TOWARD GENDER-RESPONSIVE ECOSYSTEM-BASED ADAPTATION

Why it's needed and how to get there



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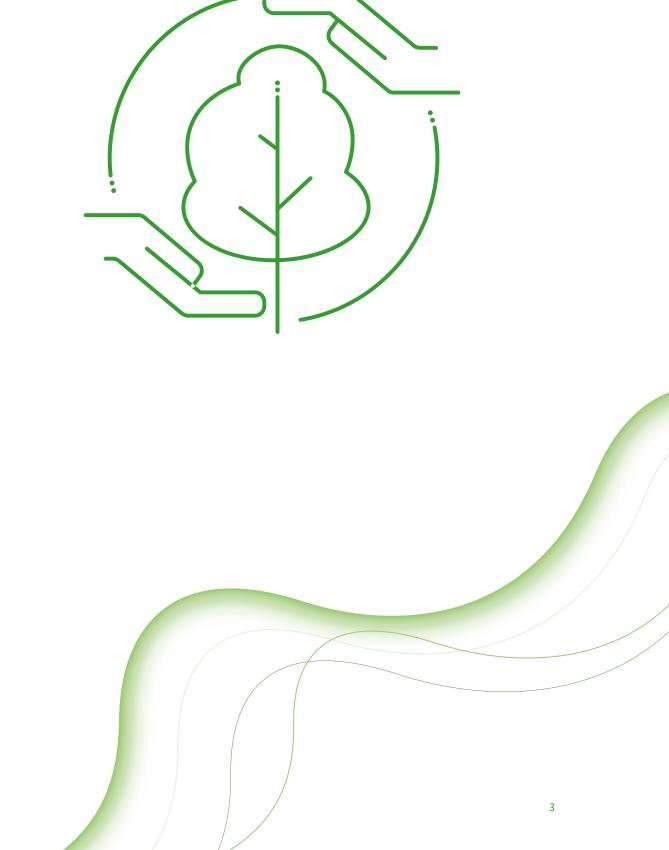
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LIST OF ABBREVIATIONS

ALIVE	Adaptation, Livelihoods and Ecosystems Planning Tool
CARE	Cooperative for Assistance and Relief Everywhere
CBD	Convention on Biological Diversity
CHAL	Chitwan-Annapurna landscape
CLAC	Community Learning and Action Centers
CSFA-RFP	Climate-Smart Family Agriculture for Resilient Food Production Project
CVCA	Climate Vulnerability and Capacity Analysis
DRR	Disaster risk reduction
EbA	Ecosystem-based adaptation
FAO	Food and Agriculture Organization
GBV	Gender-based violence
GCF	Green Climate Fund
GIZ	Deutsche Gesellschaft für Internationale Zusammenarbeit
IIED	International Institute for Environment and Development
IPCC	International Panel on Climate Change
IUCN	International Union for the Conservation of Nature
NAP	National Adaptation Plan
NBSAPs	National Biodiversity Strategies and Action Plans
NGO	Non-governmental Organization
NPMLPAN	Nguna-Pele Marine and Land Protection Area Network
NRM	Natural resource management
NTFP	Non-timber forest products
NTNC	National Trust for Nature Conservation
SRJS	Shared Resources, Joint Solutions
TAL	Terai Arc landscape
UNEP	United Nations Environment Programme
UNEP-IEMP	UNEP's International Ecosystem Management Partnership
UNFCCC	United Nations Framework Convention on Climate Change
UNICEF	United Nations Children's Fund
UNESCO	United Nations Educational, Scientific and Cultural Organization
WHO	World Health Organization
WWF	World Wildlife Fund







Box 1 — Key Gender Concepts

The following concepts are important to this report:

Gender refers to the "socially constructed roles, behaviours, expressions and identities of girls, women, boys, men, and gender diverse people." Gender is not defined by biology or by a person's body. Gender diversity recognises that there are gender identities and expressions that fall between masculine and feminine or outside the gender binary. Gender identity can change over time.

Gender equality is a situation where people of all gender identities have the same status and equal opportunities to realise their rights and to access resources, services and benefits. ¹⁰ Gender equality does not mean that people of all genders are the same—it is an absence of discrimination on the basis of gender. ¹¹

Equity is about "fairness and justice in process and in results." ¹² It includes aspects of recognition of diversity and rights, procedures in relation to decision making, and distribution of costs and benefits across different actors. ¹³ To achieve equity, processes and actions must be designed to address barriers that prevent some people from realising their rights and accessing the same opportunities, resources, and benefits as others. ¹⁴ Equity is a pathway to equality. ¹⁵

Intersectionality describes "the complex, cumulative way in which the effects of multiple forms of discrimination (such as racism, sexism, and classism) combine, overlap, or intersect." ¹⁶

The following approaches are referred to in the paper and are important for EbA effectiveness:

Gender-responsive approaches seek to promote gender equality by examining and actively addressing gender norms, roles, and inequalities.¹⁷ This goes beyond sensitivity, which is about awareness of gender differences, to a more action-oriented approach to address inequalities.¹⁸

Intersectional approaches recognise that people have multiple identities and take into account the historical, social, and political contexts that shape the different forms of discrimination that people face.¹⁹ They help to avoid generalisations about the experiences of people of a particular gender, recognising the differences among women, men, and nonbinary people. Intersectional approaches are inclusive, paying attention to gender balance as well as the representation of people with other socio-cultural characteristics that influence their experiences and the discrimination that they may face.²⁰

For an overview of key resources on gender and climate change adaptation, please see Annex 1.

2. Why Integrate Gender Considerations into EbA Actions?

This section explains the rationale for integrating gender considerations into EbA actions, from both a policy perspective and a practical point of view. For a brief overview of what we mean by EbA, please see Box 2. A list of useful resources on EbA can be found in Annex 2.

KEY GENDER CONSIDERATIONS FOR EBA ACTIONS

The impacts of climate change affect people differently, depending on their gender as well as a range of other factors, including age, ethnicity, Indigeneity, socio-economic status, and disability.²¹ For climate change adaptation to be effective, it must take these differences into account, while also addressing the systemic barriers and discrimination that make some people more vulnerable than others.²² This applies equally to EbA, which is one approach within a broader adaptation strategy.²³

The following sections provide an overview of the gender issues that must be taken into consideration in a gender-responsive approach to EbA. This overview also illustrates why a gender-responsive approach is essential for EbA actions to be effective.

Box 2 — EbA: Overview and Key Resources

EbA is a means to protect, restore, and enhance ecosystem services to reduce climate change risks and impacts and improve the resilience of people. The concept of using ecosystems to adapt to climate change (EbA) has been defined by the CBD as "the use of biodiversity and ecosystem services as part of an overall adaptation strategy to help people to adapt to the adverse effects of climate change. It aims to maintain and increase the resilience and reduce the vulnerability of ecosystems and people in the face of the adverse effects of climate change."

Be the potential to generate economic returns and provide multiple benefits, such as improved health, biodiversity protection, food security, and alternative livelihood opportunities, all of which can build resilience to climate change.



Gendered Roles and Responsibilities

Gender norms influence the roles and responsibilities that people take on in their households and communities.24 These differences can be observed across a range of ecosystem services. With respect to water, the World Health Organization (WHO) and UNICEF reported in 2017 that women and girls are responsible for collecting water in 8 out of 10 households that did not have water at their premises.²⁵ In the fisheries sector, analysis by the Food and Agriculture Organization of the United Nations (FAO) found that men comprise approximately 85% of the harvesting workforce, while women undertake 90% of the processing work.²⁶ A global comparative study that assessed gender differences in use of forest products found that there are typical roles played by women and men, a common assertion in the literature on gender and forestry, although these vary across regions.²⁷ There is emerging evidence that gendered roles lead to differences in the value given to different ecosystem services. For example, one study found that women placed more value on regulating services such as air purification and water regulation, while men prioritised provisioning services such as agriculture;28 however, more research is needed in this area to better understand these dynamics.29

These are examples that illustrate the ways in which roles may be assigned along gender lines, but it must be kept in mind that these dynamics are context specific, and there are other factors (age, socio-economic status, etc.) that also influence the roles people play.³⁰ A number of studies emphasise the need for localised analysis to understand gender roles in relation to ecosystem services in an intersectional approach (see Box 1 for explanation).³¹ Further, there is evidence that typically female roles may place women and girls at risk of gender-based violence (GBV): this has been observed in relation to the collection of fuel and water, for example. As these resources become increasingly scarce, more time and distance are required to secure them, increasing exposure to risk of GBV.32 Given the impacts of climate change on ecosystem services, this is an essential consideration for EbA.



Gender Differences in Access to and Control over Natural Resources

There is also considerable evidence of gender differences in access to and control over natural resources, with women most often at a disadvantage. ³³Both formal and customary land tenure systems tend to disadvantage women, leaving

them with less access to land and reduced decision-making power in relation to land use.³⁴ This is particularly true for Indigenous women.³⁵ Similar trends are observed for other resources, including fisheries and forests.³⁶ In some instances, it is men who face barriers in accessing particular resources³⁷—again, context-specific analysis is important.

There are also factors that indirectly influence gender differences in resource access and control. A lack of capital may affect women's access to resources. For example, research in the fisheries sector in Mozambique and Kenya found that women may not be able to generate the financial resources needed to invest in fishing vessels and equipment that would enable them to access more distant fishing grounds.38 Limitations on women's mobility due to social norms or security risks may inhibit their ability to utilise resources such as forests and fisheries.³⁹ Educational gaps and institutional barriers have been observed to affect women's access to resources. 40 Recent research by IUCN also found that GBV is employed to maintain or exert control over natural resources, particularly at times when resources are scarce—an increasing concern in the face of climate change and biodiversity loss. 41 The risk of violence faced by environmental defenders—people who stand up for environment-related human rights-has also been highlighted, particularly for those who are Indigenous, or of underrepresented sexual orientations, gender identities and/or expressions, and sex characteristics.42



Gender-Specific Knowledge

The existence of gender-specific Indigenous and traditional knowledge that is applied in the management and conservation of ecosystem services is another aspect that is relevant for EbA. With differing roles in relation to ecosystem services, people develop specific knowledge, which may be passed down to children of the same gender. 43 For example, a study in Malaysia identified differences in knowledge about native fruit trees by both age and gender, based on differing amounts of time spent in orchards and forests and roles played in the harvesting, processing, sale, and consumption of the fruit.44 In the Pacific, research found that women's knowledge of water and agriculture was particularly important in relation to ensuring water and food security when climate hazards occur. 45 However, evidence also shows that women's knowledge may not be valued in the same way, and therefore may not be effectively utilised in decisions around the use and management of ecosystem services. 46 These examples illustrate the importance of harnessing knowledge from people of all genders to find effective EbA solutions.



Women are underrepresented in environment-related decision making across levels and sectors,47 which has considerable implications for how gender-responsive adaptation action can be. Specifically with respect to EbA, there are two key aspects to consider: gender-equitable participation in the planning and implementation of EbA actions and gender balance in broader governance mechanisms for natural resources. The two are interconnected—because women are less likely to be involved in decision-making structures, they may also be left out of planning processes for EbA and other adaptation actions. Data gaps make it difficult to accurately assess the scale of this problem;48 however, available analysis shows, for example, that there are very few female heads of environment ministries.⁴⁹ The gender imbalance in decision making is recognised at the international level, including in the biodiversity and climate change negotiations.50

At the local level, where EbA actions are typically implemented, research has found considerable gender gaps in natural resource governance mechanisms, with women often excluded from decision-making processes.51 For example, research in Liberia found that social norms, which were strictly enforced by families and communities, inhibited women's participation in forest management committees, despite the importance of forest activities for livelihoods, particularly of poorer households.⁵² A study of water user associations in six communities in the Assam and Bihar provinces in eastern India found that the inclusion of women was minimal, though slightly higher in Bihar where there is a requirement for women's representation.53 Conversely, there is evidence that increased participation of women in decision making related to ecosystem services can yield benefits in terms of sustainability and equity⁵⁴ and can lead to empowerment in other spheres.55



Inequities in Benefits from Ecosystem Restoration, Conservation, and Management

The question of who benefits from investments in ecosystem restoration, conservation, and management is an important one for EbA. The fact that women and marginalised groups are disadvantaged in relation to access and control over resources means that they are less likely to benefit from actions taken to protect ecosystem services. For example, research in India found that women in lower-caste groups were highly dependent on forest resources, which were used for income, food, and medicinal

purposes. However, they faced barriers in accessing value chains for non-timber forest products (NTFPs) derived from native fruit trees, which affected their ability to maximise the benefits from this resource. This example highlights the additional challenges faced by women who are also members of a socially excluded group, emphasising the need for an intersectional approach.

Similar trends are observed in the agricultural sector, where there is strong evidence that women have lower productivity rates and, consequently, lower incomes. This is due to a range of factors including women's unpaid care burden and lower access to credit, inputs, and extension services.⁵⁷ In another example, an analysis of ecosystem-based tourism in East Africa found that women were less likely to own businesses and were generally limited to particular roles, such as working in restaurants. As a result, the bulk of the tourism income was benefitting men.⁵⁸ While these examples do not speak specifically to climate change adaptation, they illustrate the potential for the benefits of EbA actions to be inequitably distributed if gender issues are not considered. Indeed, the International Panel on Climate Change (IPCC) has reported that disadvantaged groups, including women-headed households, tend to benefit less from climate actions.59



Benefits of Integrating Gender Considerations

Finally, there is also considerable evidence that integrating gender considerations in ecosystem-based initiatives increases effectiveness and sustainability. The IPCC Special Report on Climate Change and Land asserts that recognising gender differences and enabling women to realise their land rights and apply their knowledge in decision making would support sustainable land management and integrated adaptation actions.⁶⁰ A recent report by IUCN highlighted a number of benefits derived from addressing gender issues in fisheries management: these include better enforcement of regulations, increased value addition, and reductions in product losses. 61 Similarly, efforts to increase women's participation in water resource management have long been known to yield better outcomes.⁶² There is also emerging evidence that adaptation initiatives that address gender are more effective⁶³ and that synergies with other objectives such as food security can be realised through rights-based approaches that empower women.⁶⁴ Some research also highlights the benefits of engaging men in gender equality initiatives, for example in efforts to reduce GBV.65

All of this suggests that integrating gender considerations in EbA actions can yield benefits that reach beyond progress toward gender equality, in terms of more inclusive governance and better management of resources. At the same time, however, EbA has its limitations. It is important to be realistic about what can be achieved through individual initiatives in order not to raise false hopes that the concept is unable to live up to. The achievement of gender equality and social inclusion is a long-term process that requires systemic, holistic changes in societies, institutions, and governance, and EbA actions alone cannot achieve these changes. Gender-responsive EbA actions must therefore be embedded in broader change processes (for example, by connecting with social movements or linking to relevant policies) if they are to be effective in tackling discriminatory norms and practices.

POLICY CONTEXT FOR INTEGRATING GENDER CONSIDERATIONS INTO EBA ACTIONS

A number of international policy agendas include commitments that create a mandate for integrating gender considerations in EbA actions. The 2030 Agenda for Sustainable Development includes a goal on gender equality and empowerment of women and girls that requires attention across all of the Sustainable Development Goals to be achieved.66 From a climate change perspective, the Paris Agreement under the UNFCCC acknowledges the right to gender equality and calls for adaptation action to adopt a gender-responsive approach.⁶⁷ The enhanced Lima Work Programme and Gender Action Plan, agreed in 2019, reinforces these commitments.⁶⁸ In the CBD, the preamble recognises that women play an essential role in conserving and sustainably using biological diversity and affirms the need for their full participation in policy-making and implementation in relation to the conservation of biodiversity.⁶⁹ The commitment to gender mainstreaming was reiterated in the establishment of the Strategic Plan for Biodiversity 2011-2020 and the Aichi targets, 70 as well as in the 2015-2020 Gender Plan of Action.71 More recently, discussions are underway on the post-2020 global biodiversity framework and how to ensure that it is gender-responsive, 72 and a post-2020 Gender Plan of Action is under development.73

At the national level, countries are planning and implementing actions through country-driven processes that aim to address the climate and biodiversity crises. These include a range of processes, including Nationally Determined Contributions to the Paris Agreement and national disaster risk reduction (DRR) strategies. Most relevant from an EbA perspective are:

- → National Adaptation Plan (NAP) processes, which aim to identify and address medium- and long-term priorities for climate change adaptation, as well as to put in place the systems and capacities needed to integrate adaptation in decision making across sectors and levels. Though established in 2010, the NAP process was recognised in the Paris Agreement as a key mechanism for achieving the global goals on adaptation.⁷⁴ The original decision on NAPs recognised the need to integrate gender considerations,⁷⁵ and a toolkit was developed in 2019 to guide this process.⁷⁶
- → National Biodiversity Strategies and Action Plans (NBSAPs), which provide a national framework for implementing the three objectives of the CBD, namely: the conservation of biological diversity; its sustainable use; and fair and equitable sharing of the benefits from its use. 77 NBSAPs are expected to highlight the ways that biodiversity contributes to sustainable development, as well as the threats. They should identify actions to address the threats, including priorities and targets. Mainstreaming of gender considerations is a key approach for the development of NBSAPs, 78 and guidance was developed in 2010.79

In both cases, analysis has been undertaken to assess the extent to which gender considerations have been integrated. Analysis by the NAP Global Network in 2020 showed that more than 90% of NAP documents contained a reference to gender; however, only around half of the documents contained evidence of participation by women or women's groups, and only two thirds provided evidence that gender had been considered in the identification of adaptation options.80 In 2018, the Secretariat of the CBD reviewed NBSAPS that had been submitted by countries between 2010 and 2018, finding that less than half included a reference to gender or women, and only one third included gender-related actions or targets. It noted that women were most often positioned as a vulnerable group.81 In both cases, it is clear that there is room for improvement in terms of taking a gender-responsive approach.

Also of importance for EbA is the issue of vertical integration—linking national and subnational processes in a strategic, intentional approach—which helps ensure that local realities are reflected in national plans and that these plans create an enabling environment for locally led action. Be action is more effective when it works toward multi-level governance. Vertical integration is also essential for a gender-responsive approach, as it creates opportunities for greater stakeholder participation and can help channel resources for action to grassroots actors, including women's groups and civil society organisations representing marginalised groups.

→ 3. Gender-Responsive EbA in Practice: Building Blocks

This section explains what gender-responsive EbA looks like in practice, identifying the key building blocks.

WHAT IS GENDER-RESPONSIVE EBA?

A gender-responsive approach to EbA is one that actively promotes gender equality, by acknowledging gender differences and tackling discriminatory policies, practices, and norms. Gender-responsiveness is often less about the EbA actions themselves and more about how they are planned and implemented. What this means is that it is difficult to say that a particular action is or isn't gender responsive—this depends on the context, how it was planned, how it is implemented, and so on.

Recent work on integrating gender considerations in adaptation has identified three key elements of a gender-responsive approach, as shown in Figure 1.

Across all three dimensions, an intersectional approach is needed to understand and address the differences among people of the same gender based on race, age, sexual orientation, socio-economic status, Indigeneity, and other factors that influence their roles, experiences, and the forms of discrimination they face. And, as noted above, EbA actions must be integrated into broader governance systems and social change processes to achieve the systemic changes that are needed to realise gender equality and social inclusion.



Recognition of gender differences in adaptation needs and capacities:

Gender differences in roles, knowledge, and realization of rights mean that women, men and nonbinary people have different needs and capacities in relation to EbA. These differences must be acknowledged and addressed in EbA actions, so that no one is left behind.



Gender-equitable participation and influence in adaptation

decision-making processes: Decision making for EbA includes planning and implementation strategies, as well as the ongoing governance of ecosystem services to sustain EbA efforts. Across all decision-making processes and mechanisms, efforts are required to ensure gender equity and inclusion of underrepresented voices.



Gender-equitable access to finance and other benefits resulting from investments in adaptation: EbA actions can provide social and economic benefits to individuals, groups, and communities. For EbA to be gender-responsive, these benefits must be distributed equitably across genders and social groups.

Figure 1: Elements of a Gender-Responsive Approach85

WHAT DOES GENDER-RESPONSIVE **EBA LOOK LIKE IN PRACTICE?**

There are opportunities at different points in the planning and implementation of EbA actions to integrate gender considerations, though ideally this will be central to the approach from the outset. To guide a gender-responsive approach, we have identified a set of "building blocks" * representing key steps that can be taken at different stages. As shown in Figure 1, these building blocks align with the elements of gender-responsive adaptation, providing

specific considerations for planning and implementing EbA actions. Given that gender responsiveness is highly dependent on the context and the process undertaken, these building blocks represent approaches that are broadly applicable and can help ensure that EbA initiatives promote gender equality and don't exacerbate existing inequalities. The following sections explain the different building blocks and how they can be put in place.



Recognition of gender differences in adaptation needs and capacities



Gender-equitable participation and influence in adaptation decision-making processes



Gender-equitable access to finance and other benefits resulting from investments in adaptation



EbA planning informed by gender analysis



EbA planning processes actively engage under-represented voices



Structures set up to implement EbA actions are gender-equitable and inclusive



Targeted EbA actions that address gender-specific needs and capacities



EbA actions promote genderequitable and inclusive governance of natural resources



Participatory monitoring & evaluation systems track who is benefitting from EbA actions and how

Figure 2: Building Blocks for a Gender-Responsive Approach

The "building blocks" approach was inspired by the PANORAMA - Solutions for a Healthy Planet initiative, which showcases practical solutions for conservation and sustainable development.



Gender analysis is the foundation for a gender-responsive approach. It explores the roles and relationships between people of different genders, as well as gender-specific opportunities, barriers, and decision-making power. Gender analysis—with an intersectional approach—enables an understanding of gender differences and systemic discrimination that must be addressed to make progress toward gender equality. With this knowledge, EbA actions can be planned and implemented in ways that recognise gender roles and dynamics while tackling discriminatory norms and practices.

Social norms and power dynamics are highly context specific, requiring participatory analysis processes to overcome assumptions and challenge unhelpful perceptions. As well, gender roles and relations are dynamic, changing over time and under different circumstances: consequently, gender analysis must be an ongoing process that informs learning and adjustment and is an essential element of monitoring & evaluation, with participation built in throughout. This makes it important to empower local institutions such as women's groups and organisations representing socially excluded groups to ensure that local capacities are in place for the longer term and that approaches evolve with the context.



The planning of EbA actions should be a participatory process that brings together all relevant stakeholders. This includes local authorities, conservation organisations, and community members. Without concerted attention to ensuring participation of groups that are typically underrepresented, there is a risk that this engagement will reinforce existing processes of social and political exclusion. Further, without participation of marginalised groups, there is a reduced likelihood that the EbA actions being planned will meet their needs. What this means is that the leaders of EbA planning processes must actively work to create opportunities for meaningful participation by women, Indigenous communities, and others whose voices are often left out of decision making. This may require targeted consultations, capacity building, and engagement of facilitators from the excluded groups. Where appropriate, dialogue between marginalised groups and the broader community can be helpful in building a better understanding of needs and barriers; however, this requires skilled facilitation and must be based on a careful assessment of potential risks to those who do speak out.



Recognition that people of different genders have different needs and capacities for adaptation demands the design of targeted actions. There are a number of ways that adaptation actions can be designed specifically for women, men, and nonbinary people. First, a range of actions may be needed to reduce vulnerability of livelihoods, recognising gender-specific roles. For example, if women and men play different roles in fisheries or forestry, specific strategies may be needed to ensure that EbA actions generate equitable benefits and do not undermine resilience for anyone working in the sector. Targeted actions may also be needed to overcome gender-based barriers to resource access and control, for example by engaging with community leaders who make land-use decisions, to ensure that EbA actions do not exacerbate existing inequalities. Finally, there may be a need to channel resources on a priority basis to groups that are typically excluded, such as women's groups or Indigenous communities, to ensure that they can meaningfully participate in the planning and implementation of EbA actions.



The implementation of EbA actions occurs within existing systems of governance for natural resources. This may include local bylaws, land use plans, conservation policies, and local development plans, among others. In some cases, these existing governance systems are discriminatory, in terms of resource access and use, representation of women and marginalized groups, and sharing of benefits from ecosystem services, which can exacerbate vulnerability to climate change and undermine efforts to protect biodiversity. As EbA actions are implemented, it is important to engage with decision makers at different levels to raise awareness of discriminatory policies and practices, and to promote governance of ecosystem services that is gender-equitable and inclusive.

BUILDING BLOCK #5 Structures set up to implement EbA actions are gender equitable and inclusive

Often, EbA actions will be implemented through community-based mechanisms, such as forest user groups, water management committees, or local conservation organisations. These may already be in existence or may be established specifically to manage the EbA action. In either case, attention to gender balance and inclusion of underrepresented groups in these mechanisms is an essential element of a gender-responsive approach. This helps ensure that specific needs are met and benefits are equitably distributed, and can serve to challenge existing norms that perpetuate discrimination. Awareness raising and capacity building may be needed to facilitate this participation.



The monitoring and evaluation of EbA actions should involve participatory processes to understand how those directly involved in implementation, as well as the broader community, perceive the process and the results. For a gender-responsive approach, this process must utilise disaggregated data and examine who is benefiting from EbA actions, how, and why or why not, as well as tracking any unintended negative benefits on particular groups or communities. This can help them avoid negative impacts while adjusting and identifying strategies to ensure that benefits from EbA actions are distributed equitably across genders and social groups.



→ 4. Gender-Responsive EbA in Practice: Case Examples

The following case examples demonstrate genderresponsive EbA in practice, providing an example for each of the six building blocks.



4.1 BUILDING BLOCK #1: EBA PLANNING INFORMED BY GENDER ANALYSIS

CASE EXAMPLE | Rehabilitating Mangrove Ecosystems in Senegal

> Context

The Saloum Delta, on the west coast of Senegal, consists of 5,000 square kilometres (km²) of brackish channels, islands and islets, mangrove forest, an Atlantic marine environment, and dry forest. The delta provides habitat for a range of species, including fish, molluscs, crustaceans, marine mammals, and migratory birds. ⁸⁷ It is classified as a World Heritage Site by the United Nations Educational, Scientific and Cultural Organization (UNESCO) due to its ecological and cultural significance. ⁸⁸

Climate change is already affecting the Saloum Delta, causing ongoing drought that has affected the availability of fresh water and led to increased salinity in water and soil. ⁸⁹ Sea level rise is also increasing coastal erosion and submersion of the mangroves. ⁹⁰ Climate change projections indicate that temperatures in Senegal will increase by 1.7°C to 4.9°C by the 2090s. Projections for rainfall are inconclusive but suggest that more rain will fall in heavy events. ⁹¹ Along with sea level rise, these impacts have important implications for coastal infrastructure, livelihoods, and biodiversity. ⁹²

Anthropogenic pressures are also affecting the area, notably through overfishing and deforestation, exacerbated by migration to the coastal areas. The area of the delta covered by mangroves decreased from 60% in 1980 to less than 40% in 2006. Hhis has important implications for communities in the area, as the mangroves are important for their fisheries and the timber and NTFPs they provide. They also protect the coastline from storms and erosion due to rising sea levels, s and provide a home for endangered species including manatees and dolphins. Agriculture is also important in the area; however, the combination of recurrent drought and soil degradation has made this more challenging in recent years.

Though some progress has been made at the policy level and in local governance structures, where women held 48% of elected seats in 2019,⁹⁸ gender inequality remains a considerable challenge in Senegal. Almost 30% of married women 20–24 years of age were married before they turned 18,⁹⁹ and in 2017, less than 30% of women of reproductive age were using contraceptives.¹⁰⁰ There is a gender gap in literacy, with only 40% of females over 15 being literate, compared to 65% of males in 2017.¹⁰¹ Traditionally, roles in fisheries are gendered, with men typically fishing and women typically doing the processing.¹⁰² Despite their important role, women are underrepresented in fisheries governance structures and investments in the fisheries sector do not prioritise their needs.¹⁰³

> Response

In response, the local non-governmental organisation (NGO) Enda Graf Senegal launched a project in 2014, working with female fishers with the objective of preserving the mangrove ecosystems, while also securing women's economic autonomy and building resilience to climate change. 104 Project activities are centred around women's livelihoods and the protection of the sensitive ecosystem upon which they depend. This includes a number of aspects, from reforestation efforts in the mangrove forest, to organic gardening.¹⁰⁵ Sustainable fishing practices, including calibration and weighing of the catch and shellfish reseeding, aim to reduce the pressure on the fisheries. 106 The project has also tackled the governance aspects in collaboration with the management mechanisms for artisanal fisheries, national park management agencies, and regional and local authorities, with a view to achieving gender balance in fisheries decision-making bodies.¹⁰⁷

> Putting the Building Block Into Practice

At the outset of the project, gender analysis was conducted to better understand the respective roles, responsibilities and relationships in the fisheries economy and governance. The analysis found that policies and practices in the sector increasingly disadvantage women, for example by prioritising the urban and export markets over local consumption. This has made it more difficult and costly for female fish processors to run their businesses. Fish processing has become an opportunity to grow businesses; however, the benefits have primarily gone to the owners of larger processing facilities and those they employ—primarily young men. In some cases, women went from managing their own businesses to working as labourers for men who have more capital and have been able to procure tools such as drying ovens. ¹⁰⁸

The negative impacts on the livelihoods of female fish processors have broader implications for their families and communities. Locally produced and processed fish is an important source of protein, so less supply and higher costs affect food security. More than half of the women involved in processing identified as heads of households, with their income covering key expenses such as food, health care, and education. Women's knowledge of processing techniques, handed down through generations, has been sidelined, putting at risk an important cultural resource. 109 The sectoral analysis was complemented by participatory analysis that explored the gendered division of labour within households, using tools such as daily time clocks. This process highlighted the heavy workload carried by women, including growing food, fetching water, and caring for children, as well as their role in managing natural resources. Based on this analysis, the project worked on two key aspects: addressing the imbalance in the distribution of labour in the household and creating opportunities for women to use their knowledge and skills in the fisheries sector.110

> Impacts and Lessons Learned

A total of 4,800 women from seven villages in the delta received training in public speaking, leadership, and advocacy. This has enabled them to develop skills that they have applied to defend their rights and ancestral knowledge of sustainable fishing practices. Women are engaged in mangrove restoration activities and have been able to increase their incomes through improved market access. 111 As a result, there is greater recognition of the value of traditional knowledge in the fisheries sector and how this can be channelled for EbA. 112

There have also been changes in gender dynamics as a result of the project. Men have taken on more of the domestic tasks, including helping with childcare and collecting water. Participants reported that there is less conflict within households as the division of work is more balanced. It was observed that younger men seemed more ready to share the workload than their elders, highlighting the importance of engaging youth in efforts toward social change. 113

Finally, there is better representation of women in the governance of the fisheries sector. With reductions in women's workload at home, they have had more time available to engage in local fishery regulation bodies. 114 These decision-making bodies now include 20 elected women leaders, and, thanks to the training provided by the project, they are better able to articulate their needs and priorities. 115





4.2 BUILDING BLOCK #2: TARGETED EBA ACTIONS THAT ADDRESS GENDER-SPECIFIC NEEDS AND CAPACITIES

CASE EXAMPLE | Building Climate Resilience in Agro-Pastoral Communities in Mauritania

≯ Context

With an already hot and dry climate, Mauritania has experienced three long periods of drought in the last 25 years that have accelerated desertification processes. 116 Climate projections indicate that annual rainfall will decrease by up to 10 mm by 2060, with more falling during a shorter rainy season. It is expected that this will lead to increases in extreme rainfall and potentially to more flooding. 117 This has important implications for the availability of water, food security, and human health. 118

In addition to the effects of climate change, land in Mauritania is under pressure from overgrazing of livestock, erosion, and salinisation. The country provides winter breeding grounds for a range of birds and habitat for a diversity of species.¹¹⁹ Other threats to biodiversity include

poaching, fragmentation of habitat, and invasive species.¹²⁰ As of 2018, only 0.2% of the land was covered in forest, while 38% was dedicated to permanent pasture.¹²¹

The village of Zreg Ainou is located in the commune of Dielwor in the western part of Mauritania, in the Sahel-Saharan region. The community has experienced recurrent drought and severe land degradation¹²² and has been affected by wildfires in recent years.¹²³ This has had a negative impact on livestock, agriculture, and forest-based livelihood strategies, leading to food and income insecurity.¹²⁴ Around Zreg Ainou, the forest that does exist provides important resources, including fruit and traditional medicines, but it is threatened by charcoal production.¹²⁵

Key indicators related to gender equality present a concerning picture. Based on 2017 data, Mauritania has the 7th highest rate of maternal mortality in the world, ¹²⁶ and 67% of girls and women aged 15-49 had undergone female genital mutilation/cutting. ¹²⁷ Specifically in Zreg Ainou, analysis found that women had limited decision-making power, girls were less likely to be educated than boys, and child marriage was common. Men were often away from the home with the livestock, leaving the women behind to manage the household and care for family members, sometimes for up to six months of the year. ¹²⁸

> Response

A local organisation focused on the development and promotion of human rights, the ADPDH, launched a project to address the negative impacts of recurrent drought and land degradation on the local environment and community livelihoods. The project aims to increase the well-being of community members, including men, women, and youth, by building resilience to climate change. Activities focus on protecting and managing the pastures and surrounding forests; vegetable and fruit production to improve income and food security; and improving health of livestock, a key asset for households in Zreg Ainou. This integrated approach is based on community-identified needs, addressing immediate challenges while investing in the natural resource base to build resilience over the longer term.





> Putting the Building Block Into Practice

The project took a whole-of-community approach to building resilience. The activities oriented toward livestock herders will primarily benefit men, while the gardening activities are targeted at women. Activities were designed to address particular vulnerabilities, for example, by increasing access to veterinary services and vaccinations for livestock and by distributing seeds to women for the community garden. These actions will help to reduce the impact of drought and land degradation on people's livelihoods.

At the same time, for the benefit of all, efforts were made to reduce overgrazing and threats to the forests that surround the pastures, in an effort to protect the highly sensitive local ecosystem from both climate change and damage resulting from human activities. A campaign was launched to end the collection and processing of charcoal, and the project worked with the local government to put in place bylaws against deforestation, as well as to ensure their enforcement. These efforts have been complemented by pilot solar energy installations in the community. The project also worked to increase tree cover by planting fruit trees around the community garden.¹³⁰ Collectively, these actions enhance the resilience of the local ecosystem by reducing erosion and land degradation while shading the gardens and pastures. Healthier forests also provide benefits for people, including fruit for consumption, traditional medicines, and NTFPs, which can provide a source of income.

> Impacts and Lessons Learned

The community garden is fully managed by the women of Zreg Ainou through a dedicated committee. It has yielded a number of benefits beyond the production of fruits and vegetables. Having received training in gardening techniques, the women are producing enough to sell, providing them with a new source of income. This has improved their decision-making power within the household, offering them more independence and the ability to acquire assets, including mobile phones, which increase their access to information. With the male heads of households spending less time away with the livestock, the household tasks are better distributed, and it has been observed that girls are attending school more than before.¹³¹



4.3 BUILDING BLOCK #3: EBA PLANNING PROCESSES ACTIVELY ENGAGE UNDERREPRESENTED VOICES

CASE EXAMPLE | Guardians of the Hills: Empowering women leaders for urban resilience

> Context

San Pablo is an urban district in the City of Portoviejo, located on the coast of Ecuador, with an approximate population of 12,000 inhabitants, of which 52% are women and 28% are children under the age of 12. Structural poverty is widespread in the community. The City of Portoviejo, like other urban areas, experienced accelerated urban growth that has resulted in informal land occupation, the establishment of settlements along riverbanks, hills, protected areas, and natural streams creating growing pressure on existing ecosystems and natural resources. The increasing deforestation of the dry forest to establish new settlements has modified the soil, leaving the hills without their natural protection. As a result, many families are located in landslide-prone areas and exposed to increased flooding. 132 The area has historically been exposed to heavy rainfalls that cause landslides and flooding. As climate change exacerbates the frequency and intensity of rainfall, the risk of such hazards increases, with the potential to generate significant human and material losses.¹³³ The precarious socio-economic situation combined with conditions and location of settlements increases the vulnerability of surrounding communities, including in the hills of San Pablo.134

Although Ecuador has a number of legal frameworks in place that address gender equality and seek to eliminate all forms of discrimination, gender gaps and violence against women still remain. Despite some progress, gender equality does not appear in the country's national development plan. In rural areas, women work an average of up to 23 hours more than men per week and earn less monthly income. GBV remains one of the main obstacles to equality, with 6 out of 10 women experiencing some type of violence in their life. Further, stereotypes and cultural practices that influence the preservation of power relationships perpetuate the subordination of women in relation to men. 135 In addition, women and girls tend to suffer more from the negative consequences of natural disasters, poverty, and violence due to traditional gender-based roles and responsibilities.136

> Response

Within this context, GIZ is implementing the "Guardians of the Hills Project," which aims to enhance local resilience and simultaneously improve the quality of urban ecosystems by empowering female community leaders, who will be part of implementing climate change adaptation

measures and establishing an early warning system for landslides. The project seeks to strengthen women's roles as local actors and to empower them to promote changes in their community, enhancing participation and co-responsibility. Specific measures are aimed at restoring the ecosystems of the hills through installations of orchards, terraced slopes, and eco-paths, which stabilise the slopes and allow for increased rainwater infiltration and help to mitigate the risk of landslides.¹³⁷

> Putting the Building Block Into Practice

The project included a specific focus on strengthening the role of women as leaders in climate action and the implementation of EbA measures in landslide-prone areas. An important element of the planning process involved the participatory identification, design, and implementation of EbA actions that actively engaged women from the community. This involved using a diagnostics tool to understand different groups as well as the social context and risks within the community. 138

To ensure meaningful and inclusive citizen dialogues between the municipality and the community, targeted trainings were organised to increase organisational capacities among particularly vulnerable people who live in informal settlements. For this purpose, the project team engaged specifically with women's groups and female leaders in the neighbourhood. Given the widespread occurrence of GBV as well as drug issues, an important conclusion of the training and engagement processes was the need for integrated measures that address the social and environmental resilience of the community, beyond the risks of landslides and flooding. 139

Participatory processes helped the community itself to understand the risks they are facing by establishing informal settlements in landslide-prone areas. Involving female leaders and women's groups in the design process ensured that measures addressed specific needs of women and children. Consequently, along with EbA measures to stabilise the slopes and increase forest cover, additional actions were taken to build the social resilience of the



community. EbA measures were underpinned by efforts to mobilise women to participate in community improvement projects to restore public spaces, for example by installing neighbourhood signs and urban gardens that gave the community a sense of ownership and commitment to make their neighbourhood safer and more liveable. The engagement process raised awareness on the issue of GBV and led to the formation of groups where women can share their experiences and find help. The improvement in organisational capacities, along with the creation of safe public spaces and urban gardens, has specifically benefited women and in particular their children. 140

> Impacts and Lessons Learned

By designing and implementing EbA measures in a participatory way that focused specifically on engaging women throughout the process, the project team and the municipality were able to understand the social context and gender-specific challenges. This has led to the design of gender-responsive measures that address underlying issues such as GBV and other social risks to strengthen adaptive capacity of women and build their resilience, alongside the EbA measures designed to address climate and disaster risks.

Proactively engaging women as key actors in the project design and implementation has strengthened their role as local stakeholders for climate action and as important decision-makers for their communities. Women increased their influence within the municipal planning process and have used this platform to raise awareness around issues like GBV.

An essential element of the project was to increase the organisational capacities of women in the community. This has enabled them to come together in GBV prevention groups, to share experiences about domestic violence, and to identify procedures and provide guidance to support women affected by violence.¹⁴¹

4.4 BUILDING BLOCK #4:
EBA ACTIONS PROMOTE
GENDER-EQUITABLE
AND INCLUSIVE GOVERNANCE
OF NATURAL RESOURCES

CASE EXAMPLE | The Hariyo Ban
Programme in Nepal: Increasing
participation of women and
marginalised groups in natural
resource governance

> Context

Climate change projections for Nepal indicate that mean annual temperatures will increase by 1.8°C–5.8°C by the 2090s, and that winters will be drier and monsoons wetter. These impacts have implications for people's livelihoods in terms of decreased availability of water, damage to crops, and displacement. They also affect ecosystems by changing forest vegetation, affecting freshwater sources, and threatening habitats for key species such as snow leopards and one-horned rhinoceroses.

This case study focuses on two key landscapes: the Chitwan-Annapurna landscape (CHAL), which stretches from the high Himalayas to the lowlands in central Nepal; and the Terai Arc landscape (TAL), which stretches along the border with India. Together, these landscapes cover over 5 million hectares and are home to approximately 12 million people, including a diversity of ethnicities, cultures, and religions. Climate change is already affecting people and ecosystems in CHAL and TAL, through droughts and irregular rainfall, which in turn lead to floods and landslides. Alongside



climate change, the main threats to biodiversity in the targeted regions include the overharvesting of forest resources, wildfires, inappropriate infrastructure development, and human-wildlife conflict, among others. Climate impacts can lead to increased human pressure on ecosystems as people respond to displacement and food insecurity.¹⁴⁸



There are significant data gaps in relation to gender equality in Nepal; however, the available information illustrates stark realities. In 2016, almost 40% of women aged 20-24 were married before they were 18.149 Data from 2012 found that 48% of women had experienced violence at some point in their lives. 150 Though some progress has been made at the local government level, with 41% female representatives elected in the 2017 local elections, there are still major gaps at other levels, for example in the civil service, where women only represent 16%, and at the national level, where only 16% of ministers are women. 151 Recent analysis in CHAL and TAL determined that women and marginalised groups are underrepresented in decision-making structures for natural resource management (NRM).152 It also found that women and girls are particularly vulnerable to GBV, including sexual violence and trafficking, during and after disasters. 153

> Response

The Hariyo Ban Program, currently in its second phase, is implemented by the WWF, CARE, National Trust for Nature Conservation, and the Federation of Community Forestry Users in Nepal. The programme aims to increase ecological and community resilience in CHAL and TAL. With two interconnected objectives focusing on conservation and climate change adaptation, Hariyo Ban works with communities, government actors, and other stakeholders, with a particular focus on gender equality and social inclusion.

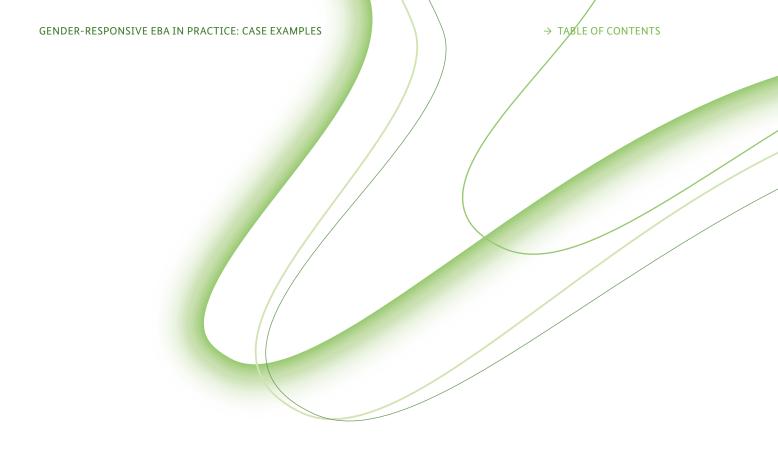
Activities promote biodiversity conservation, sustainable land management, sustainable livelihoods, and climate change adaptation, as well as governance. This includes

actions to strengthen community-based NRM groups and efforts to reduce human-wildlife contact, as well as watershed management actions, such as gully stabilisation and natural regeneration of degraded land. From a livelihoods perspective, activities include training and microcredit programs for income-generating activities, and support for establishment/recovery of ecotourism enterprises. To address climate change, activities include climate vulnerability assessments and development and implementation of local adaptation plans, focusing on EbA actions. The project also includes focused action to reduce vulnerability of people who face discrimination based on gender, caste and ethnicity. The

> Putting the Building Block Into Practice

Hariyo Ban placed a lot of emphasis on forest-dependent communities, as they play a key role in managing forests and therefore in biodiversity conservation. These communities are also experiencing the negative impacts of climate change on their livelihoods, making climate-resilient and ecosystem-based approaches essential to their well-being. Within these communities, women and marginalised people were identified as a focus to ensure that forest management efforts are equitable. ¹⁵⁶

More than 500 Community Learning and Action Centers (CLACs) were established for women to develop alternative livelihood activities, empowering women as change catalysts in their households, communities, and landscapes. Specific leadership training was provided for women and socially excluded groups to improve their capacities to take



on decision-making roles in NRM groups. These groups were also introduced to the concept of gender-responsive budgeting, and improved accountability mechanisms were put into place. Recognising the role of men in promoting gender equality, male leaders were identified and cultivated as champions for transforming social norms, and anti-GBV committees were formed within NRM groups.¹⁵⁷

Policy engagement was also part of the strategy, and gender and social issues were brought forward in local development planning processes. In addition, the project has engaged with local planning processes for climate change adaptation and conservation, to support the government in integrating gender equality and social inclusion in the process, thereby contributing to the enabling environment for gender-responsive EbA going forward.¹⁵⁸

> Impacts and Lessons Learned

The number of NRM groups with women in key positions in executive committees increased from 47% in 2013 to 70% in 2016, based on a sample of over 900 groups. Over the same period, the number of groups with representation of socially excluded groups in decision-making positions increased from 52% to 64%. Though these results are encouraging, an important lesson is that the quality of the participation also needs attention. For example, there is still a gender gap in the leadership of these committees, with only 15% female chairpersons. Barriers to women's leadership include illiteracy, lack of awareness of NRM laws and policies, and their domestic burden, which limit the time available for participation. 159

The project has continued its work to overcome these and other barriers that inhibit equitable participation by women and socially marginalised groups in natural resource governance. The anti-GBV committees are coordinating with trained mediators from local governments to address incidents of violence, referring the cases to the judiciary committee when needed. Similarly, campaigns against child marriage have led to the practice being restricted by local officials in at least one ward. Ghanges have also been observed in relation to household division of labour, with more contribution by men to domestic tasks. Livelihood support activities have also contributed to economic empowerment, with women and marginalised groups reporting significant increases in income. 161

A key lesson from the project is the importance of engaging male champions and decision-makers, who played a critical role in promoting transformation of norms and behaviours to reduce GBV. Collective learning and action by women and marginalised groups—facilitated through the CLACs—was another essential factor that enabled more equitable participation in NRM structures. Providing technologies that save time and labour, such as drinking water systems and agricultural tools, can reduce girls' absences from school and free up women's time so they are more able to participate in community activities such as NRM groups. ¹⁶²



4.5 BUILDING BLOCK #5: STRUCTURES SET UP TO IMPLEMENT EBA ACTIONS ARE GENDER EQUITABLE AND INCLUSIVE

CASE EXAMPLE | Engaging Women in Coral
Gardening for Climate Change Adaptation in Vanuatu

> Context

Vanuatu, located in the South Pacific, is particularly vulnerable to the adverse effects of climate change. The inhabitants of many islands are already suffering from sea level rise and extreme weather events such as hurricanes, droughts, heavy rainfall, floods, and their effects, which include, for example coastal inundation, soil nutrient loss, and coastal and hillside erosion. The predicted rise in sea levels, altered precipitation patterns, higher temperatures, and acidification of the ocean will exacerbate these risks in the coming decades. This has profound impacts on people's livelihoods, particularly those engaged in agriculture, forestry, and fishing, who are thus dependent on natural resources. 164

Coral reefs are particularly affected by climate change. Warming oceans are resulting in mass coral bleaching and coral death, ocean acidification, and invasive species. This, in turn, affects their role in coastal protection and the island ecosystem as well as important sectors such as fisheries and tourism. ¹⁶⁵ Tourism is estimated to contribute 65% of Vanuatu's GDP, directly and indirectly. ¹⁶⁶

Although Vanuatu has adopted gender equality policies, significant challenges and gaps remain. According to UN Women, three in five women (60%) in relationships have experienced either physical or sexual violence by their husband or intimate partner. From an economic perspective, women account for 36% of total paid members of the formal employment sector and make up 39% of the non-agricultural workforce. Men occupy more than 60% of jobs in the private and public sector, although the number of women who have completed a senior secondary qualification is greater than men.¹⁶⁷

Existing gender policies draw few linkages between ecosystems and assisting women and men to adapt to climate change. Vanuatu's policies are limited in promoting genderequitable and inclusive governance processes. Governance and usage rights to particular natural resources are still mandated through traditional gender and *kastom* practices*—an area in which the application of gender-responsive EbA could be valuable. 168



> Response

For small island countries like Vanuatu, coral reefs, livelihoods, income generation, and the impacts of climate change are inherently linked, requiring holistic solutions. To address the above challenges, GIZ partnered with the country's Nguna-Pele Marine and Land Protection Area Network (NPMLPAN) to implement a climate change adaptation project focused on coral gardening. The overall objective of the project aims to enable community-based climate change adaptation via an innovative and income-generating ecotourism activity that aims to restore the coral reefs. 169

Coral gardening involves the collection of small pieces of broken coral, focusing on varieties that are particularly resilient to climate change impacts of bleaching and ocean acidification. These fragments are then attached to portable metal frames to create coral beds, which are strategically placed near popular snorkelling areas for tourists, as well as in sites destroyed by cyclones or other hazards. 170 In exchange for a financial sponsorship to the community, tourists have the opportunity to participate in the coral gardening project. Following a briefing on climate change and its impacts on coral reefs and how the project is helping, they snorkel together with island reef champions to collect the climate resistant coral fragments and attach them to the underwater gardening beds. 171 Throughout the project, special emphasis has been placed on empowering women and girls to proactively participate in marine conservation activities, a sector typically dominated by male fishermen and divers. 172

> Putting the Building Block Into Practice

Women play an important role in managing natural resources in Vanuatu's coastal communities. Recognising this, the project aims to increase participation in conservation committees under the NPMLPAN. This has included targeted training and capacity development designed to encourage women to take on the role of resource champions in each of the committees. ¹⁷³

Though the marine environment is traditionally dominated by men, the project placed special emphasis on engaging women in coral gardening activities. In addition to harvesting the coral fragments and creating the coral beds, they learned skills in snorkelling, guiding tourists, and facilitating their participation in the coral gardening project. This has created new sources of income for women.¹⁷⁴

In addition, disaggregated data was used for monitoring and evaluation purposes to better understand who is benefiting from EbA actions as well as to track any unintended negative effects. For example, monitoring indicated that coral fragments collected by women have a 75% survival rate while those handled by men have only a 55 % success rate, making them more effective coral gardeners.¹⁷⁵

> Impacts and Lessons Learned

Overall, the coral gardening initiative has created new habitats for fish, thereby increasing the abundance of an important source of food while also enhancing the protection of the coastline from waves and cyclones. It has increased engagement with overseas visitors, providing new income flows for the communities and opening doors for other forms of climate cooperation (for example, through sponsorship of water supply systems). By creating a clear and specific role for women in the management and implementation of the coral gardening initiative, the project has opened up income-generating opportunities. ¹⁷⁶

The project has also succeeded in challenging existing perceptions about gender roles and responsibilities. Awareness and capacity-building initiatives have enabled women and girls to proactively participate in marine activity, a sector typically dominated by male fishers and divers. Women have been empowered through their participation in conservation committees of the NPMLPA network. These changes reflect a shift in social norms.¹⁷⁷

* "Kastom" is a term common in southwestern Pacific Island communities and refers to traditional culture, religion, and institutions grounded in Indigenous concepts and principles (World Bank, 2013). 4.6 BUILDING BLOCK #6:

PARTICIPATORY MONITORING AND

EVALUATION SYSTEMS TRACK

WHO IS BENEFITTING FROM EBA

ACTIONS AND HOW

CASE EXAMPLE | Promoting Climate-Smart
Agriculture for Resilient Food Production
in Honduras



> Context

Honduras is particularly vulnerable to climate change due to its high exposure to climate-related hazards such as hurricanes, tropical storms, floods, droughts, and landslides that devastate crops and critical infrastructure. These types of events have caused significant setbacks in Honduras' development process. In addition, Honduras has a large rural population (50%), of which 65% live in poverty. Livelihoods in rural areas of Honduras depend on rainfed agriculture, which is predominantly prevalent in the southern and western regions of the country.¹⁷⁸ This area is known as the "Central American Dry Corridor," * a region that has been most affected by extreme hazards and where food insecurity has become a persistent issue. Climate risks in this area include recurrent droughts, excessive rains, and severe flooding, affecting agricultural production with greater intensity in degraded areas.179

Although Honduras has a National Gender Plan, gender inequality is cemented in a social and cultural understanding of a woman's role, and progress is not being made to the same level as in other countries. Honduras is one of only a handful of countries globally to have an absolute ban on abortion and emergency contraception, even in cases of rape, incest, and endangerment to the life or health of pregnant women. Comparing numbers from the UN Human Development Reports shows that Honduras made progress along the gender inequality index but dropped in the overall ranking from 121 to 132 out of 189 countries between 2010 and 2020. Strong stereotypes, domestic violence, and femicide are among the main constraints to gender equality in the country.

Unemployment and underemployment are pressing problems. Many who are employed work in precarious jobs, often earning below the minimum wage, with no social protection and with long workdays. This situation especially affects women—although they have a higher rate of participation in the labour force than men, they face a large gender pay gap. In addition, Honduras has experienced a considerable increase in emigration abroad, with most of the migrants being men. In the homes from which men have migrated, particularly in rural areas, women must take on both reproductive and productive roles, increasing their workload. 182

* The Central American Dry Corridor is a tropical dry forest region on the Pacific Coast of Central America. This area extends from southern Mexico to Panama and is extremely vulnerable to climate change due to much of the population living in rural areas and in poverty, and thus dependent on grain crops for their livelihood (FAO, 2019).

> Response

The Climate-Smart Family Agriculture for Resilient Food Production Project (CSFA-RFP)¹⁸³ is being implemented in the "Dry Corridor" region and seeks to promote resilient food production in the face of climate change impacts among 600 families in the El Venado and Chiflador-Guaralape basins in Honduras. The population in the target area is 95% Indigenous Lenca communities, as well as a small population of Mestizo, another Indigenous group. 184 Project activities included capacity-building initiatives carried out at local and national levels to adopt climate-smart agricultural production systems in the value chains of honey, coffee, basic grains, and cattle ranching. The initiative is also promoting inclusive financing models (access to bank accounts and credit), inclusive businesses and commercialisation plans so that Indigenous families can be integrated into these value chains and be connected to local markets.¹⁸⁵ In addition, the project facilitated the formation of 20 savings and loan groups for women, exclusively managed by the participants to improve their economic empowerment and promote a culture of saving. 186

In an effort to improve watershed governance, watershed organisations will be created to promote efficient use of water and carbon in farming systems and food production value chains. The goal is to create an enabling environment for resilient food production, while leveraging existing key actors. The project will help these organisations in formulating, approving, and implementing Comprehensive Watershed Management Plans and in institutionalising water governance mechanisms.¹⁸⁷ With women making up 35% of project participants, the team recognised that rural and Indigenous women suffer from a greater vulnerability to climate impacts, while at the same time playing a fundamental role in achieving food security for their families. This recognition led to interest in incorporating a gender perspective in the above-mentioned actions and the need to develop a gender action plan for the project.¹⁸⁸

> Putting the Building Block Into Practice

To apply a gender lens and to inform the design of all activities, a number of training events on gender mainstreaming were held for the project team before the launch. This led to the application of specific tools, including gender-inclusive social mapping and a participatory gender analysis that included targeted interviews with women, support bodies for women, agricultural producers, and community leaders. These were used to design gender-responsive activities as well as to inform the design of a monitoring system and indicators that use gender-disaggregated data to monitor and evaluate inclusiveness and socio-economic empowerment of women. 189

Integrating gender in the monitoring and evaluation system has helped to ensure that progress tracking and reporting

capture gender-specific information (for example, the identification of female-headed households among the participants). Continued monitoring has led to a review of all project activities to further identify gender-blind activities and make adjustments so they are more transformative. For example, the review highlighted gender differences in information needs and preferred forms of communication, with women indicating that they preferred radio. This resulted in new approaches such as forming alliances with local radio stations to disseminate action messages directly to a female audience. Further, applying the gender mainstreaming tool has also helped the team to develop guiding questions to generate specific information regarding gender-related activities and to make them more visible in the progress reports. 190

Monitoring processes also looked at women's participation in local governance structures, including the newly established Watershed Councils. The first elections resulted in 20% of the directors on the councils being women. This was attributed to the training and capacity building offered to women with leadership potential, as well as established partnerships with women's associations and other local organisations throughout the project.

> Impacts and Lessons Learned

Applying a gender analysis at the beginning has helped to inform all phases of the project, including the design of the monitoring and evaluation framework. It helped the project team to identify and design targeted gender-responsive activities as well as recognise activities that did not yet clearly show the differences and needs of women and men regarding their participation in the project. For example, knowing the type of material that women favour for training purposes allows the team to design more effective and inclusive workshops.

Mainstreaming a gender lens into all project activities has led to greater receptiveness, sensitivity, and knowledge in the project team and subsequently resulted in greater female project participation. This was verified through an increase in female-headed households' participation and an increase in the number of female beneficiaries registered in the baseline study from 75 to 272 women. About 272 women are actively participating in the climate-smart agricultural activities promoted by this project in different areas.

In addition, identifying and collecting disaggregated data for the monitoring, reporting and evaluation process of the project helped the project team better understand who is benefiting from EbA actions, as well as to ensure that gender-responsive activities deliver the intended benefits. It also enables tracking of gender-differentiated outcomes, with respect to representation, reduced vulnerability, and improved food security.¹⁹¹

→ 5. Taking it Forward:
 Recommendations for Gender Responsive EbA

Building on the lessons learned from the case examples, the following are recommendations for EbA practitioners and funders to take gender-responsive approaches going forward:

- Build capacity for gender analysis within the

 EbA community:

 As noted, gender analysis—in
 an intersectional approach—is the foundation for
 gender-responsive planning. It's also fundamental
 for tracking differential impacts of EbA initiatives on
 people of different genders and social groups. Efforts
 are needed to help practitioners understand why this
 is essential for effectiveness and sustainability of EbA
 actions, as well as to enhance capacities to undertake
 gender analysis, using the range of tools that are
 already available to support this (see Annex 1 for some
 examples).
- Engage gender experts in EbA planning, implementation, and monitoring and evaluation: Though some basic knowledge and skills are needed to guide gender-responsive approaches, not all EbA practitioners need to become gender experts. Actors at all levels who are involved in the planning, implementation, and monitoring and evaluation of EbA should collaborate with gender experts, who may be working in governments, NGOs, or academic institutions. These experts can support the application of a gender lens in all stages of EbA initiatives and should have formal roles in project teams and coordination mechanisms.
- → Create opportunities for women to take on leadership roles: To overcome issues of underrepresentation in natural resource governance and other relevant decision-making processes, a concerted effort is needed to create opportunities for women to meaningfully participate. This may involve targeted capacity development to take on leadership roles, influencing how, when, and where processes are organised to make it easier for women to be involved, and/or addressing other barriers such as childcare.

→ Allocate resources for participatory processes:

Meaningful stakeholder engagement is at the core of a gender-responsive approach. For this to be effective, EbA initiatives must allocate both time and resources for this engagement to occur. Investments in developing methodologies, tailoring communication approaches to meet the needs of different groups, and building gender-responsive facilitation skills may also be needed to support EbA actors to engage underrepresented voices in the process.

- → Invest in building the evidence base on EbA and gender equality: More evidence is needed to demonstrate the value of gender-responsive approaches to EbA, to show that the outcomes are better than if gender inequality and social exclusion are not considered. Documentation and sharing of gender analyses, as well as the results of gender-responsive monitoring, evaluation, and learning processes, are essential to expand the evidence base and ensure that lessons are incorporated in approaches over time.
- Engage with local governance systems to advocate for equitable representation: EbA initiatives should be embedded in local governance systems to ensure their sustainability over time. This engagement with local authorities and decision-making mechanisms also presents an opportunity to advocate for equitable representation of women and marginalised groups. Increasing underrepresented voices in governance systems is one way to drive systemic change, toward more equitable distribution of benefits derived from ecosystem services over the longer term.



ANNEX 1: KEY RESOURCES ON GENDER AND CLIMATE CHANGE ADAPTATION

The following resources provide guidance on integrating gender considerations in climate change adaptation:

Building Resilience with Nature and Gender in the Eastern
Caribbean: A Toolkit to Mainstream Ecosystem-Based
Adaptation, Gender Equality & Social Inclusion

This toolkit was developed by the Organisation of Eastern Caribbean States. It provides an overview of EbA and gender equality and social inclusion issues, along with guidance on mainstreaming EbA and gender in resilience building.

Climate Vulnerability and Capacity Analysis (CVCA) Handbook:
Informing Community-Based Adaptation, Resilience and
Gender Equality

With a focus on gender equality, ecosystems, and inclusive governance, this handbook from CARE International provides guidance for participatory analysis of vulnerability to climate change and adaptive capacity at the community level.

Mainstreaming Gender in Green Climate Fund Projects

This manual is designed to guide mainstreaming of gender in projects funded by the Green Climate Fund (GCF), including gender analysis and the development of a gender action plan. It was developed by the GCF and UN Women.

From Guiding Principles to Action: Integrating a Gender-Responsive and Social Inclusive Approach Into Shared Resources, Joint Solutions (SRJS) Strategies and Results Developed by IUCN for its SRJS initiative, this document provides guidance on context analysis and design of activities and indicators with a gender-responsive and socially inclusive approach. Though not focused on climate change adaptation, the process could inform EbA initiatives.

Toolkit for a Gender-Responsive Process to Formulate and Implement NAPs

This toolkit was developed by the NAP Global Network in collaboration with the Adaptation Committee and the Least Developed Countries Expert Group under the UNFCCC as a supplement to the UNFCCC Technical Guidelines for the NAP process. It provides guidance on integrating gender considerations throughout all the steps and enabling activities of the NAP process.

Gender-Transformative Climate Change Adaptation:
Advancing Social Equality

This report was developed as background for the Global Commission on Adaptation. It provides an overview of gender and adaptation considerations for key systems and includes recommendations for adaptation action that is gender transformative.

ANNEX 2: KEY RESOURCES ON EBA

The following resources provide detailed conceptual overviews and helpful guidance on EbA in practice:

Making Ecosystem-Based Adaptation Effective: A Framework for Defining Qualification Criteria and Quality Standards
This guidance note developed by Friends of Ecosystem-based Adaptation sets out key elements, principles, criteria, and indicators for defining EbA and for strengthening its integration into policy frameworks and implementation measures at different levels.

Adaptation, Livelihoods and Ecosystems (ALivE) Planning Tool
ALivE is a computer-based EbA planning tool that can
be used to understand and analyse the linkages among

be used to understand and analyse the linkages among ecosystems, livelihoods, and climate change and plan effective EbA solutions. It was developed by UNEP, the ANNEX → TABLE OF CONTENTS

Global Environment Facility, IISD, IUCN and UNEP's International Ecosystem Management Partnership (UNEP-IEMP).

EbA Tools Navigator

The EbA Tools Navigator, developed by the International Institute for Environment and Development (IIED), UNEP-WCMC, IUCN, and GIZ, is a searchable database designed to help users find the best tools and methods to incorporate EbA in adaptation planning.

Emerging Lessons for Mainstreaming

Ecosystem-based Adaptation

This study highlights success factors and entry points for mainstreaming EbA based on 16 practical case studies from Mexico, Peru, South Africa, the Philippines, and Viet Nam.

Ecosystem-Based Adaptation: A Handbook for EbA in Mountain, Dryland and Coastal Ecosystems

This handbook, developed by IIED, provides practical guidance for planning and implementing community-led EbA in three vulnerable ecosystems: mountains, drylands, and coastal areas.

Climate Risk Assessment for Ecosystem-based Adaptation

This guidebook, developed by GIZ, provides guidance on how to systematically consider ecosystem-based solutions in the context of climate risk assessments.

Voluntary Guidelines for the Design and Effective

Implementation of Ecosystem-Based Approaches
to Climate Change Adaptation and Disaster Risk Reduction
and Supplementary Information

These guidelines offer concise information for policy-makers on why integrating ecosystem-based approaches into policy frameworks matters. They provide practical steps for planners and practitioners to design and implement effective strategies for EbA and DRR.

Governance for Ecosystem-Based Adaptation: Understanding the Diversity of Actors & Quality of Arrangements

This study by GIZ explores governance in EbA, providing a conceptual overview and discussing different types of governance, as well as barriers and opportunities.

Valuing the Benefits, Costs and Impacts of EbA Measures

This sourcebook assists adaptation planners in building awareness, knowledge, and capacity for valuing the costs, benefits and impacts of EbA measures in comparison (and combination) with grey measures. It combines information on valuation theory and methods with 40 real-world examples, as well as practical steps for commissioning, designing, and implementing EbA valuation studies.

Guidebook for Monitoring and Evaluating EbA Interventions

This is a practical guide for planners and practitioners to better understand the outcomes and impacts of on-the-ground EbA projects, working with and enhancing nature to reduce the negative impacts of climate change on people.

ENDNOTES

- 1 De Lamo et al. 2020.
- 2 Kapos et al. 2019: Warren et al., 2018.
- 3 Convention on Biological Diversity, 2014; Reid, 2016; UNEP & IISD, 2018.
- 4 Abram et al., 2019; Castañeda Camey et al., 2020; UN Women, 2018a; Vincent et al., 2014.
- 5 CBD, 2019b.
- 6 Friends of Ecosystem-Based Adaptation, 2018; UNEP & IISD, 2018.
- 7 Canadian Institutes of Health Research, 2020, n.p.
- 8 Equality for Her, n.d.
- 9 Canadian Institutes of Health Research, 2020.
- 10 Government of Canada, 2017; UN Women Training Centre, 2017.
- 11 WHO Regional Office for Europe, 2021; UN Women Training Centre, 2017.
- 12 McGill University, 2021, n.p.
- 13 Franks et al., 2018.
- 14 McGill University, 2021; NAP Global Network & United Nations Framework Convention on Climate Change (UNFCCC), 2019.
- 15 Government of Canada, 2017.
- 16 Merriam-Webster, 2021
- 17 CARE & International Center for Research on Women, 2007; NAP Global Network & UNFCCC, 2019; WHO, 2009.
- 18 NAP Global Network & UNFCCC, 2019; United Nations Children's Fund (UNICEF), 2017.
- 19 Ontario Human Rights Commission, n.d.; NAP Global Network & UNFCCC, 2019.
- 20 NAP Global Network & UNFCCC, 2019.
- 21 Mirzabaev et al., 2019; Roy et al., 2018; UNFCCC. 2015: Vincent et al., 2014.
- 22 NAP Global Network & UNFCCC, 2019; Masson-Delmotte et al., 2018; Vincent et al., 2014.
- 23 CBD, 2009.
- 24 CBD, n.d.b; International Union for the Conservation of Nature (IUCN), 2020; UN Women, 2018a.
- 25 WHO & UNICEF, 2017.
- 26 FAO, 2016a.
- 27 Sunderland et al., 2014.
- 28 Martín-López et al., 2012.
- 29 Fortnam et al., 2019.
- 30 Fortnam et al., 2019.
- 31 Hurlbert et al., 2019; Sunderland, 2014; Vincent et al., 2014.
- 32 Castañeda Camey et al., 2020; Mbow et al., 2020.
- 33 Arneth et al., 2019; Castañeda Camey et al., 2020; UNEP & IUCN, 2018.
- Castañeda Camey et al., 2020; Olsson, et al.,2019; World Bank Group, 2018.
- 35 Castañeda Camey et al., 2020; IUCN, 2020.

- Castañeda Camey et al., 2020; Fortnam et al., 2019; UNEP et al., 2013.
- 37 Fortnam et al., 2019.
- 38 Fortnam et al., 2019.
- Castañeda Camey et al., 2020; Fortnam et al., 2019.
- 40 Fortnam et al., 2019.
- 41 Castañeda Camey et al., 2020.
- 42 ILICN 2020a
- 43 Fortnam et al., 2019; IUCN, 2020b.
- 44 Muhammed et al., n.d.
- 45 Aipira et al., 2017, as cited in Mbow et al., 2019.
- 46 IUCN, 2020b; UNEP & IUCN, 2018.
- 47 Prebble et al., 2015; UNEP & IUCN, 2018.
- 48 UNEP & IUCN, 2018.
- 49 Prebble et al., 2015.
- 50 CBD, 2014; UNFCCC, 2019.
- 51 IUCN, 2020b; Mirzabaev et al., 2019; Mbow et al., 2019.
- 52 Onzere et al., 2020.
- 53 Khandkher et al., 2020.
- 54 Cook et al., 2019; IUCN, 2020b.
- 55 Fauconnier et al., 2018.
- 56 Lamers et al., 2017.
- 57 FAO, 2020; Huyer, 2016; UN Women, 2019.
- 58 Fortnam et al., 2019.
- 59 Field et al., 2014.
- 60 Arneth et al., 2019; Mirzabaev et al., 2019.
- 61 Siles et al., 2019.
- 62 Grant, 2017; Gross et al., 2000.
- 63 Amend, 2019; Dazé & Dekens, 2017; Global Gender and Climate Alliance, 2016; Hurlbert et al., 2019; Huyer, 2016; Smith et al., 2019; UNFCCC, 2016; Vincent et al., 2014.
- 64 Mbow et al., 2019.
- 65 Castañeda Camey et al., 2020.
- 66 United Nations, 2015
- 67 UNFCCC, 2015.
- 68 UNFCCC, 2019.
- 69 United Nations, 1992.
- 70 CBD, 2010.
- 71 CBD, 2014b.
- 72 CBD, 2019a.
- 73 CBD, 2021.
- 74 Hammill et al., 2020; UNFCCC, 2015.
- 75 UNFCCC, 2010.
- 76 NAP Global Network & UNFCCC, 2019.
- 77 United Nations, 1992
- 78 CBD, 2008.
- 79 Sasvari et al., 2010.
- 80 Dazé, 2020.
- 81 CBD, 2018.

- 82 Dazé et al., 2016.
- 83 UNEP & IISD, 2018.
- 84 CBD, 2009.
- 85 NAP Global Network & UNFCCC, 2019.
- 86 SIDA, 2015; UN Women Training Centre, 2017.
- 87 Lacoste-Bédard et al., 2016.
- 88 UNESCO, 2021.
- 89 Center for International Forestry Research [CIFOR], 2019; Lacoste-Bédard et al., 2016.
- 90 Lacoste-Bédard et al., 2016; United States Agency for International Development (USAID), 2012.
- 91 World Bank Group, 2021d.
- 92 USAID, 2017.
- 93 Lacoste-Bédard et al., 2016; Women and Gender Constituency (WGC), n.d.
- 94 CIFOR, 2019.
- 95 CIFOR, 2019.
- 96 Lacoste-Bédard et al. 2016
- 97 Lacoste-Bédard et al., 2016.
- 98 UN Women, n.d.f.
- 99 UN Women, n.d.f.
- 100 Central Intelligence Agency [CIA], 2021c.
- 101 CIA, 2021c.
- 102 Enda Graf Senegal, n.d.; Lacoste-Bédard et al.,
- 103 Enda Graf Senegal, n.d.; USAID & University of Rhode Island, 2018.
- 104 WGC n.d
- 105 Women Engage for a Common Future (WECF), 2020
- 106 WGC, n.d.
- 107 WGC, n.d.
- 108 Enda Graf Senegal, n.d.
- 109 Enda Graf Senegal, n.d.
- 110 F. Ndoye, personal communication, April 19, 2021.
- 111 Women and Gender Constituency, n.d.
- 112 F. Ndoye, personal communication, April 19,
- 113 F. Ndoye, personal communication, April 19,
- 114 F. Ndoye, personal communication, April 19, 2021.
- 115 WECF, 2020.
- 116 CBD, n.d.a.
- 117 World Bank Group, 2021b.
- 118 African Development Bank Group, 2018.
- 119 Ministère de l'Environnement et du Développement Durable de la République Islamique de Mauritanie. 2014.
- 120 CBD, n.d.a.
- 121 CIA, 2021a.

- 122 Association pour le Développement et de la Promotion des Droits Humains (ADPDH), 2016.
- 123 ADPDH, n.d.
- 124 H. Sibibé, personal communication, April 17, 2021.
- 125 H. Sibibé, personal communication, April 17, 2021.
- 126 CIA, 2021a.
- 127 UN Women, 2016.
- 128 H. Sibibé, personal communication, April 17, 2021.
- 129 Global Environment Facility Small Grants Programme, 2012.
- 130 H. Sibibé, personal communication, April 17, 2021
- 131 H. Sibibé, personal communication, April 17, 2021.
- 132 Cedano, 2019.
- 133 Avila 2020
- 134 GIZ, n.d.
- 135 UN Women, n.d.b.
- 136 GIZ, n.d.
- 137 GIZ, n.d.
- 138 Daniela Cruz Amaluisa, personal communication, April 5, 2021.
- 139 Daniela Cruz Amaluisa, personal communication, April 5, 2021.
- 140 Daniela Cruz Amaluisa, personal communication, April 5, 2021.
- 141 Daniela Cruz Amaluisa, personal communication, April 5, 2021; GIZ, n.d.
- 142 World Bank Group, 2021c.
- 143 World Wildlife Fund [WWF] Nepal, 2017.
- 144 WWF Nepal, 2015.
- 145 WWF Nepal, 2020.
- 146 WWF Nepal, 2017.
- 147 WWF Nepal, 2017.
- 148 WWF Nepal, 2017.
- 149 UN Women, n.d.e.
- 150 United Nations Population Fund Nepal, 2016.
- 151 UN Women Nepal, 2017.
- 152 Sunuwar, 2020.
- 153 WWF Nepal, 2017.
- 154 WWF Nepal, 2017.
- 155 WWF Nepal, 2020.
- 156 WWF Nepal, 2017.
- 157 WWF Nepal, 2017.
- 158 WWF Nepal, 2017.
- 159 CARE Nepal, 2016.
- 160 Manorama Sunuwar, personal communication, April 6, 2021.
- 161 WWF, 2016.
- 162 Manorama Sunuwar, personal communication, April 6, 2021..

- 163 Bartlett, 2018.
- 164 GIZ, 2016.
- 165 Government of Vanuatu, 2018.
- 166 United Nations Conference on Trade and Development, 2014.
- 167 UN Women, n.d.c.
- 168 Secretariat of the Pacific Regional Environment Programme, 2017.
- 169 Bartlett, 2018.
- 170 Bartlett, 2018.
- 171 Bartlett, 2018.
- 172 Bartlett, 2018.
- 173 Bartlett, 2018.
- 174 Bartlett, 2018.
- 175 Bartlett, 2018.
- 176 Bartlett, 2018.
- 177 Bartlett, 2018.
- 178 USAID, 2017.
- 179 FAO, 2016b.
- 180 UNDP. 2020.
- 181 United Nations Human Rights. (2018).
- 182 United Nations Human Rights. (2018).
- 183 The project is part of the Euroclima+ Programme.
- 184 EU, n.d.
- 185 Netherlands Development Cooperation Service (SNV), 2021.
- 186 SNV, 2021.
- 187 SNV, 2021.
- 188 EU, 2020.
- 189 EU, 2020.
- 190 Douglas Benavidez, personal communication, May 16, 2021.
- 191 EU, 2020.

REFERENCES

Abram, N., Gattuso, J.-P., Prakash, A., Cheng, L., Chidichimo, M. P., Crate, S., Enomoto, H., Garschagen, M., Gruber, N., Harper, S., Holland, E., Kudela, R.M., Rice, J., Steffen, K., and von Schuckmann, K. (2019). Chapter 1: Framing and context of the report. In H.-O. Pörtner, D.C. Roberts, V. Masson-Delmotte, P. Zhai, M. Tignor, E. Poloczanska, K. Mintenbeck, M. Nicolai, A. Okem, J. Petzold, B. Rama, N. Weyer (Eds.), *IPCC Special report on the ocean and cryosphere in a changing climate*. www.ipcc.ch/srocc/chapter/chapter-1-framing-and-context-of-the-report/

African Development Bank Group. (2018). *Mauritania: National climate change profile*. www.afdb.org/en/documents/mauritania-national-climate-change-profile

Aipira, C., Kidd, A. and Morioka, K. (2017). Climate change adaptation in pacific countries: Fostering resilience through gender equality. In W. Leal Filho (Ed.), *Climate change adaptation in Pacific countries. Climate change management.*Springer International Publishing, pp. 225–239.

Amend, T. (2019). Governance for ecosystem-based adaptation: Understanding the diversity of actors & quality of arrangements. Deutsche Gesellschaft International Zusammenarbeit. www.adaptationcommunity.net/wp-content/uploads/2019/09/giz2019-en-eba-governance-study-low-res.pdf

Arneth, A., Shin, Y.J., Leadley, P., Rondinini, C., Bukvareva, E., Kolb, M., Midgley, G.F., Oberdorff, T., Palomo, I., & Saito, O. (2020). **Post-2020 biodiversity targets need to embrace climate change**. *Proceedings of the National Academy of Sciences*, *117*(49), 30882-30891. https://doi.org/10.1073/pnas.2009584117

Association pour le Développement et de la Promotion des Droits Humains (ADPDH). (n.d.). Projet de Renforcement de la Résilience des Agropasteurs du village de Zreg Ainou face aux changements climatiques.

Avila, M. (2020). Visiting and recognising San Pablo, Ecuador. Urbanet Spotlight on Ecosystems in Cities. www.urbanet.info/community-san-pablo-ecuador/

Bartlett, C. (2018). Coral gardening for climate change adaptation in Vanuatu. Panorama Solutions. Coral Gardening for Climate Change Adaptation in Vanuatu | PANORAMA

Canadian Institutes of Health Research (2020). What is gender? What is sex? https://cihr-irsc.gc.ca/e/48642.html

CARE Nepal. (2016). An assessment on women and deprived communities representation in decision making level. Hariyo Ban Program, December 2016.

Campos Cedeno, A.F., Salas Guillen, P.A., Macias Ramos, J.L., Sinichenko, E.K., & Gritsuk, I.I. (2019). Estimation of the runoff of the hills of the city of Portoviejo-Ecuador to assess the degree of flooding in the region. IOP Conference Series: Materials Science and Engineering. https://iopscience.iop.org/article/10.1088/1757-899X/675/1/012020/pdf

Castañeda Camey, I., Sabater, L., Owren, C. & Boyer, A.E. (2020). *Gender-based violence and environment linkages: The violence of inequality*. J. Wen (Ed.). https://portals.iucn.org/library/files/documents/2020-002-En.pdf

Center for International Forestry Research (CIFOR). (2018). Regaining their lost paradise: Communities rehabilitating mangrove forests in the drought-affected Saloum Delta, Senegal. https://www.cifor.org/publications/pdf_files/brief/GLFNairobi-Story9.pdf

Central Intelligence Agency (CIA). (2021a). *The world factbook: Mauritania*. www.cia.gov/the-world-factbook/countries/mauritania/

Central Intelligence Agency. (2021b). The world factbook: Nepal. www.cia.gov/the-world-factbook/countries/nepal/#people-and-society

Central Intelligence Agency. (2021c). The world factbook: Senegal. www.cia.gov/the-world-factbook/countries/senegal/#people-and-society

Cooperative for Assistance and Relief Everywhere (CARE) & International Center for Research on Women. (2007). *Inner spaces outer faces initiative: Tools for learning and action on gender and sexuality*. www.care.org/sites/default/files/documents/MH-2008-ISOFI-Toolkit_2008.pdf

Castañeda Camey, I., Sabater, L., Owren, C. & Boyer, A.E. (2020). Gender-based violence and environment linkages: The violence of inequality. J. Wen (Ed.). International Union for Conservation of Nature. https://portals.iucn.org/library/sites/library/files/documents/2020-002-En.pdf

Convention on Biological Diversity (CBD). (n.d.a). *Mauritania* – *Main details*. www.cbd.int/countries/profile/?country=mr

Convention on Biological Diversity (n.d.b). What is gender and biodiversity? www.cbd.int/gender/biodiversity/

REFERENCES → TABLE OF CONTENTS

Convention on Biological Diversity. (2008). *Decision*Adopted by the Conferences of the Parties to the Convention on Biological Diversity at its Ninth Meeting: IX/8. Review of implementation of goals 2 and 2 of the strategic plan (UNEP/CBD/COP/DEC/IX/8). 9 October 2008. www.cbd.int/doc/decisions/cop-09/cop-09-dec-08-en.pdf

Convention on Biological Diversity. (2009). Connecting biodiversity and climate change mitigation and adaptation: Report of the Second Ad Hoc Technical Expert Group on Biodiversity and Climate Change (Technical Series No. 41). Secretariat of the CBD. www.cbd.int/doc/publications/cbd-ts-41-en.pdf

Convention on Biological Diversity. (2010). Decision Adopted by the Conferences of the Parties to the Convention on Biological Diversity at its Tenth Meeting: X/2. The Strategic Plan for Biodiversity 2011-2020 and the Aichi Biodiversity Targets (UNEP/CBD/COP/DEC/X/2). 29 October 2010. www.cbd.int/doc/decisions/cop-10/cop-10-dec-02-en.pdf

Convention on Biological Diversity. (2014). *Decision*Adopted by the Conference of the Parties to the Convention
on Biological Diversity: XII/7. Mainstreaming gender considerations (UNEP/CBD/COP/DEC/XII/7). 17 October 2014.
www.cbd.int/doc/decisions/cop-12/cop-12-dec-07-en.pdf

Convention on Biological Diversity. (2018). *Progress in the implementation of the 2015-2020 Gender Plan of Action:*Note by the executive secretary (CBD/DBI/2/2/Add.3).
www.cbd.int/doc/c/fcc3/ac3d/eba5d8364fbe8d5950fef9bf/sbi-02-02-add3-en.pdf

Convention on Biological Diversity. (2019a). Towards a gender-responsive post-2020 global biodiversity framework: Considerations for gender mainstreaming. Note by the Executive Secretary (CBD/WG2020/1/INF/1). www.cbd.int/doc/c/8386/a64b/e06e2ffa458062ca33875216/wg2020-01-inf-01-en.pdf

Convention on Biological Diversity. (2019b). Voluntary guidelines for the design and effective implementation of EbA to climate change adaptation and disaster risk reduction and supplementary information.

Convention on Biological Diversity (2021). Draft outline of a post-2020 gender plan of action (CBD/SBI/3.4/Add.2). $\underline{ www.cbd.int/doc/c/1037/0c47/974ee71c8778acceb3813a95/sbi-03-04-add2-en.pdf}$

Cook, N.J., Grillos, T. & Andersson, K.P. (2019). Gender quotas increase the equality and effectiveness of climate policy interventions. *Nature Climate Change*, 9, 330–334. https://doi.org/10.1038/s41558-019-0438-4

Dazé, A. (2020). Advancing gender-responsive climate action through national adaptation plan (NAP) processes (NAP Global Network synthesis report 2019–2020). International Institute for Sustainable Development. http://napglobalnetwork.org/resource/gender-responsive-nap-processes-synthesisreport-2019-2020

Dazé, A. & Dekens, J. (2017). A framework for gender-responsive national adaptation plan (NAP) processes (NAP Global Network Briefing Note). International Institute for Sustainable Development. http://napglobalnetwork.org/wp-content/uploads/2017/07/napgn-en-2017-a-framework-for-gender-responsive-nap-processes.pdf

Dazé, A., Price-Kelly, H., & Rass, N. (2016). Vertical integration in National Adaptation Plan (NAP) processes: A guidance note for linking national and sub-national adaptation.

International Institute for Sustainable Development. http://napglobalnetwork.org/wp-content/uploads/2016/11/napgn-en-2016-vertical-integration-in-national-adaptation-plan-processes-a-guidance-note-for-linking-national-and-sub-national-national-adaptation.pdf

De Lamo, X., Jung, M., Visconti, P., Schmidt-Traub, G., Miles, L., & Kapos, V. (2020). Strengthening synergies: how action to achieve post-2020 global biodiversity conservation targets can contribute to mitigating climate change. UNEP World Conservation Monitoring Centre. www.unep-wcmc.org/system/comfy/cms/files/files/000/001/823/original/Strengthening_Synergies.pdf

Deutsche Gesellschaft International Zusammenarbeit (GIZ). (n.d.). Guardians of the hills: Empowering women leaders for urban resilience. Gender and Development. https://gender-and-development.de/en/good-practices/good-practice/guardians-of-the-hills-empowering-women-leaders-for-urban-resilience

Deutsche Gesellschaft International Zusammenarbeit. (2016). Coping with climate change in the Pacific Island Region (CCCPIR). Annual report. Vanuatu Programme.

Enda Graf Sahel (n.d.). Égalité et équité, une pêche aveugle au genre! Plaidoyer pour la défense des métier des femmes dans le secteur de la pêche au Sénégal.

Equality for Her. (n.d.). *Gender diversity*. https://equalityforher.com/resources/gender-diversity/

European Union. (n.d.). Climate-smart agriculture for resilient food production (CSA-RFP). http://euroclimaplus.org/en/projects-foods/climate-smart-agriculture-for-resilient-food-production-csa-rfp

European Union. (2020). The triple vulnerability of women. http://euroclimaplus.org/en/news-events-en/articles-and-interviews-food/999-the-triple-vulnerability-of-women

Fauconnier, I., Jenniskens, A., Perry, P., Fanaian, S., Sen, S., Sinha, V., Witmer, L. (2018). Women as change-makers in the governance of shared waters. International Union for the Conservation of Nature. https://portals.iucn.org/library/sites/library/files/documents/2018-036-En.pdf

Field, C.B., Barros, V. R., Mach, K. J., Mastrandrea, M. D., van Aalst, M. Adger, W. N., ... Yohe, G.W. (2014). Technical summary. In C.B. Field et al. (Eds.), Climate change 2014: Impacts, adaptation, and vulnerability. Part A: Global and sectoral aspects. Contribution of Working Group II to the Fifth Assessment Report of the Intergovernmental Panel on Climate Change (pp. 35–94). Cambridge University Press. www.ipcc.ch/site/assets/uploads/2018/02/WGIIAR5-TS_FINAL.pdf

Food and Agriculture Organization of the United Nations (FAO). (2016a). State of the world fisheries and aquaculture 2016: Contributing to food security and nutrition for all. www.fao.org/3/a-i5555e.pdf

Food and Agriculture Organization of the United Nations. (2016b). Strengthening resilience in the Dry Corridor in Honduras. www.fao.org/emergencies/resources/photos/photo-detail/en/c/409630/

Food and Agriculture Organization of the United Nations. (2020). FAO policy on gender equality: 2020-2030. www.fao.org/3/cb1583en/cb1583en.pdf

Fortnam, M., Brown, K., Chaigneau, T., Crona, B., Daw, T.M., Goncalves, D., Hicks, C., Revmatas, M., Sandbrook, C., & Schule-Herbruggen, B. (2019). The gendered nature of ecosystem services. *Ecological Economics* 159 (2019), 312–325. https://doi.org/10.1016/j.ecolecon.2018.12.018

Franks, P., Booker, F., and Roe, D. (2018). *Understanding and assessing equity in protected area conservation*. International Institute for Environment and Development. https://pubs.iied.org/sites/default/files/pdfs/migrate/14671IIED.pdf

Franks, P. & Small, R. (2016). *Understanding the social impacts of protected areas: A community perspective*. International Institute for Environment and Development. https://pubs.iied.org/sites/default/files/pdfs/migrate/14661IIED.pdf

Friends of Ecosystem-Based Adaptation (2018).

Making ecosystem-based adaptation effective: A framework for defining qualification criteria and quality standards. www.iucn.org/sites/dev/files/feba_eba_qualification_and_quality_criteria_final_en.pdf

Global Environment Facility Small Grants Programme. (2012). Projet de Renforcement de la Résilience des Agropasteurs du village de Zreg Ainou face aux changements climatiques. https://sgp.undp.org/spacial-itemid-project-search-results/spacial-itemid-project-detail&id=24914

Global Gender and Climate Alliance. (2016, November).

Gender and climate change: A closer look at existing evidence.

https://wedo.org/wp-content/uploads/2016/11/GGCA-RP-FINAL.pdf

Government of Canada. (2017). *Policy on Gender Equality*. www.international.gc.ca/world-monde/funding-financement/policy-politique.aspx?lang=eng

Government of the Republic of Vanuatu. (2018). Vanuatu climate change and disaster risk reduction policy 2016-2030. https://policy.asiapacificenergy.org/sites/default/files/vanuatu_cc_drr_policy_minus_att4v4.pdf

Grant, M. (2017). Gender equality and inclusion in water resources management. Global Water Partnership Action Piece. www.gwp.org/globalassets/global/about-gwp/publications/gender/gender-action-piece.pdf

REFERENCES
→ TABLE OF CONTENTS

Gross, B., van Wijk, C., & Mukherjee, N. (2000). Linking sustainability with demand, gender and poverty: A study in community-managed water supply projects in 15 countries. Water and Sanitation Program. www.wsp.org/sites/wsp/files/publications/global_plareport.pdf

Hammill, A., Dekens, J. & Dazé, A. (2020). The national adaptation plan (NAP) Process: Frequently asked questions.

NAP Global Network. https://napglobalnetwork.org/wp-content/uploads/2020/08/napgn-en-2020-NAP-Process-FAQs.pdf

Hurlbert, M., Krishnaswamy, J., Davin, E., Johnson, F. X., Mena, C. F., Morton, J., ... Zommers, Z. (2019). Chapter 7: Risk management and decision making in relation to sustainable development. In R. Rodrigues & B. L. Turner II (Eds.), IPCC special report on climate change, desertification, land degradation, sustainable land management, food security, and greenhouse gas fluxes in terrestrial ecosystems. www.ipcc.ch/site/assets/uploads/2019/08/2i.-Chapter-7_FINAL.pdf

Huyer, S. (2016). Closing the gender gap in agriculture. Gender, Technology and Development, 20 (2). doi:10.1177/0971852416643872

International Union for the Conservation of Nature (IUCN). (2020a). Women environmental human rights defenders: Facing gender-based violence in defense of land, natural resources and human rights. https://portals.iucn.org/union/sites/union/files/doc/iucn-srjs-briefs-wehrd-gbv-en.pdf

International Union for the Conservation of Nature. (2020b). Gender and natural resource governance: Addressing inequalities and empowering women for sustainable ecosystem management. https://portals.iucn.org/union/sites/union/files/doc/iucn-srjs-briefs-gender-nrg-en.pdf

Kapos, V., Wicander, S., Salvaterra, T., Dawkins, K., & Hicks, C. (2019). The role of the natural environment in adaptation: Background paper for the Global Commission on Adaptation. Global Commission on Adaptation. https://cdn.gca.org/assets/2019-12/ RoleofNaturalEnvironmentinAdaptation_V2.pdf

Khandkher, V., Gandhi, V.P., & Johnson, N. (2020). Gender perspective in water management: The Involvement of Women in Participatory Water Institutions of Eastern India. *Water* 12(1), 196. https://doi.org/10.3390/w12010196

Lamers, H., Hegde, N., Hermanowicz, E., & Elias, M. (2017). Gender-responsive value chain development and the conservation of native fruit trees through an inclusive learning process: a case study in Western Ghats, India. Bioversity International and LIFE Trust. www.bioversityinternational.org/e-library/publications/detail/gender-responsive-value-chain-development-and-the-conservation-of-native-fruit-trees-through-an-incl/

Martín-López, B., Iniesta-Arandia, I., García-Llorente, M., Palomo, I., Casado-Arzuaga, I., García Del Amo, D. ... C. Montes. (2012). Uncovering ecosystem service bundles through social preferences. *PLoS ONE* 7(6), e38970. https://doi.org/10.1371/journal.pone.0038970

Masson-Delmotte, V., Zhai, P., Pörtner, H.-O., Roberts, D., Skea, J., Shukla, P. R. ... T. Waterfield (Eds.). (2018). Summary for policymakers. In International Panel on Climate Change, Global Warming of 1.5°C. An IPCC Special Report on the impacts of global warming of 1.5°C above pre-industrial levels and related global greenhouse gas emission pathways, in the context of strengthening the global response to the threat of climate change, sustainable development, and efforts to eradicate poverty. Intergovernmental Panel on Climate Change. www.ipcc.ch/sr15/chapter/spm/

Mbow, C., Rosenzweig, C, Barioni, L. G., Benton, T. G., Herrero, M., ... Xu, Y. (2019). Chapter 5: Food security. In N. Benkeblia, A. Challinor, A. Khan, & J. Porter (Eds.), *IPCC special report on climate change, desertification, land degradation, sustainable land management, food security, and greenhouse gas fluxes in terrestrial ecosystems*. www.ipcc.ch/site/assets/uploads/2019/08/2f.-Chapter-5_FINAL.pdf

McGill University (2021). Equity at McGill: Definitions. www.mcgill.ca/equity/resources/definitions

Merriam-Webster. (2021). *Intersectionality*. www.merriam-webster.com/dictionary/intersectionality

Ministère de l'Environnement et du Développement Durable de la République Islamique de Mauritanie. (2014). CBD Fifth National Report – Mauritania (French Version). www.cbd.int/doc/world/mr/mr-nr-05-fr.pdf Mirzabaev, A., Wu, J., Evans, J., Garcia-Oliva, F., Hussein, I. A. G., Iqbal, M. M., ... Weltz, M. (2019). Chapter 3: Desertification. In International Panel on Climate Change, *IPCC special report on climate change, desertification, land degradation, sustainable land management, food security, and greenhouse gas fluxes in terrestrial ecosystems.* www.ipcc.ch/site/assets/uploads/2019/08/2d.-Chapter-3_FINAL.pdf

Muhammed, F.A., Elias, M., Lamers, H., Omard, S., Brooke, P., & Hussin, M.H. (n.d.). Participatory research to elicit gender differentiated knowledge of native fruit trees.

Bioversity International, CGIAR Research Program on Forests, Trees and Agroforestry, and Jabatan Pertanian.

www.bioversityinternational.org/fileadmin/user_upload/
Participatory_Muhammad.pdf

NAP Global Network & United Nations Framework Convention on Climate Change. (2019). *Toolkit for a gender-responsive process to formulate and implement National Adaptation Plans (NAPs)*. Dazé, A., and Church, C. (lead authors). International Institute for Sustainable Development. www.napglobalnetwork.org

Netherlands Development Cooperation Service (SNV).
(2019). Climate-smart agriculture for resilient food production
(CSA-RFP) project starts [Press release]. Press release:

Climate-Smart Agriculture for Resilient Food Production (CSA-RFP) project starts | SNV World

Olsson, L., Barbosa, H., Bhadwal, S., Cowie, A., Delusca, K., Flores-Renteria, D., ... Stringer, L. (2019). Chapter 4: Land degradation. In International Panel on Climate Change, IPCC special report on climate change, desertification, land degradation, sustainable land management, food security, and greenhouse gas fluxes in terrestrial ecosystems. www.ipcc.ch/site/assets/uploads/2019/08/2e.-Chapter-4_FINAL.pdf

Ontario Human Rights Commission (n.d.).

An introduction to the intersectional approach.

www.ohrc.on.ca/en/intersectional-approach-discriminationaddressing-multiple-grounds-human-rights-claims/
introduction-intersectional-approach

Onzere S., Elwell, N., Carr, E., Caron, C. & Bebbington, D. (2020). Who's governing community forests?

Gendered participation in Liberian forest management (World Resources Institute working paper). www.wri.org/publication/genderedparticipation-liberia-forest

Prebble, M., Gilligan, M., & Clabots, B. (2015, October). Women's participation in global environmental decision making: An EGI supplemental report. International Union for the Conservation of Nature. https://portals.iucn.org/union/sites/union/files/doc/egi_datasetdm.pdf

Reid, H. (2016). Ecosystem- and community-based adaptation: learning from community-based natural resource management. *Climate and Development, 8*(1). www.tandfonline.com/doi/full/10.1080/17565529.2015.103

Sasvari, A., Aguilar, L., Khan, M., & Schmitt, F. (2010). Guidelines for mainstreaming gender into national biodiversity strategies and action plans. International Union for the Conservation of Nature. www.cbd.int/doc/publications/cbd-ts-49-en.pdf

Secretariat of the Pacific Regional Environment Programme (SPREP). (2017). Vanuatu ecosystem and socio-economic resilience analysis and mapping ESRAM). www.griffith.edu.au/_data/assets/pdf_file/0023/528080/vanuatu-ecosystem-socio-economic-resilience-analysis-mapping.pdf

Siles, J., Prebble, M., Wen, J., Hart, C., & Schuttenberg, H. (2019). Advancing gender in the environment: Gender in fisheries – A sea of opportunities. International Union for the Conservation of Nature and United States Agency for International Development. https://portals.iucn.org/library/sites/library/files/documents/2019-040-En.pdf

Smith, P., Nkem, J., Calvin, K., Campbell, D., Cherubini, F., Grassi, F., ... Taboada, M. A. (2019). Chapter 6: Interlinkages between desertification, land degradation, food security and GHG fluxes: Synergies, trade-offs and integrated response options. In International Panel on Climate Change, IPCC special report on climate change, desertification, land degradation, sustainable land management, food security, and greenhouse gas fluxes in terrestrial ecosystems. www.ipcc.ch/site/assets/uploads/2019/08/2h.-Chapter-6_FINAL.pdf

Sunderland, T., Achdiawan, R., Angelsen, A., Babigumira, R., Ickowitz, A., Paumgarten, F., Reyes-García, V., & Shively, G. (2014). Challenging perceptions about men, women, and forest product use: A global comparative study. *World Development*, 64 (S1), S56–S66, https://doi.org/10.1016/j.worlddev.2014.03.003

REFERENCES
→ TABLE OF CONTENTS

United Nations (UN). (2015). Transforming our world: The 2030 Agenda for Sustainable Development (UN General Assembly A/RES/70/1). www.un.org/ga/search/view_doc.asp?symbol=A/RES/70/1&Lang=E

United Nations Conference on Trade and Development (UNCTAD). Harnessing Vanuatu's tourism to enable local consumption and exports. National Stakeholder Workshop: Green Export Review Vanuatu. Port Vila, August 27–28, 2014. https://unctad.org/system/files/non-official-document/16_ditcted_010914_unctadTourism.pdf

United Nations Educational, Scientific and Cultural Organization. (2021). World heritage list: Saloum Delta. https://whc.unesco.org/en/list/1359/

United Nations. (1992). Convention on biological diversity. www.cbd.int/doc/legal/cbd-en.pdf

United Nations Children's Fund (UNICEF). (2017, November). Gender equality: Glossary of terms and concepts. UNICEF Regional Office for South Asia. www.unicef.org/rosa/ media/1761/file/Gender%20glossary%20of%20terms%20 and%20concepts%20.pdf

United Nations Development Programme (UNDP). (2020). Gender inequality index (GII). Human Development Reports. http://hdr.undp.org/en/indicators/68606

United Nations Environment Programme & International Union for the Conservation of Nature. (2018). Gender and environment statistics: Unlocking information for action and measuring the SDGs. www.unenvironment.org/resources/report/gender-and-environment-statistics-unlocking-information-action-and-measuring-sdgs

United Nations Environment Programme & International Institute for Sustainable Development. (2018). Adaptation, Livelihoods and Ecosystems Planning Tool: User Manual, Version 1.0. Anika Terton & Angie Dazé (authors). www.iisd.org/system/files/publications/alive-tool-manual-web.pdf

United Nations Framework Convention on Climate Change (UNFCCC). (2010). The Cancun Agreements: Outcome of the work of the Ad Hoc Working Group on Long-term Cooperative Action under the Convention (1/CP.16). https://unfccc.int/sites/default/files/resource/docs/2010/cop16/eng/07a01. pdf?download

United Nations Framework Convention on Climate Change. (2015). *Paris Agreement*. http://unfccc.int/files/essential_background/convention/application/pdf/english_paris_agreement.pdf

United Nations Framework Convention on Climate Change. (2016). Guidelines or other tools for integrating gender considerations into climate change related activities under the convention (FCC/TP/2016/2). https://unfccc.int/resource/docs/2016/tp/02.pdf

United Nations Framework Convention on Climate Change. (2019). *Gender and climate change: Enhanced Lima work programme on gender and its gender action plan* (FCCC/CP/2019/L.3). https://unfccc.int/sites/default/files/resource/cp2019_L03E.pdf

United Nations Human Rights. (2018). Human Rights Council Working Group on the issue of discrimination against women in law and in practice. Office of the High Commissioner. www.ohchr.org/EN/NewsEvents/Pages/DisplayNews.aspx?NewsID=23873&LangID=E

United Nations Population Fund Nepal. (2016). Fact Sheet: Gender-Based Violence in Nepal. https://nepal.unfpa.org/en/publications/fact-sheet-gender-based-violence-nepal

UN Women Training Centre (2017). Gender equality glossary. https://trainingcentre.unwomen.org/mod/glossary/view.php?id=36

UN Women. (n.d.a). Advancing Gender Equality: Promising Practices. Case Studies from the Millennium Development Goals Achievement Fund. Honduras – women finding their way. www.unwomen.org/mdgf/B/Honduras_B.html

UN Women. (n.d.b). Americas and the Caribbean. Ecuador https://lac.unwomen.org/en/donde-estamos/ecuador

UN Women. (n.d.c). Asia and the Pacific. Vanuatu https://asiapacific.unwomen.org/en/countries/fiji/co/vanuatu

UN Women. (n.d.d). Honduras vows to apply parity to political parties and systematically implement the National Gender Plan. Honduras | UN Women – Headquarters

UN Women. (n.d.e). Women count: Nepal. https://data.unwomen.org/country/nepal

UN Women (n.d.f). Women count: Senegal. https://data.unwomen.org/country/senegal

UN Women. (2016). Global database on violence against women: Mauritania. https://evaw-global-database.unwomen. org/en/countries/africa/mauritania#2

UN Women Nepal. (2017). Nepal gender equality and social inclusion (GESI) profile for humanitarian action and disaster risk reduction (Updated August 31, 2017). https://asiapacific.unwomen.org/-/media/field%20office%20eseasia/docs/ publications/2017/09/nepal-gesi-profile.pdf?la=en&vs=5735

UN Women. (2018a). Towards a gender-responsive implementation of the convention on biological diversity. Research Paper, November 2018. <a href="https://www.unwomen.org/-/media/headquarters/attachments/sections/library/publications/2018/towards-a-gender-responsive-implementation-of-the-convention-on-biological-diversity-en.pdf?la=en&vs=4802

UN Women. (2019). The gender gap in agricultural productivity in sub-Saharan Africa: Causes, costs and solutions (Policy Brief No. 11). un-women-policy-brief-11-the-gender-gap-in-agricultural-productivity-in-sub-saharan-africa-en.pdf

United States Agency for International Development (USAID). (2017). Climate change risk profile: Senegal. www.climatelinks.org/sites/default/files/asset/document/2017_USAID%20ATLAS_Climate%20Change%20 Risk%20Profile%20-%20Senegal.pdf

United States Agency for International Development. (2017). Climate change risk profile: Honduras.

Template (climatelinks.org)

United States Agency for International Development & University of Rhode Island. (2018). Empowering women in artisanal processing of fisheries products. USAID/COMFISH PLUS Project. www.crc.uri.edu/download/MF_Empowering-Women-in-Artisanal-Processing-of-Fisheries-Products.pdf

Vincent, K. E., Tschakert, P., Barnett, J., Rivera-Ferre, M. G., & Woodward, A. (2014). Cross-chapter box on gender and climate change. In C. B. Field et al., Climate Change 2014: Impacts, adaptation, and vulnerability. Part A: Global and sectoral aspects. Contribution of Working Group II to the Fifth Assessment Report of the Intergovernmental Panel on Climate Change (pp. 105–107). Cambridge University Press. www.ipcc.ch/site/assets/uploads/2018/02/WGIIAR5-PartA_FINAL.pdf

Warren, R., Price, J., Graham, E., Forstenhaeusler, N., & VanDerWal, J. (2018). The projected effect on insects, vertebrates, and plants of limiting global warming to 1.5°C rather than 2°C. *Science*, *360*(6390). https://science.sciencemag.org/content/360/6390/791

Women and Gender Constituency (n.d.). Strengthening women's ancestral and artisanal fishery to preserve mangrove natural resource in the Saloum Delta. https://www.wecf.org/wp-content/uploads/2019/08/2016-Enda-Graf-Sahel.pdf

Women Engage for a Common Future (WECF). (2020). Gender-just climate solutions: 2020 special edition. www.wecf.org/wp-content/uploads/2021/02/GJCS_English_Final-1.pdf

World Bank. (2013). *Hybrid justice in Vanuatu:*The island courts (Justice & Development

Working Paper Series). http://documents1.
worldbank.org/curated/en/338761468309296867/
pdf/801920NWP0J0D00Box0379802B00PUBLICO.pdf

World Bank Group. (2021a). Climate change knowledge portal: Ecuador. https://climateknowledgeportal.worldbank.org/country/ecuador

World Bank Group. (2021b). Climate change knowledge portal: Mauritania. https://climateknowledgeportal. worldbank.org/country/mauritania/climate-data-projections

World Bank Group. (2021c). Climate change knowledge portal: Nepal. https://climateknowledgeportal.worldbank.org/ country/nepal/climate-data-projections

World Bank Group. (2021d). Climate change knowledge portal: Senegal. https://climateknowledgeportal.worldbank. org/country/senegal/climate-data-projections

REFERENCES
→ TABLE OF CONTENTS

World Bank Group. (2018). *Women, business and the law 2018*. https://openknowledge.worldbank.org/ handle/10986/29498

World Health Organization (WHO). (2009). *Integrating gender into HIV/AIDS programmes in the health sector: Tool to improve responsiveness to women's needs.*www.ncbi.nlm.nih.gov/books/NBK143049/pdf/Bookshelf_NBK143049.pdf

World Health Organization Regional Office for Europe. (2021). *Gender: Definitions*. www.euro.who.int/en/health-topics/health-determinants/gender/gender-definitions

World Health Organization & UNICEF (2017). *Progress on drinking water, sanitation and hygiene: 2017 update and SDG baselines.* https://washdata.org/report/jmp-2017-report-final

WWF Nepal. (2020). Hariyo Ban Program. www.wwfnepal.org/hariyobanprogram/

WWF Nepal. (2017). Biodiversity, people and climate change: Final technical report of the Hariyo Ban Program, First Phase. WWF Nepal, Hariyo Ban Program, Kathmandu, Nepal. https://wwfasia.awsassets.panda.org/downloads/final_technical_report_of_the_hariyo_ban_program_first_phase.pdf

WWF Nepal. (2016). Role of Community Learning and Action Centre (CLAC) in Promoting Women Leadership, Strengthening Governance in Natural Resource Management Groups and Promoting Adaptation to Climate Change, Biodiversity Conservation and Natural Resource Management. S.P. Kattel, A. Khadgi, B. Tamang, & S. Manandhar (authors).

WWF Nepal. (2015). Climate change impacts on the biodiversity of the Terai Arc Landscape and the Chitwan-Annapurna Landscape. WWF Nepal, Hariyo Ban Program, Kathmandu, Nepal. https://wwfasia.awsassets.panda.org/downloads/ccva_final_3.pdf

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