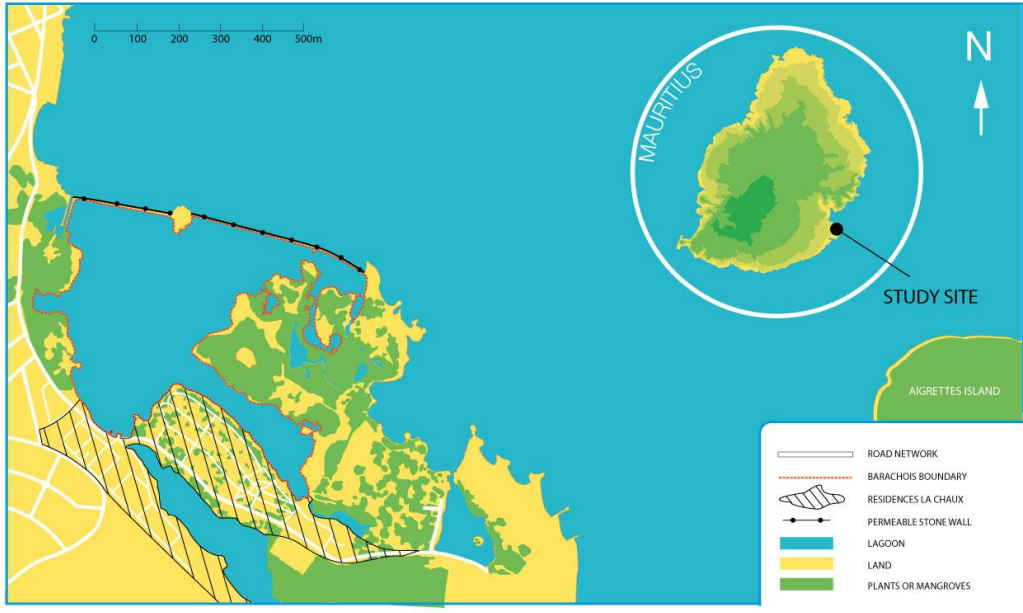


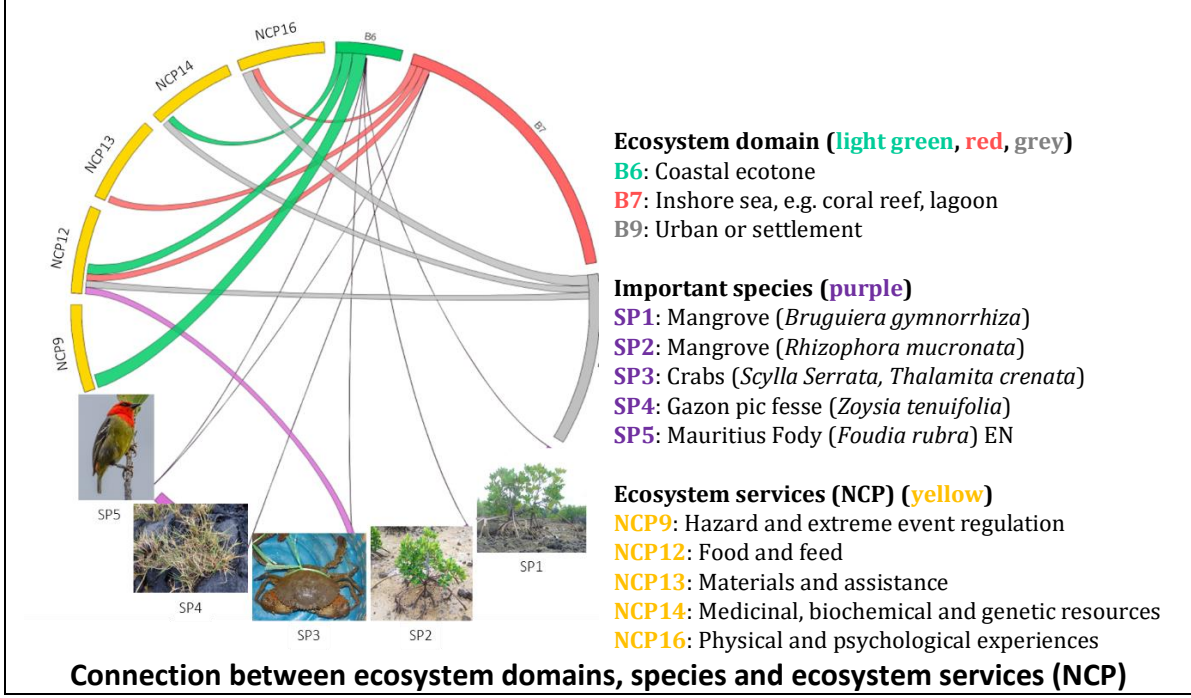
Project Final Report

| | |
|----------------------------------|---|
| Project Name | Mainstreaming the Contribution of coastal wetlands biodiversity for Sustainable Economic & Livelihood Development at Cité La Chaux 'Barachois', Mahébourg. A demonstration project for upgrading 'Barachois' in Mauritius |
| Location | Mahebourg, Mauritius  |
| Implementing Organization | Environmental Protection and Conservation Organization (EPCO) |
| Partners | Eco-Sud, Mauritius Wildlife Foundation, University of Mauritius |
| Size of Project Site | 55 ha |
| Number of Beneficiaries | 50 persons |
| Key Species | Mauritius Fody (<i>Foudia rubra</i>) Bois d'ébène d'ile aux aigrettes feuilles (<i>Diospyros egrettarum</i>) Bois Bete (<i>Dombeya acutangular</i>) |
| GEF Funding Amount | US\$62,984 |
| Co-financing | US\$74,434 |
| Period of Performance | July 2016 - March 2019 |

Summary (Including relevance to values, Indigenous Language and knowledge (ILK), and governance)

The project established a sustainable and collaborative development model for the restoration, conservation and active management of degraded natural resources, ecological processes and biodiversity of a marine coastal wetland. The conservation and restoration of the mangrove forests consisted of intensive cleanup and maintenance, removal and control of pests and invasive alien species, and seedling planting. Moreover, by reinstating ecosystem services and embellishing the area through renovation and maintenance of existing structures such as footpaths, the project facilitated the development of recreational and touristic facilities, based on the community vision. Emphasis was placed on awareness raising, sensitization and information dissemination to all stakeholders through various communication tools such as brochures, press releases, information panels, environmental education programmes, and community-based events. Traditional knowledge and information resulting from the on-going fisheries, biophysical, socio-economic and governance monitoring was collected and analyzed to evaluate and review the effectiveness and sustainability of the project, within the context of adaptive management. The project promoted the development of local alternative livelihoods opportunities, sustainable local tourism, small community businesses, thus alleviating poverty and enhancing quality of life.

The GEF-Satoyama Project aimed to address three barriers to SEPLS globally, namely, insufficient recognition of SEPLS values, disappearing traditional knowledge, and weak governance. A strong link between values, knowledge and governance can potentially enhance biodiversity and production in SEPLS. The interplay between values, ILKP and governance contributing to the sustainability and resilience of SEPLS was considered as well as the linkages between the drivers and corresponding policies are shown in the following figures and tables below.



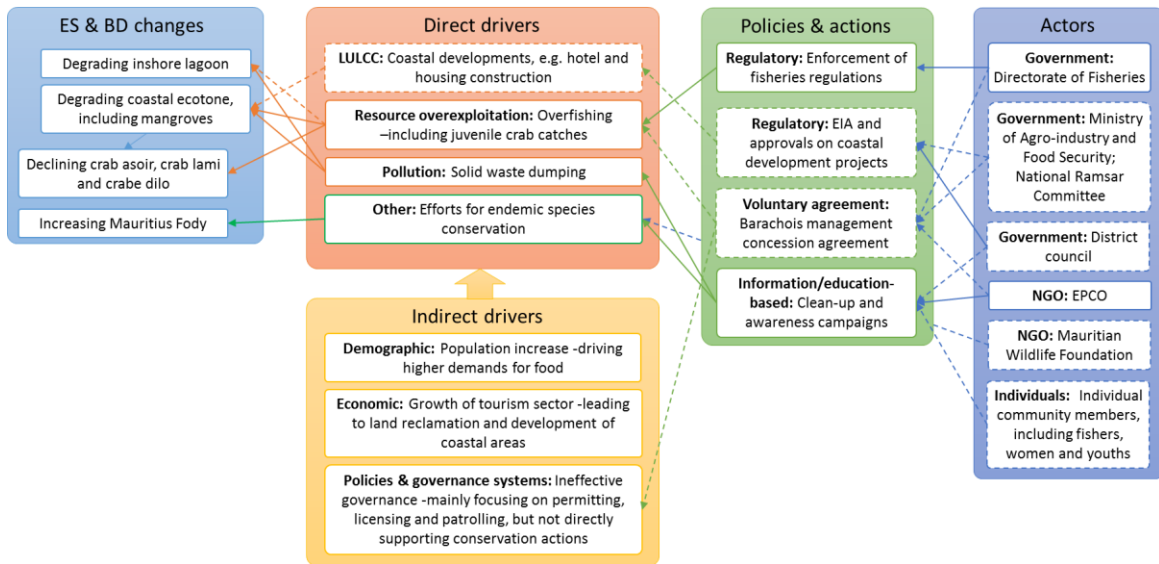
ILKP for the use and management of different ecosystem domains and species

| Category | Ecosystem domain | Knowledge holder | | | Description |
|-------------------------------|------------------|------------------|--------------|-----------------|---|
| | | Fishers | Elders | Whole community | |
| Local and empirical knowledge | Mangrove | Yes | Yes | Yes | Use of mangrove roots for medicinal ingredients for the treatment of diabetes |
| | Barachois | Yes | Yes | Yes | Location and timing for the collection of fish, mollusks, crabs and other marine invertebrates for food and for fishing baits |
| | Lagoon | Yes | No | No | Fishing ground |
| Resource management system | Barachois | Currently no | Currently no | Currently no | The Barachois Project is generating local knowledge on the management of barachois ecosystem complex and on crab aquaculture |
| Social institutions | Barachois | Currently no | Currently no | Currently no | The project is proposing to establish a local cooperative with community members including fishers, women and youth for aquaculture and ecosystem management in barachois |

Ecosystem governance structure in the seascape

| | Ecosystem domain | | | Stakeholder type |
|--------------------------------|---|--|--|-----------------------|
| | Coastal ecotone (mangrove) | Inshore sea (lagoon) | Settlement /urban | |
| Ownership | Ministry of Agroindustry and Food Security (Overseen under the National Ramsar Committee) | Ministry of Ocean Economy, Marine Resources, Fisheries and Shipping | Ministry of Housing and Lands | Government or public |
| Management right holder | The government holds the right to manage the mangrove area however no management has been applied for more than 40 years. | The Ministry of Ocean Economy, Marine Resources, Fisheries and Shipping and the beach authority are in charge of the area but no management is carried out. | The Grand Port District Council hold ultimate management rights however the public are able to manage their local area e.g. gardens in a limited manner. | Government or public |
| Other stakeholders | Ministry of Agro-Industry and Food Security (Ramsar Committee); Ministry of Environment and Sustainable Development | Ministry of Ocean Economy, Marine Resources, Fisheries and Shipping, Ministry of Environment and Sustainable Development, Ministry of Agro-Industry and Food Security, Fisheries Post of Mahebourg, Beach Authority, Fisheries Training and Extension Centre (FiTEC), Competent Authority Seafood. | Social Welfare Centre Committee, Grand Port District Council, National Development Unit (NDU), Ministry of Agro Industry and Food Security. | Government or public |
| | Local environmental NGOs: Ecosud (Lagon Bleu Project), Mauritian Wildlife Foundation (MWF) | Local environmental NGOs: Ecosud (Lagon Bleu Project), Reef Conservation, Mauritius Marine Conservation Society (MMCS) | Mouvement Aide Agricole (MAA), La Voie de Mahebourg | Non-governmental |
| | Kolektif ecoguards | Kolektif Ecoguard, La Voie de Mahebourg. | Residences la Chaux's associations, Ocean Women, Mouvement Bien-Etre Résidences La Chaux, Nu Zenfan Cite, | Formal community org. |

| | | | | |
|--|---|---|---|--|
| | The whole community | The whole community including registered and unregistered fishers, Mahebourg fishers | Mahebourg Espoir, Association of elders. The whole community | Individual |
| | All businesses | All businesses | All businesses | Local business Other private sector |
| | MCB Forward Foundation, sponsors from local and international companies through CSR (Corporate Social Responsibility) | MCB Forward Foundation, sponsors from local and international companies through CSR (Corporate Social Responsibility) | MCB Forward Foundation, sponsors from local and international companies through CSR (Corporate Social Responsibility) | |
| | | Mauritius Oceanographic Institute (MOI), Albion Fisheries Research Centre (AFRC), | SMEDA (Small and Medium Enterprises Development Authority, FAO (Food and Agricultural Organisation). | Research institutions |
| | University of Mauritius (Faculty of Agriculture and Faculty of Ocean Studies) | University of Mauritius, Ocean Study department | Local schools | Schools/ universities |
| | Indian Ocean Commission (Biodiversity project) | DCP, Indian Ocean Commission (Smartfish Project) | Decentralised Corporation Programme (DCP) | International org. |
| | Local, national and global experts for mangrove restoration and conservation | Local, national and global experts for mariculture and marine biodiversity conservation | | Other stakeholder |



Configuration of the linkages between ecosystem and biodiversity changes, their direct and indirect drivers and corresponding policies and actions

This project has contributed to the following Sustainable Development Goals (SDGs):



This project has contributed to the following Aichi Biodiversity Targets (ABTs):



Project Achievements

| Name | Description |
|------------------------------|---|
| Barchois Restoration | Through community involvement a series of clean-up activities, removal of alien invasive species and the planting of indigenous species in the area was realized. |
| Capacity building | Training and better awareness among community members in community tourism was done. |
| Establishment of Cooperative | A Cooperative was setup to build on the interventions of the Project and is tasked with fundraising, engagement with government and mobilizing of stakeholders. |

Lessons Learned

| Description | Recommendation |
|--|--|
| Lack of Political Will | Ensure that all political actors are on board at the inception stage and obtain relevant supporting documentations. |
| Strength in Multi-stakeholder approach | Engage all stakeholders in each stage of the project. This ensures that all players are at the table discussing the issues and bringing to the fore their values in the analysis. This is also a cost-effective way since stakeholders bring resources such as manpower and equipment. |

Outputs

| Type | Details |
|-------------|--|
| Publication | Feasibility Study: Developing community-based mariculture in the Barchois of Residences la Chaux Mahebourg http://gef-satoyama.net/wp/wp-content/uploads/2017/12/Barchois-Project-Feasibility-study.pdf |
| Publication | Marine Environmental Assessment of a Barchois at Cite La Chaux Mahebourg http://gef-satoyama.net/wp/wp-content/uploads/2017/12/Report-%E2%80%93-Environmental- |

| | |
|-------------|---|
| | Assessment-of-a-Barachois-at-Cite-La-Chaux-Mahebourg.pdf |
| Publication | Household Survey Report La Chaux ‘Barachois’, Mahébourg http://gef-satoyama.net/wp/wp-content/uploads/2017/05/Household-Survey-Report-La-Chaux-Barachois-Mah%C3%A9bourg.pdf |
| Publication | Floristic Survey Barachois de Mahebourg http://gef-satoyama.net/wp/wp-content/uploads/2017/12/Floristic-Survey-Barachois-de-Mahebourg.pdf |
| Publication | The Barachois Project – A Baseline Study – Alien Species – Terrestrial Plants http://gef-satoyama.net/wp/wp-content/uploads/2017/12/Le-Barachois-A-Baseline-Study-Alien-Species.pdf |
| Publication | The Barachois Project – A Baseline Study – Native and Endemic Species – Terrestrial Plants http://gef-satoyama.net/wp/wp-content/uploads/2018/01/Le-Barachois-A-Baseline-Study-Native-Species.pdf |
| Publication | Protocole de suivi de la dynamique de la végétation sur la zone du Barachois Cité la Chaux à l’île Maurice Mise en place d'un quadrat permanente http://gef-satoyama.net/wp/wp-content/uploads/2019/08/Protocole-suivi-v%C3%A9g%C3%A9tation-v3.pdf |
| Publication | Species Present in the Barachois http://gef-satoyama.net/wp/wp-content/uploads/2019/08/Species-Present-in-the-Barachois.pdf Espèces présentes dans le Barachois http://gef-satoyama.net/wp/wp-content/uploads/2019/08/Esp%C3%A8ces-pr%C3%A9sentes-dans-le-Barachois.pdf |
| Publication | Assessment of Water, Sediment and Fish quality in a Barachois for a potential mariculture project http://gef-satoyama.net/wp/wp-content/uploads/2019/08/Report-UOM-April-2018.pdf |
| Publication | Pilot Study of Community-based Aquaculture Development http://gef-satoyama.net/wp/wp-content/uploads/2019/09/Aquaculture-Pilot-Study-Plan.pdf |

For more information please contact

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