



# FORESIGHT TRAINING TOOLKIT

# WEST AND CENTRAL AFRICA

Developing skills and capacity in applying foresight for climate resilient agricultural development in West and Central Africa





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The Accelerating Impacts of CGIAR Climate Research for Africa (AICCRA) project, led by the Alliance Bioversity International and CIAT helps deliver a climate-smart African future driven by science and innovation in agriculture. AICCRA works to make climate information services and climate-smart agriculture technologies more accessible to millions of smallholder farmers across Africa.

**About AICCRA** Accelerating Impacts of CGIAR Climate Research in Africa (AICCRA) is a project that helps deliver a climate-smart African future driven by science and innovation in agriculture. It is led by the Alliance of Bioversity International and CIAT and supported by a grant from the International Development Association (IDA) of the World Bank. Explore AICCRA's work at **aiccra.cgiar.org** 

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**Design and Layout |** Debra-Jean Harte Photo Cover: ©Adobe Stock

## ACKNOWLEDGEMENTS

This WCA Regional Foresight Toolkit was designed and developed as part of foresight training to support a regional Community of Practice (CoP) of foresight experts in the West and Central Africa Region. A regional training was held in Dakar, Senegal in October 2022, led by Sabrina Chesterman, Constance Neely, and facilitated by Marie Parramon Gurney, with support from Emma-Jane Fuller. Alcade Segnon and Robert Zougmoré provided leadership to the partnership and co-design of the entire training series and foresight application approach. In addition, Alcade co-facilitated key foresight sessions in Dakar and lead stakeholder relationships through the entire process.

We owe much gratitude to the expertise of the CORAF team, namely Dr Nieyidoba Lamien, Dr Emmanuel Njukwe, Dr. Amadou Ngaiado and Pauline Ngandoul Diouf for all their valuable discussions and insights into structuring this froesight training and the establishment of a regional CoP to support the application of foresight across the region.

The West and Central Africa Council for Agriculture Research and Development (CORAF) is a core partner of the AICCRA West Africa cluster. CORAF is an international non-profit association of national agricultural research systems from 23 West and Central African countries. Together with ASARECA (Association for strengthening agricultural research in Eastern and central Africa), CCARDESA (Centre for Coordination of Agricultural Research and Development for Southern Africa) and NASRO (North African Sub-Regional Research Organization), it forms the four sub-regional organizations that make up the Forum for Agricultural Research in Africa, FARA. As an umbrella organization, CORAF delivers on three activity pillars related to:

- A. Scaling technologies and innovations for impact;
- **B.** Regional integrated capacity strengthening and coordination; and
- **C.** Knowledge management, foresighting and anticipation, each of which can address the urgent need to improve the knowledge base and evidence-based dialogue upon which practice and policy responses to climate change are built.

CORAF's 2018-2027 Strategic Plan particularly emphasizes the role of foresight analysis – using historical data and modelling future scenarios to draw conclusions about actions to be taken in the present - to build consensus and inform decision-making on research priorities.

A huge thanks to the regional foresight Community of Practice for all their hard work and support throughout the training (10 – 14 October 2022), their co-facilitation support during the application week (17-21 October 2022), and their eagerness to be foresight ambassadors in the region. Ayodeji Rauf, Dr Hadja Oumou Sanon, Dr Adolphe Mahyao Germain, Edward H. Decker, Dr. Ihegwuagu Nnemeka Edith, Dr Wouedjie, Thegue Alice-Norra, Dr. Nathalie Kpera, Dr. Djondang Koye, Aminata Bâ Dia, Dr Amadou Abdoulaye M. Bahari, and Nestor Ngouambe.



The Accelerating Impacts of CGIAR Climate Research for Africa (AICCRA) project, led by the Alliance Bioversity International and CIAT helps deliver a climate-smart African future driven by science and innovation in agriculture. AICCRA works to make climate information services and climate-smart agriculture technologies more accessible to millions of smallholder farmers across Africa. With better access to technology and advisory services—linked to information about effective response measures—farmers can better anticipate climate-related shocks to take preventative action that helps their communities safeguard livelihoods and the environment. AICCRA is being implemented across scales (continental, regional and country levels) in Africa.

The West Africa regional level implementation led by AICCRA West Africa Cluster (AICCRA WA) collaborates with the West and Central Africa Council for Agriculture Research and Development (CORAF), an association of national agricultural research systems from 23 West and Central African countries, and AGRHYMET Regional Centre, a specialized institute of the Permanent Interstate Committee for Drought Control in the Sahel (CILSS), to ensure that effective large-scale intra-regional and south-south adoption within various value chains are taking place through innovative delivery models for climate services and CSA from West Africa. AICCRA aims to increase access to climate information services and climate-smart agriculture technologies in Africa.

### aiccra.cgiar.org



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### www.coraf.org

AICCRA	Accelerating the Impact of CGIAR Climate Research for
	Africa
AU	African Union
CAADP	Africa Agriculture Development Programme
CEMAC	Economic and Monetary Community of Central Africa
CILSS	Permanent Interstate Committee for Drought Control in the Sahel
СоР	Community of Practice
CORAF	West and Central Africa Council for Agriculture Research
	and Development
CSA	Climate Smart Agriculture
ECCAS	Economic Community of Central African States
ECOWAS	Economic Community of West African States
EWS	Early Warning Systems
FAO	Food and Agricultural Organisation
FAW	Fall Army Worm
IDRC	International Development Research Centre
IPPC	International Plant Protection Convention
LECRDS	Low Emission Climate-Resilient Development
MSP	Multi-Stakeholder Partnerships
NARIs	National Agricultural Research Institutes
NARS	National Agricultural Research Systems
RVF	Rift Valley Fever
SHARED	Stakeholder Approach to Risk Informed and Evidence-
	based Decision-making
WCA	West and Central Africa
WOAH	World Organisation for Animal Health
₩НΟ	World Health Organisation



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### THE AIM OF THE REGIONAL FORESIGHT TRAINING TOOLKIT

This regional foresight training toolkit aims to support a regional foresight community of practice to practically apply the range of foresight tools and methods for innovative strategic planning and policy formulation in their respective institutions. The training approach is mapped out on the following page.

# FORESIGHT COMMUNITY OF PRACTICE TRAINING APPROACH



### FORESIGHT KEY FRAMEWORK STAGES

DATA, EVIDENCE, KNOWLEDGE AND CREATIVITY

STAKEHOLDER ENGAGEMENT AND PARTICIPATION

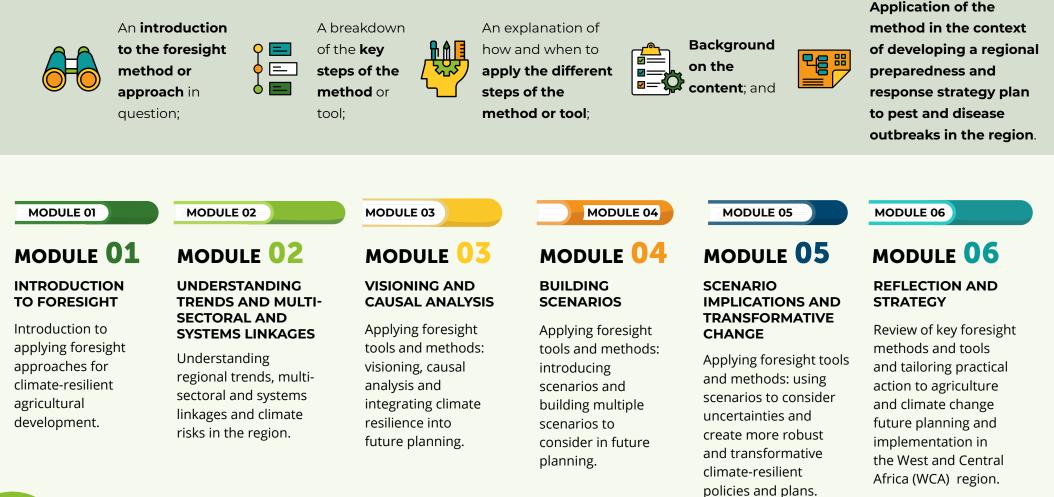
### SITUATIONAL ANALYSIS LONG TERM FUTURE PLANNING Interpretation Prospection Reflection Analysis Plan Strategy Input What do we want What is What might happen What will we do What might we want Context Why is it happening? happening? to experience in the that we have not to do to get there? differently? future? What might thought about? get in our way? Scope Historical Systems trends mapping Backcasting Developing Develop Theme or analysis Visioning road map scenarios kev topic Cross Horizon sectoral Geopolitical Pathway boundary scanning and multi-Causal Scenario Sequencing development relationships implications analysis stakeholder & trade-offs approaches Understand relevant Multi-Network Transformation structures stakeholder actions mapping and policies co-ordination Setting the **Behaviour shift** timelines mapping Mapping the stakeholders

Influence and power relations

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# STRUCTURE OF THE TOOLKIT

The toolkit comprises six modules structured to both show the methodology but also to be applied, by building a clear case study and examples of climate-resilient development in agricultural systems with relevance to the WCA region. This allows the user to gain insights into both the foresight tools, methods, and key steps but also to embed case studies and practical examples to better apply those methods into their own national and institutional contexts.



# **GLOSSARY OF KEY TERMS**

### FORESIGHT

Term	Description	Term	Description
Backcasting	The process of working backwards from the definition of a possible future to determine what needs to happen to make the future unfold and connect to the present.	Critical Uncertainties	Are drivers that are both highly impactful and highly uncertain.
Barrier	Identified obstacle that could stop the achievement of an activity.	Cross-cutting Issues	Issues or challenges that affect more than a single interest area, institution, or stakeholder, and that need to be addressed from all points
Black Swan	An event that could absolutely not be predicted.	Drivers	Are factors, issues or trends that cause change
Brainstorming	A method of obtaining ideas without judgement or filtering. It involves encouraging wild and unconstrained suggestions and listing ideas as they emerge.	Drivers	thereby affecting or shaping the future.
Causality	A logical link between events, where a cause precedes an effect and altering the cause alters the effect.	Driving Force	A cluster of individual trends on the same general subject moving trends in certain directions, they are broad in scope and long term in nature (for example, climate change or globalisation).
Complexity	Complex systems are non-linear and diverse networks made up of multiple interconnected elements. Cause and effect relationships within the system are not easily discernible	Evidence	The integration of raw data constituting numbers, words, images, and insights emerging from diverse knowledge sources.
	or predictable. Historical extrapolation is not possible for predicting emergence (new patterns and behaviours) in complex systems.	External Driver	External force of change, for example political or market drivers.

Term	Description		
Feasible	Possible and practical.		
Forecast	An estimate or best guess of what might happen in the future i.e. not a definitive prediction.		
Foresight	Structured tools, methods and thinking styles to enable the capacity to consider multiple futures and plan for them.		••••
Foresight Organising Group	A small core group that builds the foresight plan.		
Foresight Participating Group	A broad mix of identified key stakeholders that need to be involved.	-	
Futuring	The act, art, or science of identifying and evaluating possible future events.		
Futures thinking	Describes the practice of thinking about the future in a structured way, and the methods and approaches that are used to do so.		

Term	Description
Grey Rhino	These are the large, obvious dangers that will sooner or later emerge but whose exact timing is unknown.
Impact	Refers to the potential scale of impact of a driver on a scenario theme.
Internal Driver	Internal force of change for example, social drivers within a farm or community directing the decision making of a farmer.
Mega-trend	A trend that is apparent at a large or global scale e.g. growing youth population across the African continent.
Mind Mapping	Allows a group's ideas to be charted in logical groupings fairly quickly, even when ideas are given in a non-sequential manner. This technique allows efficient brainstorming for ideas and at the same time creates a skeletal framework for later categorisation of the information generated.
Modelling and Simulation	The process of creating and experimenting with a computerised mathematical model imitating the behaviour of a real-world process or system over time. Simulation is used to describe and analyse the behaviour of a system when asking 'what-if' questions about the real system and aid in the design of real systems.

Term	Description
Not Predictive	Participatory with multiple viewpoints, bringing in quantitative and qualitative evidence but not predictive.
Pathway	A trajectory in time, reflecting a sequence of actions and consequences against a background of separate developments, leading to a specific future situation.
Plausible	It is reasonable to assume the scenario could happen. Plausibility does not mean that a future situation will happen.
Predictability	The degree of confidence in a forecasting system based either on law derived from observations and experience, or on scientific reasoning and structural modelling.
Projecting	A quantitative technique that can be used in the analysis phase of the foresight process. Projecting or time series analysis are used when several years of data are available, and trends are both clear and relatively stable.
Projection	An expected value of one or more indicators at particular points in the future, based on the understanding of selected initial conditions and drivers.
Resilience	A system's ability to cope with and recover from shocks or disruptions, either by returning to the status quo or by transforming itself to adapt to the new reality.

Term	Description
Scenarios	Are storylines/narratives, answering 'what if' questions that describe multiple alternative futures spanning a key set of critical uncertainties. Scenarios identify future drivers of change and then plot out plausible directions that they may take.
Scenario Development	An approach to understanding highly impactful and highly uncertain drivers and to describe possible future states. Although they address uncertainty, scenarios are not predictions or forecasts - they are not 'true' or correct/wrong - only plausible.
Scenario planning	Is a technique of strategic planning that relies on tools and technologies for managing the uncertainties of the future
Social Network Mapping	A tool to identify the importance and influence of stakeholders as well as how they exchange information or are connected.
Strategic foresight	The combination of foresight and strategic management
Time Frame	The complete period (past-to-future) considered in a foresight exercise.

Term	Description
Transformation	An agriculture and food systems transformation is a significant redistribution - by at least a third - of land, labour and capital, and/ or outputs, and outcomes (e.g. types and amounts of production and consumption of goods and services) within a time frame of a decade.
Trend	A general tendency or direction of a movement or change over time e.g. increasing erratic seasonal rainfall patterns.
Trend Impact Analysis	Collecting information and attempting to spot a pattern, or trend, and assess its influence from the information.
Uncertainty	Refers to how much or how clear we are on how a driver will emerge or play out in the future. High uncertainty does not mean 'high improbability', high uncertainty can mean having little knowledge of how something may pan out.
Underlying Cause	Unpacking why an obstacle is in place.

Term	Description
Unknown Unknowns ?	Issues and situations in organisations that have yet to surface and which are blind spots for planners who are unaware that they do not know about them.
Viable	Able to be done or could occur.
Vision ⊕–⊖ ⊛→⊜	A compelling image of a (usually preferred) future.
Visioning	A well-known prospective technique with a highly participatory approach.
Wicked Problem	A problem that is difficult or impossible to solve because of incomplete, contradictory, and changing requirements that are often difficult to recognise.
Wild Card	A low-probability but high-impact event that seems too incredible or unlikely to happen.

### **CLIMATE RESILIENCE**

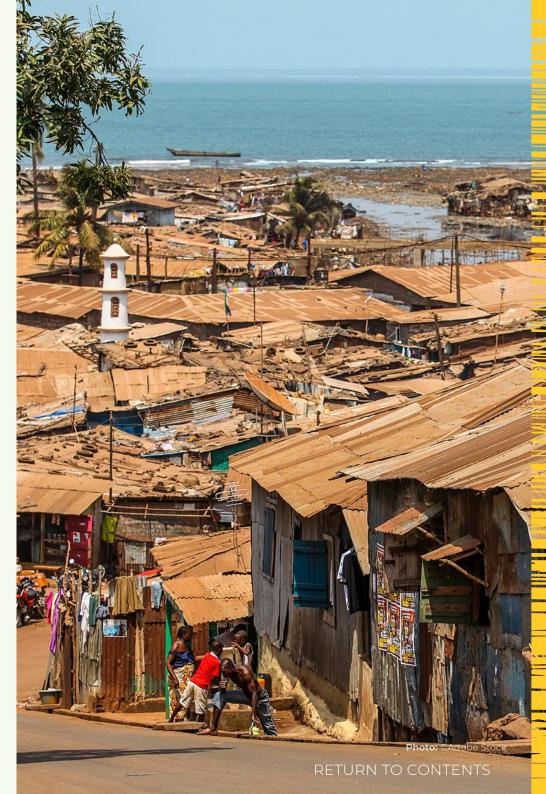
Term	Description
Adaptive Capacity	The ability of systems, institutions, humans, and other organisms to adjust to potential damage, to take advantage of opportunities, or to respond to consequences.
Climate Change	Climate change is a change in the state of the climate that can be identified by changes in the mean and/or the variability of its properties and that persists for an extended period, typically decades or longer.
Climate Resilience	The ability of a system to 'bounce back' from the impacts of climate-related stresses or shocks. It is the ability of a system and its component parts to anticipate, absorb, accommodate, or recover from the effects of a hazardous event in a timely and efficient manner, including through ensuring the preservation, restoration, or improvement of its essential basic structures and functions.
Exposure	Refers to the inventory of elements in an area in which hazard events may occur.

Term	Description
Hazard	A possible, future occurrence of natural or human induced physical events that may have
	adverse effects on vulnerable and exposed elements.
Risk	Intersection of hazards, exposure, and vulnerability.
Sensitivity	The degree to which a system is affected, either adversely or beneficially, by climate variability
	or change.
Social Vulnerability	Inability of people, organisations, and societies to withstand adverse impacts from multiple
	stressors to which they are exposed.
Vulnerability	The propensity or predisposition of a system to be adversely affected by an event. Vulnerability
all all	is a function of a system's sensitivity, and its adaptive capacity.

Term	Description
Agriculture	Is the science, art, or practice of cultivating soil, producing crops, and raising livestock and in varying degrees the preparation and marketing of the resulting products.
Agricultural Value Chain	Includes the people and activities that bring a basic agricultural product such as maize to the consumer. The activities include obtaining inputs and production in the field right through to storage, processing, packaging, and distribution.
Biological Diversity	The variability among living organisms from all sources, including terrestrial, marine, and aquatic ecosystems.
Cross Sectoral Coordination	The engagement, management, planning and implementation, of activities conducted across different thematic sectors to deliver development outcomes (e.g. food security, nutrition, sustainable landscapes, and agriculture).
Ecosystem Services	These include provisioning services, such as the production of food (e.g. fruit for humans or grazing for cattle) and water; regulating, such as the control of flooding and disease; supporting, such as nutrient cycles and oxygen production; and cultural, such as spiritual and recreational benefits.

Term	Description	
Elements	The different, discrete elements within a system (e.g. farms, organisations, inputs, and soil).	
Interconnections	The relationships that connect the elements (e.g. rules, ideas, funding, or service relationships, among others).	
Land Degradation	A process in which the value of the biophysical environment is affected by a combination of human land-use activities. It is viewed as any change or disturbance to the land perceived to be undesirable.	
Multi-Stakeholder Collaboration	Consists of a mix of representatives or stakeholders from public, civil, and private domains of society.	
Post-Harvest Loss	Is the loss in quantity and quality of agricultural produce between harvest and consumption. It includes on-farm losses e.g. damage to grain by pests, as well as losses along the value chain during transportation, storage, and processing.	
Pre-production	This stage of the agricultural process is prior to production and may involve land preparation and the sourcing and purchasing of inputs such as seed and fertiliser.	

Term	Description	
Productive Inputs	These are used to increase yields and range from improved seeds, genetics, fertilisers and crop protection chemicals to machinery, irrigation technology and knowledge.	
System	An interconnected set of elements that is coherently organised in a way that achieves something (function and purpose). For example, the purpose of an agricultural system could be to produce dairy products and the system could consist of interconnected elements such as the farmer, employees, cattle, machinery, feed, water, and energy.	
Systems Thinking	A mindset, tool, and process that is reserved for complex problems.	
Systems View	Understands life as networks of relationships.	
Transboundary Animal Disease	Epidemic disease which is highly contagious or transmissible and has the potential for very rapid spread, irrespective of national borders, causing serious socio-economic and potentially public health consequences.	







is the ability to prevent disasters and crises as well as to anticipate, absorb, accommodate or recover from them in a timely, efficient and sustainable manner.

### PREPAREDNESS

refers to a continuous cycle of planning, organizing, training, equipping, exercising, evaluating, and taking corrective action in an effort to ensure effective coordination during incident response. Preparedness is associated with disaster risk reduction.

### **EARLY WARNING**

- Early warning systems are designed to enhance detection of pests and diseases to prevent introduction and spread.

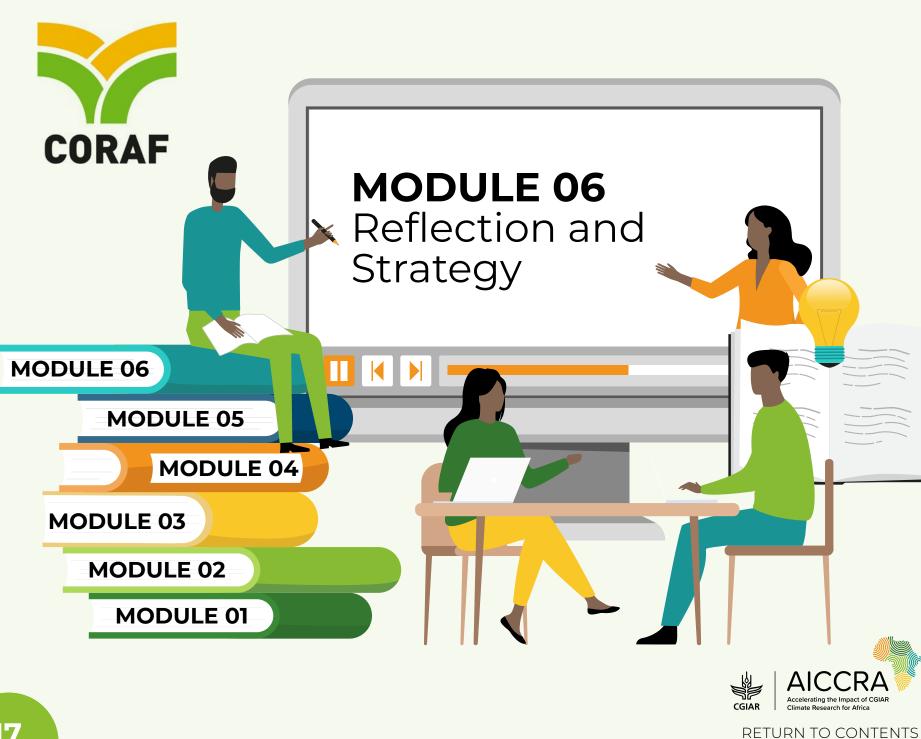
Early warning systems provide up-to-date, accurate information on emerging crop and livestock pests that may be a threat to agriculture or natural resources if they become established in new countries.

### **RESPONSE** refers

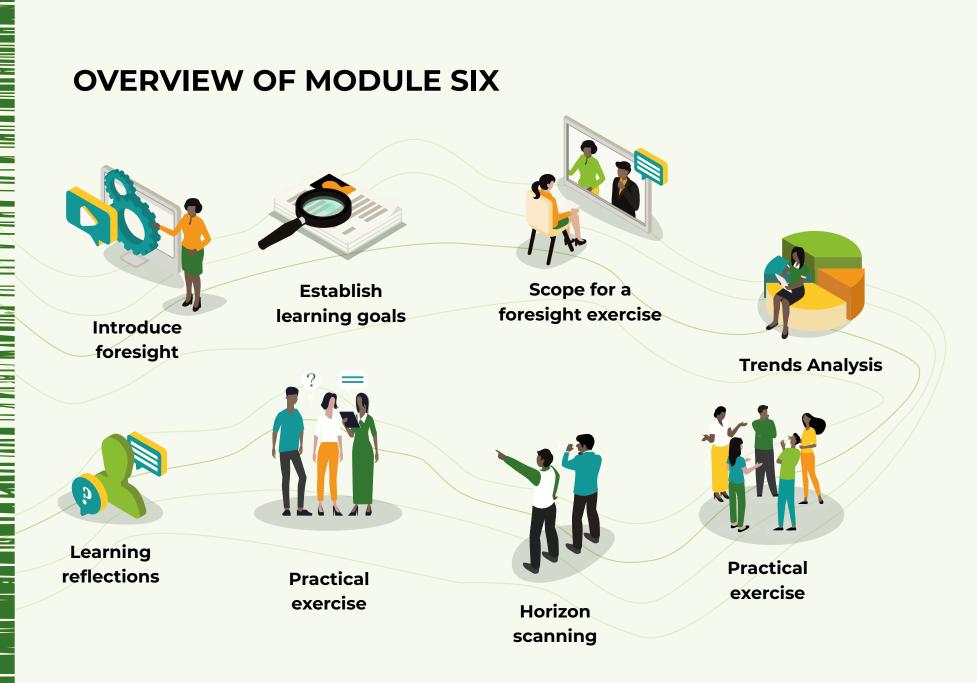
Photo: ©Adobe Stock

to a series of coordinated activities involving one or more organizations, in order to respond to pests and disease concern/ outbreak and bring the situation under control.

The development of decision support systems requires an understanding of what information is needed, when it is needed, and at what resolution and accuracy.

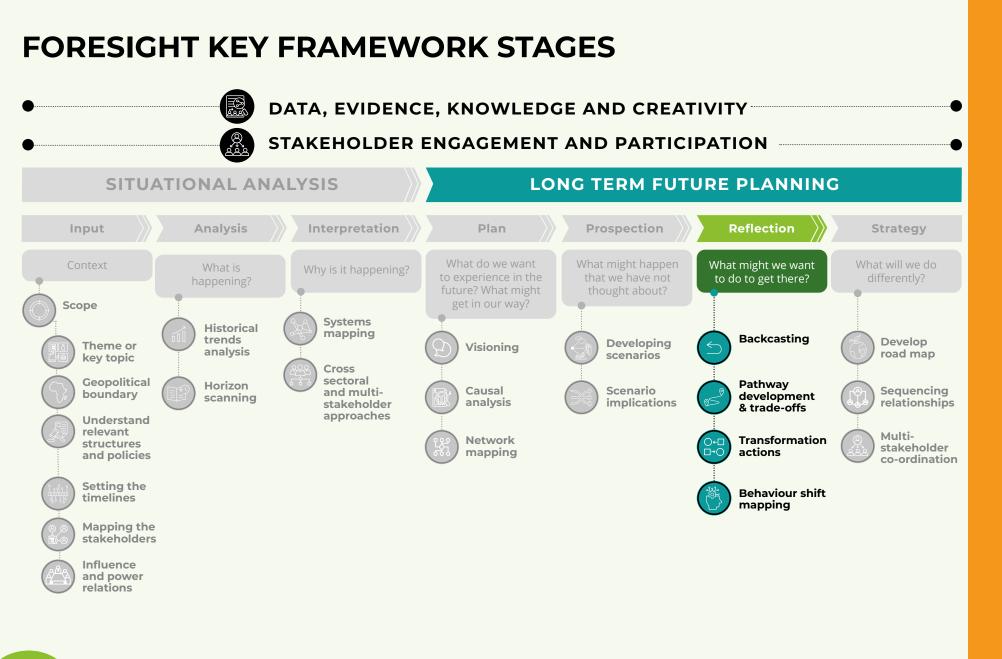


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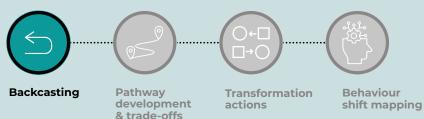
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### REFLECTION





### CORE GUIDING QUESTIONS OF FORESIGHT

What seems to be happening?

What's really happening?

What do we want to happen?

What might happen?

What do we need to do?

### BACKCASTING

is an approach that starts with defining a vision or desirable future and then works backwards to identify key actions, partnerships, policy changes that will connect that future to the present.



### **QUESTION?**

Backcasting asks the question, **"how did we get here?"** and contributes to shifting mindsets to be creative in our planning process.

### **BACKCASTING STEPS**



Step into 2035 and position yourself in the successfully achieved vision such that the future becomes the present.

Look back to 2021 and ask "what do we remember about how we got to here?"; "what actions, partnerships, policy changes, etc. did we carry out" to get to the 2035 success?



Remember **which barriers we overcame** and how we addressed them.



As best possible identify when key activities took place.

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### LEARNING EXERCISE

### Backcasting

In this exercise we will consider one aspect of our 2035 vision as if we have successfully achieved and look back to see what we did to get to this day.

### **HOW** DID WE GET TO WHERE WE ARE NOW?

### We are in 2035 and have successfully achieved this aspect of our vision and desired future:



Outcome. Farmers and pastoralists across the 19 CORAF member countries are using climate resilient, climate-smart, and agro-ecological approaches and ably providing diverse sources of food to equitably meet food and nutritional security requirements of rural and urban populations.

Describe what you remember about how we managed to successfully achieve this and when.





To achieve our success, we had to overcome barriers. How did we do that?

Describe what you remember about how we were able to minimize the effects of the drought in Mali, Burkina Faso, and Cape Verde in 2026?

### 3 HOW WERE SOME OF THE NEW STAKEHOLDER GROUPS WE BROUGHT IN?



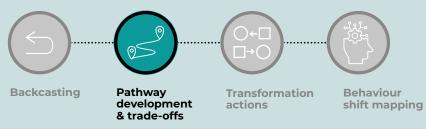
To achieve our vision, what were some of the surprising new partnerships we formed?

Give us an example of a new partnership we formed to achieve our vision.

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### REFLECTION



### TRANSFORMATIVE PATHWAYS AND TRADEOFFS

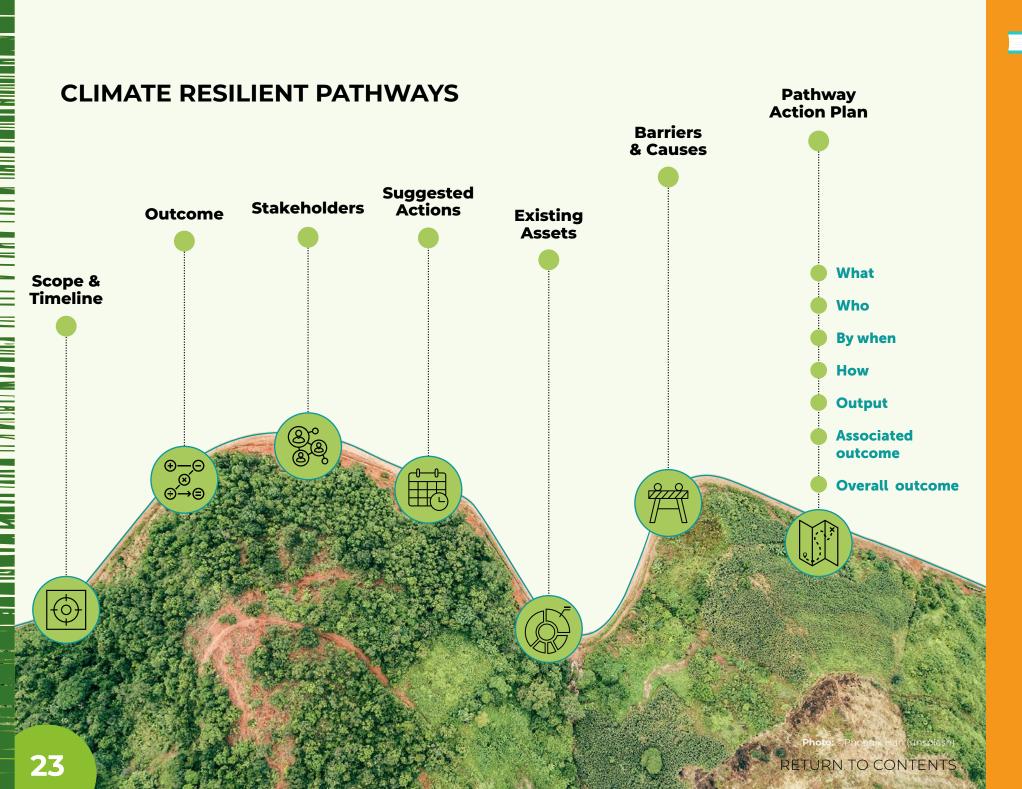


### What is the Method

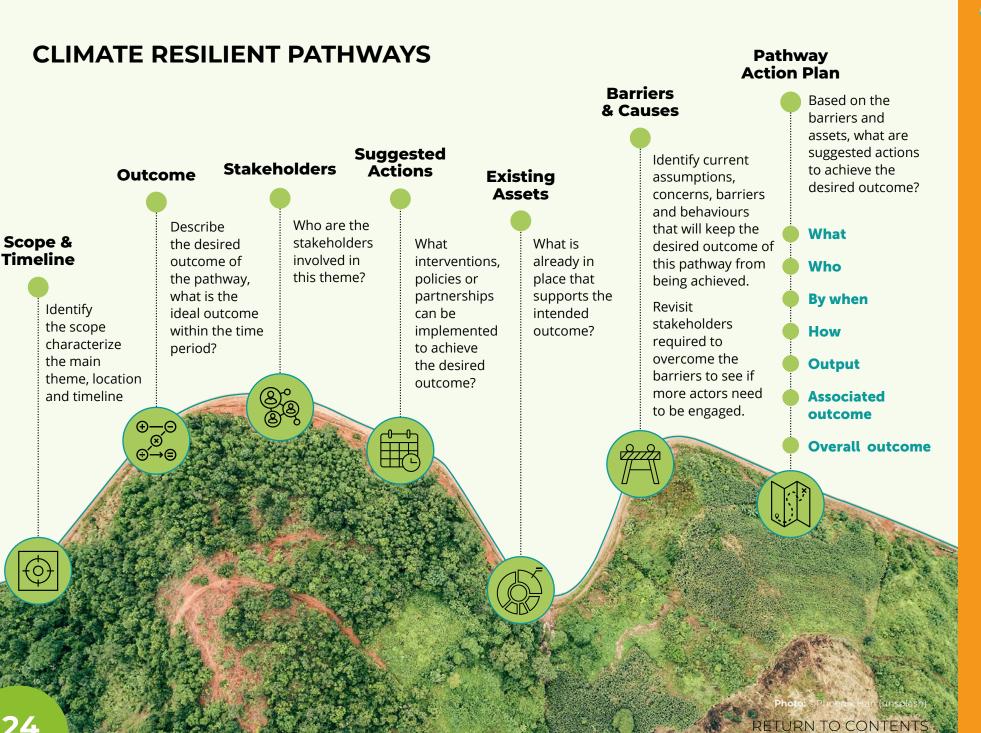
- Pathways outline the actions, actors and time frames necessary to achieve the agreed outcome.
- They are often called impact pathways or theories of change.







MODULE 06 Reflection and Strategy





### Scope and time

Climate smart, agro-ecological solutions to address water scarcity and build climate resilience in agricultural systems by 2030.

### Outcome

Farmers (women, men and youth) are applying ecosystem based, agro-ecological, climate smart and water saving practices and technologies to adapt farming systems to effects of climate change and improve food security and profitability.

### Suggested actions

- Promoting short distribution webs and build local markets.
- Promoting integrated farming systems to increase diversification (crops, livestock, fish, trees).
- Build capacity for sustainable land management practices and water harvesting techniques.
- Develop seed saving networks.
- Integrated pest monitoring and management.
- Labour sharing across farms.
- Promote participatory governance of food systems.
- Expand regenerative and conservation farming.

### Assets

- Building off local CBO networks engaged in integrated farming training.
- Local informal labour sharing agreements.
- Agro-ecological practice promoters.
- Conservation agriculture groups.
- Existing projects and programs.

### **Barriers**

- Lack of understanding of relationship between land management and water availability.
- Lack of diversity (crops/livestock/fish/multi-purpose trees) in farming systems.
- Separate sectoral advice to farmers (health, agricultural extension, nutrition, veterinarians, irrigation).
- Lack of integrated water management policies.

### **Underlying causes**

- Unsustainable agricultural practices.
- Limited access to local and higher scale markets for diverse products.
- No cross-sectoral planning processes for water management and climate resilience actions.

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### **CHECKING FOR TRADE-OFFS**

Agro-ecological climate smart processes Develop a climate smart, ecosystem based strategy



Markets for small grains Awareness campaign on the benefits of small grains



Would farmers potentially trade off maize subsidies for drought

Vested interest in small grains

could result in fertilizer subsidies

farming systems or seed saving

that may disincentivize integrated

Promoting subsidies and fertilization versus agroecological approaches

resilient crops

### Outcome

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Enabling environment that promotes a policy incentive and implementation path for ecosystem-based approaches in farming systems

### Outcome

Increased demand for producing, processing, marketing and consuming small grains

### Outcome

Functioning distance extension services to support farmers in applying climate smart practices

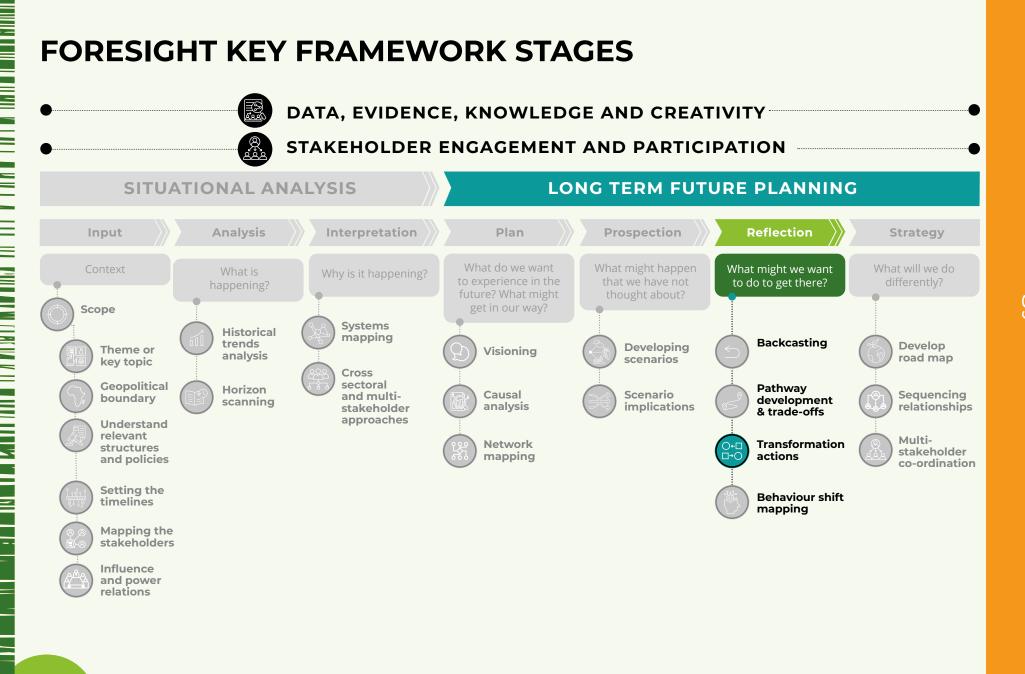
Photos: TOP | © Alex Fassio (CFOR) MIDDLE | ©S.Kilungu (CCAFS)

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Digital extension Develop linked radio and mobile phone communications for distance extension service remote communities



ecological a



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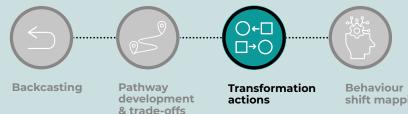
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### REFLECTION



shift mapping

**OUESTION?** When you hear the term transformative change what do you think of or how would you define it?

Today's interim report from the UNFCCC is a red alert for our planet. It shows governments are nowhere close to the level of ambition needed to limit climate change to 1.5 degrees and meet the goals of the Paris Agreement

Secretary-General António Guteres on the report findings (February 2021)

UN Climate Panel tells us we have 10 years left to begin a radical transformation of this civilization to move quickly to a zero emissions society... we need a new economic vision and a game plan ....we are moving from the age of progress to the age of resilience"

Jeremy Rifkin

As opposed to incremental adaptation, which the IPCC says aims to maintain existing systems through measures such as introducing more droughtresistant varieties of crops or using more efficient irrigation, transformative adaptation is intended to change the fundamental attributes of agricultural systems in response to actual or expected climate and its effects, often at a scale and ambition greater than incremental activities. World Resources Institute

### **KEY TERMS**



**Transformational change** - includes major long-term changes in the way we operate and may shift us between or into new 'systems' and processes.



**Incremental change** - refers to change that occurs slowly and without necessarily modifying the essence of social structures or organizational practices.

### TRANSFORMATIVE CHANGE

- The future that is coming often requires significant change.
- Transformative change requires sometimes radically new interventions, policies and partnerships.
- It requires disruptive technology which can be defined as any innovation that dramatically changes the way consumers, businesses and industries operate.
- Moves us beyond incremental change and results in major long-term changes in the way systems operate.





### **REFLECTIONS AND GUIDING QUESTIONS**

### WHAT MIGHT TRANSFORM?

Transformational Shifts

- Markets to networks
- Transactions to Flows
- Ownership to Access
- Sellers and Buyers in negotiation- to producers and users in networks
- Gross Domestic Product to Quality of Life
- Productivity to Regenerative
   Jeremy Rifkin

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and Strategy 



### WHAT MIGHT TRANSFORM?

The next industrial revolution will emphasize:

- Communications
- Power/energy
- Transportation, mobility and logistics
- Education
- Productivity to Regenerative

Jeremy Rifkin

# QUESTIONS & ANSWERS

WHAT IS A TRANSFORMATION?

66

An agriculture and food systems transformation is a significant redistribution—by at least a third—of land, labour and capital, and/ or outputs and outcomes (e.g. types and amounts of production and consumption of goods and services) within a timeframe of a decade"

Steiner et al. 2020

Photo: ©Freepik

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# 0 06 and Strategy

### **CATEGORIES OF TRANSFORMATIVE ACTIONS**



INTEGRATED AND ADAPTIVE INTERVENTIONS



FLEXIBLE, ROBUST AND SYNERGISTIC INSTITUTIONS AND POLICIES THAT DRIVE IMPLEMENTATION



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### **CATEGORIES OF TRANSFORMATIVE ACTIONS**



### INTEGRATED AND ADAPTIVE INTERVENTIONS

- A monitoring, reporting, and verification system.
- New design/infrastructure.
- **Scaling** existing innovations.
- Awareness, knowledge, skills, empowerment development.
- Knowledge/data platforms.
- New technology.
- A lifestyle or **behaviour change**.
- Finance/incentives/subsidies

   (Financial technology to get private sector to directly pay farmers for restoring land health).
- New businesses and business models (loan facility for smaller holder farmers that can geo-stamp).

POLICY	



### FLEXIBLE, ROBUST AND SYNERGISTIC INSTITUTIONS AND POLICIES THAT DRIVE IMPLEMENTATION

- Changes in decision making processes (Develop formalized office in financial planning for cross sectoral coordination, joint planning and joint budgetary allocations).
- A form of decentralization or **distributed decision making**.
- Nested scale policy design.
- Time bound reflections on policies.
- Cross sectoral policy development and financing frameworks.

### NOVEL PARTNERSHIPS, CROSS SECTORAL OR MULTI-STAKEHOLDER RELATIONSHIPS

- New set of actors working together in an informal or formal setting.
- New cross sectoral, multistakeholder relationships.
- Pooling resources, money or labour for synergy.
- **Trans-generational** and thematic partnerships.

and

Strategy

We often build our plans and strategies based on actions that result in incremental change when we need actions that are transformative and suitable for the future that is coming.

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Using foresight tools and methods, we can plan the transformational change that will be needed to move towards the future we want.

REFLECTION



actions

development

& trade-offs



**Behaviour** shift mapping

### **BEHAVIOUR SHIFT MAPPING**

### **OUTCOME MAPPING**

### What is it

A framework developed by the International Development Research Centre (IDRC) for systematic capture and tracking of observable changes in the behaviours, actions, activities and relationships of targeted stakeholders.

### Why we use it

To plan, track and adapt engagement with target stakeholders (boundary partners) to towards desired outcomes.

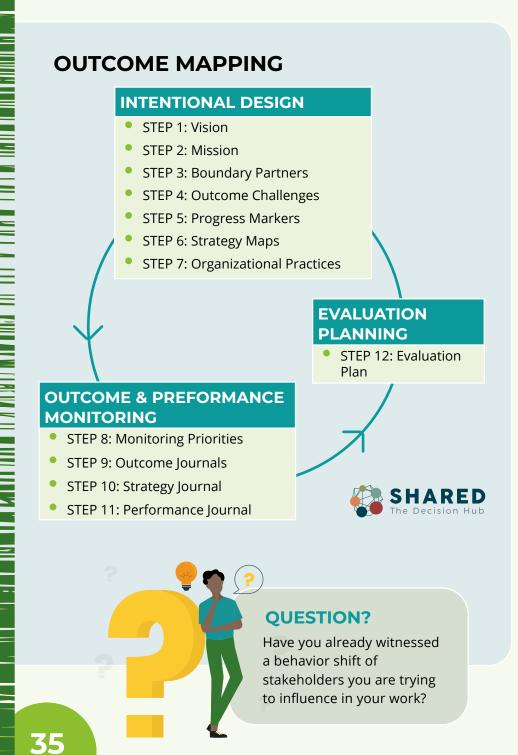
### **KEY ELEMENTS AND STEPS**

- Intentional Design. ۲
- Outcome and Performance Monitoring.
- **Evaluation Planning.**

and

Strategy

### **RETURN TO CONTENTS**





### **Regreening Africa** project working across eight countries in Africa

In this example, a simplified version of the outcome mapping

Actual

engagement

undertaken



or implementation

challenge being

addressed

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Planned

engagement strategies

for year



Stakeholder(s)



Challenge



Planned Progress Markers





Change/lesson/ activities for next year

challenge & progress markers

Evidence for

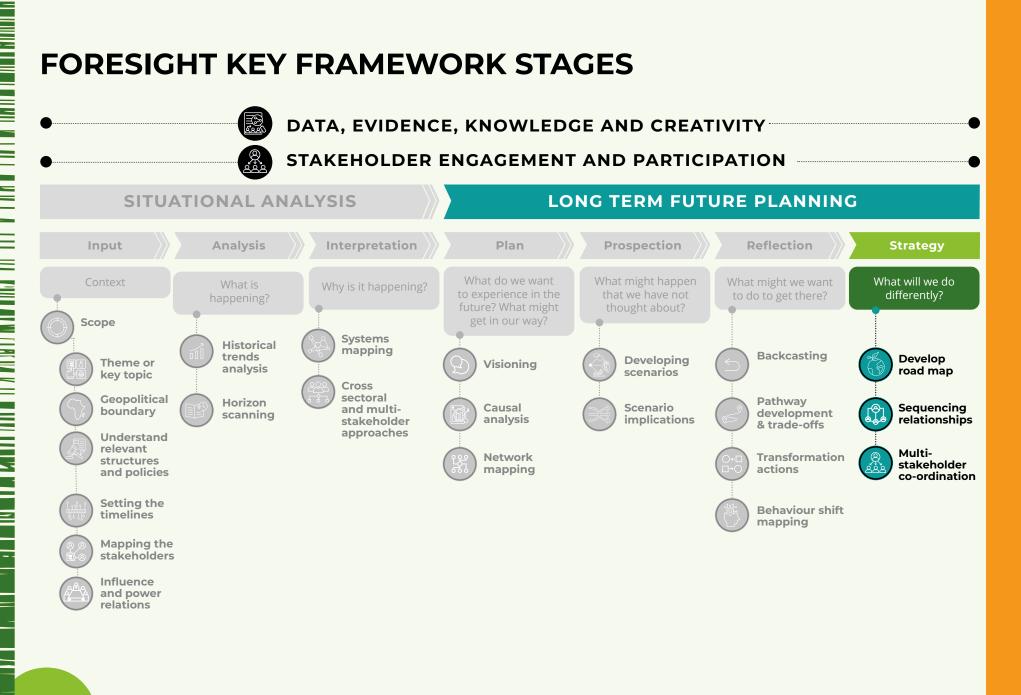
progress on

outcome

### The process is:

- Being used to track project wide practice and policy influence in each country.
- Allows the project countries to reflect on progress annually to be adaptive and to include behaviour shifting activities in the next annual budget and workplan.

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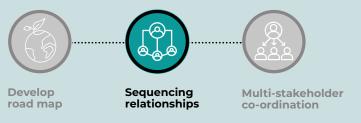
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### STRATEGY



### STRATEGY PHASE SEQUENCING RELATIONSHIPS

### What is it

Sequencing relationships is a partnership leveraging approach that builds on your stakeholder map and relies on shuttle diplomacy and iterative conversations and dialogues to strengthen engagement.

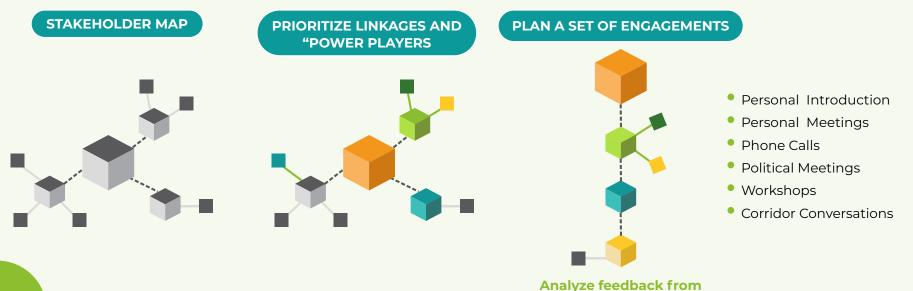
### Why we use it

Understanding the stakeholder you need to engage and getting them on board in order of priority and power of requires multiple steps for relationship building.

### **KEY STEPS**

each engagement

- Using your stakeholder map, prioritize linkages between stakeholders that can be easily leveraged.
- 2 Outline power players these would be strategic meetings and where you need to get buy-ins or endorsement.
- Plan a set of engagements (e.g. personal introductions, phone calls, official meetings, or corridor conversation).
- 4 Analyse the feedback from each engagement which may alter your sequence.



and

Strategy



### What is it

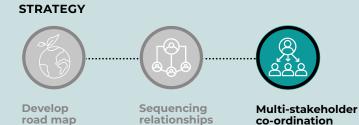
The approach is a systematic process to understand what information, what format, and what quality is flowing between stakeholders.

### Why we use it

To get an accurate understanding of key evidence and where there are gaps in information synthesis or collaboration and to motivate for more synergy in information collection and better support stakeholder linkages.

### **KEY STEPS**

- 1 For your relevant theme or sector, and with relevant stakeholders, start your information flow with the most local level of information collection
- 2 Trace how that information (e.g. nutrition status, dietary diversity) goes from a household level to a decision making level (e.g. district budget allocation for nutrition)
- 3 Along your flow, highlight the format of information (e.g. verbal, ledgers or hand-written) and the quality.



### MULTI-STAKEHOLDER CO-ORDINATION

### What is it

- Space for collaboration and partnerships between different interest groups ranging from businesses, government, civil society, and science
- Purposefully organised interactive processes to foster participation in dialogue and decisionmaking about shared challenges, policy and implementation actions

### Why we use it

- Roles and mandates of MSPs vary but the aim is to develop collaborative decision-making and multi-level governance processes that enable shared perspectives, new understanding, and collective commitment for solutions
- Unlock people's potential to cooperate and innovate to reach sustainable development goals.

### **KEY LESSONS FOR SUCCESSFUL MSPs**

# Scope, mandate and engagement design



**Conduct a situation analysis**, stakeholder mapping, tease out inequity issues in decision making processes and benefit sharing.



Tailor the stakeholder engagement and collaborative process design to the context:



Actors: power dynamics (gender, ethnic, economic), history of past and present initiatives, time and funding available.



**Governance:** control of decision making, recognition of rights, commitment to decentralisation, institutional landscape.

### Social capital: developing relationships and strategies



Use visioning, root cause analysis and outcome mapping tools to prioritise issues.



**Examine future scenarios**, identify goals and agree on

change strategies including actions and responsibilities.



Deepen understanding and trust.



Secure commitment to **processes and goals** by building consensus and political will. 

### **KEY LESSONS FOR SUCCESSFUL MSPs**

Collaborative development and implementation of actions



**Build capacities** of **key** stakeholder to lead and deliver - training and knowledge sharing including field visits and exchange visits.



### Secure resources and support.

Co-design and implement detailed action plans.



# Feedback evidence to

influence national and subnational policy.

### **Reflective and iterative** learning cycles



Implementation with reflective learning cycles that feeds back into adaptive management -monitoring progress against agreed criteria of success.



### **Create a learning** culture and environment to generate lessons.



Knowledge cocreation and communication, ensure feedback loop mechanisms (multi directional: national, regional and local).

### Sustainability and exit strategy



Reviewed periodically in relation to goals and associated timeframe.

Ruce and State



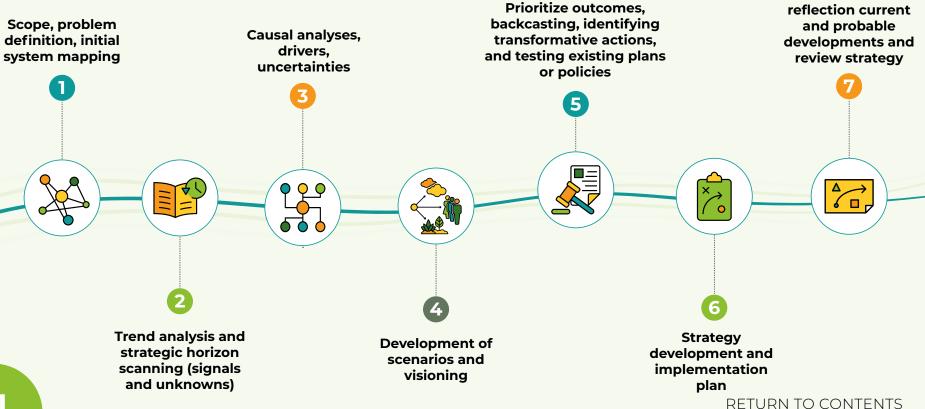
Depend on available human and financial resources. commitment from members, institutional structure and political will.

and Strategy



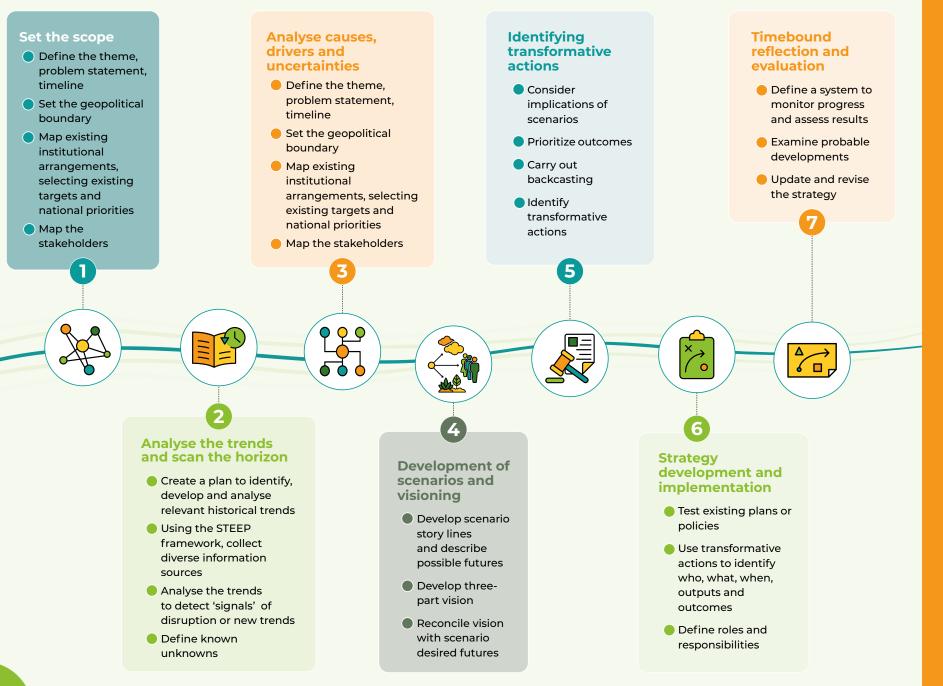
### **FORESIGHT PROCESS**

### FLOW FOR A FULL STRATEGIC FORESIGHT PROCESS



Timebound

### FLOW FOR A FULL STRATEGIC FORESIGHT PROCESS



MODULE 06 Reflection and Strategy

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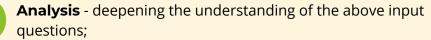


### **REFLECTIONS AND GUIDING QUESTIONS**

The foresight framework has been built around seven key stages with key questions:



**Input** - what is the context? What is happening right now?





**Interpretation** - why is it happening? This is where foresight differs from strategic planning, here we dig deeper to understand why something is happening;



**Plan** - what do we want to experience in the future and what might get in our way? Here we consider what we might do to get there;

### Key points to note:

- Selected foresight tools and methods are presented, and their application demonstrated for each stage of the framework.
- It is important to note that data, evidence, knowledge, and creativity as well as stakeholder engagement and participation are steps that can be applied across the entire foresight process. Foresight is a participatory process that needs continued engagement of stakeholders as well as data and evidence as tools and methods are applied.
- Foresight application is demonstrated in the context of climate-resilient agricultural development in the WCA region.
   The foresight methods and tools chosen are therefore specific to this theme and may need to be reconsidered for appropriateness, in the context of your study.



**Prospection** - what might happen that we have not thought about? This is a critical stage of the foresight process and it requires thinking of multiple different potential futures;

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and

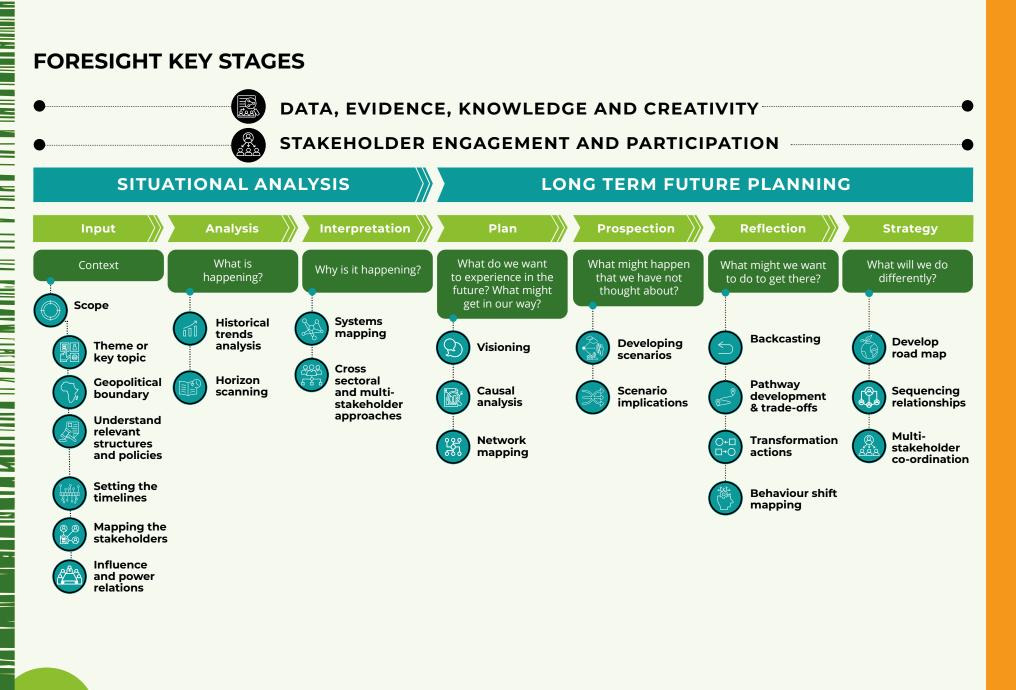
Strategy



**Reflection** - here we consider what we might want to do differently; and



**Strategy** - what will we do differently? This is where we build our new strategy based on our insights of what the future may be like.



**MODULE 06** Reflection and Strategy 

### REFERENCES

Chesterman S, Neely C, Gosling A, Quinn C, Chevallier R, Lipper L and Thornton P. 2020. Toolkit for Developing Skills and Capacity in Applying Foresight to Climate Resilient Agricultural Development in the SADC Region. SADC Futures: Developing Foresight Capacity for Climate Resilient Agricultural Development Knowledge Series. Wageningen, the Netherlands: CGIAR Research Program

Le Coq, J.-F., Meza, L., Veeger, M., Martinez Baron, D., & Loboguerrero, A. (2019). Mainstreaming Climate-Smart Agriculture into regional policy in a fast-track formulation process: lessons from the Central American Region. Bali, Indonesia: 5th Global Science Conference on Climate Smart Agriculture.

SHARED. (n.d.). Retrieved from SHARED the Decision Hub: <u>http://www.worldagroforestry.org/shared</u>.



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