provides opportunities for economic development for the entire municipality (e.g. agriculture, tourism, etc.)	
Regulating	Biodiversity value	The area is important to me because it supports the life of many plants and animals	
	Life sustaining value	The area is important to me because it helps purify the air and water and keep it fertile	
Cultural	Aesthetic value	The area is important to me because I can enjoy a beautiful view and pleasant sounds and smells	
	Cultural value	The area is important to me because it is a place to pass on and keep alive ancient knowledge and traditions	
	Future value	The area is important to me because it is a heritage for future generations	
	Historic value	The area is important to me because it presents places and things of historical interest for the entire city	
	Intrinsic value	The area is important to me regardless of everything else (e.g. the presence of people, etc.)	
	Learning value	The area is important to me because it offers the opportunity to learn about the environment and agricultural activities through observation or direct experience	
	Recreation value	The area is important to me because it is a place where I can carry out outdoor recreational activities	
	Spiritual value	The area is important to me because it is a spiritually special place and because it instills a sense of respect and veneration for the environment	
	Therapeutic value	The area is important to me because it is a place that makes me feel better physically and mentally	

2) Compared to the most important values you chose in the previous question, can you indicate on the map the places where the three most important values for you are present?