Appendix 4. PSP workshop outputs

Table A4.1 Description of the PSP backcasting strategies resulting from applying the visual tool approach. Each strategy and its description is shown with task/s to be developed by the identified stakeholders, and their willingness' values assigned by workshop participants [[a] Each stakeholder is identified according to stakeholders' ID (Appendix 3) / [b] Stakeholders' willingness values based on the predefined visual tool's scale in Table 2 from -2 to 3]

Identified strategy and description	Tasks to be developed by stakeholders	Stakeholders who might develop each task [a] and their willingness' values
S1. *Improve participation mechanisms to engage local communities in SGNP governance*	Coordination and strategy development	SA1 (2)
	Review of the Advisory Board	SA1 (2)
This strategy includes a set of complementary actions (e.g.,	Creation of Citizen's assembly	SA1 (2)
review of the Advisory Board structure and creation and	Monitoring and evaluation of participation	SA1 (2)
integration of a Citizen's assembly within formal	Support and approbation of the strategy	SA2 (1); SA3 (2)
governance structure of the SGNP) to engage local	Request to set up and develop the strategy	SA4 (1); SA5 (2); EN1 (2); PS1 (1); TS1 (2); OS1 (0)
communities in conservation decision-making.		
	Funding provision	SA1 (2); SA4 (1)
	Elaboration of stakeholders mapping and consultancy	ER1 (1)
	Training program on public engagement for SGNP technicians	ER2 (0)
	Participation in the Citizen's assembly	PS2 (0); TS2 (0); OS2 (0)
S2. *Mobility plan to improve the public transport system and road traffic around SGNP*	Coordination of institutional efforts at multiple scales and competencies (e.g., transport, environmental protection, infrastructure) and plan development	SA2 (0); SA3 (1); SA4 (1); SA6 (1); SA7 (0); SA8 (1); SA9 (0); SA10 (1); SA11 (1)
It is a strategic plan to transition towards a resource-efficient and sustainable mobility system designed to visit SGNP.	Funding provision	SA2 (0); SA3 (1); SA4 (1); SA6 (1); SA7 (0)
	Social support from the tertiary sector by offering transport public among their services	TS3 (3)
S3. *Action plan for local sustainable consumption and production*	Coordination and plan development	SA1 (1)
	Articulation of local products brand	SA1 (1); SA4 (1)
This plan aims to boost local products' value added based	Dissemination campaign	SA1 (1); SA2 (0); SA3 (0); SA4 (1); EN1 (2)
on obtaining feed from organic production to promote	Funding provision	SA1 (1); SA2 (0); SA3 (0); SA4 (1)
local development in the area.	Educative program in local consumption	ER2 (0)
	Consultancy for developing the strategy	ER3 (2); ER4 (2)
	Accession to the local products brand	PS2 (0)
	Plan to reinforce selling and consumption of proximity local products	PS3 (2)
	Menus focused on local products	PS4 (1)
	Training program to local producers	PS5 (0)
	Consumer networks map	PS6 (0)
	Local products consumption	OS2 (1)
	Land custody agreements	OS3 (0)

Identified strategy and description	Tasks to be developed by stakeholders	Stakeholders who might develop each task [a] and their willingness' values
S4. Incentive schemes to promote environmentally friendly agricultural and livestock activities	Coordination and strategy development	SA2 (0); SA3 (1)
	Consultancy for selecting indicators that define sustainable practices	ER5 (2)
The strategy includes a set of measures to reward farmers for adopting sustainable practices.	Participation and acquisition of incentives	PS1 (1); PS2 (1)
S5. Program for preventing forest fires through controlled grazing	Coordination and program development	SA2 (0)
	Coordination between state administrations and ranchers	SA12 (2)
This program aims to promote new routes for livestock	Silvicultural treatment activities	SA13 (0)
movement along firewalls based on scientific criteria to	Mountain management plan	ER4 (0)
prevent ecosystem degradation in Sierra de Guadarrama	Research on pastures grazing capacity	ER6 (0)
area.	Organization of exchange of experiences with other similar programs	ER7 (2)
	Outreach activities and involvement of ranchers	PS7 (0)
S6. Research project to estimate recreation carrying capacity in SGNP	Funding provision	SA5 (1); SA14 (1)
	Prioritization of research proposals	SA1 (3)
The project aims to estimate the optimum recreation	Elaboration of research proposal; study development	ER1 (1); ER6 (2); ER8 (1); ER9 (2)
capacity in SGNP that is respectful of its ecological	Data provision to develop the research	ER10 (1); TS1 (1); OS4 (1)
functioning.	Outreach activities	EN2 (3)
S7. Education and awareness program for young people	Coordination and program development	SA1 (3)
This program focuses on incorporating protected areas into	Funding provision	SA4 (1)
official educative programs in elementary and secondary	Approbation of protected areas in its official educative programs	SA15 (1); SA16 (1)
schools in the Sierra de Guadarrama area.	Incorporation of protected areas as a subject into official educative programs	ER2 (2)
	Educative activities with specific groups of young people	EN1 (2)
	Informal talks	PS3 (1); TS3 (1)
	Logistic support to talks	TS4 (2)
	Outreach activities	TS4 (2)
	Creation of a social network of young people	OS5 (2)
S8. Communication plan to promote social change towards sustainability	Logistic and material support	SA1 (1)
	Elaboration of dissemination campaign	SA1 (1); SA4 (0); SA15 (0); SA16 (0); OS6 (0)
The strategy involves a set of actions for sustainability		
learning at all levels of education (e.g., elementary,	Participation in dissemination activities	ER2 (1)
secondary, and university levels) in teaching centers of the	Consultancy for developing educative material	ER3 (1); ER4 (1)
Sierra de Guadarrama area.	Coordination with education centers	EN2 (2)
	Training program on sustainability for students	EN2 (2)

Table A4.1 (Continued)

Identified strategy and description	Tasks to be developed by stakeholders	Stakeholders who might develop each task [a] and their willingness' values
S9. Citizen science project Focused on actively involving citizens in data monitoring to generate new scientific knowledge in SGNP.	Coordination and project development	SA1 (0)
	Funding provision	SA2 (0); SA3 (0)
	Logistic and material support	SA17 (0)
	Consultancy for development de project	ER1 (0)
	Data analysis	ER1 (0)
	Data collection and monitoring	ER2 (0)
	Training program in data monitoring for students	ER11 (2)