



Adaptation and Resilience:

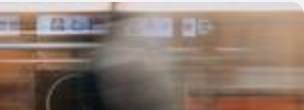
Business Models and the Climate Causality Framework



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A body of the European Union





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Session Rules



A face to a name

Please have your video on if you can.



Microphone etiquette

Please mute when you are not speaking.



Conversation style

Feel welcome to raise your hand and we will come to you for questions/comments.



Agenda

WHAT YOU'LL LEARN

- Introduction
- Risk, resilience & adaptation
- The Climate Causality Framework
- Adaptation & resilience (A&R) business models
- Examples of A&R businesses
- Key learning

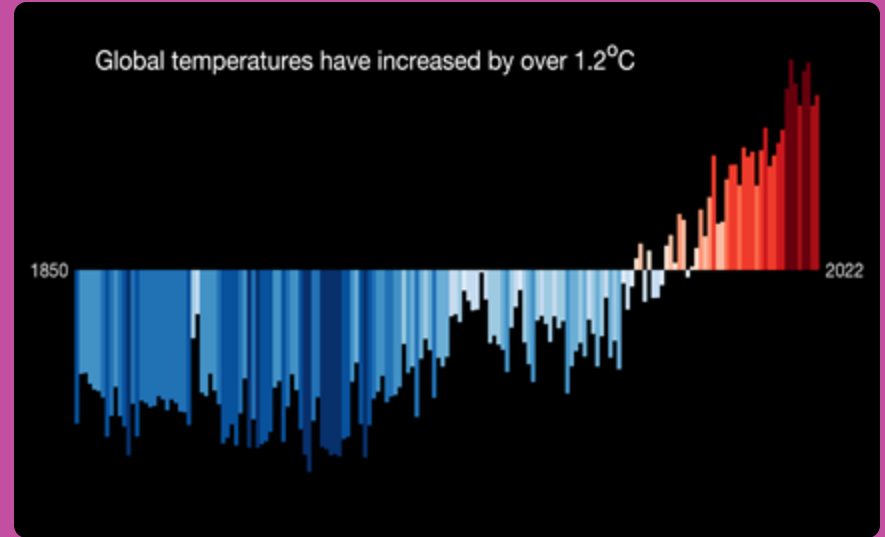


Introduction



The world is warming rapidly

- Currently at 1.2°C above pre-industrial global temperatures
- Individual months in 2023 shattered previous records
- 2023 set to be warmest year on record, exceeding 1.5°C
- We will consistently breach this threshold by 2030s



Warming is making many climate hazards worse



HEAT EXTREMES



DROUGHT



WILDFIRES



STORMS



FLOODS



SEA-LEVEL RISE

With intensifying *impacts* on

Water supplies

Ecosystems

Disaster risk

Infrastructure

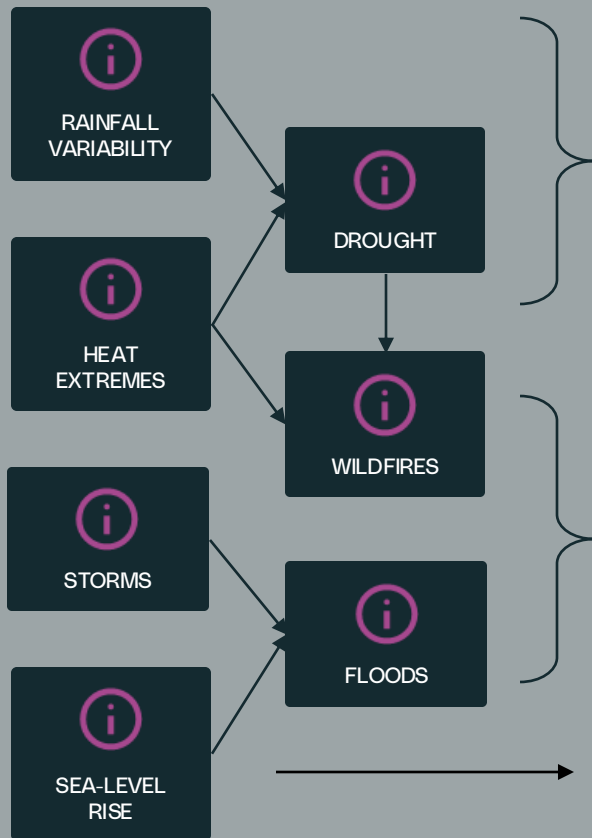
Agricultural production

Supply chains

Health



Intensifying hazards



Primary impacts

- Water stress + demand
- Heat stress (plants, animals, people, infrastructure)
- Agricultural yields
- Pests & diseases

- Forest & ecosystem loss
- Damage to agriculture
- Damage to infrastructure
- Transport, comms disruption
- Shifts in ecological ranges
- Loss of settlements

Erosion, inundation, salinization

Secondary impacts

Increased costs

Income & livelihoods

Supply chain disruption

Food prices & insecurity

Increased poverty

Worsening health

Migration

Insecurity



High temperatures exacerbated by climate change made 2022 Northern Hemisphere droughts more likely



Sources: World Weather Attribution, EU Civil Protection & Humanitarian Aid



High temperatures exacerbated by climate change made 2022 Northern Hemisphere droughts more likely



Sources: World Weather Attribution, Oxfam East Africa/Wikimedia Commons





EXERCISE 1 – Hazards & impacts

- Identify one or more key climate hazards that affect the sector, context, or geographical area in which you live and work – are these changing?
- What impacts are associated with these hazards – what problems do they cause for your sector, business, community, or other stakeholders?
- Participants to have 3 minutes to record some ideas



EXERCISE 1 – Hazards & Impacts

Hazards	Impacts
Increased rainfall variability	Shifts & unpredictability in start & end of rainy seasons, increased risk of dry periods within growing season – seed & crop losses
Higher temperatures & lower rainfall	Increased evapotranspiration, reduced soil moisture – reduced productivity
More intense rainfall	Crop damage, soil erosion, flooding, infrastructure damage



Risk, Resilience & Adaptation

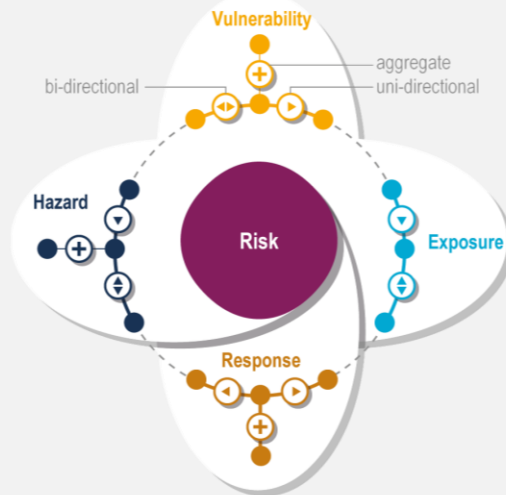
Understanding key terms and concepts & their relevance in terms of business



Worsening impacts mean increasing risks

Vulnerability: Susceptibility of population/system to harm when exposed to a hazard

Hazard: Potentially harmful manifestation of climate change (shock, stress, extreme, trend), reduced through mitigation



Exposure: Number of people, amount/value of assets in an area affected by a hazard

Response: Actions taken to address hazards that might reduce or inadvertently increase risk – responses themselves can be/create risks



Reducing climate change risks

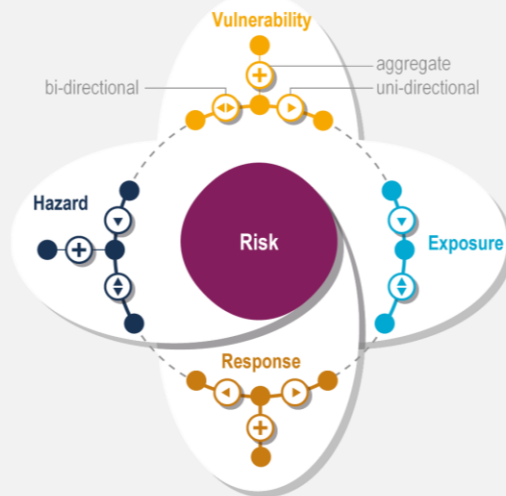
Key adaptation & resilience building opportunities for businesses

Reduce vulnerability - Improve ability of people, organisations, systems, to cope with & adapt to climate change impacts

Reduce hazards

Reduce emissions (mitigation)

Reduce likelihood & magnitude of floods, landslides, etc. through local physical interventions



Reduce exposure

Relocate settlements, people, infrastructure, economic activity - away from high-risk areas - winners & losers, can increase risk for some

Better responses - Ensure short-term responses provide foundation for effective, sustainable & equitable adaptation in longer-term



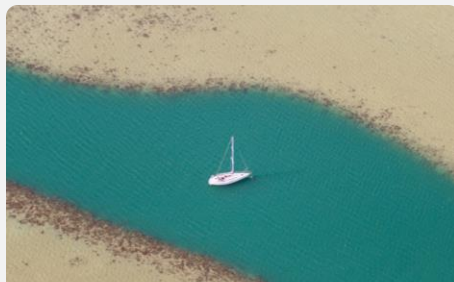
Different ways of reducing risk



Mitigation

Avoiding and reducing emissions of heat-trapping greenhouse gases & enhancing sinks to sequester & store them.

Addresses root causes of climate change & **reduce hazards**



Resilience

Capacity of people or systems to anticipate & absorb shocks & recover from their impacts.

Reduce vulnerability to a range of often familiar hazards.



Adaptation

Adjustments that enable populations and systems to survive or function under new environmental or climatic conditions.

Reduce vulnerability to new & emerging hazards.



Relationship between Adaptation & Resilience

Resilience building activities generally focuses on existing hazards and risks, albeit ones that are most likely evolving due to climate change; often pays little or no attention to specific future risks

BUT

Resilience to climate change necessarily involves adaptation to new hazards & risks

Resilience as capacity to anticipate hazards, absorb & recover from their impacts, adapt to new hazards & risks, and transform where existing systems and behaviours are unviable under climate change

Important to specify risk, vulnerability, resilience and/or adaptation *of whom* (population or system), *to what* (hazard), in relation *to what impacts*, and over *what timescale(s)?*



Avoiding Maladaptation

Maladaptation: actions that may lead to increased risk of adverse climate-related outcomes, including via increased greenhouse gas (GHG) emissions, increased or shifted vulnerability to climate change, more inequitable outcomes, or diminished welfare, now or in the future (IPCC 2022: 2915)

Avoid actions that displace risks, create new risks, increase the vulnerability of other (non-target) populations & systems, and deliver short-term benefits at expense of longer-term sustainability

→ Consideration of maladaptation addresses 'response' element of risk

E.g., irrigation to address increasing water scarcity that is not sustainable and depletes groundwater reserve to point where agricultural systems collapse



EXERCISE 2 – Hazards & Impacts

Hazards	Impacts	Adaptation/resilience approaches
Increased rainfall variability	Shifts & unpredictability in start & end of rainy seasons, increased risk of dry periods within growing season – seed & crop losses	
Higher temperatures & lower rainfall	Increased evapotranspiration, reduced soil moisture – reduced productivity	
More intense rainfall	Crop damage, soil erosion, flooding, infrastructure damage	

- What approach(es) might we use to address the risks identified in Exercise 1?
- Are there any risks of maladaptation? If so, how would you address them?



EXERCISE 2 – Hazards & Impacts

Hazards	Impacts	Adaptation/resilience approaches
Increased rainfall variability	Shifts & unpredictability in start & end of rainy seasons, increased risk of dry periods within growing season – seed & crop losses	<p>Resilience of existing agricultural systems through forecasts, insurance, water storage, irrigation</p> <p>Adaptation – drought tolerant & short-season crops</p>
Higher temperatures & lower rainfall	Increased evapotranspiration, reduced soil moisture – reduced productivity	<p>Resilience through systematic irrigation</p> <p>Adaptation – drought tolerant crops</p>
More intense rainfall	Crop damage, soil erosion, flooding, infrastructure damage	<p>Resilience – flood early warning systems, resilient infrastructure, land cover</p> <p>Adaptation – relocating infrastructure & activities away from high-risk areas</p>

Maladaptation risks: sustainability of irrigation under scenarios of lower rainfall, higher temperatures and declining groundwater; risks livelihoods, food security & local economies reliant on become reliant on unsustainable irrigated agriculture that is liable to future collapse.

Potentially reduced by ensuring irrigation is highly efficient, assessing conditions under which it fails, & regularly monitoring groundwater resources.



The Climate Causality Framework

From impacts to opportunities



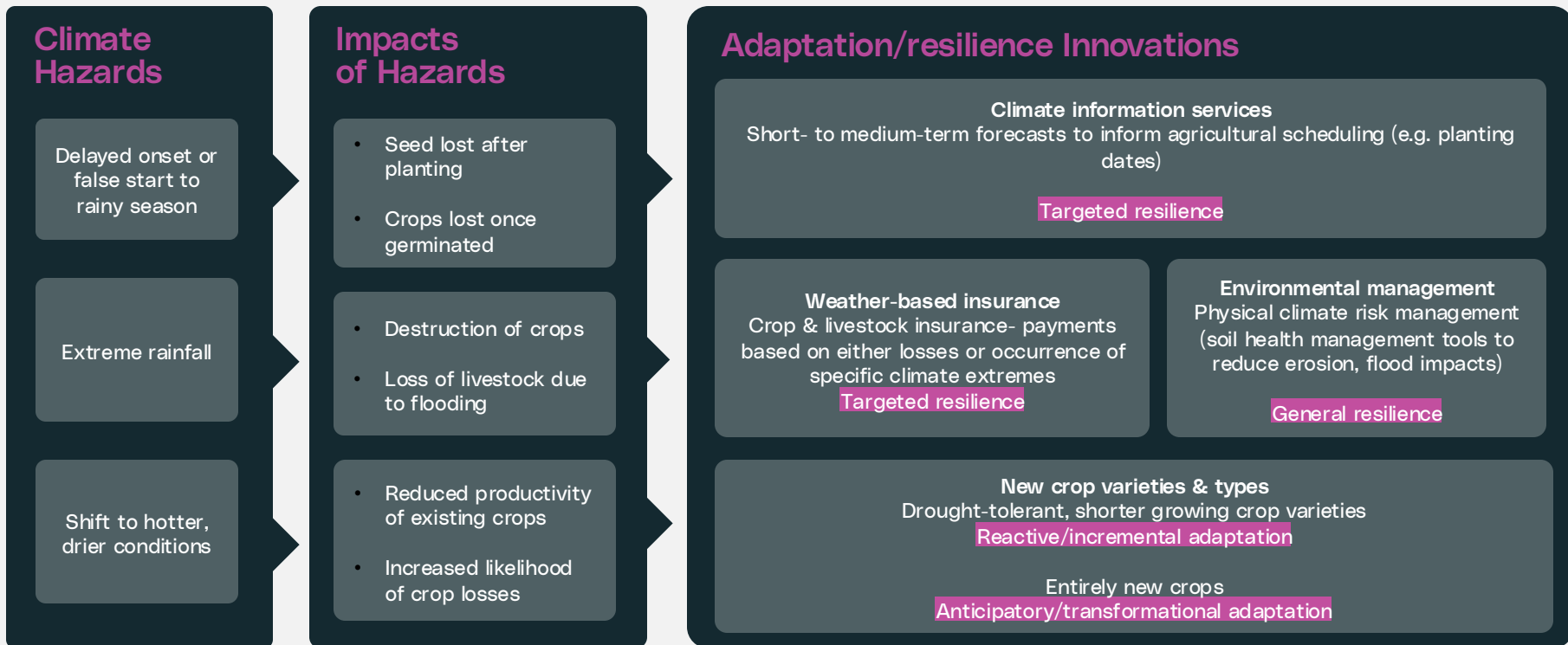


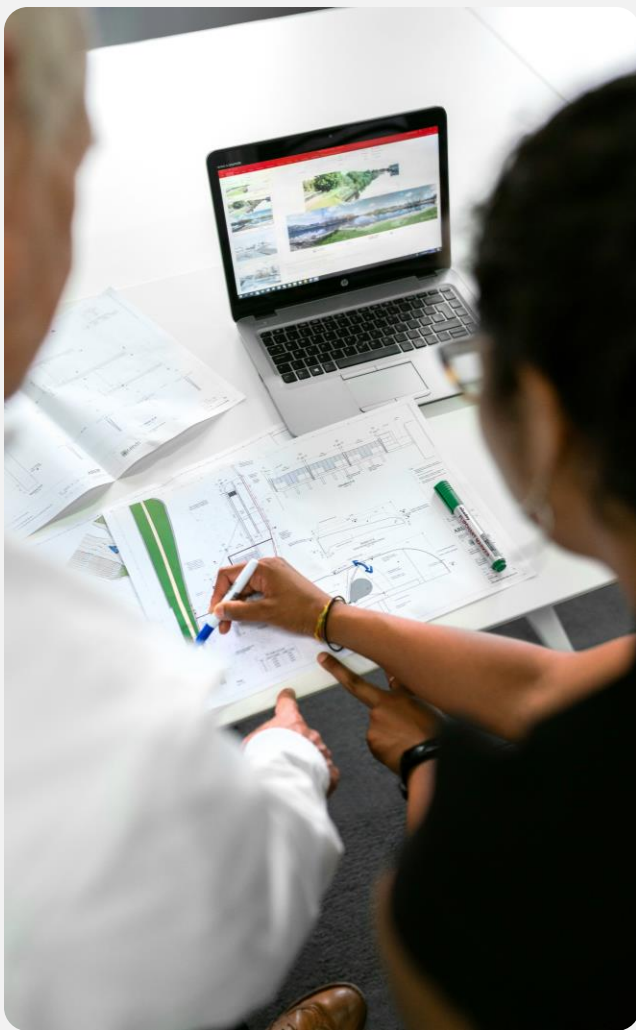
Adaptation/resilience as an opportunity for business

- Intensifying climate change hazards and impacts pose severe risks to ecosystems, livelihoods, food production, water security, infrastructure, health, economy
- These risks need to be addressed through resilience & adaptation
- This means opportunities for the private sector to drive adaptation innovation, often with support from donors & multilateral climate funds that recognize limits of conventional projects
- Taking these opportunities requires understanding of what is needed to address impacts



Climate Causality Framework – Agriculture Example

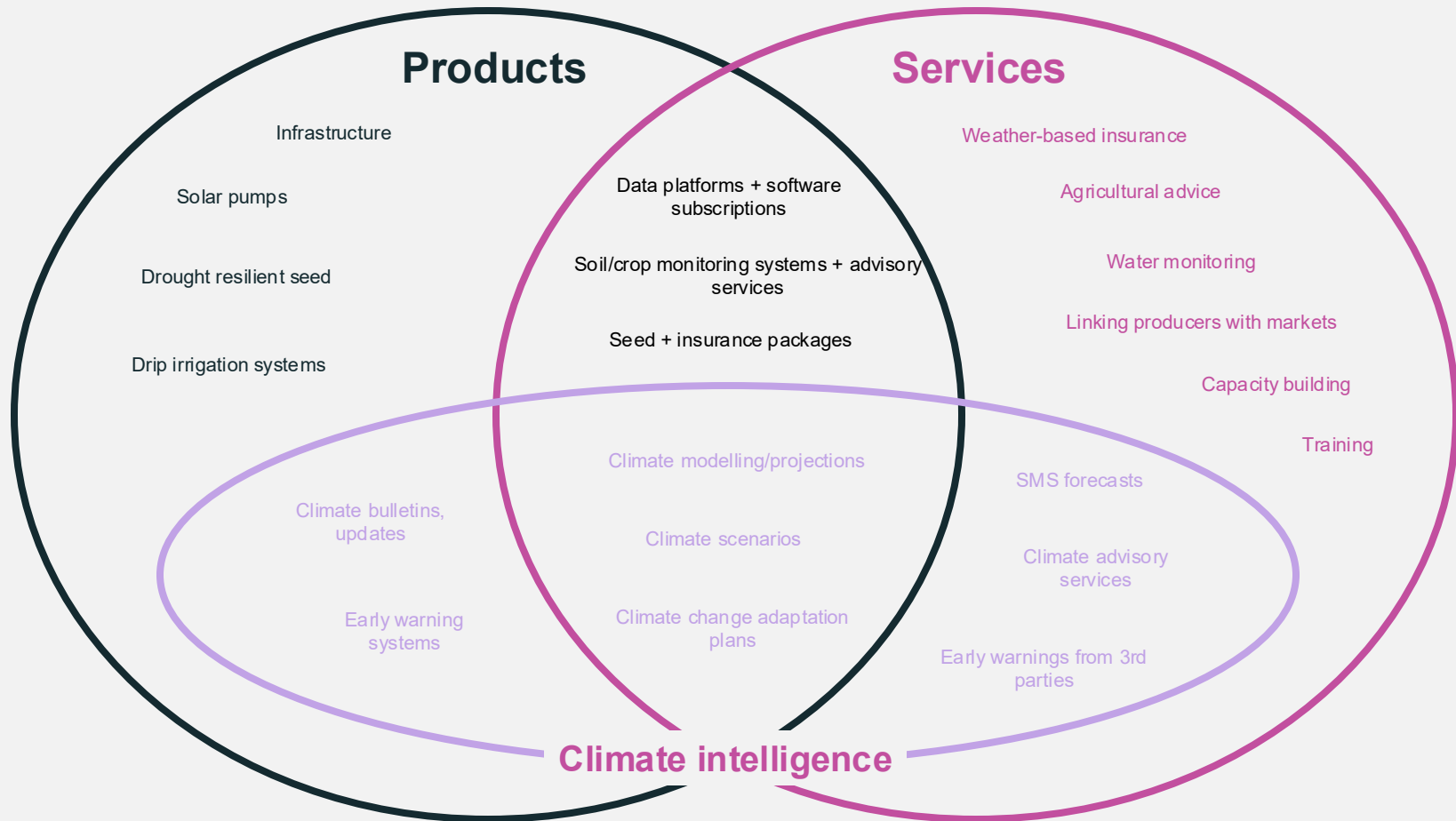




Products and Services for Adaption & Resilience

- **Products** - tangible items that a company offers to consumers / physical items that a company can make for someone; ownership rights can be established, might be traded or exchanged
- **Services** – intangible item arising from the output of one or more individuals that is consumed at the same time it is produced; provided or performed for another person or organisation
- **Climate intelligence** – most commonly a subset of services relating to data & information that enable the identification, monitoring & assessment of climate hazards, impacts, risks & adaptation options







Example – Framework application, Kenya

MajiAgri – Water supply & irrigation infrastructure

Climate Hazards

Increased rainfall
variability

Higher temperatures &
lower rainfall

More intense rainfall

Impacts of Hazards

Seasonal shifts, dry periods in
growing season – seed & crop
losses

Higher evapotranspiration,
lower soil moisture – reduced
productivity

Crop damage, soil erosion,
flooding, infrastructure
damage

Adaptation/resilience Innovations

Water infrastructure including
harvesting ponds, irrigation
systems (products) supported
with training, agribusiness
consultancy & research
(services)

Promotion of agroforestry to
increase forest cover

<https://www.facebook.com/MajiAgri/>

| <https://ke.linkedin.com/company/majiagri-solutions>



Adaptation & resilience Business models





What is an A&R business model?

A&R business models are about more than *'going green'*

- Not focused on reducing emissions and not linked to carbon markets
- However, may generate mitigation 'co-benefits' that can help leverage finance
- Instead, focus is on addressing hazards, risks and impacts

Adaptation business models help people and organizations survive and navigate climate change by **reducing the risks and costs associated with climate change hazards and impacts.**





An A&R business is a company providing technologies, products, or services that:

Address systemic barriers to adaptation by strengthening users' ability to understand and respond to climate change risks and impacts (enabling adaptation)

**AND/
OR**

Prevent or reduce physical climate risk or impacts on assets, economic activities, people, or nature (direct adaptation)



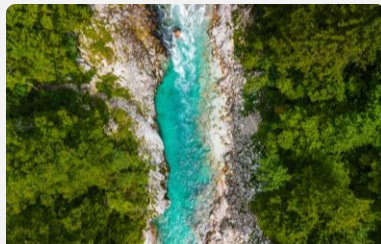
Different ways of reducing risk

When it increases the following resilience capacities of its clients



Anticipatory

E.g. forecasts for planning, agricultural scheduling.



Absorptive

E.g. drainage for better floodwater accommodation



Adaptive

E.g. water storage or irrigation systems for increased drought



Transformative

E.g. new production systems for novel climatic conditions

Resilience to existing hazards & risks

Resilience & adaptation to
new/evolving hazards & risks





When is a Business an A&R Innovation Business?

When it reduces the impacts and costs of climate hazards

- What climate hazards is it helping customers adapt to?
- What costs & impacts (associated with these hazards) is it reducing?
- How is it reducing these costs and impacts (through what mechanisms)?
- If it is enabling adaptation rather than targeting direct adaptation, how is it doing this and which hazards, costs & impacts are most relevant?

Refer to the Climate Causality Framework as a rationale for the business model





Example – Framework application, Kenya

MajiAgri – Water supply & irrigation infrastructure

- Social enterprise with goal of transforming rain-fed farming to irrigated agriculture
- Water infrastructure (harvesting ponds, irrigation), training, agribusiness consultancy
- Blends products and services; spans resilience & adaptation categories

Absorptive – irrigation allows farmers to absorb/cope with impacts of droughts, longer dry periods in the growing season & unpredictable rainfall

However, note risks of maladaptation if irrigations leads to adoption of more water-intensive crops in area with declining rainfall and water resources, including groundwater

<https://www.facebook.com/MajiAgri/>

| <https://ke.linkedin.com/company/majiagri-solutions>



Examples of A&R innovation businesses

Real world case studies





AGROSMART (BRAZIL)

Data services for agriculture

Capacities supported: Anticipatory, absorptive

Provides: services/Climate intelligence

Data platforms and apps for agricultural & climate intelligence

- "brings together the main data, information and indications for your crop"
- Integrates forecasts, custom alerts, sensor telemetry, digital field notebook, irrigation management, reports
- Rainfall & vegetation maps, spraying scheduling (wind), farm-level forecasts
- Targeted resilience across 9 countries in Latin America, 48 million ha, >100,000 farmers

Climate Hazard

Multiple / variability

Impacts of Hazard

Multiple / crop losses,
increased costs

Adaptation Innovations

Monitoring, forecasting, alerts to
guide agricultural planning &
scheduling, planting, etc.





INTEGEMS (Sierra Leone)

Capacities supported: Anticipatory, absorptive
Provides: services

Integrated geo-information and
environmental management services

Environmental & climate information services

- Hazard and risk mapping, climate information disaster management, early warning systems, data collection
- Provision of expertise through consultancy activities
- Multiple partners & clients, including government departments & development agencies
- E.g. national M&E systems, EIAs, development of data dashboards,

Climate Hazard

Multiple climate & env.
hazards

Impacts of Hazard

Multiple disasters & related
impacts

Adaptation Innovations

Multi-hazard profiling to inform
disaster preparedness &
management

<https://seedbombstanzania.org/>





TOSHEKA TEXTILES (Makueni, Kenya)

Capacities supported: Transformative
Provides: products & services

Social enterprise for silk production & garment manufacture

Contract farming of silk via social enterprise

- Tosheka provides materials for rearing eri moth, whose cocoons provide raw material for silk
- Caterpillars feed on native castor plant, which is more resilient to increasingly frequent drought and pests than cotton & maize, thus providing the basis for livelihoods that are better adapted to emerging climatic conditions
- Tosheka markets textiles from silk nationally & internationally, while growers enjoy reliable, climate resilient income

Climate Hazard

Increased aridity, pests

Impacts of Hazard

Failure of cotton & maize crops

Adaptation Innovations

Shift to alternative materials (Tosheka) & income stream (growers) based on silk production

<https://www.facebook.com/ToshekaTextiles/>



Adaptation & resilience

Customers & business modelling



Types of Customers

01

Individuals/ Households

Affordable products, services – small-scale equipment, insurance, seeds, SMS forecasts, food products, etc.

02

Other Bodies

*Multilateral orgs,
NGOs, research
bodies, projects*

Research, data, engagement, implementation, materials, equipment, aggregation (micro-insurance, contract farming, etc.)

03

Other businesses

Consultancy services, data, materials, equipment, supply chains, market access, processing

04

Governments

Consultancy, data, implementation, Public goods (early warnings, utilities infrastructure & services, etc.)





Alis Algae Innovation Solutions (Mexico)

Precision monitoring for biodiversity

Provides: Products to Businesses

Capacity: absorptive, adaptive

Water treatment for reuse

- Microalgae for removal of nitrogen & phosphorus from water bodies & industrial/wastewater
- Low cost, circular, no chemical inputs, odourless; produce water for irrigation feedstock
- Microalgae extracts for food and cosmetics

Climate Hazard

Water scarcity

Impacts of Hazard

Water stress, ecological impacts, threats to supply

Adaptation Innovations

Greater recycling for reuse of water in buildings

<https://www.alismty.com/>





Gentian (UK)

Environmental bioremediation

Provides: Services to Private sector/government

Capacity: Adaptive

Machine learning & remote sensing to

- Map habitat types using AI algorithms + satellite data to measure & predict biodiversity based on vegetation
- Assess urban green infrastructure for adaptation & identify buildings for green roof retrofitting
- Biodiversity baselines & tracking land use change, e.g. for compliance with biodiversity legislation
- Provides services for developers, landowners, municipalities, real estate agents, large corporations
- Reduce costs, increase transparency & scalability of assessments, which are done remotely

Climate Hazard

Range shifts + local stresses

Impacts of Hazard

Habitat loss, species decline,
biodiversity loss

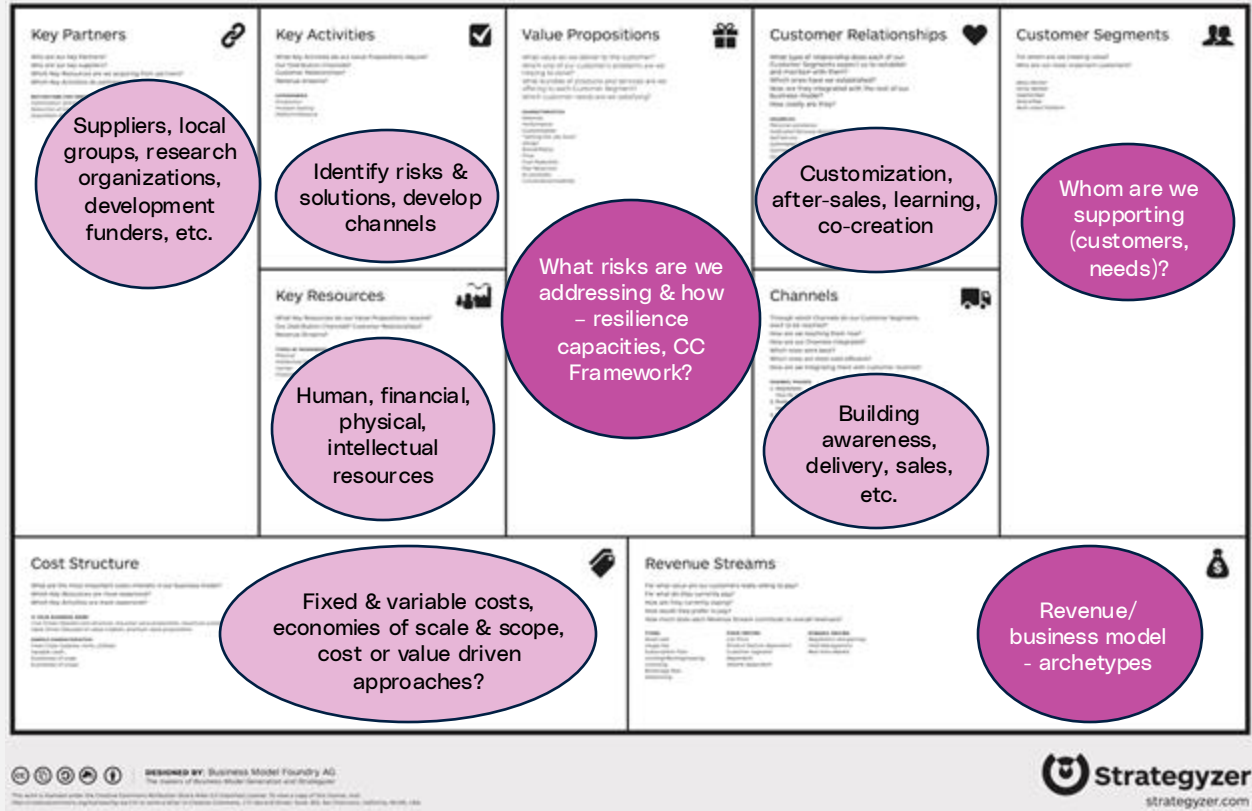
Adaptation Innovations

(Targeting & tracking) of urban
green spaces & biodiversity
hotspot preservation

<https://www.gentian.io/>



Adaptation & Resilience in the Business Model Canvas



Business model archetypes

What archetypes are most relevant for adaptation & resilience businesses?



Business Model Archetypes



Provide on Demand



Razors & blades



Product Financing



Hidden Revenue



Subscription



Freemium



Franchise



Marketplace



Social Enterprise



Aggregators



Cooperative



Public Good



Some Common Archetypes (1)

01

Provide on demand

Produce products or services continuously or when demand is expressed & extract value from direct sales.

Equipment, seeds, advisory services, etc.

02

Razors & blades

Sell core product at low price & extract value from sale of non-durable parts for use with core product.

Equipment with non-durable components or that requires servicing.

03

Product financing

Lease or rent a product – part of lease or rent is a fee, part down-payment.

Equipment, micro-finance bundling.

04

Hidden revenue

Main revenue from 3rd party that cross-finances provision of product or service to potential buyers.

Public goods paid for by government, donors, MDBs, provided by business.





RENAR (MEXICO)

Nature based solutions for sustainable water management

Model: Provide on Demand

Capacity: Absorptive

Provides: Products & services

To: Companies, govts.

- Adaptation & resilience needs addressed – see above
- Customers: large-scale interventions – companies, govts.; smaller – communities, households
- Revenue model: direct selling through provide on demand model
- Engagement: private sector, local govt., communities in areas subject to interventions
- Evolving needs: risks may change due to evolution of hazards, settlement, economic activities
- Keeping pace: track hazards through climate data, maintain engagement with stakeholders

Climate Hazard

Warming, rainfall variability

Impacts of Hazard

Water scarcity, flood & related risks

Adaptation Innovations

- Forest restoration, wetland construction, landscape management (services)
- Rooftop rainwater harvesting systems (products)
- Gabions to prevent riverbank erosion (products)



Some Common Archetypes (2)

01

Subscription

Recurring revenue via a regular fee for products or services.

Weather & climate forecasts, advisories

02

Freemium

Offer basic product or service at no cost and charge a premium for more advanced features.

Equipment with non-durable components or that requires servicing

03

Franchise

Franchisee pays fee to use larger business' (franchisor's) trade name & operating system.

Resilience products, consultancies.

04

Marketplace

Physical or virtual space (or platform) where buyers meet sellers.

Adaptation marketplaces linking providers & customers.





Water Offsets (UK)

Greywater recycling

Model: Provide on demand+

Capacity: Absorptive, adaptive

Provides: Products, services

To: Households, businesses

Water Neutrality software & hardware

- Water reduction, reuse and offsetting, using technology such as Hydraloop with complementary monitoring
- Efficiency, metering, recycling, offsetting within same catchment (water bank)
- Trialled in UK and deploying in Monterrey & São Paulo to reduce water consumption by 25%

Climate Hazard

Water scarcity

Impacts of Hazard

Water stress, ecological impacts,
threats to supply

Adaptation Innovations

Greater recycling for reuse of water in
buildings

<https://www.wateroffsets.co.uk/>



Some Common Archetypes (3)

01

Social enterprise

Sell products and/or services to serve a useful social purpose, e.g. provide employment, livelihoods.

Products derived from resilient & sustainable materials

02

Aggregators

Brining together small producers to increase efficiency, access to markets, services, etc.

Micro-finance, smallholder insurance, contract farming.

03

Cooperative

Business owned & operated by its members (individuals, households, businesses, etc.)

Resilient production with profits invested in adaptation.

04

Public goods

Business provides public goods that are paid for by government or other source (cf hidden revenue).

Early warning systems, information gathering, extension services.





Seed Bombs Tanzania

Supply chain traceability

Model: Public good

Capacity: Absorptive, adaptive

Provides: Products & services

To: Communities

Training students in conservation & reforestation via seed bombs

- Training programs targeting teachers & students who then distribute tree seeds via Seed Bombs
- Leverages indigenous knowledge & community involvement
- Climate change mitigation via carbon sequestration in new tree cover
- Supported by various partners including national & local government, private sector, non-profits

Climate Hazard

Aridification + land use

Impacts of Hazard

Deforestation, ecological degradation

Adaptation Innovations

Targeted reforestation to reverse anthropogenic degradation & enhance climate resilience

<https://seedbombstanzania.org/>



Business Model Archetypes



Provide on Demand



Razors & blades



Product Financing



Hidden Revenue



Subscription



Freemium



Franchise



Marketplace



Social Enterprise



Aggregators



Cooperative



Public Good





Business Impact

At Climate KIC, we use the Adaptation and Resilience assessment tool to empower start-ups to articulate the impact of their adaptation innovations with confidence, equipping them with a foundational set of key performance indicators (KPIs). It offers a tailored approach to gathering both quantitative and qualitative data, transforming them into actionable insights.

- **People** - How many people are directly and indirectly impacted by your innovation?
- **Planet** - How many hectares of natural resource areas are being brought under climate-resilient management practices with or due to your innovation?
- **Economy** - What is the value of physical assets your innovation makes more resilient to the effects of climate change?





About this Validation Statement

This Validation Statement is a public document that provides information about the Climate-ICC's validation process and the results of the validation of the start-up's business plan. It is a key document for the start-up's stakeholders, including investors, customers, and the public. It is also a key document for the start-up's internal management, as it provides a clear and concise summary of the validation process and the results of the validation. The start-up's management should use this document to inform their decision-making and to communicate the results of the validation to their stakeholders.

Validation Certificate

The Validation Certificate demonstrates the substantial impact that the innovation offered by a start-up can have on the adaptation and resilience capabilities of its region and customer base.

Innovation involves a structural assessment conducted by a member of the Climate-ICC team to ascertain the extent to which a start-up's ability to adaptability and resilience of its region and customer base. The process encourages various elements, including the creation of a living system, educational materials, training sessions, and ongoing dialogue between the start-up and a representative from Climate-ICC. This ensures that claims made to the start-up are verified.

The objective of the Validation Certificate is to assist the start-up in telling its own story, while also providing a robust tool for engaging external investors and clients. This serves to enhance the start-up's credibility and potential for growth.

Climate-ICC has validated the information provided by the start-up and has determined that there are no significant additional details which undermine it. It is acknowledged that there may be supplementary information not furnished by the start-up, which has not been evaluated by the team.

Region	Start-up	Validation	Validation	Validation	Validation
Region 1	Start-up 1	Validation 1	Validation 1	Validation 1	Validation 1
Region 2	Start-up 2	Validation 2	Validation 2	Validation 2	Validation 2

Validation Certificate - Validation Certificate

Start-up Name: Climate-ICC

Start-up Address: Climate-ICC

Start-up Phone: Climate-ICC

Start-up Email: Climate-ICC

Start-up Website: Climate-ICC

Validation Certificate - Validation Certificate

Start-up Name: Climate-ICC

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Start-up Email: Climate-ICC

Start-up Website: Climate-ICC

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Validation Certificate

Latam Harvest facilitates the adoption of a more environmentally and economically sustainable energy source.

Latam Harvest introduces an innovative approach to traditional chemical production by utilizing rice husks to produce environmentally friendly fungicides. This solution not only fosters sustainable rice but also enhances food security and provides additional income opportunities for chemical vendors, while offering cost-effective pest management solutions.

It is deemed to be a sustainable 10,000 individuals, including 1,000 women, and directly benefit from the innovation in 2024. This solution addresses growing challenges in Latin America, such as soil and forest degradation, deforestation loss, and reduced food security exacerbated by extreme weather conditions.

By preserving forests and maintaining local ecosystems, Latam Harvest's innovation can mitigate the impacts of extreme weather events, such as its acting as a natural buffer and supporting essential ecosystem services. This approach safeguards agricultural production, promotes natural capital, and enhances local food security.

In 2024, 10,000+ scale of rice-fungicide partnerships, with projections indicating a rise to 150,000 units in 2026.





Validation Statement

Lignum Hercevo's innovation is primarily focused on climate mitigation, but also has adaptation and resilience co-benefits.

The Climate Resilience Framework has been reviewed and is part of this validation.

The innovation supports the following IPCC's resilience capacity category: **Adaptive capacity.**
 Definition: Adaptive capacity is the ability of systems, institutions, and humans to adjust to potential damage, to take advantage of opportunities, or to respond to consequences.

Source: Intergovernmental Panel on Climate Change (IPCC) SR Assessment Report 2018 March 2020

If the adoption of the innovation goes as planned in 2024, Lignum Hercevo's innovation is projected to directly benefit over 10 000 people through improved food security.

Lignum Hercevo's innovation projects to bring 700 hectares of terrestrial non-forest areas under more sustainable management practices in 2024.










Validation Certificate



Key Learnings

- Climate change is intensifying climate hazards & impacts - adaptation & resilience are key
- Businesses can help reduce these impacts & the associated risks & costs by supporting the resilience capacities of their customers to anticipate, absorb, adapt & transform
- Adaptation & resilience businesses can use the Climate Causality Framework to identify innovative products and services that enhance these capacities for their customers
- Products & services can be delivered using a multitude of business model archetypes
- All archetypes are relevant to adaptation & resilience, but some less common archetypes are especially relevant, e.g. for hard-to-reach customers & delivering public good
- Businesses need to demonstrate impact - how will they build resilience capacities?



Questions?

Please raise your hand if you have a question and we will take as many questions as time allows.





Thank you!



Stay connected with us

Please scan the following QR code or use the link to access the feedback questionnaire. We would be grateful if you could take 5 minutes to complete it, so that we can improve the learning experience.



<https://t.ly/pdvI8>