



MARGOV

COLLABORATE TO PROTECT



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CREDITS

MARGov Project – Collaborative Governance of Marine Protected Areas

<http://margov.isegi.unl.pt>

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MARGov – COLLABORATE TO PROTECT

Exploring New Opportunities to the Marine Park Professor Luiz Saldanha

EXECUTIVE SUMMARY

The MARGov Project – Collaborative Governance of Marine Protected Areas (<http://margov.isegi.unl.pt>) aimed the conservation of the biological and cultural diversity of the Marine Park Professor *Luiz Saldanha* (PMPLS), in Arrábida, focusing in the construction of a Model of Collaborative Governance (MCG), in which everyone could revise themselves and could actively contributed for the management of biological and cultural diversity through the promotion of sustainability policies.

For the structuring of this model it was an essential condition that the interested parts became changing agents in the sustainable management of oceans and coastal regions. The project was structured in three main components: I) construction and facilitation of the Eco-Social Dialogue; II) a Spatial Dynamic Support; III) Environmental Awareness and Education.

The Eco-Social Dialogue built during the project, involving all the local actors in a joint analysis of the issues of the PMPLS and in the identification of the solutions, through the participatory forums, meetings and online interactions, among others, in a collaborative process, has guided towards the development of a model of collaborative governance and to the consensualization of a set of measures, defined by the participants, such as:

- **Fisheries:** (1) adequate the commercialization system; (2) promote the responsabilization of consumers and fishermen regarding the management of stocks; (3) assure the coherence between the sport and professional fisheries legislation, guaranteeing equal rights and duties for all forms of fisheries; (4) allow boat licensing renewals with less than 100 official sellings in auction.
- **Marine Leisure Activities:** adapt the number of buoys to the needs of the users, taking into account the carrying capacity of the PMPLS.
- **Tourism:** (1) assure a responsible tourism; (2) create a strategy of touristic use that accounts for environmental preservation, not inhibiting sustainable touristic-sport practices; (3) develop roadmaps/circuits for pedestrian walks, with interpretative panels on the flora, fauna and orientation; (4) establish a network of navy routes and itineraries and underwater routes; (5) promote boat recreation.
- **Surveillance:** create a support telephone line (information and complaints).
- **Monitoring:** (1) assure the continuing monitoring of the area; (2) create a virtual map that crosses sensible zones with water quality, biodiversity activities, as a basis for an agreement of the areas to be used by each one of the activities; (3) promote the continuous availability of information about pollution; (4) assure the monitoring of the water quality of the *Tejo* and *Sado* estuaries, and the analysis of its impact on the PMPLS biodiversity.
- **Governance:** expand the strategic council of the PMPLS, assuring articulations that can overcome the identified difficulties.

More than the resulting proposals from the continuous work done with the key actors, this process brought to the collective the understanding that all are part of the whole, to which they can contribute and have the capacity to do it. An extension of the project is desirable because it would allow the consolidation of the achieved results. However, a set of synergies and dynamics are already in place, resulting direct or indirectly from the whole process. These can become useful and interesting continuities for the long range sustainability (ex. reinforcing of institutional capacity, namely the creation of new organizations or reinforcement of the existing ones).

THE ECO-SOCIAL DIALOGUE OF EMPOWERING AGENTS IN ORDER TO ACHIEVE SUSTAINABLE OCEANS

The **MARGov Project – Collaborative Governance of Marine Protected Areas**, received in 2008, the **Prize of Calouste Gulbenkian Foundation / Oceanarium of Lisbon: Sustainable Governance of the Oceans**. Beyond researchers from Institute of Marine Research (IMAR), Faculty of Sciences and Technology - New University of Lisbon (FCT-UNL), integrated other researchers of the Department of Sciences and Environmental Engineering (DCEA), of the Center for Environmental and Sustainability Research (CENSE), and from the New Technologies Laboratory (LabNT) of the Institute of Statistics and Information Management (ISEGI-UNL). The project included a group of experts with a diverse range of backgrounds and academic/professional experiences, resulting in an interdisciplinary and institutional team.

The limited governance and the weak participation of the local actors in the management of Marine Protected Areas (MPA) has constituted a barrier to the sustainability of the oceans, worsen by the difficulties of articulation between the entities with distinct competences over the area and due to the absence of a social agreement on the conservation and use of marine resources.

Focusing in the case study of the PMPLS, Arrábida, the objective of MARGov was to structure a Model of Collaborative Governance that could contribute to the sustainable management of the oceans, that could be replicable in other regions and, eventually, that could support the development of a future national network of MPA. An essential condition of the model was the sharing of responsibilities among key actors, particularly in the domains associated with the management of the coastal habitats and traditional fisheries.

The research activity has focused also on innovative processes of co-management and conservation, based in communities and ecological knowledge, aiming the sustainability of marine and coastal areas. The main idea is to ensure the articulation of various types of ecological knowledge, both local – local ecological knowledge (LEK) and traditional ecological knowledge (TEK) – and scientific (specific of scientists working in these areas), potentiating emerging knowledge enriched with all the contributions.

The project was structured in three main components (Figure 1):

1. The construction and facilitation of the Eco-Social Dialogue, involving all the local actors in a joint analysis of the issues of the PMPLS and in the identification of solutions. This was done through the participatory forums, sectorial meetings and online interactions, in a collaborative process aiming the development of a model of governance.
2. A Dynamic Spatial Support, integrated in a GIS, assuring the registration of issues, arguments and/or data, serving as support to the knowledge developed, compiled and generated during the collaborative process. Part of this support is the development of a set of adaptive / participative sustainable indicators for evaluation, management and communication of the MPA and a methodological proposal for promoting participatory modelling, articulating simulation models for the MPA, and the GIS.
3. A program of Environmental Education was developed in schools of the municipality of Sesimbra during the academic years 2009/2010 and 2010/2011. This program promoted the relation with the sea and the appreciation of the marine biodiversity, contributing to behaviours targeting ocean preservation. The environmental education section was part of the Environmental Citizenship component of the MARGov project. This component developed additional activities within a multigenerational project, aiming the recovery of the close relation with the sea by the local community.

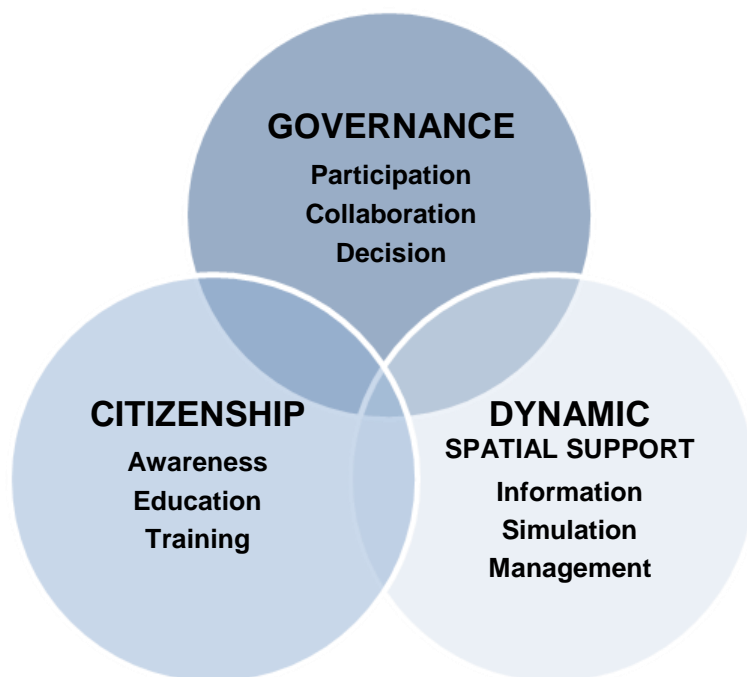


Figure 1. Schematic representation of the three key components of the MARGov Project.

The project had the following specific objectives:

- **Reinforce the competences and the co-responsibilization** of the key actors in a participated co-management;
- **Promote the eco-social dialogue**, to stimulate interactive processes of collaboration for the co-management, reducing conflicts and reinforcing long-term relations;
- **Promote the awareness of the general public, and the local actors and the educational community in particular**, for the understanding of the usefulness of the MPA and the new forms of collaborative management;
- **Develop a platform of integrated management in a Geographical Information System (GIS)** to support the participative process and the sharing of information, characterization and diagnosis, simulation of conflicts, alternatives and prospective scenarios;
- **Assure the transference of experiences and knowledge, and technical-scientific support** for management measures and policies of the MPA.

The project aimed to encourage:

- **The sharing of management responsibilities** by the different social and institutional actors in the management of coastal habitats and artisanal fisheries;
- **The active involvement of the key actors**, potentiating the exchange of ideas and experiences, technical and scientific cooperation, as well as the integration of knowledge and good practices;
- **Search for collaborative solutions by the actors** through a joint definition of decisions that become more robust and less contested. When well managed conflict can be an added value, since it allows the reflection of the actors about the problem, and therefore contributes to the existence of a collective intellectual capital, and therefore contributes to the existence of a collective intellectual capital. Thus, the conflict also helps to generate knowledge and learning and potentiate generation of intellectual, social and political capital, inducing a more informed and genuine involvement of the actors.

GOVERNANCE

After the award Calouste Gulbenkian Foundation / Oceanarium of Lisbon to MARGov project (Sep. 2008), were developed several structural actions to the following phases, namely: identification of stakeholders, mapping of the conflicts, interviews with the users (Fishermen, Diving Schools, etc.) and SWOT analysis (Figure 2).

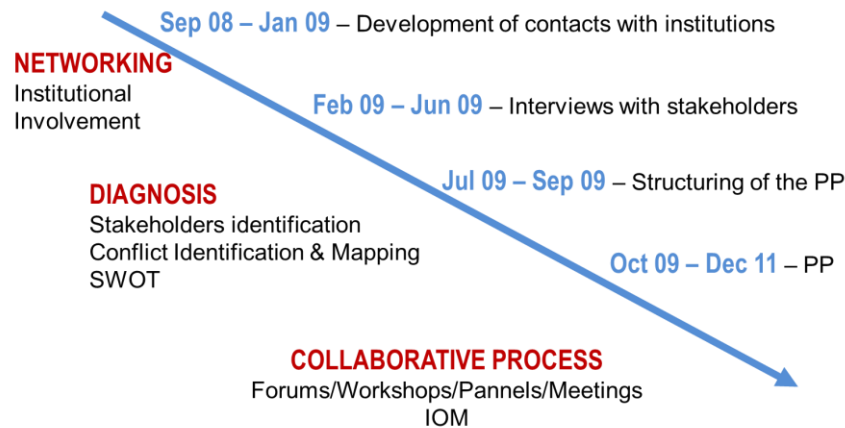


Figure 2. Chronology of the collaborative process (September 2008 – December 2011).

These activities, in an early stage, allowed to characterize the situation of reference and outline the methodology of participation that began in October 2009, with the **Expanded Launching Forum**. Besides this, the participative sessions included 13 other Expanded Forums, 11 workshops/meetings with fishermen, 7 thematic panels, 2 sets of online interaction and 3 seminars, developed in the framework of this methodology (see Annex I).

During all collaborative process (Figure 3), included in the governance component, were made many contacts and conducted follow-up meetings with representatives of several institutions (Institute for Nature Conservation and Biodiversity – ICNB, Institute of Sea and Fisheries Research – IPIMAR, Directorate-General of Fisheries and Aquaculture (DGPA), Sesimbra City Council, etc.), when considered relevant, as well as with scientists from several universities with work done and in progress in the PMPLS (FCUL, ISPA, etc.).

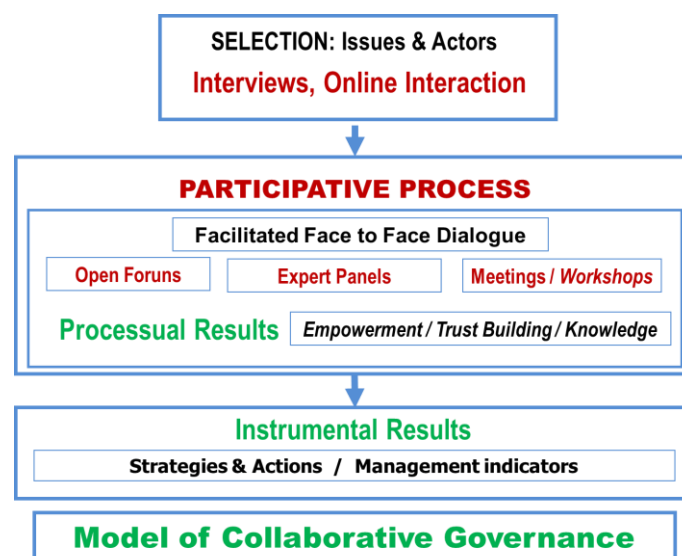


Figure 3. Scheme of the collaborative process (Adapted from Vasconcelos *et al*, 2011).

The governance model resulted, from the whole participatory process and from three dominant components:

1. A throughout critical exhaustive search for governance models for MPA, with a specific focus on success cases, from which the key components were extracted to become part of the co-management model;
2. A work systematizing the entities to be part of each key component, identified beforehand;
3. A debate on the processual component to follow up and adjust the model promoting its operability.

The dominant areas identified allowed the MARGov team to establish a methodology for the 12^o Expanded Forum – Pollution and Model of Governance, in which the participants developed three proposals widely debated and adjusted. In the 13^o Expanded Forum – Model of Governance / Critical Factors, participants converge to a consensualization from these three proposals resulting in what is here presented in Figure 4, supported by the processual guidelines of support reflected in Figure 5.

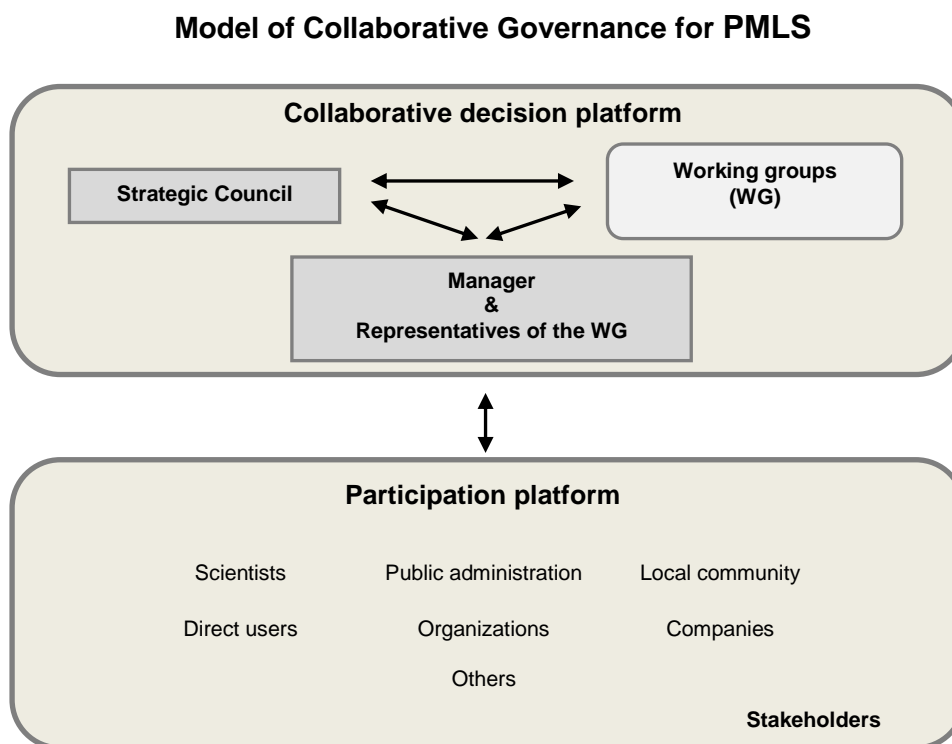


Figure 4. Schematic representation of the collaborative decision platform.

Therefore, this model, aiming the effective co-management of the PMPLS, includes two dominant platforms:

- One referring to **collaborative decision** that integrates the existing legal entity – the Strategic Council – with permanent continuous working groups, though involved in accordance with the issues in the agenda. This platform will still include two key elements – the manager body and a representative of the working groups – both will assure a bi-directional continuous and effective flux between the different entities involved in this platform;
- The other referring to **public participation** that, whenever justified, will expand the base of debate to the overall local society, for debate and validation of specific proposals.

To ensure flexibility and the possibility of re-adjustment, whenever necessary, it is expected that the process to be integrated and adaptive (Figure 5).

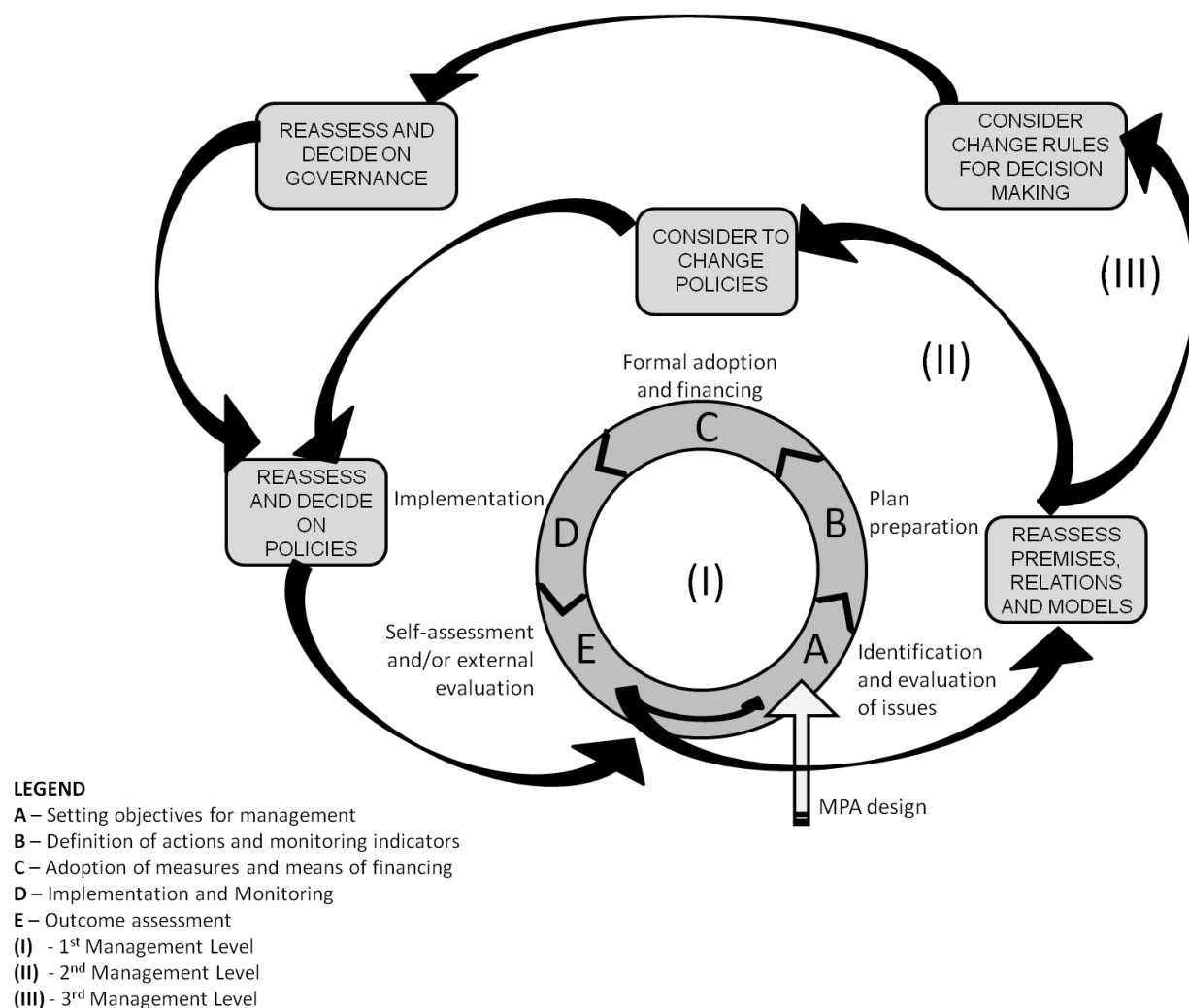


Figure 5. Representation of the integrated and adaptive management process. (Adapted from Coelho, 2011).

ACTION PROPOSALS

During the 13 forums held between January 2010 and September 2011 were identified key issues and developed very specific proposals for resolving difficulties related to the implementation of management measures in PMPLS.

A synthesis of these proposals is presented in Table 1, calling attention to the first column where are the proposals already consensualized among participants of the forums and to the second where the proposals are still under debate.

Table 1. Action proposals identified during the MARGov Project.

Key-theme	Consensualized	In Debate
FISHING	<ul style="list-style-type: none"> ▪ Adjust the commercialization system <i>Promote consumers and fishermen responsibility in stock management;</i> ▪ Assure coherence between leisure and professional fishing legislation <i>Equal rights and duties for all forms of fishing;</i> ▪ Possibility of renovating the license with less than 100 trips to the auction <i>(e.g. years of adverse weather conditions)</i> 	<ul style="list-style-type: none"> ▪ Articulation between the general and specific regime of the marine park – PMPLS; ▪ Revision of the transferring rules of boats / licenses - <i>possibility of transferring the license without having to sell the boat (situations of exception);</i> ▪ Development of specific regulations for certain activities - <i>Development of the specific regulation for leisure fishing in the marine park;</i> ▪ Rules flexibility (flexibility of the rules of the marine area - PMPLS, to include the time dimension) - <i>Allow the toneira fishing 1h before sunrise and before sunset close to the rocks.</i>
MARINE LEISURE ACTIVITIES	<ul style="list-style-type: none"> ▪ Adapt the number of buoys to the needs of the users, taking into account the carrying capacity of the PMPLS. 	<ul style="list-style-type: none"> ▪ Reconsider the rules of circulation of vessels in PMPLS.
TOURISM	<ul style="list-style-type: none"> ▪ Assure a responsible tourism; ▪ Create a strategy of touristic use that accounts for environmental preservation, not inhibiting sustainable touristic-sport practices; ▪ Develop roadmaps/circuits for pedestrian walks, with interpretative panels on the flora, fauna and orientation; ▪ Establish a network of navy routes and itineraries and underwater routes; ▪ Promote boat recreation. 	
SURVEILLANCE	<ul style="list-style-type: none"> ▪ Creation of a support telephone line <i>(Information and complains).</i> 	<ul style="list-style-type: none"> ▪ Adequacy of the surveillance means; ▪ Co-responsibilization of the users in surveillance.
MONITORING	<ul style="list-style-type: none"> ▪ Assure the continuing monitoring of the area <i>(create a virtual map that crosses sensible zones with water quality, biodiversity activities, as a basis for an agreement of the areas to be used by each one of the activities);</i> ▪ Promote the continuous availability of information about pollution - <i>Assure the monitoring of the water quality of the Tejo and Sado estuaries, and the analysis of its impact on the PMPLS biodiversity.</i> 	
GOVERNANCE	<ul style="list-style-type: none"> ▪ Expand the Strategic Council of the PMPLS... 	<ul style="list-style-type: none"> ▪ ...to a “satellite” structure of co-management <i>(integrating representatives of key actors in continuous articulation contributing to the decision);</i> ▪ Constitute a management commission to the park - <i>co-management body with representatives by theme;</i> ▪ Creation of a management entity <i>(supra and pluri-institutional, integrating local decision entities) to regulate, supervise and define public policies of land use and use.</i>

CITIZENSHIP

In the period related to its activity the Educational Project counted with the participation of more than 2000 students and teachers from different schools in the municipality of Sesimbra. The first phase of the project took place between January and June 2010 (school year 2009/2010).

In this first year the project counted with the participation of eight schools, in a total of 786 students and 45 teachers involved. Due to the success achieved in the first year, more schools and teachers shown interest in participating in the project. Thus, the educational project returned to the schools of the municipality of Sesimbra at the beginning of the school year 2010/2011 (November), with the participation of more than 1100 students and 60 teachers from 10 schools of the Municipality.

To promote multigenerationality, and in addition to the educational project, MARGov developed activities that aimed the recovery of the identity with the sea of the local community, as can be seen by the activities described in Annex II.

SPATIAL DYNAMIC SUPPORT

This Dynamic Spatial Support, integrated in a Geographical Information System (GIS), assuring the registration of issues, arguments and/or data, serving as support to the knowledge developed, compiled and generated during the collaborative process. Are still parts of this support the components of sustainable indicators and participatory modelling.

In the component of sustainability indicators has been developed an exhaustive search of the literature allowing to identify a first set of 90 indicators. Based on global consultations, interactions, meetings and forums, were selected about **20 sustainability indicators**.

CONTRIBUTION OF THE PARTICIPANTS

The success achieved by MARGov resulted from the contribution of a set of participants who gave their time and respond to the requirements of continuity of the participative process, without them it would not have been possible to carry out the project this further. The participants involved in the activities in the Governance component gave to the project a total of more than **170 contact hours** (not mentioning the contributes along the project outside the sessions), distributed by:

- More than **39 working meetings and articulation - 98Hrs;**
- **14 Expanded Forums¹ - 29Hrs;**
- **11 workshops and meetings directed to fishermen - 25Hrs;**
- **7 panels - 18Hrs.**

Figure 6 shows the graphical distribution of the number of participants in each of the Expanded Forums of the MARGov Project.

¹ 14 Expanded Forums – includes the Expanded Forum Launch, in October 2009.

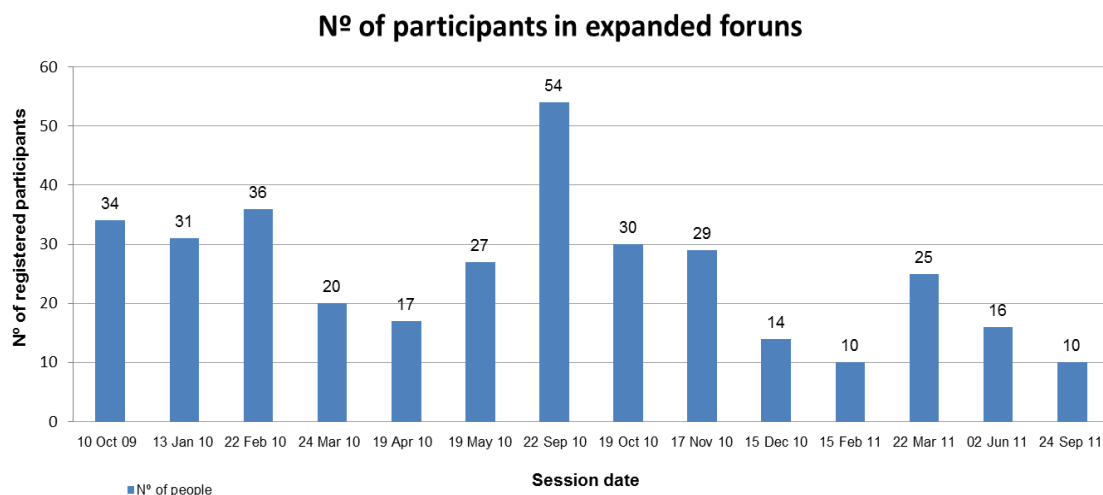


Figure 6. Number of participants attending each Expanded Forum of the MARGov Project.

The time invested by the team to carry out the various activities of the project during the years 2010 and 2011 proved to be substantial as it can be seen by the graphs of Figures 7 and 8.

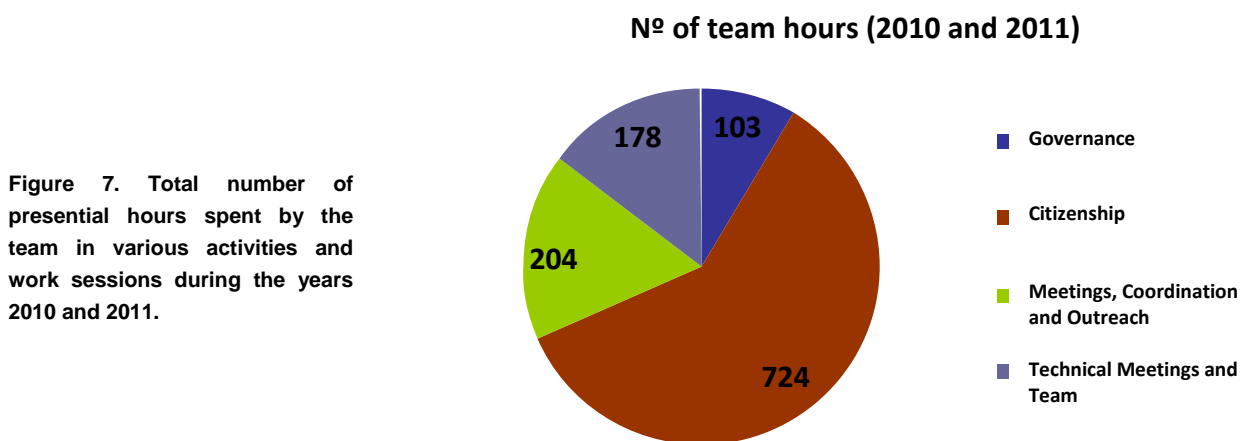


Figure 7. Total number of presential hours spent by the team in various activities and work sessions during the years 2010 and 2011.

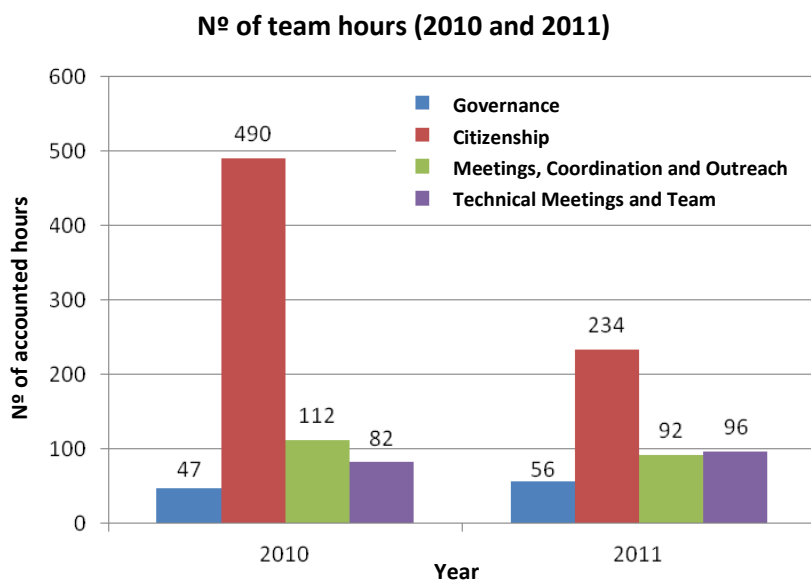


Figure 8. Number of presential hours spent by the team in various activities and work sessions over the years 2010 and 2011.

FINAL CONSIDERATIONS

The more recent challenges of MARGov focused in the construction of the Model of Collaborative Governance (MCG). Additionally, participants identified critical factors for the setting up of a table of sustainability to support the collaborative management with the involvement of all stakeholders.

The idea of the project team was to go as far as possible during this period of institutional change. Therefore the bat was in the identification of key issues relevant to be considered in the development of the Model, allowing in this way the building up of a sound agenda for an effective co-management.

Surprisingly advancements that were achieved until now were quite significant, considering that the consolidation of this type of project requires at least 5 years of operationalization, with several levels of participation and involvement. This was only possible with the contribution of many participants who gave their time and built collaboratively a different future.

The success achieved by MARGov resulted from the contribution of a set of participants who gave their time and respond to the requirements of continuity of the participative process. The participants involved in the activities in the Governance component gave to the project a total of **more than 170 contact hours** (not mentioning the contributes along the project outside the sessions) Without them it would not have been possible to carry out the project this further.

In a period of crisis, as the one we are living, the team is convinced that the ones involved are better equipped; more capacitate to construct something different. However, it is essential that they go on believing in themselves and in their capacity towards change.

For the sustainability of the Ocean it is essential the effective involvement of all using this resource, since:

- It allows to solve the mistakes of the past that creates pitfalls to the co-responsibilization of the citizens;
- It allows to face constructively the latent conflicts or created by the change of rules;
- And it potentiates citizens as co-responsible and involved changing agents, bringing valuable contributions to the management process.

Portugal has an additional responsibility of managing the oceans due to its wide geographical area that possibly will be under national jurisdiction, what implies the sustainable use of this resource – **the Sea**.

*The SEA is our LAND.
Deffend our patrimony.*

ANNEX

ANNEX I PARTICIPATIVE PROCESS

Synthesis of the participative process (2008 - 2011)

DATE	TYPE	THEME
Sep. 2008	16	Ceremony for the Attribution of the Prize of Calouste Gulbenkian Foundation / Oceanarium of Lisbon – for Sustainable Governance of the Oceans (Process of Application nº 96752)
Sep. 2008 – Jan. 2009		<ul style="list-style-type: none"> Development of contacts with relevant institutions to be involved in the collaborative process Public diffusion of the project in the media and in organizations/institutions
Feb. - Jun. 2009		<ul style="list-style-type: none"> Identification of stakeholders; Development of the guideline for the interviews; Conducting of the interviews with stakeholders; Registration, analysis and treatment of the interviews; Identification/mapping of the conflicts and SWOT assessment; Definition of the preliminary agenda.
Jul. - Sep. 2009		Structuring of the participative process
06 Feb. - 20 Mar. 2009		Interviews with the Fishermen
Oct. 2009	19	Expanded Launching Forum
Oct. 2009	21	1º Workshop for fishermen
Nov. 2009	26	2º Workshop for fishermen
Dec. 2009	16	3º Workshop for fishermen
Dec. 2009	29	Launching of the Phase 1 of the Initiative Online Interaction that occurred until January 20
Jan. 2010	13	1st Expanded Forum
Jan. 2010	28	1st Fishermen Meeting
Feb. 2010		1st Online Interaction– phase 2
Feb. 2010	22	2nd Expanded Forum
Mar. 2010		1st Online Interaction– phase 3
Mar. 2010	24	3rd Expanded Forum
Mar. 2010	26	2nd Fishermen Meeting
Apr. 2010		2nd Online Interaction– phase 1
Apr. 2010	13	3rd Fishermen Meeting
Apr. 2010	19	4th Expanded Forum
Apr. 2010	24	1st Seminar - Presentation of the Studies
Apr. 2010	24	1st Thematic Panel
Apr. 2010	28	4th Fishermen Meeting
May 2010	19	5th Expanded Forum
May 2010	21	2nd Thematic Panel
May 2010	21	3rd Thematic Panel
Jul. 2010	9	Workshop
Jul. 2010		2nd Online Interaction – phase 2
Sep. 2010	22	6th Expanded Forum
Oct. 2010	14	5th Fishermen Meeting
Oct. 2010	19	7th Expanded Forum
Nov. 2010	4	4th Thematic Panel
Nov. 2010	17	8th Expanded Forum
Nov. 2010	30	6th Fishermen Meeting
Dec. 2010	15	9th Expanded Forum
Feb. 2011	15	10th Expanded Forum
Feb. 2011	25	5th Thematic Panel
Mar. 2011	2	6th Thematic Panel
Mar. 2011	18	7th Fishermen Meeting
Mar. 2011	22	11th Expanded Forum
Apr. 2011	14	2nd Seminar of presentations of works - FCG
Jun. 2011	2	12th Expanded Forum
Jun. 2011	15	7th Thematic Panel
Sep. 2011	24	13th Expanded Forum
Oct. 2011	12	3rd Seminar for Presentation of the Works (Sesimbra)
Oct. 2011	13-14	4th Seminar for Presentation of the Works (FLAD)

ANNEX II

ENVIRONMENTAL CITIZENSHIP - 2010 – 2011

Synthesis of the environmental citizenship activities in 2010

DATE	ACTIVITIES	DESCRIPTION
January-February	Educational Project: "Our SEA - The SEA of Different Generations"	1 st session, 1 st cycle of basic education (BE): "Let's Meet Our SEA"
February-March	Educational Project: "Our SEA - The SEA of Different Generations"	2 nd session, 1 st cycle BE: "Our SEA - Uses and Activities"
February	"Histories of the Sea"	Night of traditional tales related to the sea, with professional storytellers
March	Educational Project: "Our SEA - The SEA of Different Generations"	1 st session, 2 nd cycle - Promote the taste for "Our SEA" and acquisition of knowledge
March-May	A Digital Photograph Contest "Our Sea"	A Digital Photograph Contest under the theme of the Marine Park Professor Luiz Saldanha
April-May	Educational Project: "Our SEA - The SEA of Different Generations"	3 rd session, 1 st cycle BE: "Our SEA - Protecting it also depends on us"
	Educational Project: "Our SEA - The SEA of Different Generations"	2 nd session, 2 nd cycle - Encourage the active participation of young people and their co-responsibility in the detection and resolution of problems related to the SEA
May	"Vaivém" of the Lisbon Oceanarium in Sesimbra	- 1025 Visitants - Educational activities for all ages
June	Interschool exposure	Exhibition held within the Educational Project: "Our SEA - The SEA of Different Generations" – show of works done by students
	Children's Day	Activity "So many species": know the species existing in PMPLS for estimating
	World Environment Day	Activity "How to Protect Our SEA ?": raise awareness about the problems affecting the SEA, and share best practices to preserve it
	World Oceans Day	Activity "Let's Meet Our SEA": know to estimate
July-August	Beach Libraries	EE activities in Beach Libraries of "Califórnia" and "Ouro" (Sesimbra)
July	Photography exhibition	Exposition of photographs awardees and awards ceremony
November	Educational Project: "Our SEA - The SEA of Different Generations"	1 st Session (preschool and 1 st cycle BE): "Let's Meet Our SEA"
December	Educational Project: "Our SEA - The SEA of Different Generations"	2 nd Session (preschool and 1 st cycle BE): "Our SEA - Biodiversity: variety of life"

Synthesis of the environmental citizenship activities in 2011

DATE	ACTIVITIES	DESCRIPTION
January	Educational Project: "Our SEA - The SEA of Different Generations"	3 rd Session (preschool and 1 st cycle BE): "Our SEA - Uses and Activities"
		Presentation of the PMLS (6 th year class)
January-February	Educational Project: "Our SEA - The SEA of Different Generations"	4 th Session (preschool and 1 st cycle BE): "Our SEA - Protecting it also depends on us"
February	Educational Project: "Our SEA - The SEA of Different Generations"	Presentation of the PMLS (5 th year class)
	Lecture in the Rotary Club of Sesimbra	Lecture - presentation of the MARGov Project in the Rotary Club of Sesimbra
	Educational Project: "Our SEA - The SEA of Different Generations"	EE session at the Senior University of the Rotary Club of Sesimbra
March	Educational Project: "Our SEA - The SEA of Different Generations"	Presentation of the PMLS (5 th year class)
		Lecture about Fishing and Sustainable Consumption – 9 th year
		1 st session (2 nd , 3 rd and 4 th year of the 1 st cycle): presentation of the project and delivery of worksheets
		EE session at the Senior University of the Rotary Club of Sesimbra
March-April	Educational Project: "Our SEA - The SEA of Different Generations"	2 nd session (2 nd , 3 rd and 4 th year of the 1 st cycle) 2 nd year: Biodiversity 3 rd year: Fishery 4 th year: Pollution
April	Educational Project: "Our SEA - The SEA of Different Generations"	Visit to the exhibition "Side by side with the last shark", work that the project followed and guided (12 th year)
		Visit (2 nd , 3 rd and 4 th year of the 1 st cycle): delivery of worksheets
May	Educational Project: "Our SEA - The SEA of Different Generations"	1 st session (preschool): "Let's Meet Our SEA"
		Lecture for the 2 nd cycle: "Side by side with the last shark", work that the project followed and guided (12 th year)
		3 rd session (2 nd , 3 rd and 4 th year of the 1 st cycle) 2 nd year: Biodiversity 3 rd year: Fishery 4 th year: Pollution
		Presentation of the PMLS (5 th year class)
		Lecture about Fishing and Sustainable Consumption – 8 th and 9 th year
		2 nd session (preschool): "Our SEA - Biodiversity: variety of life"
	II Workshop on Marine Biodiversity	Lecture on educational project and its role in the preservation of Marine Biodiversity (CMS org.)
June	Educational Project: "Our SEA - The SEA of Different Generations"	3 rd session (preschool): "Our SEA - Uses and Activities"
	World Oceans Day - activities	EA activity for parents and children within the Project "Space - here we play all" dynamized by STIP in the municipal library of Sesimbra and in the space "Onda Jovem" at Quinta do Conde
		Clean Up campaign of the Sesimbra beach and carrying out of activities and games allusive to the day
	Educational Project: "Our SEA - The SEA of Different Generations"	4 th session (2 nd , 3 rd and 4 th year of the 1 st cycle) 2 nd year: Biodiversity 3 rd year: Fishery 4 th year: Pollution
		4 th session (preschool): "Our SEA - Protecting it also depends on us"
		EE session at the Senior University of the Rotary Club of Sesimbra
July	Beach Libraries	EE activities in Beach Libraries of "Califórnia" and "Ouro" (Sesimbra), "Moinho de Baixo" (Aldeia do Meco) and Lagoa de Albufeira

Adurindo José Marques Gomes *Agostinho da Mata *Agostinho Silva *Alexandra Carreiras *Alexandra Cunha
 *Alexandre Alves *Álvaro Contreiras *Álvaro Pereira *Américo Gegoloto *Ana Falcão *Ana Jesus *Ana Lúcia Freire
 *Ana Meirinho *Ana Paula Martins *Ana Santiago *Andreia Souza *António Brandão Moniz *António Carlos *António
 Coelho *António Costa de Almeida *António Fernandes *António Garcias *António Marques *António Miguel *António
 Moreira Jorge *António Mourato *Antonio Pila *António Pinto *António Silva *António Vidal *Armando Maçanita
 *Armando Matias *Armando Moura *Armindo Encantado *Arsénio Caetano *Augusto Pólvora *Aurélino de Sousa
 *Bragança *Capitão-Fragata António Ribeiro Ezequiel *Capitão-Fragata José Duarte Cantiga *Carina Reis *Carla
 Santos *Carlos Albano *Carlos Cruz *Carlos Fernando *Carlos Fortunato *Carlos Garcia * Carlos Gatinho *Carlos
 Inácio *Carlos Macedo *Carlos Mira *Carlos Silva *Carlos Vale *Carmen Cruz *Catarina Camarinhas *Cátia Guerra
 *Célia Teixeira *César Monteiro * Chefe da Polícia Marítima Cruz dos Santos *Cristina Brito *Cristina Rosa *David
 Abecassis *David Oliveira Borges *Dinis Machado *Diogo Tamen *Dionísio Machado *Domingos *Domingos Franco
 *Domingues Lopes *Eduardo Vantacish *Emanuel Gonçalves *Ernesto Carneiro *Ester Serrão *Felícia Costa
 *Ferdinando Fragoso *Fernanda Pedro *Fernando Catarino *Fernando Completo *Fernando Fonseca *Fernando
 Tavares *Fernando Teigão dos Santos *Filipa Baeta *Francisco Luís *Francisco Sanches *Gonçalo Caetano *Gonçalo
 Carvalho *Graça Rodrigues *Helena Pinto *Hélio Furtado *Henrique Cabral *Henrique Procópio *Horizonte Sousa
 *Humberto Carrapato *Inês Sousa *Isabel Abreu *Isabel Costa *Isabel Piedade *Isabel Santos *Isidro Cascais Póvoa
 *Jemeniano Pereira da Cruz *Jó Pinto *Joana *Joana Barosa *Joana Santos *João A. Boavida *João Aldeia *João
 Belfort Cerqueira *João Bernardo *João Boavida *João Carambola *João Coelho *João Correia *João Lopes *João
 Martins *João Mimoso *João Narciso *João Paulo *João Reis *João Salgueiro *Joaquim Afonso *Joaquim Cid
 *Joaquim Manuel Silva *Joaquim Paulo Santos *Joaquim Pinto *Jonas Cardoso *Jorge Marques *Jorge Ribeiro
 *Jorge Silva *Jori *José Alexandre Rodrigues *José Arada *José Carlos Ferreira *José de Sousa *José Garão *José
 Henriques Mafra *José Manuel Costa Caetano *José Matos *José Polido *José Pujol *José Saldanha *José Saleiro
 *José Sanches *José Santos *José Visente *Karim Erzini *Leonor Mendes *Lino Correia *Lourenço Silveira *Luís
 Borges *Luís Ferreira *Luís Gonzaga *Luís Manuel Faria *Luís Pestana *Luís Pinto Carvalho *Luís Rebelo *Luís
 Rodrigues *Mafalda Soeiro *Major Vaz Alves *Manuel Cardoso *Manuel Cruz *Manuel Dias *Manuel Purificando
 *Manuel Rui Ficote *Manuel Ruivo *Marçal Cid *Margarida Almodôvar *Margarida Castro *Maria Albertina *Maria
 Carlos Mafra *Maria Carvalho *Maria Clara Pereira *Maria de Jesus *Maria Fernandes *Maria João Botelho *Maria
 João Silva *Maria Paula Pinho *Maria Pinto *Marina Laborde * Mário Cardoso *Mário Chagas *Mário José *Mário
 Pinho *Mário Pinho Professor *Mario Rosa *Marisa Baptista *Miguel Henriques *Miguel Marques *Miguel Neves dos
 Santos *Miguel Ribeiro *Mónica Victoriano *Natália Henriques *Nélia Penteado *Nina Vieira Bióloga *Norton da Costa
 *Nuno Maria *Nuno Ramos *Nuno Sena *Paula Oliveira *Paulo Braz de Oliveira *Paulo Caetano *Paulo Galveias
 *Paulo Maranhão *Paulo Raposeiro *Paulo Santo *Paulo Silva *Pedro Baião *Pedro Baião *Pedro Beirão *Pedro Brito
 *Pedro Ferreira *Pedro Narciso *Pedro Soares *Pedro Vieira *Rafael Maria *Raul Santo *Ricardo Germano *Ricardo
 Mendes *Rita Costa *Rita Pires *Rodrigo Meneres *Rui Simões *Rui Vinhas *Sandra Rodrigues *Sandra Silva Pereira
 *Sara Barreto *Serafim Painho *Sérgio Pedro *Sofia Castel-Branco *Sofia Henriques *Stella Vallejo *Sueli ventura
 *Tadeu Pereira *Telma Costa *Tenente Inácio Silva *Teresa Coelho *Teresa Leonardo *Teresa Mouga *Tiago Cagica
 *Valdemar *Vanda Carreira *Vanja Karadzic *José Velho Gouveia *Victor Pinto *Vinícios Ferrete *Vitor Raimundo
 *Vitorio Fidalgo *Yorgos Stratoudakis *Zé Luis *Zélia Vitorino