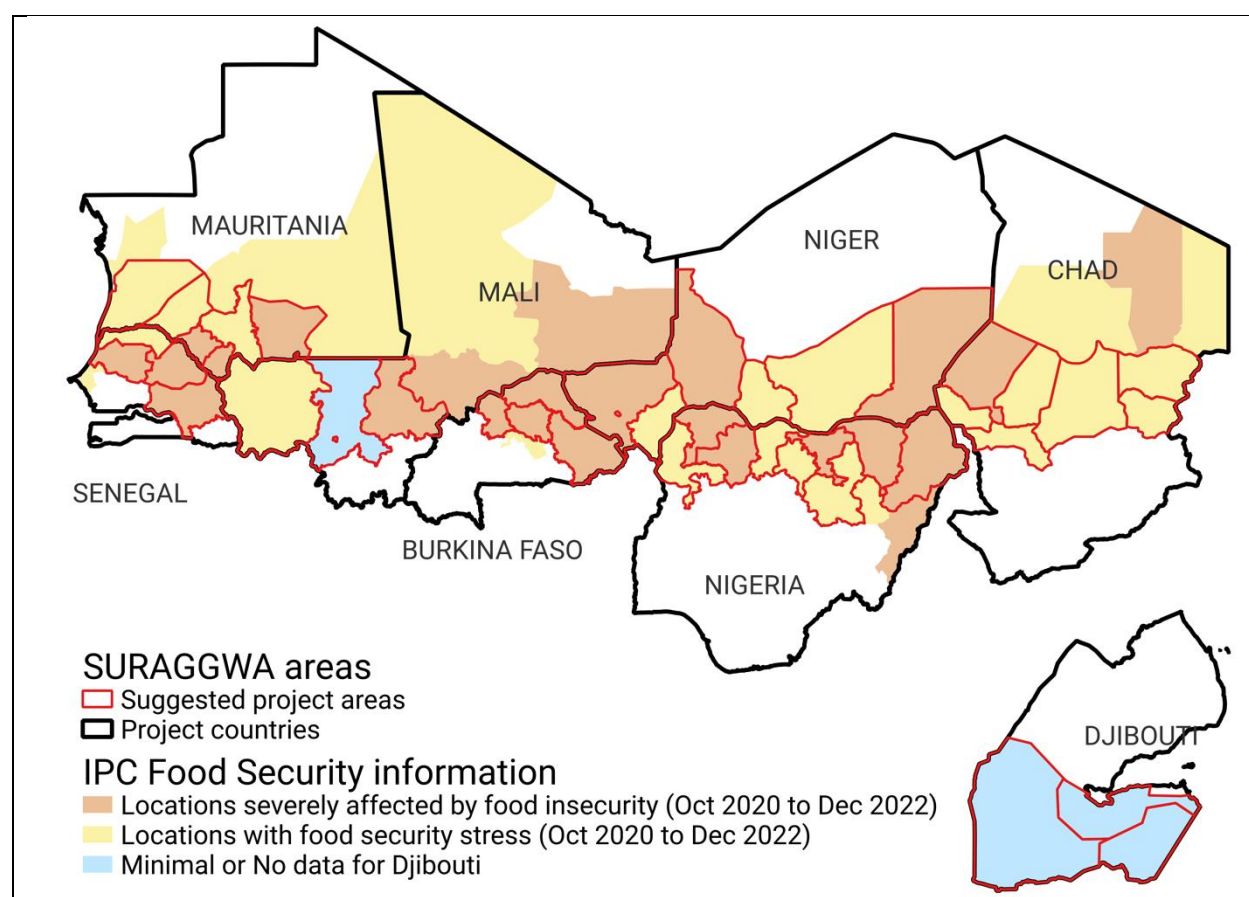


Annex 16: Location of the proposed interventions

In principle, areas outside of the GGW are considered as out-of-scope for the project but can be pertinent in terms of restoration and climate change adaptation. The final selection would depend on baseline survey and security situation in the area at the start of the project, in addition to consensus building with the government and community members in the targeted project areas to ensure that the needs of all relevant land and natural resource users (transhumant pastoralists, sedentary producers, as well as agro-pastoralists) depending on the country and sub-national context, are taken into account in the final selection of lands to be restored.

Annex 2 and IPC data¹ provides information on selecting alternative locations for the project., though for ease of reference this is also included in this Annex to provide a more detailed picture by country of intervention. Furthermore, the location of the proposed interventions will follow the principles of geographic targeting that are outlined as part of the Full Proposal.



¹ <https://www.ipcinfo.org/>

Selected Countries (west to east)	SURAGGWA suggested project areas (alphabetically)	<i>Locations severely affected by food insecurity between Oct 2020 and Dec 2022. Emergency support likely occurred or occurring. And, actions to reduce disaster risk and protect livelihoods would also be pertinent.</i>	<i>Locations with food security stress between Oct 2020 and Dec 2022. Actions to reduce disaster risk and protect livelihoods would be pertinent.</i>
Senegal	Louga. Matam. Saint Louis. Tambacounda.	<i>Louga. Matam. Tambacounda.</i>	<i>Saint Louis. Thiès.</i>
Mauritania	Assaba. Brakna. Gorgol. Guidimagha. Hodh El Gharbi. Trarza.	<i>Gorgol. Guidimagha. Hodh El Gharbi.</i>	<i>Assaba. Brakna. Hodh Charghi. Inchiri. Tagant. Trarza.</i>
Mali	Kayes. Koulikoro. Ségou.	<i>Gao. Mopti. Ségou.</i>	<i>Kayes. Tombouctou.</i>
Burkina Faso	Centre-Nord. Est. Nord. Sahel.	<i>Centre-Nord. Est. Nord. Sahel.</i>	<i>Plateau-Central.</i>
Niger	Diffa. Dosso. Maradi. Tahoua. Tillabéri. Zinder.	<i>Diffa. Tahoua. Tillabéri.</i>	<i>Dosso. Maradi. Zinder.</i>
Nigeria	Bauchi. Borno. Jigawa. Kano. Katsina. Kebbi. Sokoto. Yobe. Zamfara.	<i>Adamawa. Borno. Jigawa. Sokoto. Yobe. Zamfara.</i>	<i>Bauchi. Gombe. Kano. Katsina. Kebbi.</i>
Chad	Barh-El-Gazel. Batha. Borkou. Hadjer-Lamis. Kanem. Lac. Ouaddaï. Wadi Fira.	<i>Ennedi Ouest. Kanem.</i>	<i>Barh-El-Gazel. Batha. Borkou. Ennedi Est. Hadjer-Lamis. Lac. Ouaddaï. Wadi Fira.</i>
Djibouti	Ali Sabieh. Arta. Dikhill.	<i>n/a</i>	<i>n/a</i>

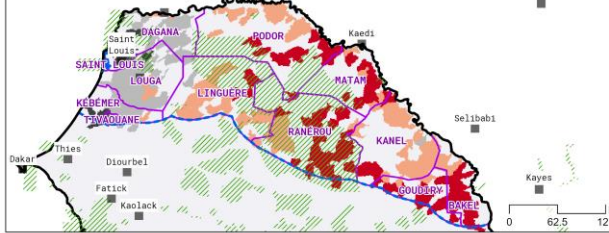
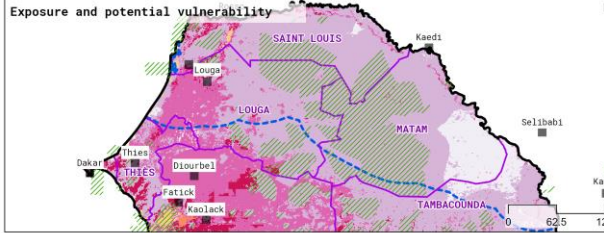
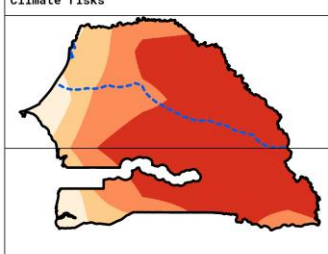
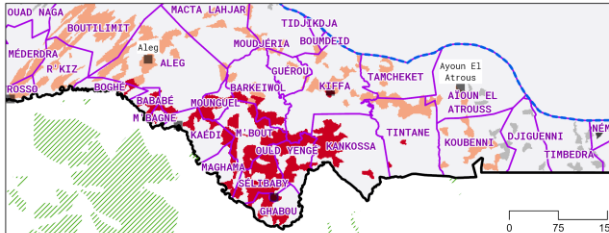
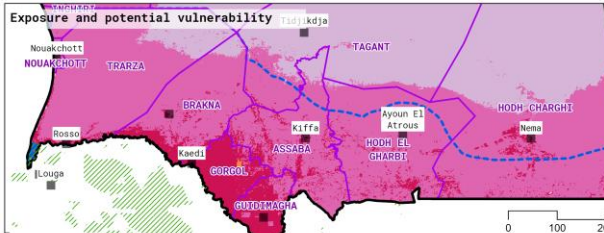
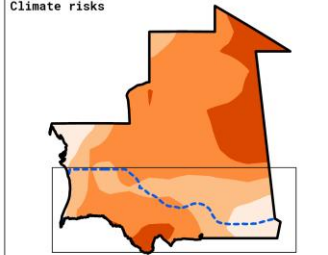
Suggested project locations

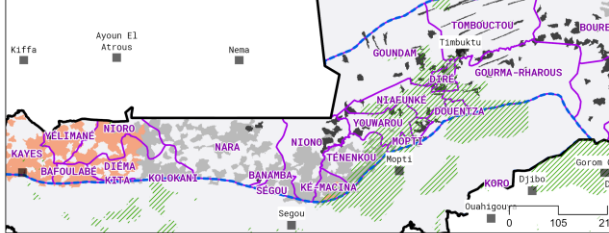
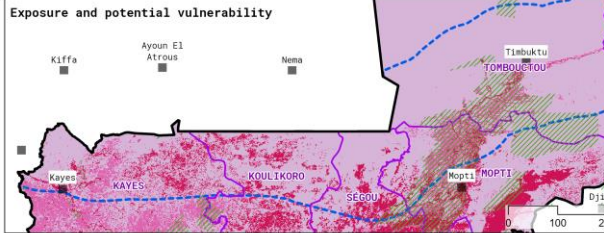
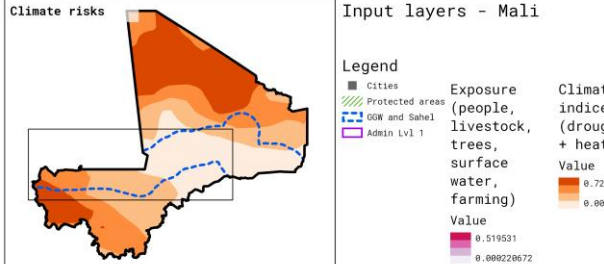
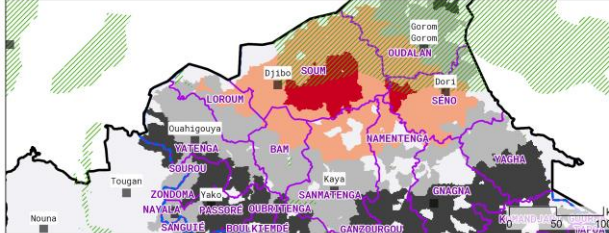
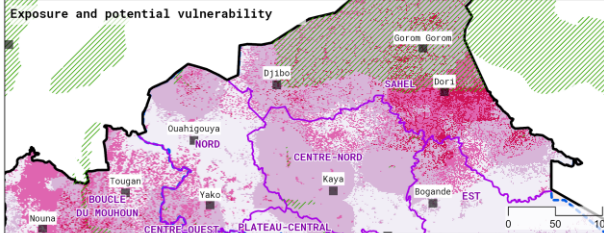
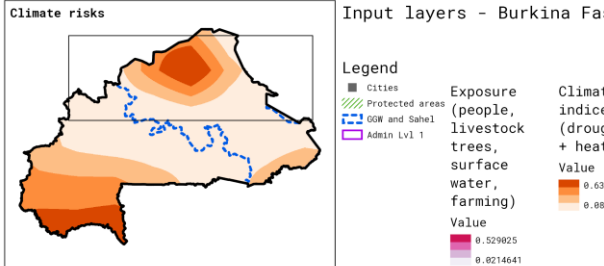
In principle, areas outside of the GGW are considered as out-of-scope for the project but can be pertinent in terms of restoration. The final selection would depend on baseline survey, security situation in the area at the start of the project, as well as government and community level engagement and consensus on final project intervention sites.


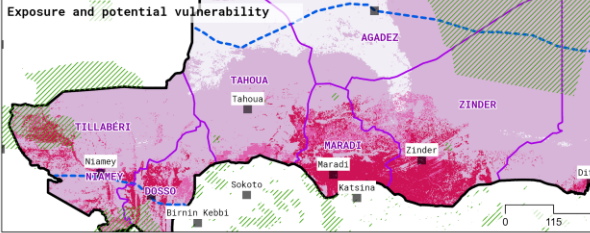
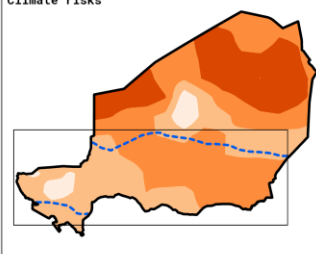
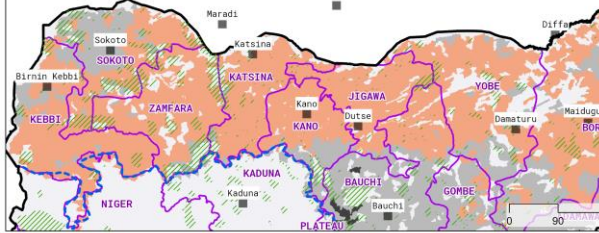
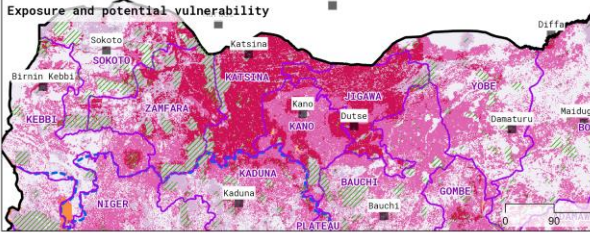
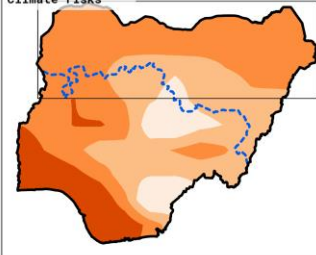
The extent of the climate-related damages is further detailed in Annex 2 of the project package.

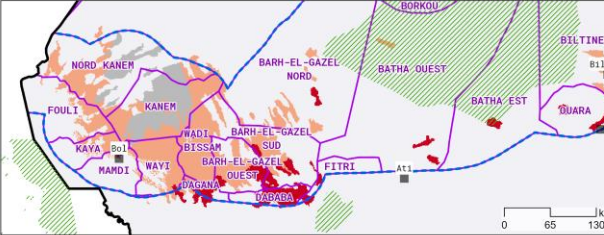
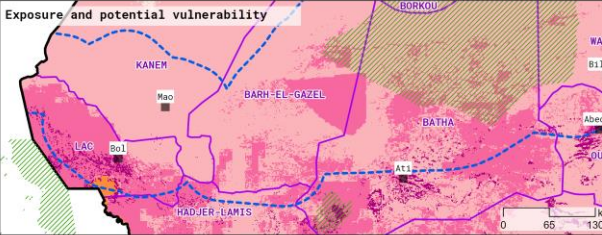
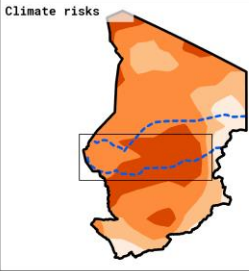
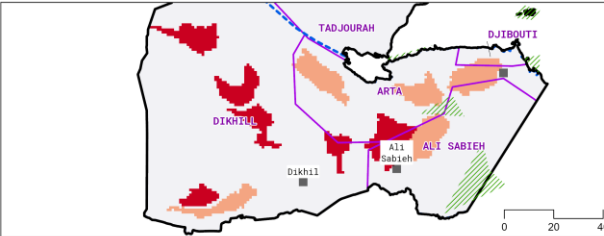
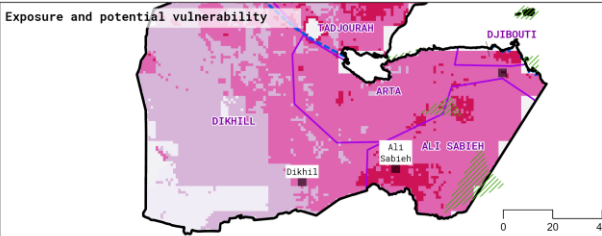
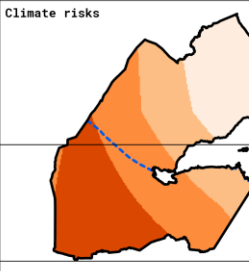
Table 1: Results of the project area selection based on scoring

Note: The table below illustrates the suggested locations by country. <u>Maps on the left</u> show the final score layer. Areas in red are the ideal locations. Top map displays the scores by basins within the GGW, and bottom map is by pixel for the whole country. <u>Maps on the right</u> show the input layers used to get the final score. Top map displays the exposure and potential vulnerability, and bottom map is proxy for the future likelihood of climate hazards.	
SENEGAL	

 <p>SURAGGWA - Senegal Suggested project locati (preferred sites in red)</p> <p>Legend</p> <ul style="list-style-type: none"> Cities Protected areas GGW and Sahel Admin Lvl 1 <p>Value</p> <p>0.247704</p>	<p>Exposure and potential vulnerability</p>  <p>Climate risks</p>  <p>Input layers - Senegal</p> <p>Legend</p> <ul style="list-style-type: none"> Cities Protected areas GGW and Sahel Admin Lvl 1 <p>Exposure (people, livestock, trees, surface water, farming)</p> <p>Climate indice (droug + heat)</p> <p>Value</p> <p>0.571453</p> <p>0.8134835</p>
<p>Areas with relatively high exposure and vulnerability: Northeast Tambacounda, Matam, East Louga, and East St. Louis.</p> <p>IPC data shows that these areas gradually overlap with regions where risk reduction is needed to address food security. The main priority regions are Tambacounda, Matam, and Louga.</p>	<p>Future climate variability will affect mostly the Eastern part of the country's GGW. Exposure and potential vulnerability mostly in Matam and Northeast Tambacounda. As of February 2022, there are 05 climate change related project ongoing in the country's GGW areas (Table 3).</p>
<p>MAURITANIA</p>	
 <p>SURAGGWA - Mauritania Suggested project locati (preferred sites in red)</p> <p>Legend</p> <ul style="list-style-type: none"> Cities Protected areas GGW and Sahel Admin Lvl 1 <p>Value</p> <p>1.22377</p> <p>0.48526</p>	<p>Exposure and potential vulnerability</p>  <p>Climate risks</p>  <p>Input layers - Mauritania</p> <p>Legend</p> <ul style="list-style-type: none"> Cities Protected areas GGW and Sahel Admin Lvl 1 <p>Exposure (people, livestock, trees, surface water, farming)</p> <p>Climate indice (droug + heat)</p> <p>Value</p> <p>0.488589</p> <p>0.47211e-07</p>
<p>Areas with relatively high exposure and vulnerability: Mostly in Gorgol, Guidimagha, Southern Assaba. Some areas in Brakna, Trarza, and Hodh El Gharbi.</p> <p>IPC data shows that these areas overlap with regions where risk reduction is needed to address food security. But the main priority regions are Gorgol and Guidimagha, where sometimes urgent actions are also needed.</p>	<p>Future climate variability will affect mostly the Southern part of the country's GGW. Exposure and potential vulnerability mostly in Gorgol and Guidimagha. As of February 2022, there are 07 climate change related project ongoing in the country's GGW areas (Table 3).</p>
<p>MALI</p>	

 <p>SURAGGWA - Mali Suggested project locations (preferred sites in red)</p> <p>Legend</p> <ul style="list-style-type: none"> Cities Protected areas GGW and Sahel Admin Lvl 1 <p>Value: 1.17094, 0.15529</p>	<p>Exposure and potential vulnerability</p>  <p>Climate risks</p>  <p>Input layers - Mali</p> <p>Legend</p> <ul style="list-style-type: none"> Cities Protected areas GGW and Sahel Admin Lvl 1 <p>Exposure (people, livestock, trees, surface water, farming) Value: 0.519531, 0.888228672</p> <p>Climate indices (drought + heat) Value: 0.726, 0.882</p>
<p>Areas with relatively high exposure and vulnerability: Mostly in Kayes. Some areas in Ségou and Koulikoro. IPC data shows that there is minimal food insecurity threats in the selected regions, except for Diema (Kayes) and Nioro (Kayes). Areas with most concerns are Gao and Tombouctou but they are not ideal project locations based on scores.</p>	<p>Future climate variability will affect mostly the Southwestern part of the country's GGW. Exposure and potential vulnerability mostly in Segou and Mopti. As of February 2022, there are 08 climate change related project ongoing in the country's GGW areas (Table 3).</p>
<p>BURKINA FASO</p>	
 <p>SURAGGWA - Burkina Faso Suggested project locations (preferred sites in red)</p> <p>Legend</p> <ul style="list-style-type: none"> Cities Protected areas GGW and Sahel Admin Lvl 1 <p>Value: 0.97673, 0.12722</p>	<p>Exposure and potential vulnerability</p>  <p>Climate risks</p>  <p>Input layers - Burkina Faso</p> <p>Legend</p> <ul style="list-style-type: none"> Cities Protected areas GGW and Sahel Admin Lvl 1 <p>Exposure (people, livestock, trees, surface water, farming) Value: 0.529825, 0.8214641</p> <p>Climate indices (drought + heat) Value: 0.638, 0.886</p>
<p>Areas with relatively high exposure and vulnerability: Mostly in Sahel. Some areas in Centre-Nord, Nord, and Est. IPC data shows that these areas overlap with regions where urgent actions are always needed to address food security. The main priority regions are: Sahel (all), Namentenga, Sanmatenga, Komandjari, and Loroum.</p>	<p>Future climate variability will affect mostly the Northern part of the country's GGW. Exposure and potential vulnerability mostly in East Sahel. As of February 2022, there are 09 climate change related project ongoing in the country's GGW areas (Table 3).</p>
<p>NIGER</p>	

 <p>SURAGGWA - Niger Suggested project location (preferred sites in red)</p> <p>Legend</p> <ul style="list-style-type: none"> Cities Protected areas Admin Lvl 1 GW and Sahel <p>Value</p> <ul style="list-style-type: none"> 0.932651 0.239213 	<p>Exposure and potential vulnerability</p>  <p>Climate risks</p>  <p>Input layers - Niger</p> <p>Legend</p> <ul style="list-style-type: none"> Cities Protected areas Admin Lvl 1 GW and Sahel <p>Exposure (people, livestock, trees, surface water, farming)</p> <p>Climate indice (drought + heat)</p> <p>Value</p> <ul style="list-style-type: none"> 0.546518 0.888388954
<p>Areas with relatively high exposure and vulnerability: Mostly in southern Maradi and Zinder. Some areas in southern Diffa, Dosso, Tilaberi, and Tahoua. IPC data shows that these areas overlap with regions where risk reduction is needed to address food security. Tilaberi (Ouallam) and Diffa are amongst the most at risk.</p>	<p>Future climate variability will affect mostly the Eastern part of the country's GGW. Exposure and potential vulnerability mostly in Maradi and Zinder. As of February 2022, there are 06 climate change related project ongoing in the country's GGW areas (Table 3).</p>
<p>NIGERIA</p>	
 <p>SURAGGWA - Nigeria Suggested project location (preferred sites in red)</p> <p>Legend</p> <ul style="list-style-type: none"> Cities Protected areas Admin Lvl 1 GW and Sahel <p>Value</p> <ul style="list-style-type: none"> 1.46416 0.37515 	<p>Exposure and potential vulnerability</p>  <p>Climate risks</p>  <p>Input layers - Nigeria</p> <p>Legend</p> <ul style="list-style-type: none"> Cities Protected areas Admin Lvl 1 GW and Sahel <p>Exposure (people, livestock, trees, surface water, farming)</p> <p>Climate indice (drought + heat)</p> <p>Value</p> <ul style="list-style-type: none"> 0.579281 0.8269632
<p>Areas with relatively high exposure and vulnerability: Kebbi, Sokoto, Zamfara, Katsina, Kano, Jigawa, Bauchi, Yobe, and Borno. Almost everywhere in the GGW because of high vulnerability and opportunity for restoration. IPC data shows that these areas overlap with regions where urgent actions are always needed to address food security. The main priority regions are Borno, Sokoto, Zamfara, and Yobe.</p>	<p>Future climate variability will affect mostly the Northern part of the country's GGW. Exposure and potential vulnerability mostly in Katsina, Jigawa, and Zamfara. As of February 2022, there are 03 climate change related project ongoing in the country's GGW areas (Table 3).</p>
<p>CHAD</p>	<p>CHAD</p>

 <p>SURAGGWA - Chad Suggested project location (preferred sites in red)</p> <p>Legend</p> <ul style="list-style-type: none"> Cities Protected areas GGW and Sahel Admin Lvl 1 <p>Location scale: 0.05852 to 0.24094</p>	<p>Exposure and potential vulnerability</p>  <p>Climate risks</p>  <p>Input layers - Chad</p> <p>Legend</p> <ul style="list-style-type: none"> Cities Protected areas GGW and Sahel Admin Lvl 1 <p>Exposure (people, livestock, trees, surface water, farming) Value: 0.535625 to 0.888765622</p> <p>Climate indices (drought + heat) Value: 0.588 to 0.126</p>
<p>Areas with relatively high exposure and vulnerability: Mostly in southern Bahr-el-Gazel, northern Hadjer-Lamis, Kanem, and Lac. Some areas Batha, Ouaddai, and Wadi Fira. IPC data shows that these areas overlap with regions where risk reduction is needed to address food security. However, the affected population seems to be decreasing already. The main priority regions are Kanem and Lac.</p>	<p>Future climate variability will affect mostly the Central part of the country's GGW. Exposure and potential vulnerability mostly in Lac, Batha, Bahr-el-Gazel, and some locations Ouaddai. As of February 2022, there are 05 climate change related project ongoing in the country's GGW areas (Table 3).</p>
<p>DJIBOUTI</p>	
 <p>SURAGGWA - Djibouti Suggested project location (preferred sites in red)</p> <p>Legend</p> <ul style="list-style-type: none"> Cities Protected areas GGW and Sahel Admin Lvl 1 <p>Location scale: 1.36788 to 0.74981</p>	<p>Exposure and potential vulnerability</p>  <p>Climate risks</p>  <p>Input layers - Djibouti</p> <p>Legend</p> <ul style="list-style-type: none"> Cities Protected areas GGW and Sahel Admin Lvl 1 <p>Exposure (people, livestock, trees, surface water, farming) Value: 0.576899 to 0.172942</p> <p>Climate indices (drought + heat) Value: 1 to 0.5</p>
<p>Areas with relatively high exposure and vulnerability: Dikhil, Arta, and Ali Sabieh. There is no IPC data for Djibouti.</p>	<p>Climate risk is overall uniform in Djibouti (at least based on the data used). But the impacts will likely be more significant in southern Ali Sabieh. As of February 2022, there are 05 climate change related project ongoing in the country's GGW areas (Table 3).</p>

List of projects with potential synergies in suggested locations

Table 2: List of projects with potential synergies in suggested locations

Selected GGW Countries	Implement ing partners	Senegal	Mauritani a	Mali	Burkin a Faso	Niger	Nigeria	Chad	Djibouti
<i>Locations severely affected by food insecurity between Oct 2020 and Dec 2022. Emergency support likely occurred or occurring. And actions to reduce disaster risk and protect livelihoods would also be pertinent.</i>	<i>n/a</i>	<i>Louga. Matam. Tambacoun da.</i>	<i>Gorgol. Guidimag ha. Hodh El Gharbi.</i>	<i>Gao. Mopti. Ségou.</i>	<i>Centre -Nord. Est. Nord. Sahel.</i>	<i>Diffa. Tahou a. Tillabé ri.</i>	<i>Adama wa. Borno. Jigawa. Sokoto. Yobe. Zamfara .</i>	<i>Ennedi Ouest. Kanem .</i>	<i>n/a</i>
<i>Locations with food security stress between Oct 2020 and Dec 2022. Actions to reduce disaster risk and protect livelihoods would be pertinent.</i>	<i>n/a</i>	<i>Saint Louis. Thiès.</i>	<i>Assaba. Brakna. Hodh Charghi. Inchiri. Tagant. Trarza.</i>	<i>Kayes. Tombouct ou.</i>	<i>Platea u- Centra l.</i>	<i>Dosso. Marad i. Zinder.</i>	<i>Bauchi. Gombe. Kano. Katsina. Kebbi.</i>	<i>Barh- El- Gazel. Batha. Borkou . Ennedi Est. Hadjer- Lamis. Lac. Ouadd aï. Wadi Fira.</i>	<i>n/a</i>
Programme for Integrated Development and Adaptation to Climate Change in the Niger Basin (PIDACC/NB)	GCF / AfDB			Gao, Koulikoro, Mopti, Ségou, Tombouct ou	Centre -Nord, Est, Platea u- Centra l, Sahel	Dosso, Tahou a, Tillabé ri	Kebbi, Sokoto, Zamfara		

Selected GGW Countries	Implement ing partners	Senegal	Mauritani a	Mali	Burkin a Faso	Niger	Nigeria	Chad	Djibouti
The Africa Integrated Climate Risk Management Programme: Building the resilience of smallholder farmers to climate change impacts in 7 Sahelian Countries of the Great Green Wall (GGW)	GCF / IFAD	Louga, Thiès	Brakna, Hodh El Gharbi	Kayes, Koulikoro, Ségou		Dosso, Maradi, Tahoua, Zinder		Hadjer-Lamis	
Inclusive Green Financing Initiative (IGREENFIN I): Greening Agricultural Banks & the Financial Sector to Foster Climate Resilient, Low Emission Smallholder Agriculture in the Great Green Wall (GGW) countries [Component 1 and 2]	GCF / IFAD	Louga, Thiès		Kayes, Koulikoro, Ségou					
Inclusive Green Financing Initiative (IGREENFIN I): Greening Agricultural Banks & the Financial Sector to Foster	GCF / IFAD	Louga, Matam, Saint Louis, Tambacounda, Thiès	Assaba, Brakna, Gorgol, Guidimagha, Hodh Charghi, Hodh El Gharbi, Tagant, Trarza	Gao, Kayes, Kidal, Koulikoro, Mopti, Ségou, Tombouctou	Centre-Nord, Est, Nord, Plateau-Central, Sahel	Diffa, Dosso, Maradi, Tahoua, Tillabéri, Zinder	Adamawa, Bauchi, Borno, Gombe, Jigawa, Kano, Katsina, Kebbi, Sokoto, Taraba,	Barh-El-Gazel, Batha, Borkou, Ennedi Est, Ennedi Ouest, Hadjer-	Ali Sabieh, Arta, Dikhil, Djibouti, Tadjourah

Selected GGW Countries	Implement ing partners	Senegal	Mauritani a	Mali	Burkin a Faso	Niger	Nigeria	Chad	Djibouti
Climate Resilient, Low Emission Smallholder Agriculture in the Great Green Wall (GGW) countries [Component 3]							Yobe, Zamfara	Lamis, Kanem , Lac, Ouaddaï, Wadi Fira	
Sustainable management of dryland landscapes in Burkina Faso	GEF / IUCN				Nord				
Climate Resilience in the Nakambe Basin	GEF / UNDP				Centre -Nord, Nord				
GEF-IAP: Participatory Natural Resource Management and Rural Development Project in the North, Centre-North and East Regions (Neer Tamba project)	GEF / IFAD				Nord				
Integrated Development for Increased Rural Climate Resilience in the Niger Basin	GEF / AfDB			Gao, Kidal, Koulikoro, Mopti, Ségou, Tombouctou	Centre -Nord, Est, Plateau-Central	, Dosso, Maradi, Tahoua, Tillabéri	, Katsina, Kebbi, Sokoto, Zamfara		
Integration of climate change adaptation measures in the concerted management of the WAP	Adaptation Fund / SSO				Est				

Selected GGW Countries	Implement ing partners	Senegal	Mauritani a	Mali	Burkin a Faso	Niger	Nigeria	Chad	Djibouti
transboundar y complex: ADAPT-WAP (Benin, Burkina Faso, Niger)									
Promoting Climate- Smart Agriculture in West Africa (Benin, Burkina Faso, Ghana, Niger, Togo)	Adaptation Fund / BOAD				Est	Dosso, Tillabé ri			
Regional Sahel Pastoralism Support Project (PRAPS)	World Bank	Louga, Matam, Saint Louis, Tambacoun da	Assaba, Brakna, Gorgol, Guidimag ha, Hodh Charghi, Hodh El Gharbi, Tagant, Trarza	Gao, Kayes, Kidal, Koulikoro, Mopti, Ségou, Tombouct ou	Est, Nord, Sahel	Diffa, Dosso, Marad i, Tahou a, Tillabé ri, Zinder		Barh- El- Gazel, Batha, Borkou , Ennedi Est, Ennedi Ouest, Hadjer- Lamis, Kanem , Lac, Ouadd aï, Wadi Fira	
Enhancing the resilience of agriculture and livestock producers through improved watershed management and development of environment ally-positive value chains in South East Mauritania	GEF / FAO		Assaba, Guidimag ha, Hodh El Gharbi						

Selected GGW Countries	Implement ing partners	Senegal	Mauritani a	Mali	Burkin a Faso	Niger	Nigeria	Chad	Djibouti
Climate change adaptation and livelihoods in three arid regions of Mauritania	GEF / UNEP		Trarza						
Integrated ecosystem management project for the sustainable human development in Mauritania	GEF / FAO		Assaba, Brakna, Gorgol, Guidimag ha						
PSG- Sustainable Landscape Management Project under SAWAP	GEF / World Bank		Brakna, Gorgol, Trarza						
Climate security and sustainable management of natural resources in the central regions of Mali for peacebuilding	GEF / UNDP			Mopti					
Scaling up and Replicating Successful Sustainable Land Management (SLM) and Agroforestry Practices in the Koulikoro Region of Mali	GEF / UNEP			Koulikoro					
Building Resilience For Food Security and Nutrition	GEF / AfDB							Barh- El- Gazel, Kanem	

Selected GGW Countries	Implement ing partners	Senegal	Mauritani a	Mali	Burkin a Faso	Niger	Nigeria	Chad	Djibouti
in Chad's Rural Communities									
Enhancing the Resilience of the Agricultural Ecosystems	GEF / IFAD							Batha, Hadjer-Lamis	
Ecosystem-based Adaptation (EbA) for resilient natural resources and agro-pastoral communities in the Ferlo Biosphere Reserve and Plateau of Thies	GEF / UNDP, IUCN	Matam							
Planning and implementing Ecosystem based Adaptation (EbA) in Djibouti's Dikhil and Tadjourah regions	GEF / UNEP								Dikhill, Tadjourah
Sustainable Management of Water Resources, Rangelands and Agro-pastoral Perimeters in the Cheikhetti Wadi watershed of Djibouti	GEF / UNDP								Dikhill
Integrated Water and Soil Resources Management	Adaptation Fund / IFAD								Ali Sabieh, Arta, Dikhill,

Selected GGW Countries	Implement ing partners	Senegal	Mauritani a	Mali	Burkin a Faso	Niger	Nigeria	Chad	Djibouti
Project (Projet de gestion intégrée des ressources en eau et des sols PROGIRES)									Tadjour ah
Strengthenin g Drought Resilience for Small Holder Farmers and Pastoralists in the IGAD Region	Adaptation Fund / SSO								Ali Sabieh, Dikhill