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of Rwanda



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Rwanda Green Taxonomy: Annex II

CLIMATE CHANGE ADAPTATION AND RESILIENCE

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Table of Contents

1. Agriculture and Livestock	1
1.1. HAZARD: FLOOD DAMAGE	1
1.2. HAZARD: WATER STRESS (INCLUDING DRAUGHT).....	4
1.3. HAZARD: MULTI-HAZARD	10
2. Construction	14
2.1. HAZARD: STORM DAMAGE	14
2.2. HAZARD: FLOOD DAMAGE	20
2.3. HAZARD: MASS MOVEMENT DAMAGE (INCLUDING LANDSLIDES).....	30
3. Community Services	34
3.1. HAZARD: FLOOD DAMAGE	34
3.2. HAZARD: MASS MOVEMENT DAMAGE (INCLUDING LANDSLIDES).....	41
3.3. HAZARD: MULTI-HAZARD	45
4. Energy.....	49
4.1. HAZARD: HEAT STRESS	49
4.2. HAZARD: FLOOD DAMAGE	50
5. Environmental Protection and Restoration	53
5.1. HAZARD: HEAT STRESS	53
5.2. HAZARD: WATER STRESS (INCLUDING DRAUGHT).....	56
5.3. HAZARD: MULTI-HAZARD	61
6. Transportation	65
6.1. HAZARD: FLOOD DAMAGE	65
6.2. HAZARD: HEAT STRESS	69
7. Water Management.....	71
7.1. HAZARD: FLOOD DAMAGE	71
7.2. HAZARD: WATER STRESS (INCLUDING DRAUGHT).....	75
8. Generic DNSH Criteria for all Adaptation Activities and Measures	77
9. Minimum Social Safeguards Requirements	78

Adaptation to climate change is crucial for Rwanda due to its vulnerability to extreme weather events, such as heavy rainfall, floods, and droughts, which can significantly impact agriculture, the backbone of its economy. The country's population relies heavily on subsistence farming, making food security sensitive to climate variations. Climate change also threatens Rwanda's natural resources, including water supplies and biodiversity, essential for sustainable development and livelihoods. Additionally, Rwanda's efforts to achieve its Vision 2050 goals require resilience-building to safeguard its progress against climate-related disruptions. By prioritizing climate adaptation, Rwanda can protect its communities, infrastructure, and ecosystems from future climate risks while advancing sustainable economic growth. The following measures and activities can help Rwanda achieve its adaptation and resilience objectives.

The instructions on how to use the tables below are given in sub-chapter 6.2. of the main Taxonomy document: Introduction and User Guide.

1. Agriculture and Livestock

1.1. HAZARD: FLOOD DAMAGE

Division	Investment	Expected effect	Expected result	Type	Level	Criteria type	Code
Crop production	Constructing / expanding / operating / upgrading physical agricultural infrastructure assets	Agricultural production asset upgraded with investment-appropriate adapting measures that reduce the vulnerability of that activity to flood damage	Physical agricultural infrastructure assets more resilient to flood damage	Adapted	Activity	Process-based	3001
	Construction of flood-reinforced controlled environment agriculture	Reduced physical vulnerability due to protection of crops from flood-borne contaminants and pathogens	Physical agricultural infrastructure assets are more resilient to flood damage	Adapting	Measure	Quantitative	
	Creation of data-sharing platforms	Improved adaptive capacity due to real-time sharing of	Agricultural management systems more	Adapting	Measure	Whitelist	

Division	Investment	Expected effect	Expected result	Type	Level	Criteria type	Code
	and interfaces for data input-output	flood extent and depth data among stakeholders	resilient to flood damage				
	Elevation of and floodproofing food processing infrastructure	Reduced physical vulnerability due to safeguarding of food processing equipment from water damage	Physical agricultural infrastructure assets are more resilient to flood damage	Adapting	Measure	Quantitative	
	Enabling GIS dataset interfacing on precipitation by farmers	Improved adaptive capacity due to precise, location-specific flood risk assessment for farmlands	Agricultural management systems more resilient to flood damage	Adapting	Measure	Whitelist	
	Enabling GIS dataset updating on crop performance via farmer inputs	Improved adaptive capacity due to rapid identification of flood-damaged crop areas for targeted response	Agricultural management systems more resilient to flood damage	Adapting	Measure	Whitelist	
	Implementation of controlled environment agriculture in locations safe from flooding	Reduced physical vulnerability due to crop protection from soil saturation and flood damage	Physical agricultural infrastructure assets are more resilient to flood damage	Adapting	Measure	Quantitative	
	Increasing drainage capacity; more frequent maintenance to prevent silting of the existing and newly built infrastructures	Reduced physical vulnerability due to prevention of urban flooding and sewage overflow	Physical agricultural infrastructure assets more resilient to flood damage	Adapting	Measure	Quantitative	

Division	Investment	Expected effect	Expected result	Type	Level	Criteria type	Code
	Integration of early warning systems	Improved adaptive capacity due to increased lead time for flood preparation and evacuation	Agricultural management systems more resilient to flood damage	Adapting	Measure	Whitelist	
	Monitoring water datasets	Improved adaptive capacity due to precise prediction of river overflow and flash flood risks	Agricultural management systems more resilient to flood damage	Adapting	Measure	Whitelist	
	Provision of backup power systems for critical food processing operations during storms	Improved adaptive capacity due to uninterrupted food production during flood-related power cuts	Physical agricultural infrastructure assets more resilient to flood damage	Adapting	Measure	Whitelist	
	Reinforcing roofs, doors, and structures of warehouses and barns	Reduced physical vulnerability due to prevention of stored crop loss from flood waters	Physical agricultural infrastructure assets more resilient to flood damage	Adapting	Measure	Quantitative	
	Use of remote-sensing crop performance data	Improved adaptive capacity due to accurate estimation of crop losses from extensive flooding	Agricultural management systems more resilient to flood damage	Adapting	Measure	Whitelist	
	Use of time-series geospatial information	Improved adaptive capacity due to identification of long-term flood-safe agricultural zones	Agricultural management systems more resilient to flood damage	Adapting	Measure	Whitelist	

Division	Investment	Expected effect	Expected result	Type	Level	Criteria type	Code
	Constructing / expanding / operating / upgrading information systems	Climate resilience solution developed or provided that is expected to increase the climate resilience of other activities to flood damage	Agricultural management systems more resilient to flood damage	Enabling	Activity	Process-based	
Livestock production	Moving agricultural assets to more productive areas	Agricultural production asset upgraded with investment-appropriate adapting measures that reduce the vulnerability of that activity to flood damage	Animal husbandry more resilient to flood damage	Adapted	Activity	Process-based	3008
	Relocation of livestock herds/operation	Reduced physical vulnerability due to prevention of livestock loss during severe flooding	Animal husbandry more resilient to flood damage	Adapting	Measure	<u>Qualitative</u>	
	Moving vulnerable farmers to safer areas	Reduced physical vulnerability due to elimination of flood exposure for high-risk farming communities	Animal husbandry more resilient to flood damage	Adapting	Measure	Quantitative	
Agro-forestry	Constructing / expanding / operating / upgrading agro-forestry production assets	Agricultural production asset upgraded with investment-appropriate adapting measures that reduce the vulnerability of that activity to flood damage	Agro-forestry production assets more resilient to flood damage	Adapted	Activity	Process-based	3030

1.2. HAZARD: WATER STRESS (INCLUDING DRAUGHT)

Division	Investment	Expected effect	Expected result	Type	Level	Criteria type	Code
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Crop production	Constructing / expanding / operating / upgrading agri-ecological systems	Agricultural production asset upgraded with investment-appropriate adapting measures that reduce the vulnerability of that activity to water stress	Crop production assets more resilient to water stress conditions	Adapted	Activity	Process-based	3004
	Constructing / expanding / operating / upgrading agricultural production assets	Agricultural production asset upgraded with investment-appropriate adapting measures that reduce the vulnerability of that activity to water stress	Physical agricultural infrastructure assets more resilient to flood damage	Adapted	Activity	Process-based	
	Constructing / expanding / operating / upgrading water assets for agriculture	Agricultural production asset upgraded with investment-appropriate adapting measures that reduce the vulnerability of that activity to water stress	Crop production assets more resilient to water stress conditions	Adapted	Activity	Process-based	
	Conducting of research and development for new cultivars	Reduced physical vulnerability due to ongoing improvement of drought-resistant crop varieties	Crop production assets more resilient to water stress conditions	Adapting	Measure	Quantitative	
	Creation of data-sharing platforms and interfaces for data input-output	Improved adaptive capacity due to enhanced water stress data sharing among stakeholders	Agricultural management systems more resilient to water stress conditions	Adapting	Measure	Whitelist	
	Enabling GIS dataset interfacing on water scarcity through farmers	Improved adaptive capacity due to farmer access to localized water scarcity information	Agricultural management systems more resilient to water stress conditions	Adapting	Measure	Whitelist	
	Enabling GIS dataset updating	Improved adaptive capacity due to real-time reporting of	Agricultural management	Adapting	Measure	Whitelist	

	on water scarcity via farmer inputs	water scarcity impacts on crops	systems more resilient to water stress conditions Crop production assets				
	Field testing new crop cultivars	Reduced physical vulnerability due to development of drought-resistant crop varieties	more resilient to water stress conditions	Adapting	Measure	Quantitative	
	Implementation of on-farm water reuse, recycling, and treatment systems	Reduced physical vulnerability due to decreased freshwater demand through on-farm water recycling	Crop production assets more resilient to water stress conditions	Adapting	Measure	Quantitative	
	Integration of early warning systems	Improved adaptive capacity due to timely alerts and coordinated responses to water scarcity	Agricultural management systems more resilient to water stress conditions	Adapting	Measure	Whitelist	
	Managing soil moisture	Reduced physical vulnerability due to optimized soil water content for crop growth	Crop production assets more resilient to water stress conditions	Adapting	Measure	Quantitative	
	Monitoring temperature and evapotranspiration datasets	Improved adaptive capacity due to precise monitoring of crop water requirements	Agricultural management systems more resilient to water stress conditions	Adapting	Measure	Whitelist	
	Reporting soil information	Improved adaptive capacity due to enhanced understanding of soil conditions in water management	Agricultural management systems more resilient to water stress conditions	Adapting	Measure	Whitelist	

	Scaling up production for new cultivars	Reduced physical vulnerability due to increased availability of drought-resistant crop varieties	Crop production assets more resilient to water stress conditions	Adapting	Measure	Quantitative	
	Use of remote-sensing crop performance data	Improved adaptive capacity due to remote detection of crop water stress	Agricultural management systems more resilient to water stress conditions	Adapting	Measure	Whitelist	
	Use of time-series geospatial information	Improved adaptive capacity due to long-term water availability trend analysis for agricultural planning	Agricultural management systems more resilient to water stress conditions	Adapting	Measure	Whitelist	
	Harvesting rainwater	Reduced physical vulnerability due to on-site collection and storage of rainwater	Crop production assets more resilient to water stress conditions	Adapting	Measure	Quantitative	
	Installation of automated water control systems	Reduced physical vulnerability due to optimized water distribution in agricultural systems	Crop production assets more resilient to water stress conditions	Adapting	Measure	Whitelist	
	Installation of water resource monitoring equipment (including for irrigation water and study of how it affects crop quality)	Improved adaptive capacity due to real-time monitoring of water resource availability	Crop production assets more resilient to water stress conditions	Adapting	Measure	Whitelist	
	Storing groundwater	Reduced physical vulnerability due to	Crop production assets more	Adapting	Measure	Quantitative	

		increased water availability during dry periods	resilient to water stress conditions				
	Use of on-farm sealed storage	Reduced physical vulnerability due to minimized water loss in on-farm storage	Crop production assets more resilient to water stress conditions	Adapting	Measure	Quantitative	
	Creation of cover cropping systems	Reduced physical vulnerability due to improved soil water retention and reduced evaporation	Crop production assets more resilient to water stress conditions	Adapting	Measure	Quantitative	
	Implementation of agri-ecological operations for water conservation	Reduced physical vulnerability due to implementation of water-conserving farming practices	Crop production assets more resilient to water stress conditions	Adapting	Measure	Whitelist	
	Implementation of agri-ecological practices for water conservation ¹	Reduced physical vulnerability due to implementation of water-conserving farming practices	Crop production assets more resilient to water stress conditions	Adapting	Measure	Whitelist	
	Promote conservation agriculture practices and intercropping systems which increase soil carbon and reduce pests	Reduced physical vulnerability due to efficient water use through complementary crop planting	Crop production assets more resilient to water stress conditions	Adapting	Measure	Quantitative	
	Managing plant species conservation	Improved adaptive capacity due to preservation of plant	Crop production assets more	Adapting	Measure	Whitelist	

¹ Such as agri-forestry and fruit trees, trees along roads for shades for promotion of general air humidity

		biodiversity in water-stressed conditions	resilient to water stress conditions				
	Promote conservation agriculture practices and intercropping systems which increases soil carbon and reduce pests	Reduced physical vulnerability due to enhanced soil water retention through microbial activity	Crop production assets more resilient to water stress conditions	Adapting	Measure	Quantitative	
	Managing conservation of wild animal species that are not harmful to agricultural production	Improved adaptive capacity due to maintenance of biodiversity in water-stressed environments	Crop production assets more resilient to water stress conditions	Adapting	Measure	Whitelist	
	Development of agri-ecological management practices	Climate resilience solution developed or provided that is expected to increase the climate resilience of other activities to water stress	Crop production assets more resilient to water stress conditions	Enabling	Activity	Process-based	
	Constructing / developing / upgrading information systems	Climate resilience solution developed or provided that is expected to increase the climate resilience of other activities to water stress	Agricultural management systems more resilient to water stress conditions	Enabling	Activity	Process-based	
Livestock production	Moving agricultural assets to more productive areas	Agricultural production asset upgraded with investment-appropriate adapting measures that reduce the vulnerability of that activity to water stress	Animal husbandry more resilient to water stress conditions	Adapted	Activity	Process-based	3012

	Moving vulnerable farmers to safer areas	Reduced physical vulnerability due to relocation of farming communities to water-secure areas	Animal husbandry more resilient to water stress conditions	Adapting	Measure	Quantitative	
	Relocation of livestock herds/operation	Reduced physical vulnerability due to movement of livestock to areas with reliable water sources	Animal husbandry more resilient to water stress conditions	Adapting	Measure	Qualitative	

1.3. HAZARD: MULTI-HAZARD

Division	Investment	Expected effect	Expected result	Type	Level	Criteria type	Code
Crop production	Cultivating / managing crop production	Crop production upgraded with investment-appropriate adapting measures that reduce the vulnerability of that activity to multi-hazard impacts	Crop production assets more resilient to heat stress conditions	Adapted	Activity	Process-based	3200
	Developing and providing chemical products for biological risk management	Agricultural production asset upgraded with investment-appropriate adapting measures that reduce the vulnerability of that activity to multi-hazard impacts	Agricultural production assets more resilient to multi-hazard impacts	Adapted	Activity	Process-based	3006
	Conducting field scouting	Improved adaptive capacity due to early detection of crop health issues across multiple threats	Crop production assets more resilient to crop disease	Adapting	Measure	Whitelist	
	Creation of disease-tolerant cultivars	Reduced physical vulnerability due to enhanced crop resistance to various diseases and pests	Crop production assets more resilient to crop disease	Adapting	Measure	Whitelist	

	Field testing pest-repellent crop cultivars	Improved adaptive capacity due to evaluation of crop varieties resistant to multiple pest types	Crop production assets more resilient to pests	Adapting	Measure	Whitelist	
	Implementation of cover cropping systems	Reduced physical vulnerability due to improved soil health and reduced erosion in extreme weather events	Crop production assets more resilient to crop disease	Adapting	Measure	Qualitative	
	Implementation of crop rotation	Reduced physical vulnerability due to diversified crop resilience against multiple environmental stressors	Crop production assets more resilient to crop disease	Adapting	Measure	Quantitative	
	Implementation of forecasting and monitoring systems	Improved adaptive capacity due to enhanced prediction and monitoring of various agricultural threats	Crop production assets more resilient to pests	Adapting	Measure	Whitelist	
	Implementation of strategic planting	Reduced physical vulnerability due to optimized crop placement for various environmental challenges	Crop production assets more resilient to crop disease	Adapting	Measure	Whitelist	
	Managing irrigation	Reduced physical vulnerability due to optimized water management in drought and flood conditions	Crop production assets more resilient to crop disease	Adapting	Measure	Quantitative	
	Production of pest-repellent cultivars	Reduced physical vulnerability due to increased crop resistance to multiple pest species	Crop production assets more resilient to pests	Adapting	Measure	Quantitative	
	Provision of agrochemical provision and application equipment	Reduced physical vulnerability due to maintained crop protection capabilities during supply chain disruptions	Crop production assets more resilient to crop disease	Adapting	Measure	Whitelist	

	Provision of pesticide provision and application equipment	Reduced physical vulnerability due to maintained pest control capabilities during supply disruptions	Agricultural production assets more resilient to multi-hazard impacts	Adapting	Measure	Quantitative	
	Training on application and responsible use	Reduced health vulnerability due to proper handling of agrochemicals across various threat scenarios	Agricultural production assets more resilient to multi-hazard impacts	Adapting	Measure	Whitelist	
	Use of mechanised tools and applicators	Reduced health vulnerability due to reduced human exposure	Agricultural production assets more resilient to multi-hazard impacts	Adapting	Measure	Quantitative	
	Development of biological risk management systems	Climate resilience solution developed or provided that is expected to increase the climate resilience of other activities to multi-hazard impacts	Crop production assets more resilient to crop disease	Enabling	Activity	Process-based	
Livestock production	Raising / managing Livestock production, including aflatoxin control and milk quality control	Livestock production upgraded with investment-appropriate adapting measures that reduce the vulnerability of that activity to multi-hazard impacts	Livestock production assets more resilient to multi-hazard impacts	Adapted	Activity	Process-based	3201
	Creation of disease-tolerant breeds	Reduced physical vulnerability due to enhanced livestock resistance to various diseases	Livestock production assets more resilient to	Adapting	Measure	Quantitative	

			multi-hazard impacts				
	Managing animal housing airflow and spacing	Reduced health vulnerability due to improved disease control in livestock facilities	Livestock production assets more resilient to multi-hazard impacts	Adapting	Measure	Quantitative	
	Managing slaughterhouse cleaning and waste	Reduced health vulnerability due to improved sanitation in meat processing facilities	Livestock production assets more resilient to multi-hazard impacts	Adapting	Measure	Whitelist	
	Development of biological risk management systems	Climate resilience solution developed or provided that is expected to increase the climate resilience of other activities to multi-hazard impacts	Livestock production assets more resilient to multi-hazard impacts	Enabling	Activity	Process-based	
Agro-forestry	Cultivating / managing agro-forestry systems and horticulture	Agro-forestry upgraded with investment-appropriate adapting measures that reduce the vulnerability of that activity to multi-hazard impacts	Agro-forestry systems more resilient to multi-hazard impacts	Adapted	Activity	Process-based	3202
Fishing	Constructing / upgrading / managing fishing assets	Fishing upgraded with investment-appropriate adapting measures that reduce the vulnerability of that activity to multi-hazard impacts	Fishing assets more resilient to multi-hazard impacts	Adapted	Activity	Process-based	3203
Wholesale of agricultural produce	Selling / managing wholesale of	Wholesale of agricultural produce upgraded with investment-appropriate adapting measures that	Wholesale of agricultural produce more	Adapted	Activity	Process-based	3205

	agricultural produce	reduce the vulnerability of that activity to multi-hazard impacts	resilient to multi-hazard impacts					
Manufacture of food and beverage products	Manufacturing / managing manufacture of food and beverage products	Manufacture of food and beverage products upgraded with investment-appropriate adapting measures that reduce the vulnerability of that activity to multi-hazard impacts	Manufacture of food and beverage products more resilient to multi-hazard impacts	Adapted	Activity	Process-based	3206	

2. Construction

2.1. HAZARD: STORM DAMAGE

Division	Description	Expected effect	Expected result	Type	Level	Criteria type	Code
Commercial buildings	Constructing / renovating / managing commercial buildings	Buildings upgraded with investment-appropriate adapting measures that reduce the vulnerability of that activity to heat stress	Buildings more resilient to storm damage	Adapted	Activity	Process-based	1003
	Installation of Aerodynamic building design	Reduced physical vulnerability due to minimized wind resistance of building structure	Buildings more resilient to storm damage	Adapting	Measure	Quantitative	
	Installation of lightning rods	Reduced physical vulnerability due to protection against lightning strikes	Buildings more resilient to storm damage	Adapting	Measure	Whitelist	
	Strengthening of building structure	Reduced physical vulnerability due to	Buildings more resilient to storm damage	Adapting	Measure	Quantitative	

		enhanced overall structural integrity in strong winds					
	Strengthening of external fittings	Reduced physical vulnerability due to secured external components against high winds	Buildings more resilient to storm damage	Adapting	Measure	Quantitative	
	Strengthening of roofs	Reduced physical vulnerability due to increased resistance to wind uplift and debris impact	Buildings more resilient to storm damage	Adapting	Measure	Quantitative	
	Strengthening windows and doors	Reduced physical vulnerability due to reinforced openings against wind and flying debris	Buildings more resilient to storm damage	Adapting	Measure	Quantitative	
Community buildings including schools	Constructing / renovating / managing schools / other community buildings	Buildings upgraded with investment-appropriate adapting measures that reduce the vulnerability of that activity to storm damage	Buildings more resilient to storm damage	Adapted	Activity	Process-based	1012
	Design of aerodynamic building shapes	Reduced physical vulnerability due to minimized wind resistance of building structure	Buildings more resilient to storm damage	Adapting	Measure	Quantitative	
	Installation of lightning rods	Reduced physical vulnerability due to protection against lightning strikes	Buildings more resilient to storm damage	Adapting	Measure	Whitelist	
	Strengthening building structures	Reduced physical vulnerability due to enhanced overall structural integrity in strong winds	Buildings more resilient to storm damage	Adapting	Measure	Quantitative	

	Strengthening external fittings	Reduced physical vulnerability due to secured external components against high winds	Buildings more resilient to storm damage	Adapting	Measure	Quantitative	
	Strengthening roofs	Reduced physical vulnerability due to increased resistance to wind uplift and debris impact	Buildings more resilient to storm damage	Adapting	Measure	Quantitative	
	Strengthening windows and doors	Reduced physical vulnerability due to reinforced openings against wind and flying debris	Buildings more resilient to storm damage	Adapting	Measure	Quantitative	
	Expansion of community power hubs	Health worker training access extended with investment-appropriate adapting measures that reduce vulnerability to flood damage in activities beyond the investment	Other energy infrastructure activities more resilient to storm damage	Enabling	Measure	Process-based	2106
Hospitals and other healthcare buildings	Constructing / renovating / managing hospitals / other healthcare buildings	Buildings upgraded with investment-appropriate adapting measures that reduce the vulnerability of that activity to storm damage	Inhabitants and users of buildings more resilient to storm damage	Adapted	Activity	Process-based	1017
	Design of Aerodynamic building shape	Reduced physical vulnerability due to minimized wind resistance of building structure	Buildings more resilient to storm damage	Adapting	Measure	Quantitative	

	Installation of lightning rods	Reduced physical vulnerability due to protection against lightning strikes	Buildings more resilient to storm damage	Adapting	Measure	Whitelist	
	Strengthening external fittings	Reduced physical vulnerability due to secured external components against high winds	Buildings more resilient to storm damage	Adapting	Measure	Quantitative	
	Strengthening of building structure	Reduced physical vulnerability due to enhanced overall structural integrity in strong winds	Buildings more resilient to storm damage	Adapting	Measure	Quantitative	
	Strengthening of roofs	Reduced physical vulnerability due to increased resistance to wind uplift and debris impact	Buildings more resilient to storm damage	Adapting	Measure	Quantitative	
	Strengthening windows and doors	Reduced physical vulnerability due to reinforced openings against wind and flying debris	Buildings more resilient to storm damage	Adapting	Measure	Quantitative	
	Hospitals, clinics, nursing homes etc.	Expansion of telemedicine infrastructure	Telemedicine infrastructure extended with investment-appropriate adapting measures that reduce vulnerability to storm damage in activities beyond the investment	Other healthcare activities more resilient to storm damage	Enabling	Measure	Process-based 5103

Industrial buildings	Constructing / renovating / managing industrial buildings	Buildings upgraded with investment-appropriate adapting measures that reduce the vulnerability of that activity to storm damage	Inhabitants and users of buildings more resilient to storm damage	Adapted	Activity	Process-based	1026
	Design of aerodynamic building shape	Reduced physical vulnerability due to minimized wind resistance of building structure	Buildings more resilient to storm damage	Adapting	Measure	Quantitative	
	Installation of lightning rods	Reduced physical vulnerability due to protection against lightning strikes	Buildings more resilient to storm damage	Adapting	Measure	Whitelist	
	Strengthening of building structure	Reduced physical vulnerability due to enhanced overall structural integrity in strong winds	Buildings more resilient to storm damage	Adapting	Measure	Quantitative	
	Strengthening of external fittings	Reduced physical vulnerability due to secured external components against high winds	Buildings more resilient to storm damage	Adapting	Measure	Quantitative	
	Strengthening of roofs	Reduced physical vulnerability due to increased resistance to wind uplift and debris impact	Buildings more resilient to storm damage	Adapting	Measure	Quantitative	
	Strengthening of windows and doors	Reduced physical vulnerability due to	Buildings more resilient to storm damage	Adapting	Measure	Quantitative	

		reinforced openings against wind and flying debris					
Residential buildings	Constructing / renovating / managing residential buildings	Buildings upgraded with investment-appropriate adapting measures that reduce the vulnerability of that activity to storm damage	Buildings more resilient to storm damage	Adapted	Activity	Process-based	1035
	Design of aerodynamic building shapes	Reduced physical vulnerability due to minimized wind resistance of building structure	Buildings more resilient to storm damage	Adapting	Measure	Quantitative	
	Installation of lightning rods	Reduced physical vulnerability due to protection against lightning strikes	Buildings more resilient to storm damage	Adapting	Measure	Whitelist	
	Strengthening building structures	Reduced physical vulnerability due to enhanced overall structural integrity in strong winds	Buildings more resilient to storm damage	Adapting	Measure	Quantitative	
	Strengthening external fittings	Reduced physical vulnerability due to secured external components against high winds	Buildings more resilient to storm damage	Adapting	Measure	Quantitative	
	Strengthening roofs	Reduced physical vulnerability due to increased resistance to	Buildings more resilient to storm damage	Adapting	Measure	Quantitative	

		wind uplift and debris impact					
	Strengthening windows and doors	Reduced physical vulnerability due to reinforced openings	Buildings more resilient to storm damage	Adapting	Measure	Quantitative	
Urban planning and management	Constructing / renovating / managing urban developments	Urban systems upgraded with investment-appropriate adapting measures that reduce the vulnerability of that activity to storm damage	Urban planning and management more resilient to storm damage	Adapted	Activity	Process-based	1042
	Managing urban vegetation	Reduced physical vulnerability due to reduced risk of vegetation-related power line damage	Urban planning and management more resilient to storm damage	Adapting	Measure	Whitelist	
	Relocation of vulnerable assets	Reduced physical vulnerability due to relocation of assets away from high-risk storm zones	Urban planning and management more resilient to storm damage	Adapting	Measure	Whitelist	

2.2. HAZARD: FLOOD DAMAGE

Division	Description	Expected effect	Expected result	Type	Level	Criteria type	Code

Commercial buildings	Constructing / renovating / managing commercial buildings	Buildings upgraded with investment-appropriate adapting measures that reduce the vulnerability of that activity to flood damage	Buildings more resilient to flood damage	Adapted	Activity	Process-based	1005
	Installation of Adjusted drainage capacity	Reduced physical vulnerability due to increased water diversion and removal capacity	Buildings more resilient to flood damage	Adapting	Measure	Whitelist	
	Installation of adjusted roof design	Reduced physical vulnerability due to enhanced water shedding from roof surfaces	Buildings more resilient to flood damage	Adapting	Measure	Quantitative	
	Installation of Buoyant foundations	Reduced physical vulnerability due to building flotation during flood events	Buildings more resilient to flood damage	Adapting	Measure	Quantitative	
	Installation of Flood barriers and floodproofing	Reduced physical vulnerability due to prevention of water entry into structures	Buildings more resilient to flood damage	Adapting	Measure	Quantitative	
	Installation of Flood or leak detection and warning systems	Improved adaptive capacity due to early detection and warning of flood or water ingress	Buildings more resilient to flood damage	Adapting	Measure	Quantitative	
	Installation of Green roofs and/or walls	Reduced physical vulnerability due to improved water absorption and runoff reduction	Buildings more resilient to flood damage	Adapting	Measure	Quantitative	

	Installation of No-return valves	Reduced physical vulnerability due to prevention of sewage backflow during flooding	Buildings more resilient to flood damage	Adapting	Measure	Whitelist	
Community buildings including schools	Installation of Raised structure(s) and/or key equipment (e.g. electrical)	Reduced physical vulnerability due to elevation of critical systems above flood levels	Buildings more resilient to flood damage	Adapting	Measure	Whitelist	
	Installation of water-resistant materials	Reduced physical vulnerability due to minimized water damage to building materials	Buildings more resilient to flood damage	Adapting	Measure	Quantitative	
	Constructing / renovating / managing schools / other community buildings	Buildings upgraded with investment-appropriate adapting measures that reduce the vulnerability of that activity to flood damage	Buildings more resilient to flood damage	Adapted	Activity	Process-based	1010
	Constructing / renovating / managing schools / other community buildings	Buildings upgraded with investment-appropriate adapting measures that reduce the vulnerability of that activity to flood damage	Inhabitants and users of buildings more resilient to flood damage	Adapted	Activity	Process-based	
	Adjustment of drainage capacity	Reduced physical vulnerability due to increased water diversion and removal capacity	Buildings more resilient to flood damage	Adapting	Measure	Whitelist	

	Adjustment of roof design	Reduced physical vulnerability due to enhanced water shedding from roof surfaces	Buildings more resilient to flood damage	Adapting	Measure	Quantitative	
	Construction of buoyant foundation	Reduced physical vulnerability due to building flotation during flood events	Buildings more resilient to flood damage	Adapting	Measure	Quantitative	
	Installation of flood barriers and floodproofing	Reduced physical vulnerability due to prevention of water entry into structures	Buildings more resilient to flood damage	Adapting	Measure	Quantitative	
	Installation of flood or leak detection and warning systems	Improved adaptive capacity due to early detection and warning of flood or water ingress	Buildings more resilient to flood damage	Adapting	Measure	Quantitative	
	Installation of green roofs and/or walls	Reduced physical vulnerability due to improved water absorption and runoff reduction	Buildings more resilient to flood damage	Adapting	Measure	Quantitative	
	Installation of no-return valves	Reduced physical vulnerability due to prevention of sewage backflow during flooding	Buildings more resilient to flood damage	Adapting	Measure	Whitelist	
	Raising of structure(s) and/or key equipment (e.g. electrical)	Reduced physical vulnerability due to elevation of critical systems above flood levels	Buildings more resilient to flood damage	Adapting	Measure	Whitelist	

	Use of water-resistant materials	Reduced physical vulnerability due to minimized water damage to building materials	Buildings more resilient to flood damage	Adapting	Measure	Quantitative	
Hospitals and other healthcare buildings	Constructing / renovating / managing hospitals / other healthcare buildings	Buildings upgraded with investment-appropriate adapting measures that reduce the vulnerability of that activity to flood damage	Inhabitants and users of buildings more resilient to flood damage and extreme precipitation	Adapted	Activity	Process-based	1019
	Adjustment of drainage capacity	Reduced physical vulnerability due to increased water diversion and removal capacity	Buildings more resilient to flood damage	Adapting	Measure	Whitelist	
	Adjustment of roof design	Reduced physical vulnerability due to enhanced water shedding from roof surfaces	Buildings more resilient to flood damage	Adapting	Measure	Quantitative	
	Construction of buoyant foundation	Reduced physical vulnerability due to building flotation during flood events	Buildings more resilient to flood damage	Adapting	Measure	Quantitative	
	Installation of flood barriers and floodproofing	Reduced physical vulnerability due to prevention of water entry into structures	Buildings more resilient to flood damage	Adapting	Measure	Quantitative	
	Installation of flood or leak detection and warning systems	Improved adaptive capacity due to early detection and warning of flood or water ingress	Buildings more resilient to flood damage	Adapting	Measure	Quantitative	

	Installation of green roofs and/or walls	Reduced physical vulnerability due to improved water absorption and runoff reduction	Buildings more resilient to flood damage	Adapting	Measure	Quantitative	
	Installation of no-return valves	Reduced physical vulnerability due to prevention of sewage backflow during flooding	Buildings more resilient to flood damage	Adapting	Measure	Whitelist	
	Raising of structure(s) and/or key equipment (e.g. electrical)	Reduced physical vulnerability due to elevation of critical systems above flood levels	Buildings more resilient to flood damage	Adapting	Measure	Whitelist	
	Use of water-resistant materials	Reduced physical vulnerability due to minimized water damage to building materials	Buildings more resilient to flood damage	Adapting	Measure	Quantitative	
Industrial buildings	Constructing / renovating / managing industrial buildings	Buildings upgraded with investment-appropriate adapting measures that reduce the vulnerability of that activity to flood damage	Buildings more resilient to flood damage	Adapted	Activity	Process-based	1025
	Construction of flood-resistant transportation infrastructure	Reduced physical vulnerability due to flood-resistant design of transportation infrastructure	Logistics more resilient to flood damage	Adapted	Activity	Process-based	
	Development of transportation and logistics risk management	Buildings upgraded with investment-appropriate adapting measures that reduce the vulnerability of that activity to flood damage	Logistics more resilient to flood damage	Adapted	Activity	Process-based	

	Construction of flood barriers, drainage, and floodproofing measures for buildings and facilities	Reduced physical vulnerability due to comprehensive flood protection for buildings and facilities	Manufacturing operations more resilient to flood damage	Adapted	Activity	Process-based	
	Constructing / renovating / managing manufacturing assets	Buildings upgraded with investment-appropriate adapting measures that reduce the vulnerability of that activity to flood damage	Manufacturing operations more resilient to flood damage	Adapted	Activity	Process-based	
	Adjustment of drainage capacity	Reduced physical vulnerability due to increased water diversion and removal capacity	Buildings more resilient to flood damage	Adapting	Measure	Whitelist	
	Adjustment of roof design	Reduced physical vulnerability due to enhanced water shedding from roof surfaces	Buildings more resilient to flood damage	Adapting	Measure	Quantitative	
	Conducting identification and prioritisation of critical transportation routes and hubs	Improved adaptive capacity due to strategic flood resilience planning for critical transport routes	Logistics more resilient to flood damage	Adapting	Measure	Whitelist	
	Construction of buoyant foundation	Reduced physical vulnerability due to building flotation during flood events	Buildings more resilient to flood damage	Adapting	Measure	Quantitative	

	Development of flood emergency response plans and protocols	Improved adaptive capacity due to organized flood response and evacuation procedures	Manufacturing operations more resilient to flood damage	Adapting	Measure	Whitelist	
	Development of redundant and alternative transportation options	Improved adaptive capacity due to alternative transportation routes during flooding	Logistics more resilient to flood damage	Adapting	Measure	Whitelist	
	Implementation of optimised logistics network configuration	Reduced physical vulnerability due to minimised flood exposure in supply chain networks	Logistics more resilient to flood damage	Adapting	Measure	Whitelist	
	Installation of elevated critical equipment and assets above flood levels	Reduced physical vulnerability due to protection of essential equipment from flood damage	Manufacturing operations more resilient to flood damage	Adapting	Measure	Quantitative	
	Installation of flood barriers and floodproofing	Reduced physical vulnerability due to prevention of water entry into structures	Buildings more resilient to flood damage	Adapting	Measure	Quantitative	
	Installation of flood or leak detection and warning systems	Improved adaptive capacity due to early detection and warning of flood or water ingress	Buildings more resilient to flood damage	Adapting	Measure	Quantitative	

	Installation of green roofs and/or walls	Reduced physical vulnerability due to improved water absorption and runoff reduction	Buildings more resilient to flood damage	Adapting	Measure	Quantitative	
	Installation of no-return valves	Reduced physical vulnerability due to prevention of sewage backflow during flooding	Buildings more resilient to flood damage	Adapting	Measure	Whitelist	
	Raising of structure(s) and/or key equipment (e.g. electrical)	Reduced physical vulnerability due to elevation of critical systems above flood levels	Buildings more resilient to flood damage	Adapting	Measure	Whitelist	
	Use of water-resistant materials	Reduced physical vulnerability due to minimized water damage to building materials	Buildings more resilient to flood damage	Adapting	Measure	Quantitative	
Residential buildings	Constructing / renovating / managing residential buildings	Buildings upgraded with investment-appropriate adapting measures that reduce the vulnerability of that activity to flood damage	Inhabitants and users of buildings more resilient to flood damage	Adapted	Activity	Process-based	1033
	Adjustment of drainage capacity	Reduced physical vulnerability due to increased water diversion and removal capacity	Buildings more resilient to flood damage	Adapting	Measure	Whitelist	
	Adjustment of roof design	Reduced physical vulnerability due to enhanced water shedding from roof surfaces	Buildings more resilient to flood damage	Adapting	Measure	Quantitative	
	Construction of buoyant foundation	Reduced physical vulnerability due to building flotation during flood events	Buildings more resilient to flood damage	Adapting	Measure	Quantitative	

	Installation of flood barriers and floodproofing	Reduced physical vulnerability due to prevention of water entry into structures	Buildings more resilient to flood damage	Adapting	Measure	Quantitative	
	Installation of flood or leak detection and warning systems	Improved adaptive capacity due to early detection and warning of flood or water ingress	Buildings more resilient to flood damage	Adapting	Measure	Quantitative	
	Installation of green roofs and/or walls	Reduced physical vulnerability due to improved water absorption and runoff reduction	Buildings more resilient to flood damage	Adapting	Measure	Quantitative	
	Installation of no-return valves	Reduced physical vulnerability due to prevention of sewage backflow during flooding	Buildings more resilient to flood damage	Adapting	Measure	Whitelist	
	Raising of structure(s) and/or key equipment (e.g. electrical)	Reduced physical vulnerability due to elevation of critical systems above flood levels	Buildings more resilient to flood damage	Adapting	Measure	Whitelist	
	Use of water-resistant materials	Reduced physical vulnerability due to minimized water damage to building materials	Buildings more resilient to flood damage	Adapting	Measure	Quantitative	
	Constructing / renovating / managing urban developments	Urban systems upgraded with investment-appropriate adapting measures that reduce the vulnerability of that activity to flood damage	Urban planning and management more resilient to flood damage	Adapted	Activity	Process-based	1040
	Creation of urban green spaces	Reduced physical vulnerability due to increased urban water absorption and cooling	Urban planning and management more resilient to flood damage	Adapting	Measure	Quantitative	

	Installation of bioswales and rain gardens	Reduced physical vulnerability due to natural water filtration and flood mitigation	Urban planning and management more resilient to flood damage	Adapting	Measure	Quantitative	
	Installation of permeable paving and other external surfaces	Reduced physical vulnerability due to increased ground water absorption capacity	Urban planning and management more resilient to flood damage	Adapting	Measure	Whitelist	
	Landscaping to manage surface run-off	Reduced physical vulnerability due to controlled water flow across landscaped areas	Urban planning and management more resilient to flood damage	Adapting	Measure	Whitelist	
	Relocation of vulnerable assets	Reduced physical vulnerability due to strategic relocation of flood-prone assets	Urban planning and management more resilient to flood damage	Adapting	Measure	Quantitative	

2.3. HAZARD: MASS MOVEMENT DAMAGE (INCLUDING LANDSLIDES)

Division	Description	Expected effect	Expected result	Type	Level	Criteria type	Code
Commercial buildings	Constructing / renovating / managing commercial buildings	Buildings upgraded with investment-appropriate adapting measures that reduce the vulnerability of that activity to mass movement damage	Buildings more resilient to solid mass movement damage	Adapted	Activity	Process-based	1004

	Strengthened foundations	Reduced physical vulnerability due to enhanced structural stability against ground movement	Buildings more resilient to solid mass movement damage	Adapting	Measure	Quantitative	
	Strengthening of building structure	Reduced physical vulnerability due to increased overall building resistance to landslide forces	Buildings more resilient to solid mass movement damage	Adapting	Measure	Quantitative	
Community buildings including schools	Constructing / renovating / managing schools / other community buildings	Buildings upgraded with investment-appropriate adapting measures that reduce the vulnerability of that activity to mass movement damage	Buildings more resilient to solid mass movement damage	Adapted	Activity	Process-based	1011
	Installation of movement joints	Reduced physical vulnerability due to improved building flexibility during soil shifts	Buildings more resilient to solid mass movement damage	Adapting	Measure	Quantitative	
	Strengthening building structures	Reduced physical vulnerability due to increased overall building resistance to landslide forces	Buildings more resilient to solid mass movement damage	Adapting	Measure	Quantitative	
	Strengthening foundations	Reduced physical vulnerability due to enhanced structural stability against ground movement	Buildings more resilient to solid mass movement damage	Adapting	Measure	Quantitative	
	Constructing / renovating / managing hospitals / other	Buildings upgraded with investment-appropriate adapting measures that reduce the vulnerability of that activity to mass movement damage	Inhabitants and users of buildings more resilient to mass movement damage	Adapted	Activity	Process-based	1018

	healthcare buildings						
	Installation of movement joints	Reduced physical vulnerability due to improved building flexibility during soil shifts	Buildings more resilient to solid mass movement damage	Adapting	Measure	Quantitative	
	Strengthened foundations	Reduced physical vulnerability due to enhanced structural stability against ground movement	Buildings more resilient to solid mass movement damage	Adapting	Measure	Quantitative	
	Strengthening of building structure	Reduced physical vulnerability due to increased overall building resistance to landslide forces	Buildings more resilient to solid mass movement damage	Adapting	Measure	Quantitative	
Industrial buildings	Constructing / renovating / managing industrial buildings	Buildings upgraded with investment-appropriate adapting measures that reduce the vulnerability of that activity to mass movement damage	Buildings more resilient to solid mass movement damage	Adapted	Activity	Process-based	1028
	Installation of movement joints	Reduced physical vulnerability due to improved building flexibility during soil shifts	Buildings more resilient to solid mass movement damage	Adapting	Measure	Quantitative	
	Strengthening building structures	Reduced physical vulnerability due to increased overall building resistance to landslide forces	Buildings more resilient to solid mass movement damage	Adapting	Measure	Quantitative	

	Strengthening foundations	Reduced physical vulnerability due to enhanced structural stability against ground movement	Buildings more resilient to solid mass movement damage	Adapting	Measure	Quantitative	
Residential buildings	Constructing / renovating / managing residential buildings	Buildings upgraded with investment-appropriate adapting measures that reduce the vulnerability of that activity to mass movement damage	Buildings more resilient to solid mass movement damage	Adapted	Activity	Process-based	1034
	Constructing / renovating / managing residential buildings	Buildings upgraded with investment-appropriate adapting measures that reduce the vulnerability of that activity to mass movement damage	Inhabitants and users of buildings more resilient to mass movement damage	Adapted	Activity	Process-based	
	Installation of movement joints	Reduced physical vulnerability due to improved building flexibility during soil shifts	Buildings more resilient to solid mass movement damage	Adapting	Measure	Quantitative	
	Strengthening building structures	Reduced physical vulnerability due to increased overall building resistance to landslide forces	Buildings more resilient to solid mass movement damage	Adapting	Measure	Quantitative	
	Strengthening foundations	Reduced physical vulnerability due to enhanced structural stability against ground movement	Buildings more resilient to solid mass movement damage	Adapting	Measure	Quantitative	
Urban planning and management	Constructing / renovating / managing	Urban systems upgraded with investment-appropriate adapting measures that reduce the	Urban planning and management more resilient to	Adapted	Activity	Process-based	1041

	urban developments	vulnerability of that activity to mass movement damage	mass movement damage				
	Managing passive landslides	Reduced physical vulnerability due to controlled movement of unstable slopes	Urban planning and management more resilient to mass movement damage	Adapting	Measure	Quantitative	
	Relocation of vulnerable assets	Reduced physical vulnerability due to relocation of assets away from high-risk landslide zones	Urban planning and management more resilient to mass movement damage	Adapting	Measure	Whitelist	

3. Community Services

3.1. HAZARD: FLOOD DAMAGE

Division	Investment	Expected effect	Expected result	Type	Level	Criteria type	Code
Disaster preparedness	Creation of evacuation strategies	Improved adaptive capacity due to efficient movement of people away from rising floodwaters	Communities more resilient to the impacts of flood damage	Adapting	Measure	Qualitative	4009
	Deployment of smart emergency response teams	Improved adaptive capacity due to coordinated multi-agency flood rescue and relief operations	Communities more resilient to the impacts of flood damage	Adapting	Measure	Qualitative	

Hospitals, clinics, nursing homes etc.	Development or upgrade of health infrastructure operations	Healthcare facility upgraded with investment-appropriate adapting measures that reduce the vulnerability of that activity to flood damage	Healthcare operations more resilient to flood damage	Adapted	Activity	Process-based	5002
	Provision of non-ground floor treatment and ward facilities	Reduced physical vulnerability due to continuity of critical care services above flood levels	Healthcare operations more resilient to flood damage	Adapting	Measure	Quantitative	
	Provision of reliable cleaning and sanitation services	Reduced health vulnerability due to prevention of waterborne disease spread in flooded areas	Healthcare operations more resilient to flood damage	Adapting	Measure	Quantitative	
Delivery of treatment and care	Development of communication strategy for disseminating essential information on climate risks to mental health	Improved adaptive capacity due to reduced panic and improved coping strategies during flood events	Individuals, household or communities with better health outcomes after flood damage	Adapting	Measure	Whitelist	4007
	Provision of counselling and mental health services for individuals dealing with climate-induced trauma and stress	Reduced mental health vulnerability due to mitigation of post-flood anxiety and depression	Individuals, household or communities more able to cope with stresses caused by flood damage	Adapting	Measure	Whitelist	
	Provision of quality health services for	Reduced health vulnerability due to continuity of medical	Individuals, household or communities with	Adapting	Measure	Whitelist	

	vulnerable populations	treatments during flood evacuations	better health outcomes after flood damage				
	Provision of training to health managers on the effective integration of MPHSS into their climate change and health plans and strategies	Improved adaptive capacity due to integration of flood-specific mental health protocols in healthcare systems	Individuals, household or communities more able to cope with stresses caused by flood damage	Adapting	Measure	Whitelist	
	Provision of training to local healthcare and social workers to deliver basic psychosocial support to affected communities	Improved adaptive capacity due to community-level emotional support during flood recovery phases	Individuals, household or communities more able to cope with stresses caused by flood damage	Adapting	Measure	Whitelist	
	Provision and access to healthcare services for vulnerable populations	Climate resilience solution developed or provided that is expected to increase the climate resilience of other activities to flood damage	Individuals, household or communities with better health outcomes after flood damage	Enabling	Activity	Process-based	
	Expansion of mobile health clinics	Climate-resilient evacuation routes extended with investment-appropriate adapting measures that reduce vulnerability to flood damage in activities beyond the investment	Other delivery of treatment and care activities more resilient to flood damage	Enabling	Measure	Process-based	5102

Healthcare system resilience capacity building	Development of community-tailored training materials and evidence-base	Improved adaptive capacity due to maintenance of healthcare staffing during flood evacuations	Healthcare operations more resilient to flood damage	Adapting	Measure	Whitelist	5008
	Development of curriculum design for health worker roles during emergencies	Improved adaptive capacity due to tailored flood preparedness strategies for local health risks	Healthcare services better able to treat the negative health effects of flood damage	Adapting	Measure	Whitelist	
	Implementation of monitoring systems, participant tracking, competency assessments for training outcomes	Improved adaptive capacity due to clear delegation of responsibilities in flood emergency healthcare	Healthcare services better able to treat the negative health effects of flood damage	Adapting	Measure	Quantitative	
	Provision of accreditation pathways for training programs	Climate-resilient evacuation routes extended with investment-appropriate adapting measures that reduce vulnerability to flood damage in activities beyond the investment	Other delivery of treatment and care activities more resilient to flood damage	Adapting	Measure	Process-based	
	Provision of advanced specialized training for flood conditions	Improved adaptive capacity due to consistent quality of flood-related healthcare across providers	Healthcare services better able to treat the negative health effects of flood damage	Adapting	Measure	Whitelist	
	Provision of hands-on training using tools/equipment	Improved adaptive capacity due to effective management	Healthcare services better able to treat the negative health	Adapting	Measure	Whitelist	

		of health risks specific to urban flooding	effects of flood damage				
	Providing access to training for health workers in vulnerable contexts	Improved adaptive capacity due to data-driven improvements in flood-related healthcare delivery	Healthcare services better able to treat the negative health effects of flood damage	Enabling	Activity	Qualitative	
Emergency health services	Deployment of pop-up health facilities in alternative locations	Improved adaptive capacity due to rapid deployment of medical services to flood-isolated areas	Healthcare operations more resilient to flood damage	Adapting	Measure	Whitelist	5016
	Development of patient evacuation plans	Improved adaptive capacity due to safe relocation of patients from flood-threatened hospitals	Healthcare operations more resilient to flood damage	Adapting	Measure	Whitelist	
	Installation of backup power for emergency/essential treatment equipment	Reduced health vulnerability due to protection of vital medical equipment from flood damage	Healthcare operations more resilient to flood damage	Adapting	Measure	Quantitative	
	Development of emergency services response strategies for vulnerable populations	Improved adaptive capacity due to prioritized assistance for elderly and disabled during flood evacuations	Health workers more able to respond rapidly to wildfire damage	Adapting	Measure	Whitelist	
	Distribution of relief kits and emergency first aid supplies	Reduced health vulnerability due to timely distribution of water purification and disease prevention supplies	Health workers more able to respond rapidly to wildfire damage	Adapting	Measure	Quantitative	

	Implementation of rapid response strategies	Improved adaptive capacity due to rapid medical response in hard-to-reach flooded areas	Health workers more able to respond rapidly to wildfire damage	Adapting	Measure	Whitelist	
	Implementation of reduced transit times	Improved adaptive capacity due to reduced emergency response times in flooded urban areas	Health workers more able to respond rapidly to wildfire damage	Adapting	Measure	Quantitative	
	Provision of all-terrain/tough vehicles	Improved adaptive capacity due to access to patients in flooded areas with compromised roads	Health workers more able to respond rapidly to wildfire damage	Adapting	Measure	Whitelist	
	Provision of tough portable equipment	Improved adaptive capacity due to functionality of medical equipment in wet and humid conditions	Health workers more able to respond rapidly to wildfire damage	Adapting	Measure	Whitelist	
Disaster risk reduction	Distribution of relief kits and emergency supplies	Reduced physical vulnerability due to provision of clean water and food during flood isolations	Communities more resilient to the impacts of flood damage	Adapting	Measure	Quantitative	4009
	Installation of backup power supplies / storage	Improved adaptive capacity due to operation of critical medical equipment during flood-induced blackouts	Communities more resilient to the impacts of flood damage	Adapting	Measure	Quantitative	
	Installation of in-shelter sanitation solutions	Reduced health vulnerability due to prevention of sanitation-related	More people with access to refuge from flood damage	Adapting	Measure	Qualitative	

		diseases in flood shelters					
	Provision of accessible shelters for the disabled	Reduced physical vulnerability due to safe evacuation of mobility-impaired individuals from floodwaters	More people with access to refuge from flood damage	Adapting	Measure	Qualitative	
	Provision of sufficient sanitary products for women and girls	Reduced health vulnerability due to maintenance of feminine hygiene in prolonged flood events	More people with access to refuge from flood damage	Adapting	Measure	Quantitative	
	Stockpiling of food	Reduced physical vulnerability due to prevention of food shortages in flood-isolated communities	Communities more resilient to the impacts of flood damage	Adapting	Measure	Quantitative	
	Stockpiling of supplies of relevant medicines and first aid resources	Reduced health vulnerability due to treatment of flood-related injuries and waterborne diseases	Communities more resilient to the impacts of flood damage	Adapting	Measure	Quantitative	
	Stockpiling of water	Reduced physical vulnerability due to prevention of waterborne disease outbreaks after flooding	Communities more resilient to the impacts of flood damage	Adapting	Measure	Quantitative	
	Development of disaster preparedness and response strategies and provisions for vulnerable populations	Climate resilience solution developed or provided that is expected to increase the climate resilience of other activities to flood damage	Communities more resilient to the impacts of flood damage	Enabling	Activity	Process-based	

	Provision, upgrade or expansion of evacuation / shelter facilities	Climate resilience solution developed or provided that is expected to increase the climate resilience of other activities to flood damage	More people with access to refuge from flood damage	Enabling	Activity	Process-based	
	Maintenance and restoration of ecosystem-based assets in community contexts	Climate resilience solution developed or provided that is expected to increase the climate resilience of other activities to flood damage	Individuals, households or communities more resilient to flood damage	Enabling	Activity	Process-based	
Livelihood support	Provision of accessible women's health clinics during and after extreme climate events	Reduced health vulnerability due to continuity of prenatal and postpartum care during floods	Individuals, household or communities with better health outcomes after flood damage	Adapting	Measure	Whitelist	4015

3.2. HAZARD: MASS MOVEMENT DAMAGE (INCLUDING LANDSLIDES)

Division	Investment	Expected effect	Expected result	Type	Level	Criteria type	Code
Disaster risk reduction	Creation of evacuation strategies	Improved adaptive capacity due to organized community evacuation procedures for mass movement threats	Individuals, household or communities more resilient to mass movement damage	Adapting	Measure	Qualitative	4011
	Deployment of smart emergency response teams	Improved adaptive capacity due to rapid and targeted emergency response in mass movement events	Communities more resilient to the impacts of mass movement damage	Adapting	Measure	Qualitative	

	Distribution of relief kits and emergency supplies	Reduced physical vulnerability due to immediate access to essential supplies during landslide emergencies	Communities more resilient to the impacts of mass movement damage	Adapting	Measure	Quantitative	
	Installation of backup power supplies / storage	Improved adaptive capacity due to maintained power supply during landslide-induced outages	Individuals, household or communities more resilient to mass movement damage	Adapting	Measure	Quantitative	
	Installation of in-shelter sanitation solutions	Reduced health vulnerability due to proper sanitation facilities in landslide evacuation shelters	Individuals, household or communities more resilient to mass movement damage	Adapting	Measure	Qualitative	
	Provision of accessible shelters for the disabled	Reduced physical vulnerability due to safe refuge for disabled individuals during landslide threats	Individuals, household or communities more resilient to mass movement damage	Adapting	Measure	Qualitative	
	Provision of sufficient sanitary products for women and girls	Reduced health vulnerability due to access to essential hygiene products for women and girls in evacuation scenarios	Individuals, household or communities more resilient to mass movement damage	Adapting	Measure	Quantitative	
	Stockpiling of food	Reduced physical vulnerability due to secured food supply during prolonged landslide events	Individuals, household or communities more resilient to mass movement damage	Adapting	Measure	Quantitative	
	Stockpiling of supplies of relevant medicines and	Reduced health vulnerability due to availability of critical medications during landslide-induced isolations	Individuals, household or communities more	Adapting	Measure	Quantitative	

	first aid resources		resilient to mass movement damage				
	Stockpiling of water	Reduced physical vulnerability due to ensured access to clean water during mass movement events	Individuals, household or communities more resilient to mass movement damage	Adapting	Measure	Quantitative	
	Development of disaster preparedness and response strategies and provisions for vulnerable populations	Climate resilience solution developed or provided that is expected to increase the climate resilience of other activities to mass movement damage	Individuals, household or communities more resilient to mass movement damage	Enabling	Activity	Process-based	
Livelihood support	Provision of short-term food assistance programs	Reduced nutritional vulnerability due to provision of food assistance during landslide displacements	Communities more resilient to disruption from mass movement damage	Adapting	Measure	Quantitative	4017
	Provision of accessible women's health clinics during and after extreme climate events	Reduced health vulnerability due to continuity of prenatal and postpartum care during floods	Individuals, household or communities with better health outcomes after flood damage	Adapting	Measure	Whitelist	4015
Social assistance	Development of direct cash programmes for vulnerable communities	Reduced socioeconomic vulnerability due to financial support for landslide-vulnerable communities	Individuals, household or communities more resilient to mass movement damage	Adapting	Measure	Quantitative	4022
	Increasing coverage of progressive social safety	Progressive social safety net programs extended with investment-appropriate adapting measures that	Other social assistance programmes more	Enabling	Measure	Process-based	

	net programs for vulnerable populations	reduce vulnerability to Mass Movement Damage in activities beyond the investment	resilient to mass movement damage				
	Provision or expansion of targeted social assistance schemes	Targeted social assistance schemes extended with investment-appropriate adapting measures that reduce vulnerability to Mass Movement Damage in activities beyond the investment	Other social assistance programmes more resilient to mass movement damage	Enabling	Measure	Process-based	
	Provision of emergency housing and shelter assistance for families displaced	Reduced physical vulnerability due to temporary housing for families displaced by landslides	Individuals, household or communities more resilient to mass movement damage	Adapting	Measure	Quantitative	
	Provision of short-term cash assistance programs	Reduced socioeconomic vulnerability due to short-term financial aid during landslide displacements	Individuals, household or communities more resilient to mass movement damage	Adapting	Measure	Quantitative	
	Provision of vouchers for emergency supplies	Reduced physical vulnerability due to access to essential supplies during mass movement events	Individuals, household or communities more resilient to mass movement damage	Adapting	Measure	Quantitative	
	Provision or expansion of social assistance schemes that support climate	Climate resilience solution developed or provided that is expected to increase the climate resilience of other activities to mass movement damage	Other business continuity activities more resilient to mass movement damage	Enabling	Activity	Process-based	

	risk management						
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3.3. HAZARD: MULTI-HAZARD

Division	Investment	Expected effect	Expected result	Type	Level	Criteria type	Code
Hospitals, clinics, nursing homes etc.	Conducting surveillance of disease vectors and changing distribution	Improved adaptive capacity due to tracking of disease vector distribution changes over time	Individuals, household or communities more resilient to health risks during vector borne disease outbreaks, epidemics, or pandemics	Adapting	Measure	Whitelist	5004
	Implementation of epidemiological monitoring systems	Improved adaptive capacity due to early detection and monitoring of disease outbreaks	Individuals, household or communities more resilient to health risks during vector borne disease outbreaks, epidemics, or pandemics	Adapting	Measure	Whitelist	
	Implementation of epidemiological monitoring systems	Improved adaptive capacity due to early detection and monitoring of disease outbreaks	Individuals, household or communities more resilient to health risks during water borne disease outbreaks, epidemics, or pandemics	Adapting	Measure	Whitelist	
	Implementation of integrated vector control programs	Reduced health vulnerability due to comprehensive approach to vector control across threats	Individuals, household or communities more resilient to health risks during vector borne disease outbreaks, epidemics, or pandemics	Adapting	Measure	Whitelist	
	Provision of bed nets	Reduced health vulnerability due to protection against vector-borne diseases in multiple contexts	Individuals, household or communities more resilient to health risks during vector borne disease outbreaks, epidemics, or pandemics	Adapting	Measure	Whitelist	

	Provision of secure household water supply services	Reduced health vulnerability due to consistent access to clean water during various crisis scenarios	Individuals, household or communities more resilient to health risks during water borne disease outbreaks, epidemics, or pandemics	Adapting	Measure	Whitelist	
	Installation of covered drainage systems	Reduced health vulnerability due to reduced exposure to contaminated water in flood events	Individuals, household or communities more resilient to health risks during water borne disease outbreaks, epidemics, or pandemics	Adapting	Measure	Quantitative	
	Provision of sewage connections and treatment services	Reduced health vulnerability due to improved wastewater management in various disaster scenarios	Individuals, household or communities more resilient to health risks during water borne disease outbreaks, epidemics, or pandemics	Adapting	Measure	Quantitative	
	Operating / managing hospitals, clinics, nursing homes etc.	Mobile health clinics extended with investment-appropriate adapting measures that reduce vulnerability to flood damage in activities beyond the investment	Hospitals, clinics, nursing homes etc. more resilient to multi-hazard impacts	Adapted	Activity	Process-based	5200
Delivery of treatment and care	Provision of community education on prevention	Reduced health vulnerability due to increased public awareness of disease prevention strategies	Individuals, household or communities more resilient to health risks during vector borne disease outbreaks, epidemics, or pandemics	Adapting	Measure	Whitelist	5010
	Development of illness and disease risk	Climate resilience solution developed or provided that is	Individuals, household or communities more resilient to health risks	Enabling	Activity	Process-based	

	reduction interventions	expected to increase the climate resilience of other activities to multi-hazard impacts	during water borne disease outbreaks, epidemics, or pandemics				
	Delivering / managing treatment and care	Delivery of treatment and care upgraded with investment-appropriate adapting measures that reduce the vulnerability of that activity to multi-hazard impacts	Treatment and care more resilient to multi-hazard impacts	Adapted	Activity	Process-based	5201
Emergency health services	Providing / managing emergency health services	Emergency health services upgraded with investment-appropriate adapting measures that reduce the vulnerability of that activity to multi-hazard impacts	Emergency health services more resilient to multi-hazard impacts	Adapted	Activity	Process-based	5202
Disaster risk reduction	Constructing, developing, or upgrading disaster risk reduction facilities, equipment	Public administration approach upgraded with investment-appropriate adapting measures that reduce the vulnerability of that activity to multi-hazard impacts	Disaster risk reduction facilities, equipment more resilient to multi-hazard impacts	Adapted	Activity	Process-based	4065
	Developing / improving policies for disaster risk reduction	Disaster risk reduction upgraded with investment-appropriate adapting measures that reduce the vulnerability of that	Policies for disaster risk reduction more resilient to multi-hazard impacts	Adapted	Activity	Process-based	4205

		activity to multi-hazard impacts					
Livelihoods support	Expansion of climate-resilient livelihood programs	Livelihood support programs extended with investment-appropriate adapting measures that reduce vulnerability to multi-hazard impacts in activities beyond the investment	Other livelihood support activities more resilient to multi-hazard impacts	Enabling	Measure	Process-based	4107
	Providing / managing livelihoods support	Livelihoods support upgraded with investment-appropriate adapting measures that reduce the vulnerability of that activity to multi-hazard impacts	Livelihoods support more resilient to multi-hazard impacts	Adapted	Activity	Process-based	4203
Maintaining national security	Constructing, developing, or upgrading national defence facilities, strategic stockpiles, specialised equipment	Public administration approach upgraded with investment-appropriate adapting measures that reduce the vulnerability of that activity to multi-hazard impacts	National defence facilities, strategic stockpiles, specialised equipment more resilient to multi-hazard impacts	Adapted	Activity	Process-based	4060
	Expansion of climate risk assessment in national security planning	National security planning extended with investment-appropriate adapting measures that reduce vulnerability to multi-	Other national security activities more resilient to multi- hazard impacts	Enabling	Measure	Process-based	4108

		hazard impacts in activities beyond the investment					
	Maintaining national security	Maintaining national security upgraded with investment-appropriate adapting measures that reduce the vulnerability of that activity to multi-hazard impacts	National security more resilient to multi-hazard impacts	Adapted	Activity	Process-based	4204
Social assistance	Providing / managing social assistance	Social assistance upgraded with investment-appropriate adapting measures that reduce the vulnerability of that activity to multi-hazard impacts	Social assistance more resilient to multi-hazard impacts	Adapted	Activity	Process-based	4202

4. Energy

4.1. HAZARD: HEAT STRESS

Division	Investment	Expected effect	Expected result	Type	Level	Criteria type	Code
Bioenergy generation	Constructing / expanding / operating / upgrading biomass power generation facilities, equipment	Infrastructure asset upgraded with investment-appropriate adapting measures that reduce the vulnerability of that activity to heat stress	Biomass power generation facilities and equipment more resilient to heat stress	Adapted	Activity	Process-based	2060
Geothermal generation	Constructing / expanding / operating / upgrading	Infrastructure asset upgraded with investment-appropriate	Access to electricity more resilient to	Adapted	Activity	Process-based	2003

	[low carbon] thermal power plants	adapting measures that reduce the vulnerability of that activity to heat stress	disruptions from heat stress				
	Constructing / expanding / operating / upgrading [low carbon] thermal power plants	Infrastructure asset upgraded with investment-appropriate adapting measures that reduce the vulnerability of that activity to heat stress	Thermal power generation more resilient to heat stress	Adapted	Activity	Process-based	
	Installation of resized cooling units	Reduced physical vulnerability due to properly sized air conditioning systems	Thermal power generation more resilient to heat stress	Adapting	Measure	Quantitative	
Solar power generator	Constructing / expanding / operating / upgrading solar power generation facilities, equipment	Infrastructure asset upgraded with investment-appropriate adapting measures that reduce the vulnerability of that activity to heat stress	Solar power generation facilities and equipment more resilient to heat stress	Adapted	Activity	Process-based	2050

4.2. HAZARD: FLOOD DAMAGE

Division	Investment	Expected effect	Expected result	Type	Level	Criteria type	Code
Electricity transmission, distribution and storage	Constructing / expanding / operating / upgrading power transmission and distribution systems	Infrastructure asset upgraded with investment-appropriate adapting measures that reduce the vulnerability of that activity to flood damage	Power transmission and distribution more resilient to flood damage	Adapted	Activity	Process-based	2001
	Installing flood defences in substations	Reduced physical vulnerability due to fortified electrical substations against flooding	Power transmission and distribution more resilient to multi-hazard impacts	Adapting	Measure	Quantitative	

	Installing underground transmission / distribution lines	Reduced physical vulnerability due to protection of power lines from flood damage	Power transmission and distribution more resilient to flood damage	Adapting	Measure	Quantitative	
	Mechanically strengthening transmission and distribution lines	Reduced physical vulnerability due to reinforced power distribution infrastructure	Power transmission and distribution more resilient to flood damage	Adapting	Measure	Quantitative	
Hydropower generation	Constructing / expanding / operating / upgrading hydropower plants	Infrastructure asset upgraded with investment-appropriate adapting measures that reduce the vulnerability of that activity to flood damage	Hydropower generation more resilient to flood damage	Adapted	Activity	Process-based	2005
	Constructing / expanding / operating / upgrading hydropower plants	Improved adaptive capacity due to adjusted power generation to flood conditions	Hydropower generation more resilient to flood damage	Adapted	Activity	Process-based	
	Adjustment of reservoir capacity	Improved adaptive capacity due to adjusted power generation to flood conditions	Hydropower generation more resilient to flood damage	Adapting	Measure	Whitelist	
	Adjustment of turbine capacity	Improved adaptive capacity due to advanced flood prediction and response systems	Hydropower generation more resilient to flood damage	Adapting	Measure	Whitelist	
	Implementation of monitoring, forecasting and modelling systems	Reduced physical vulnerability due to enhanced hydropower plant resilience to flooding	Operations more resilient to flood damage	Adapting	Measure	Quantitative	

	Installing safety and emergency systems in hydropower plants	Reduced physical vulnerability due to relocation of power generation away from flood zones	Power generation more resilient to flood damage	Adapting	Measure	Whitelist	
	Relocating power plant facilities	Infrastructure asset upgraded with investment-appropriate adapting measures that reduce the vulnerability of that activity to flood damage	Access to electricity more resilient to disruption from flood damage	Adapting	Measure	Quantitative	
Wind power generation	Constructing / expanding / operating / upgrading wind power facilities	Infrastructure asset upgraded with investment-appropriate adapting measures that reduce the vulnerability of that activity to flood damage	Wind power generation more resilient to flood damage	Adapted	Activity	Process-based	2008
	Constructing / expanding / operating / upgrading wind power facilities	Infrastructure asset upgraded with investment-appropriate adapting measures that reduce the vulnerability of that activity to flood damage	Wind power generation more resilient to flood damage	Adapted	Activity	Process-based	
	Installing wind power facility flood defences	Reduced physical vulnerability due to flood-resistant wind power installations	Access to electricity more resilient to disruption from flood damage	Adapting	Measure	Quantitative	
	Mechanically strengthening towers	Reduced physical vulnerability due to strengthened power transmission structures	Wind power generation more resilient to flood damage	Adapting	Measure	Quantitative	

5. Environmental Protection and Restoration

5.1. HAZARD: HEAT STRESS

Division	Investment	Expected effect	Expected result	Type	Level	Criteria type	Code
Freshwater biodiversity	Protecting and managing wildlife habitats	Ecological system upgraded with investment-appropriate adapting measures that reduce the vulnerability of that activity to heat stress	Natural habitats more resilient to heat stress	Adapted	Activity	Process-based	6001
	Conducting identification and modelling of cold-water fish habitat	Improved adaptive capacity due to identification of thermal refuges for cold-water species	Natural habitats more resilient to heat stress	Adapting	Measure	Whitelist	
Freshwater ecosystems	Conducting mapping analytics on groundwater inputs providing cold water habitat in cold water lakes	Improved adaptive capacity due to targeted protection of critical cold-water sources	Natural habitats more resilient to heat stress	Adapting	Measure	Whitelist	6006
	Construction of structures to keep creeks and meadows	Reduced physical vulnerability due to maintenance of ecosystem	Natural habitats more resilient to heat stress	Adapting	Measure	Whitelist	

	wetter and greener longer into the summer	function during extended dry periods					
	Implementation of groundwater management and aquifer recharge around cold water lakes	Improved adaptive capacity due to sustained groundwater supply for heat-stressed aquatic ecosystems	Natural habitats more resilient to heat stress	Adapting	Measure	Whitelist	
	Implementation of management and restoration of riverine forests for cold-water fisheries	Improved adaptive capacity due to preservation of cool water habitats through forest management	Natural habitats more resilient to heat stress	Adapting	Measure	Whitelist	
Terrestrial ecosystems	Allocation of water resource allocations for terrestrial ecosystems	Improved adaptive capacity due to balanced water allocation between human and ecosystem needs during heat stress	Natural systems and surrounding areas more resilient to heat stress	Adapting	Measure	Quantitative	6019
	Installation of fencing to exclude livestock and control access	Reduced physical vulnerability due to protection of riparian zones from heat-stressed livestock	Natural systems and surrounding areas more resilient to heat stress	Adapting	Measure	Whitelist	

	to riparian areas						
	Planting of heat-tolerant, native grass and forb species in restoration efforts	Reduced physical vulnerability due to establishment of heat-tolerant plant communities in degraded areas	Natural systems and surrounding areas more resilient to heat stress	Adapting	Measure	Process-based	
	Implementation of rotational grazing systems to maintain plant cover	Reduced physical vulnerability due to maintained vegetation cover in heat-stressed grazing lands	Natural systems and surrounding areas more resilient to heat stress	Adapting	Measure	Whitelist	
	Implementation of nature-positive land management strategies	Improved adaptive capacity due to implementation of heat-adaptive terrestrial ecosystem management	Ecosystem services, assets, and connected assets more resilient to heat stress	Adapting	Measure	Whitelist	
	Development of heatwave contingency plans and water sharing agreements among	Improved adaptive capacity due to coordinated water management during heatwaves in grassland areas	Natural systems and surrounding areas more resilient to heat stress	Adapting	Measure	Whitelist	

	grassland stakeholders						
	Implementation of urban rewilding and greenspace preservation/ restoration	Reduced physical vulnerability due to enhanced urban biodiversity and cooling through green space expansion	Urban planning and management more resilient to heat stress	Adapting	Measure	Quantitative	6025

5.2. HAZARD: WATER STRESS (INCLUDING DRAUGHT)

Division	Investment	Expected effect	Expected result	Type	Level	Criteria type	Code
Freshwater biodiversity	Protecting and managing wildlife habitats	Ecological system upgraded with investment-appropriate adapting measures that reduce the vulnerability of that activity to water stress	Natural habitats more resilient to water stress	Adapted	Activity	Process-based	6002
	Conducting identification and modelling of cold-water fish habitat	Improved adaptive capacity due to identification of refuges for water-dependent species	Natural habitats more resilient to water stress	Adapting	Measure	Whitelist	
Freshwater ecosystems	Implementation of restoration of	Reduced physical vulnerability due to	Natural habitats more	Adapting	Measure	Whitelist	6005

	watersheds and aquifers	replenishment of groundwater resources	resilient to water stress				
	Conducting mapping analytics on groundwater inputs providing cold water habitat in cold water lakes	Improved adaptive capacity due to identification of critical water sources for ecosystem preservation	Natural habitats more resilient to water stress	Adapting	Measure	Whitelist	6007
	Implementation of groundwater management and aquifer recharge around cold water lakes	Reduced physical vulnerability due to maintained groundwater levels for aquatic ecosystems	Natural habitats more resilient to water stress	Adapting	Measure	Whitelist	
	Implementation of management and restoration of riverine forests for coldwater fisheries	Reduced physical vulnerability due to preservation of water quality through forest management	Natural habitats more resilient to water stress	Adapting	Measure	Whitelist	
Terrestrial biodiversity	Creation of artificial water sources in arid regions	Reduced physical vulnerability due to provision of water	Wildlife populations more resilient	Adapting	Measure	Process-based	6016

		sources for wildlife in dry areas	to drought conditions				
	Improving water storage and delivery systems for wildlife (e.g. catchments, guzzlers)	Reduced physical vulnerability due to improved water access for wildlife in arid environments	Wildlife populations more resilient to drought conditions	Adapting	Measure	Process-based	
	Protecting and managing wildlife habitats	Improved adaptive capacity due to maintenance of wildlife habitats during water stress periods	Wildlife populations more resilient to extreme winter weather	Adapting	Measure	Whitelist	
	Removing invasive species that outcompete natives for limited water resources	Improved adaptive capacity due to reduced competition for limited water resources	Wildlife populations more resilient to drought conditions	Adapting	Measure	Whitelist	
	Translocating wildlife populations to areas with more reliable water sources	Improved adaptive capacity due to relocation of wildlife to areas with stable water sources	Wildlife populations more resilient to drought conditions	Adapting	Measure	Quantitative	
Terrestrial ecosystems	Allocation of water resource	Improved adaptive capacity due to	Natural habitats more	Adapting	Measure	Quantitative	6022

	allocations for ecosystem assets	balanced water allocation between human and ecosystem needs	resilient to water stress				
	Installation of fencing to exclude livestock and control access to riparian areas	Reduced physical vulnerability due to protection of water sources from livestock overuse	Natural habitats more resilient to water stress	Adapting	Measure	Quantitative	
	Planting of drought-tolerant, native grass and forb species in restoration efforts	Reduced physical vulnerability due to establishment of drought-resistant plant communities	Natural habitats more resilient to water stress	Adapting	Measure	Process-based	
	Implementation of nature-positive land management strategies	Improved adaptive capacity due to implementation of water-conserving land management practices	Ecosystem services, assets, and connected assets more resilient to water stress	Adapting	Measure	Whitelist	
	Development of drought contingency plans and water	Improved adaptive capacity due to coordinated water management during	Natural habitats more resilient to water stress	Adapting	Measure	Quantitative	

	sharing agreements among grassland stakeholders	droughts in grassland areas					
	Maintaining, managing, and restoring ecosystem assets	Ecological system upgraded with investment-appropriate adapting measures that reduce the vulnerability of that activity to water stress	Ecosystem-based assets more resilient to water stress	Adapted	Activity	Process-based	6028
	Maintaining, managing, and restoring ecosystem assets	Ecological system upgraded with investment-appropriate adapting measures that reduce the vulnerability of that activity to water stress	Natural habitats more resilient to water stress	Adapted	Activity	Process-based	
	Restoration, expansion, or creation of urban nature spaces	Ecological system upgraded with investment-appropriate adapting measures that reduce the vulnerability of that activity to water stress	Urban planning and management more resilient to water stress	Adapted	Activity	Process-based	
	Development of drought	Improved adaptive capacity due to	Natural habitats more	Adapting	Measure	Quantitative	

	contingency plans and water sharing agreements	coordinated water management during droughts	resilient to water stress				
	Implementation of urban rewilding and greenspace preservation/ restoration	Reduced physical vulnerability due to increased urban water retention and natural cooling effects	Urban planning and management more resilient to water stress	Adapting	Measure	Process-based	
	Planting of tree species that retain groundwater	Reduced physical vulnerability due to enhanced groundwater retention through strategic reforestation	Urban planning and management more resilient to water stress	Adapting	Measure	Process-based	
	Expansion of restored degraded lands	Restored degraded lands extended with investment-appropriate adapting measures that reduce vulnerability to water stress in activities beyond the investment	Other land management activities more resilient to water stress	Enabling	Measure	Process-based	6101

5.3. HAZARD: MULTI-HAZARD

Division	Investment	Expected effect	Expected result	Type	Level	Criteria type	Code

Freshwater ecosystems	Managing freshwater ecosystems	Freshwater ecosystem features upgraded with investment-appropriate adapting measures that reduce the vulnerability of that activity to multi-hazard impacts	Ecosystem services, assets, and connected assets more resilient to multi-hazard impacts	Adapted	Activity	Process-based	6203
	Conserving freshwater biodiversity	Freshwater biodiversity upgraded with investment-appropriate adapting measures that reduce the vulnerability of that activity to multi-hazard impacts	Ecosystem services, assets, and connected assets more resilient to multi-hazard impacts	Adapted	Activity	Process-based	6204
	Managing freshwater ecosystem services	Freshwater ecosystem services upgraded with investment-appropriate adapting measures that reduce the vulnerability of that activity to multi-hazard impacts	Ecosystem services, assets, and connected assets more resilient to multi-hazard impacts	Adapted	Activity	Process-based	6205
Terrestrial biodiversity	Implementation of biological control methods (e.g., introducing natural	Reduced physical vulnerability due to eco-friendly pest control	Natural systems and surrounding areas more	Adapting	Measure	Whitelist	6015

	predators, parasites, or pathogens of the target pest)	methods in various environments	resilient to pests				
	Installation of pheromone traps and mating disruption techniques to control insect populations	Reduced physical vulnerability due to targeted pest control without widespread chemical use	Natural systems and surrounding areas more resilient to pests	Adapting	Measure	Quantitative	
	Conserving terrestrial biodiversity	Terrestrial biodiversity upgraded with investment-appropriate adapting measures that reduce the vulnerability of that activity to multi-hazard impacts	Ecosystem services, assets, and connected assets more resilient to multi-hazard impacts	Adapted	Activity	Process-based	6201
	Protection of ecosystems against biological risks	Reduced physical vulnerability due to protection of ecosystems against invasive species and diseases	Natural systems and surrounding areas more resilient to pests	Adapting	Measure	Whitelist	6020
Terrestrial ecosystems	Implementation of targeted application of	Reduced physical vulnerability due to selective and	Natural systems and surrounding	Adapting	Measure	Whitelist	

	biopesticides or low-toxicity pesticides	environmentally friendly pest management	areas more resilient to pests				
	Planting of native, pest-resistant tree species in reforestation efforts	Reduced physical vulnerability due to increased forest resilience to pests and changing climate conditions	Natural systems and surrounding areas more resilient to pests	Adapting	Measure	Process-based	
	Protection of ecosystem assets against biological risks	Ecological system upgraded with investment-appropriate adapting measures that reduce the vulnerability of that activity to multi-hazard impact	Natural systems and surrounding areas more resilient to pests	Adapted	Activity	Process-based	6027
	Managing terrestrial ecosystems	Terrestrial ecosystem features upgraded with investment-appropriate adapting measures that reduce the vulnerability of that activity to multi-hazard impacts	Ecosystem services, assets, and connected assets more resilient to multi-hazard impacts	Adapted	Activity	Process-based	6200
	Managing terrestrial ecosystem services	Terrestrial ecosystem services upgraded with investment-appropriate adapting measures that	Ecosystem services, assets, and connected	Adapted	Activity	Process-based	6202

		reduce the vulnerability of that activity to multi-hazard impacts	assets more resilient to multi-hazard impacts					
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6. Transportation

6.1. HAZARD: FLOOD DAMAGE

Division	Investment	Expected effect	Expected result	Type	Level	Criteria type	Code
Ports	Constructing / expanding / operating / upgrading port facilities	Infrastructure asset upgraded with investment-appropriate adapting measures that reduce the vulnerability of that activity to flood damage	Port operations more resilient to flood damage	Adapted	Activity	Process-based	2019
	Construction of breakwaters	Reduced physical vulnerability due to dissipation of wave energy before reaching shore	Port operations more resilient to flood damage	Adapting	Measure	Quantitative	
	Creation of backups for critical systems	Improved adaptive capacity due to redundancy in critical	Port operations more resilient to flood damage	Adapting	Measure	Whitelist	

		systems for flood resilience					
	Creation of redundancy and additional storage	Improved adaptive capacity due to increased storage and operational flexibility during floods	Port operations more resilient to flood damage	Adapting	Measure	Quantitative	
	Enhancing emergency response capabilities	Improved adaptive capacity due to rapid and effective flood emergency response	Port operations more resilient to flood damage	Adapting	Measure	Whitelist	
	Establishing land use buffers including nature-based solutions	Reduced physical vulnerability due to natural flood buffers protecting critical infrastructure	Port operations more resilient to flood damage	Adapting	Measure	Quantitative	
	Heightening quayside structures	Reduced physical vulnerability due to elevated port structures above flood levels	Port operations more resilient to flood damage	Adapting	Measure	Quantitative	
	Improving drainage	Reduced physical vulnerability due to efficient water removal from flood-prone areas	Port operations more resilient to flood damage	Adapting	Measure	Quantitative	
	Installing flood monitoring and warning systems	Improved adaptive capacity due to real-time flood monitoring and early warning	Port operations more resilient to flood damage	Adapting	Measure	Whitelist	

	Reinforcing key structures	Reduced physical vulnerability due to strengthened coastal structures against flood forces	Port operations more resilient to flood damage	Adapting	Measure	Quantitative	
	Relocating / raising key equipment	Reduced physical vulnerability due to flood-proofing of essential port equipment	Port operations more resilient to flood damage	Adapting	Measure	Quantitative	
Roads	Managing flood pathways	Reduced physical vulnerability due to strategic water flow management during floods	Road transportation more resilient to flood damage	Adapting	Measure	Quantitative	2020
	Constructing / expanding / operating / upgrading roads	Infrastructure asset upgraded with investment-appropriate adapting measures that reduce the vulnerability of that activity to flood damage	Land-based mobility and trade more resilient to disruption from flood damage	Adapted	Activity	Process-based	2022
	Constructing / expanding / operating / upgrading roads	Infrastructure asset upgraded with investment-appropriate adapting measures that reduce the vulnerability of that activity to flood damage	Road transportation more resilient to flood damage	Adapted	Activity	Process-based	

	Adjustment of road / bridge height	Reduced physical vulnerability due to elevated road and bridge structures above flood levels	Road transportation more resilient to flood damage	Adapting	Measure	Quantitative	
	Adjustment of routes	Reduced physical vulnerability due to rerouting of roads away from flood-prone areas	Road transportation more resilient to flood damage	Adapting	Measure	Quantitative	
	Creation of road flood defences	Reduced physical vulnerability due to protective barriers for flood-prone road sections	Road transportation more resilient to flood damage	Adapting	Measure	Quantitative	
	Improving stormwater drainage	Reduced physical vulnerability due to enhanced water drainage from road surfaces	Road transportation more resilient to flood damage	Adapting	Measure	Quantitative	
	Installing road / traffic monitoring and warning systems	Improved adaptive capacity due to real-time road condition monitoring during floods	Other sectors more resilient to flood damage	Adapting	Measure	Whitelist	
	Relocating road assets	Reduced physical vulnerability due to relocation of roads to less flood-prone areas	Road transportation more resilient	Adapting	Measure	Quantitative	

			to flood damage				
	Expansion of climate-resilient evacuation routes	Climate-resilient evacuation routes extended with investment-appropriate adapting measures that reduce vulnerability to flood damage in activities beyond the investment	Other transportation activities more resilient to flood damage	Enabling	Measure	Process- based	2102
Aviation	Constructing / expanding / operating / upgrading airports, aircraft, equipment	Infrastructure asset upgraded with investment-appropriate adapting measures that reduce the vulnerability of that activity to flood damage	Aviation infrastructure more resilient to flood damage	Adapted	Activity	Process- based	2075
Railways	Constructing / expanding / operating / upgrading railway tracks, stations, equipment	Infrastructure asset upgraded with investment-appropriate adapting measures that reduce the vulnerability of that activity to flood damage	Railway infrastructure more resilient to flood damage	Adapted	Activity	Process- based	2085

6.2. HAZARD: HEAT STRESS

Division	Investment	Expected effect	Expected result	Type	Level	Criteria type	Code

Roads	Constructing / expanding / operating / upgrading roads	Infrastructure asset upgraded with investment-appropriate adapting measures that reduce the vulnerability of that activity to heat stress	Land-based mobility and trade more resilient to extreme heat	Adapted	Activity	Process-based	2021
	Creation of redundancy and contingency including alternative routes	Improved adaptive capacity due to alternative transportation routes during extreme heat	Road transportation more resilient to heat stress	Adapting	Measure	Quantitative	
	Implementation of vegetation plans / NBS	Reduced physical vulnerability due to strategic placement of vegetation	Road transportation more resilient to heat stress	Adapting	Measure	Whitelist	
	Using heat-resistant road surfacing	Reduced physical vulnerability due to thermally resistant road materials	Road transportation more resilient to heat stress	Adapting	Measure	Quantitative	
	Using localised power sources	Improved adaptive capacity due to decentralized power sources for cooling systems	Road transportation more resilient to heat stress	Adapting	Measure	Whitelist	

Railways	Constructing / expanding / operating / upgrading railway tracks, stations, equipment	Infrastructure asset upgraded with investment-appropriate adapting measures that reduce the vulnerability of that activity to heat stress	Logistic services more resilient to heat stress	Adapted	Activity	Process-based	2100
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7. Water Management

7.1. HAZARD: FLOOD DAMAGE

Division	Investment	Expected effect	Expected result	Type	Level	Criteria type	Code
Desalination	Constructing / expanding / operating / upgrading desalination facilities	Infrastructure asset upgraded with investment-appropriate adapting measures that reduce the vulnerability of that activity to flood damage	Other sectors more resilient to flood damage	Adapted	Activity	Process-based	2023
Water supplies	Installing leak detection equipment	Improved adaptive capacity due to early detection of water system vulnerabilities	Access to water supplies more resilient to disruption from flood damage	Adapting	Measure	Quantitative	2024

	Installing water metering	Improved adaptive capacity due to optimized water usage and loss prevention	Water supply more resilient to flood damage	Adapting	Measure	Whitelist	
Wastewater collection and treatment	Constructing / expanding / operating / upgrading wastewater treatment systems	Infrastructure asset upgraded with investment-appropriate adapting measures that reduce the vulnerability of that activity to flood damage	Sanitation assets more resilient to flooding	Adapted	Activity	Process-based	2026
	Implementation of stormwater separation	Reduced physical vulnerability due to separation of rainwater from wastewater systems	Access to water more resilient to flood damage	Adapting	Measure	Whitelist	
Flood management	Constructing / expanding / operating / upgrading flood management systems	Infrastructure asset upgraded with investment-appropriate adapting measures that reduce the vulnerability of that activity to flood damage	Wastewater treatment more resilient to flood damage	Adapted	Activity	Process-based	2027
	Building sand dams	Reduced physical vulnerability due to water retention structures in arid regions	Waterways and surroundings more resilient to flood breach	Adapting	Measure	Quantitative	
	Construction of levees/dykes	Reduced physical vulnerability due to raised	Other sectors more resilient to flood damage	Adapting	Measure	Quantitative	

		flood barriers along waterways					
	Construction of surge barriers	Reduced physical vulnerability due to large-scale flood protection for coastal areas	Wastewater treatment more resilient to flood damage	Adapting	Measure	Quantitative	
	Creation of infiltration ponds	Reduced physical vulnerability due to controlled rainwater collection and gradual release	Other sectors more resilient to flood damage	Adapting	Measure	Quantitative	
	Creation of overflow reservoirs	Reduced physical vulnerability due to controlled water overflow areas to reduce flood peaks	Other sectors more resilient to flood damage	Adapting	Measure	Quantitative	
	Increasing flood drainage capacity	Reduced physical vulnerability due to increased capacity to remove flood waters	Other sectors more resilient to flood damage	Adapting	Measure	Quantitative	
	Installing floodgates	Reduced physical vulnerability due to regulated water flow in flood-prone areas	Wastewater treatment more resilient to flood damage	Adapting	Measure	Quantitative	
	Installing pumps	Reduced physical vulnerability due to faster evacuation of floodwaters	Wastewater treatment more resilient to flood damage	Adapting	Measure	Quantitative	

		from basements and low-lying areas					
	Expansion of multi-purpose flood retention areas	Climate-resilient evacuation routes extended with investment-appropriate adapting measures that reduce vulnerability to flood damage in activities beyond the investment	Other flood management activities more resilient to flood damage	Enabling	Measure	Process-based	2104
Catchment restoration	Implementation of activities to decrease soil erosion risk/Protection of catchment or watershed	Decreased sedimentation/ improved soil stability / Improved soil infiltration capacity	More resilience to soil erosion, floods, and landslides	Adapted	Activity	Process-based	X001
	Agroforestry/afforestation/ reforestation	Improved soil infiltration capacity will decrease rainfall runoff downstream/ Improved soil stability	More resilience to soil erosion, floods, and landslides	Adapting	Measure	Whitelist	
	Terracing	Improved soil infiltration capacity will decrease rainfall runoff downstream/ decreased sedimentation/ improved soil stability	More resilience to soil erosion, floods, and landslides	Adapting	Measure	Whitelist	
	Gully rehabilitation	Decreased sedimentation/ improved soil stability	More resilience to soil erosion,	Adapting	Measure	Whitelist	

			floods, and landslides				
	Protection/restoration of riparian areas	Decreased sedimentation/ decreased water speed which increases flood protection	More resilience to soil erosion, floods, and landslides	Adapting	Measure	Whitelist	

7.2. HAZARD: WATER STRESS (INCLUDING DRAUGHT)

Division	Investment	Expected effect	Expected result	Type	Level	Criteria type	Code
Water supplies	Constructing / expanding / operating / upgrading water supply systems	Infrastructure asset upgraded with investment-appropriate adapting measures that reduce the vulnerability of that activity to water stress	Sanitation assets more resilient to water stress	Adapted	Activity	Process-based	2025
	Harvesting rainwater	Reduced physical vulnerability due to on-site collection and storage of rainwater	Water supplies more resilient to water stress	Adapting	Measure	Quantitative	
	Implementation of automated water control systems	Reduced physical vulnerability due to optimized water distribution in agricultural systems	Access to water supplies more resilient to water stress	Adapting	Measure	Whitelist	
	Installing water resource monitoring equipment	Improved adaptive capacity due to real-time monitoring of water resource availability	Water-related utilities (water supply systems,	Adapting	Measure	Whitelist	

			hydropower stations etc.) are more resilient to water stress				
	Expanding water supply networks	Water supply networks extended with investment-appropriate adapting measures that reduce vulnerability to water stress in activities beyond the investment	Other water infrastructure activities more resilient to water stress	Enabling	Measure	Process-based	
	Expansion of water storage and distribution networks	Water storage and distribution networks extended with investment-appropriate adapting measures that reduce vulnerability to water stress in activities beyond the investment	Other water infrastructure activities more resilient to water stress	Enabling	Measure	Process-based	2101
Wastewater collection and treatment	Expansion of wastewater recycling for non-potable uses	Multi-purpose flood retention areas extended with investment-appropriate adapting measures that reduce vulnerability to flood damage in activities beyond the investment	Other water management activities more resilient to water stress	Enabling	Measure	Process-based	2103

8. Generic DNSH Criteria for all Adaptation Activities and Measures

Similarly to all other activities in Rwanda's Green Taxonomy, adaptation activities must fulfil the generic DNSH criteria. When making investments in adaptation measures and activities, it is essential to ensure that:

Climate Change Mitigation

- The measure or activity does not increase the operational consumption of hydrocarbons (fossil gas, oil or coal and their derivatives) or lead to the lock-in of hydrocarbons.

Sustainable Use and Protection of Water Resources

- Risks associated with water consumption and water quality must be identified, assessed and mitigated to the biggest extent possible. Water risk analysis tools must be used for this purpose (e.g. risk assessments by national environmental authorities, water footprint, WWF Water Risk Filter², WRI Aqueduct³ or comparable).

Protection of Biodiversity and Environment

- Adaptation measures and activities must not damage ecosystems that are strategic for food security, rich in biodiversity, or serve as habitats for endangered species (flora and fauna) on Rwanda's lists of nationally protected areas or the IUCN Red List⁴. Museums or technical facilities necessary for their functioning are exempt from this requirement.
- For sites and operations located in or near biodiversity-sensitive areas (defined as areas included in the Natura 2000 network of protected areas, UNESCO World Heritage sites, Key Biodiversity Areas, as well as other protected areas), an appropriate assessment must be carried out in line with the criteria set by IFC Performance Standard №6⁵. A long-term biodiversity monitoring and assessment programme must be adopted for these sites.

Pollution Prevention and Control

- It must be demonstrated that neither the construction nor operation of the adaptation activity or measure emits dangerous substances, noise, light, or heat more than those allowed by relevant national or international regulations.

Promotion of Circular Economy

- New installations must be designed and manufactured for high durability, easy of dismantling, refurbishment and recycling to the extent possible. The potential for repair of facilities and equipment, and the accessibility and interchangeability of the activity's equipment components must be ensured.

² [WWF Risk Filter Suite - Home](#)

³ [Aqueduct | World Resources Institute \(wri.org\)](#)

⁴ [IUCN Red List of Threatened Species](#)

⁵ [Performance Standard 6: Biodiversity Conservation and Sustainable Management of Living Natural Resources | International Finance Corporation \(IFC\)](#)

9. Minimum Social Safeguards Requirements

Similarly to all other activities in Rwanda's Green Taxonomy, adaptation activities must fulfil the Minimum Social Safeguards.

Consequently, the entity using the Taxonomy must ensure that it does not generate negative social impacts by complying with a list of relevant national and international conventions, laws, and regulations. In practice, the entity must adhere to the appropriate local regulatory framework, national policies, and applicable internationally recognised principles and patterns. For Rwanda's Green Taxonomy, the following conventions were identified:

International Labor Organization core conventions:

- Freedom of Association and Protection of the Right to Organise Convention, 1948 (No. 87)
- Right to Organise and Collective Bargaining Convention, 1949 (No. 98)
- Forced Labour Convention, 1930 (No. 29) (and its 2014 Protocol)
- Abolition of Forced Labour Convention, 1957 (No. 105)
- Minimum Age Convention, 1973 (No. 138)
- Worst Forms of Child Labour Convention, 1999 (No. 182)
- Equal Remuneration Convention, 1951 (No. 100)
- Discrimination (Employment and Occupation) Convention, 1958 (No. 111)

International Bill of Human Rights conventions:

1. Universal Declaration of Human Rights (1948)
2. International Covenant on Civil and Political Rights (1966)
3. International Covenant on Economic, Social and Cultural Rights (1966)

The asset or activity that substantially contributes to climate change adaptation and resilience must ensure that it does not have a negative social impact. To this end, it must identify and adhere to the relevant local regulatory framework and policies and have a social management system in place, by the above list, as applicable.