Climate Assessment Tool

Purpose

This Climate Assessment Tool is designed to help portfolio companies and Mercy Corps Ventures:

- Reach a shared understanding of the company's current risks from climate shocks and how that might affect your business itself, as well as your end users
- Identify any potential opportunities that arise from climate change
- Identify potential mitigation strategies and/or ways to take advantage of opportunities

We have intentionally made this tool open-source for any company or fund to use.

Instructions

Start by reading our introduction Guide (very short!). We recommend you complete this Climate Assessment with key members of your company (e.g. leadership and heads of teams). If you need support, get in touch with the MCV Venture Platform team. We can help you work through any questions you have.

Post-Investment Support

Based on your assessment, you may have identified areas where we could provide post-investment support for your climate journey over the next 6-12 months - please add notes below.

Notes

What do we mean when we talk about climate change? Impacts of climate changes on infrastructure, supply chains, people, and more e.g. seasonal changes, water pollution, customer migration, disruption of food systems Climate changes including droughts, floods, heat stress, natural disasters Actions being taken to try to mitigate the effects of climate change

	Examples include	1			
Extreme weather events	Wildfires	Y			
One-off or short-term	Flash floods	(9		Direct impacts	
	Extreme heat		1	Infrastructure	e.g. damage to roads or train tracks
	Severe storms + hurricanes	Note that these factors are often	1	Supply chains	e.g. increased delays due to disrupted infrastructure, resource availa
Changing climate patterns	Reduced / volatile yearly rainfall	interconnected and may reinforce one	1	Agriculture / food systems	e.g. reduced or increased growing seasons, reduced productivity in li
Longer-term, developing each year	Increasing air pollution	another, exacerbating	1	Aquaculture	e.g. water pollution, oversalination
	Rising sea levels	climate change risks.	>	Physical assets	e.g. collapsed buildings, damage to factories
	Increasing air temperatures		/	Natural capital	e.g. pollution of lakes or air, coastal erosion
Indirect changes due to climate change	Examples include			Indirect impacts	
Regulatory	Increasing regulation (e.g. on emis-	sions or supply chains)	1	Personal	e.g. negative health effects including respiratory diseases, heatstroke,
Green transition Energy use requirements / restrictions			Customers	e.g. increased costs passed onto customers, or health risks that affect	
Human behaviour	uman behaviour Changing preferences				
	Increased migration				

Resources	
Climate Collective	Measuring the Impact of Climate: Small + Growing
Climate Links	Climate Risk Screening and Management Tools

Climate Bilk Screening and Management Tools
Adaptions Solitons Taxonomy
Climate Bilk - Response physical hoursts and socioeconomic impacts
Why climate realized in the socioeconomic impacts
Why climate realized is key to Juding the healthcore apparation of the f
Climate subreability assessment
Water, at the center of the attronia crisis
Agriculture: Climate on of Biosater Bilk Screening Reference Guide
blow climate change is impacting your supply chain
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These rists can pose a serious challenge to your supply chains, resources, or physical properties. This could threaten your business arouth and ablity to socie sustainably.

At the same time, your customers are also at risk of climate change, affecting their oblight on howest generate income, pay for services, or participate in your business at all.

		Risk	Severity	Probability	Risk rating	Risk management options								
		Based on the geography(isa) your business operates in, dose your business have exposure to any of these climate events? And based on the geography your end users are in, do they have exposure as well? See have for the climate risk profiles of different regions.	How severely would the event impact your business? Low: 10% revenue loss Medium: 10-25% revenue loss High: >25% revenue loss			Brainstorm ideas for addressing the high climate risks. See examples here —> We can support you on this if you need – just reach out.	Examples could include: - train your and consumers in the basics of sustain - encourage mixed crop-leastock systems or other - integrates early-maring systems into your produ support your employees to protect themselves in - provide and as upport for profuculary vulnimable, - Bee the "Climate Opportunities" tob for more earn	r ways to improv ct to help with pri om extreme heat populations (at ti	paredness (e.g. home or off			rgriculture	enuture	
impact theme	Business													
	Disruption in services (e.g. water, electricity) due to extreme weather events in the region where you operate				#N/A								Probability	
Infrastructure	Interruption of transport networks due to climate events				#N/A							Low	Medium	High
	Reduced communication, internet, or GPS capacities due to flooding or storms disrupting networks				#N/A						Low	Low risk	Low risk	Low risi
Punnik obnin	Disruption to supply chain due to extreme weather events e.g. floods, wildfires, erosion				#N/A					Severity	Medium	Low risk	Medium risk	Medium risk
	Reduced availability of core goods in the supply chain e.g. flour, sugar Lower availability of workforce in extreme				#N/A						High	Medium risk	High risk	High ris
Physical assets	heat events e.g. people can't get to work due to heat				#N/A									
Customers	Reduced willingness of farmers to invest in sustainable agriculture practices that represent more of a risk due to uncertainty [1]				#N/A									
	Health issues reducing customers' ability to engage with your product				#N/A									
Impact theme														
	Damage to crops and reduced yields due to heat stress, changes in rainfall, flooding or drought				A/A									
Ag / food systems	e.g. certain parasites thrive in warmer weather				#N/A									
	Reduced water availability for livestock or crops due to droughts and/or changes in rainfall				#N/A									
	Reduced soil fertility from prolonged drought				#N/A									
	Reduced harvests and lower incomes from near share aquaculture due to sea level rise and/or floods				#N/A									
	Destruction of fish habitat and other aquatic species due to prolonged drought or over- solination of fresh water, leading to reduced harvests / incomes				#N/A									
	Reduced water availability for customers due to drought, changes in rainfall, and/or contamination of water supply				#N/A									
Customers	Inability of customers to prepare for climate shocks due to lack of accurate information on floods, droughts, etc				#N/A									
	Temporary or permanent displacement of populations due to flooding and/or drought				#N/A									
Personal	Higher incidence of health conditions related to extreme heat, injury or other vulnerability to climate shock				#N/A									
						< If this number is greater than 4, you should consider putting in place or updating a climate risk misigation strategy. You could also explore how to turn these risks into opportunities (see "Climate Opportunities" tab).								

Clim	ate Opportunity			Notes
How	strongly do you agree with the following statements?			
	In the Risk Assessment, we identified some risks to our customers that could impact their income (e.g. reduced harvests). We see an opportunity from changing environmental and			Write down thoughts on how you could pivot to respond to those risks. e.g. providing health insurance or other forms of financial support e.g. supporting them to adapt their agricultural practices This could be 1) because your product already makes it easier for companies to abide by
	ESG regulations.			regulations, or 2) because you could pivot to provide that kind of service.
	We have explored the possibility of raising funding from climate investors.			Have these investors asked for specific information e.g. metrics, proof of concept? If yes, note it down here.
		Total	0	< If this box is red, you should think about how to maximise your climate opportunities. Start in the list below.
What	are the opportunities for your business from climate?	<u>Source</u>	Is this a possible opportunity for us?	Notes
	Providing information about regenerative agricultural	<u>554755</u>	по што и россии о органия, то пос	
rrisi	practices			
me	Parametric insurance			
Reducing customer risk	Early warning systems for extreme coastal weather events			
g c	Remote sensing-based drought monitoring tool			
licii	Health insurance covering climate-related health shocks			
Rec	Bundling insurance products with other offerings			
products	Irrigation technologies (e.g. using sprinkler, drip, minisprinkler, or high-efficiency drip systems)			
proc	Water storage and harvesting			
customer	Water saving technologies / water loss reduction technologies e.g. smart water meters			
	Temperature regulation technologies for livestock			
Improving	Drought tolerant crops			
pro	Land leveling to reduce runoff			
Ē	Constructed wetlands and artificial reefs			
	Crop data and analytics platform with mapping interface			
bu	Integrating climate monitoring and forecasting			
iton	Satellite imagery for monitoring and impact assessment			
x + monitoring	Water monitoring + modelling (e.g. water resource mapping)			
Data	E-Health e.g. remote diagnostics, health and disease surveillance systems for outbreak detection			
(0	Building climate risk profiles for your suppliers (e.g. if required by corporate clients)			
corporates	Selling your data to buyers who want to know more about their supply chains			
oduc	Publishing your ESG policy			
ESG + CC	Pitching your product to governments / DFIs who want to improve their climate investments due to regulations			
_	Develop your climate resilience impact measurement (we can support with this)			
Other	What other opportunities could there be?	Open-ended, for comment		

[1] This is from the perspective of the business losing customers, vs the section below where it's about the direct impact on end users from climate change.

To measure this, it would be quite specific to ag companies, where they would offer farmers protocols or inputs that are regenerative/sustainable and farmers say no because they don't want to take the risk.