

Accelerating Malawi's Food System Transformation

Diagnostic and Landscaping Analysis by the Food System Transformative Integrated Policy (FS-TIP) Initiative

AUGUST 2021

Food System Transformative Integrated Policy

Goal: Sustainable healthy diets for all

A future state in which every human being has consistent access to a nutritious, highquality diet that promotes human and planetary health, supports child development, prevents disease, and conserves biosphere resources. FS-TIP supports governments in Africa that demonstrate robust integrative leadership and capacity in the **development and implementation of an ambitious policy agenda** aimed at achieving sustainable, healthy diets for all their citizens

Support by FS-TIP includes **building a fact base foundation** that is usercentric in its design, developing a tailored food system transformation strategy, and providing implementation support



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FS-TIP works with stakeholders to develop policies that are **transformative**, resulting in a step change in food systems performance, and **integrated**, factoring in the dependencies and trade-offs across food systems

FS-TIP has a **long-term, inter-generational perspective**, building on momentum of the Food Systems Summit, but has its focus beyond, building a durable platform for transformation, policy development, capacity building, innovation and investment in support of the SDGs







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alawi | Diagnostic and Landscaping Analysis



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Executive Summary

Approach and key insights from diagnostic and landscaping analysis

Detailed diagnostic analysis

Detailed stakeholder and policy landscaping analysis

Next Steps : From Diagnostic to Action

Appendix

Executive Summary | Malawi's food system (I/III)

Though the Diagnostic analysis of Malawi's food system, it has become apparent there is substantial opportunity to build upon Malawi's commitments and support from the development community to improve Malawi's food system

- Malawi shows great commitment to embark on a Food Systems Transformation, as highlighted by:
 - Its extensive Food Systems Summit Dialogues and the multi-stakeholder Taskforce (MoA, NPC¹, UN Agencies, CSOs, farmer organizations, private sector and development partners) leading these dialogues to help identify Malawi's main food systems challenges and potential ways to address them
 - Its drive to reduce dependence on tobacco and maize farming
 - Its collaboration with international development organizations (e.g., SVTP² \$235M from WB⁹, IDA, AfDB, GoM) to develop commercial agriculture and build capacity to address the impact of extreme weather conditions which have beset the country in recent years

Malawi's progress so far on food systems transformation and agricultural development has show successes as well as challenges. This is illustrated by progress made on some commitments on food and nutrition security, while progress on others has stalled. Malawi's food system today experiences multiple challenges from access to inputs to nourishing its population. These challenges need to be addressed by well coordinated and integrated policies. The momentum around the UN FSS has confirmed the need for a more system-based approach to the food system with involvement of all stakeholders

Malawi's Food System plays a very important role in the country's economy and can be described as largely traditional/informal and facing various challenges. Results from diagnostics analysis (FS-TIP research, Food Systems Summit Dialogues and stakeholder engagements) show:

- Agriculture accounts for almost 30% of GDP, and supports ~85% of the population¹¹, yet the domestic food supply does not meet the goal for sustainable healthy diets for all Malawians
 - High food insecurity with ~52%³ of Malawians having difficulties meeting basic food needs. However, this improves in harvest season (April-June)
 - Limited diet diversity with 70%⁴ of dietary energy coming from cereals, roots and tubers, and inadequate consumption of other foods e.g., fruits, vegetables and legumes
 - The country made significant progress in reducing stunting (from 55% in 2000 to 37% in 2015¹⁰), though the trend has reversed slightly since (from 37% in 2015 to 39% in 2018¹⁰). The country has also made **significant progress to reduce wasting from 3.9% in 2016 to 1.3% in 2018**¹⁰
 - Overall high level of undernutrition continues to contribute to negative health outcomes 23%⁵ of child deaths in Malawi are related to undernutrition

Executive Summary | Malawi's food system (II/III)

- Difficulties to achieve consumption of a healthy diet by all citizens is linked to supply chain challenges
 - Government's input subsidy program (currently AIP, formerly FISP) has helped increase crop production and yield and could be focused on increasing production of more nutrient-rich foods as well. Low production and yield are due to predominance of smallholder farmers (account for ~75% of production) who have small farm sizes (~1.3⁷ acres) and limited access to credit (only ~12%). They use simple farming techniques mainly to grow maize thus reducing availability of nutrient-rich foods
 - Supply chains are underdeveloped with limited private sector investment, leading to accessibility issues and low value addition
- External drivers also have significant impact on the development of the food system. Two key drivers are highlighted below:
 - Malawi suffers from floods and/or droughts annually which reduces food supply e.g., 2015 maize production fell by 30% due to floods in the south⁸. High rate of deforestation for agricultural purposes makes the country even more vulnerable to these extreme weather conditions
 - Challenges in the food system are directly linked with Malawi's low-income status: Malawi is the 3rd poorest country in the world by GDP/capita PPP⁹ (\$1,060 in 2019¹²) and income growth is limited for Malawians² that depend on agriculture for their livelihoods. Recent investments in agriculture commercialization could help provide a path out of poverty

Malawi's policy landscape on Food Systems is guided by global and regional declarations as well as the national vision and development plans

• National development plans and policies generally have strong coverage of all elements of the food system; focusing on resilience, food security and nutrition given current poverty levels and increasing frequency of droughts. However, the key challenge lies with ensuring the right prioritization of programs/actions to deliver highest multiplier effect and securing necessary financing to successfully execute programs

Within the current policy landscape, we see opportunities for more alignment to deal with potential trade-offs as well as realize synergies on some of Malawi's key challenges in its food system:

- Opportunity to realize more synergies between programs by streamlining financing, including funding from development partners: Prioritize main food systems challenges and interventions that deliver most impact, and aligning funding partners on them and
- Linking activities and programs at different levels of the value chain as well as ensuring predictable market access: by better aligning (investment) plans and programs across the value chain, bottlenecks could be avoided (e.g., encouraging production and consumption of nutritious foods without sufficient investments in the cold chain). Connection of farmers to agro-processors, and encouraging consumption of specific foods will ensure predictable market access

Executive Summary | Malawi's food system (III/III)

All policy making processes in Malawi will be guided by the newly formed National Planning Commission (NPC)

The NPC was formed in 2020 and has been empowered to oversee the planning and coordination of policy development. As a supra-ministerial body its mandate is to ensure policy making guidelines are followed across all government entities as they aim to achieve the national development planning goals

The formation of the NPC seeks to address key challenges Malawi faced in policy development and implementation process

- Align planning phase at national, sector and district level
- Ensure sufficient human and capital resources are availed to develop plans with consistent quality and following guidance
- Develop M&E framework based on mid-term implementation plans to track progress, through decentralized capacity

Opportunity to introduce integrated and transformative policies on food systems in the new 10-year mid-term plan and related sector and district plans

- Vision2063 was operationalized in January 2021, Agricultural Productivity and Commercialization is one of three key pillars
- The Vision is translated into national 10-year implementation plans which guide the sector and district level planning

Policy implementation is partially decentralized, and some challenges exist in prioritizing and coordinating amongst planning and implementing partners and handling overlapping mandates between districts and national sectors

- **Prioritization of programs** and execution of projects may be influenced by projects which demonstrate immediate impact and visible progress at the expense of potentially longer term more impactful projects
- Human capacity constraints at district level and limits the ability to effectively implement plans in a decentralized manner, coordinate with stakeholder and conduct monitoring and evaluation. Overlaps and siloed activities may result in duplication of efforts or conflicting priorities
- Limited coordination between development partners and between development partners and the government, missing out on potential synergies and when programming and funding were better aligned. Imperative to strengthen cross-ministerial coordination including involvement of donors, CSO's etc.

The diagnosis and landscaping analysis and national FS dialogues highlighted the need to design and implement transformative and integrated policies and programs. In order to move from diagnosis to action a set of guiding materials which cover the following steps, were prepared:

- Prioritize set of food system challenges
- Set ambition and formulate policy to address priority challenges
- Design governance, coordination and delivery models for locally-led food system transformation

(for see detailed section click here)



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Appendix

This diagnostic analysis is guided by 7 principles...

- 1 Designed with the policy-maker in mind: Presenting an interface that is concise, compelling and intuitive
- 2 Outcome-oriented: Linking indicators that reflect food system outcomes to the drivers that policy-makers can influence to realize transformation
- 3 Anchored in existing structures: Building on existing resources and structures with strong buy-in, such as the CAADP biennial review report, and adding new elements only where required
- Aligned to existing food systems frameworks: Connecting to UN FSS Action Tracks for its outcome-orientation, and covering all components of the food system (as per HLPE framework)
- 5 Enabling more detailed views in future: Structuring analyses to be able to show disaggregated views of indicators in future phases
- 6 Tailored to Africa and country context: Adapting indicators to the countries' context, leveraging local data sources and reflecting local ambitions (co-developing where non-existent)
- 7 Built upon a strong data-foundation: Leveraging the best data (quantitative) and insights (qualitative) available and identifying gaps where they exist

... and has 4 main objectives



Share a comprehensive, concise, and compelling diagnosis of the current food system in Malawi



Contribute and inform the FSS incountry dialogues

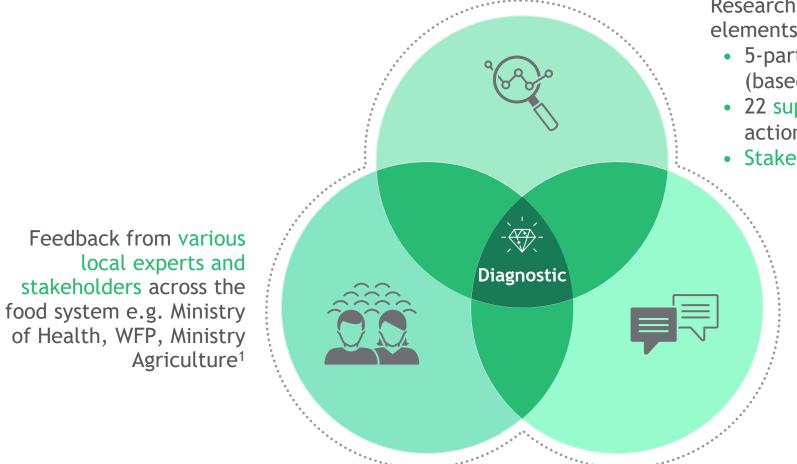


Create an ongoing diagnostic and monitoring approach to inform policy making and food systems transformation



Get feedback from food system stakeholders to improve this diagnostic

This diagnostic analysis was informed by extensive research and feedback from key stakeholders in Malawi's food system

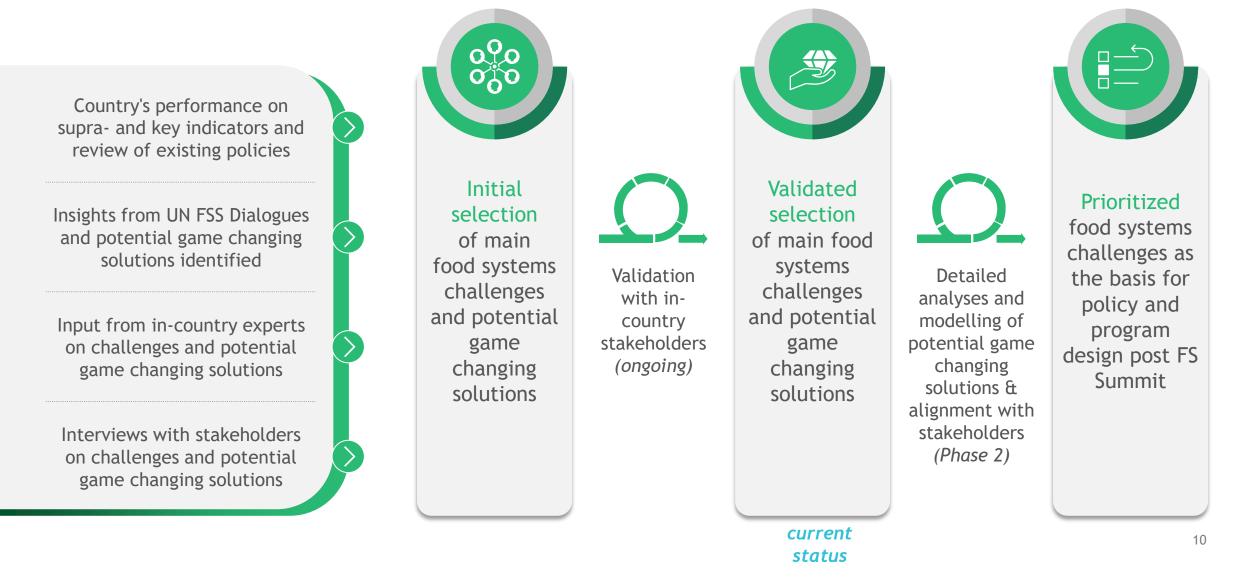


Research on Malawi's key food system elements:

- 5-part framework on food systems (based on the HLPE framework)
- 22 supra-indicators across the 5 UN FSS action tracks and 50+ key indicators
- Stakeholder and Policy landscaping

Emerging insights from the national, regional and district Food Systems Summit Dialogues to articulate food systems transformation gaps and potential ways to address them

Identification of main food systems challenges and potential game changing solutions | An iterative process with stakeholders and experts



Synthesis of Malawi's food system's challenges & potential game changing solutions



Priority challenges

Potential game

foods consumption



Livelihoods equity

Majority (50-70%) of Malawians live under the poverty line with femaleled households typically poorer. They manage by consuming cheaper, less nutritious meals contributing to high rate of undernourishment

- Invest in agriculture commercialization and extension services for a path out of poverty • Facilitate private sector creation of credit and
 - insurance products for smallholder farmers, particularly women
 - Link social support and input programs to maximize synergies



Environmental resilience

Almost annual occurrence of floods or droughts combined with overdependence on maize, a drought sensitive crop grown by 70% of Malawians, resulting in high levels of food insecurity

- Prioritize drought & flood resistant crops and animal breeds
- Invest in eco-friendly irrigation, processing, storage and logistics infrastructure to reduce water and food wastage
- Increase awareness of importance of forests & train farmers on conservation agriculture



Infrastructure capacity

Limited local processing, storage and transportation infrastructure, especially for perishable nutrientrich fruits and vegetables, results in low availability in local markets and high food loss and waste



Agricultural productivity

Current crop yield is as low as ~20% of potential yield with 75% of crop production coming from smallholder farmers who use crude techniques and have limited credit and insurance access

- Strengthen market linkages and infrastructure to facilitate better storage and local trade
- Develop and implement strategy to increase PPPs to invest in infrastructural development
- Incentivize credit extension for infrastr.

- Invest in community food storage facilities, structured markets to limit food loss & waste
- Improve effectiveness of anchor farming and farming cooperatives via training

Diet quality and nutrition security | Key challenges and how they can be addressed

Why should this be a priority for Malawi?

- Description of the priority area
- Malawi has recently been working to reduce dependence on maize to grow more resilient crops and reduce food insecurity (currently ~52%)
- Yet ~17% of the country has poor or borderline diet quality (1) with 70% of dietary energy coming from cereals, roots and tubers. This contributes to a high stunting rate of 39% (children <5y) and 23% of all child deaths being related to under-nutrition (3)
- A healthy diet is unaffordable for ~94% of people (6)
- Key steps need to be taken to increase demand, affordability and access to more nutrient-rich foods e.g., legumes, fish, fruits and vegetables

- Benefits of addressing the challenge

 By increasing Malawians' consumption of adequate, healthy diets, Malawi can make progress towards the 2025 goal of reducing stunting to 27%, reducing child mortality to 2.5% by 2030 and reversing the trend of increasing obesity and overweight rates. Improved nutrition could also contribute to better cognitive development increasing Malawians' lifelong productivity

Supra-indicator addressed

What challenges need to be overcome to address this?

Trade-offs to consider

- Fixing price caps on nutritious food could increase their affordability but would reduce farmers' income and discourage production
- Increasing ASF¹ consumption (especially beef) to desirable level would increase diet diversity but may also increase GHG emissions that negatively affect the environment
- While increased local consumption of more nutritious foods (e.g., legumes, animal source foods) would be good for Malawians' health, it could leave less for export and reduce export income if production remains constant

Policy opportunities

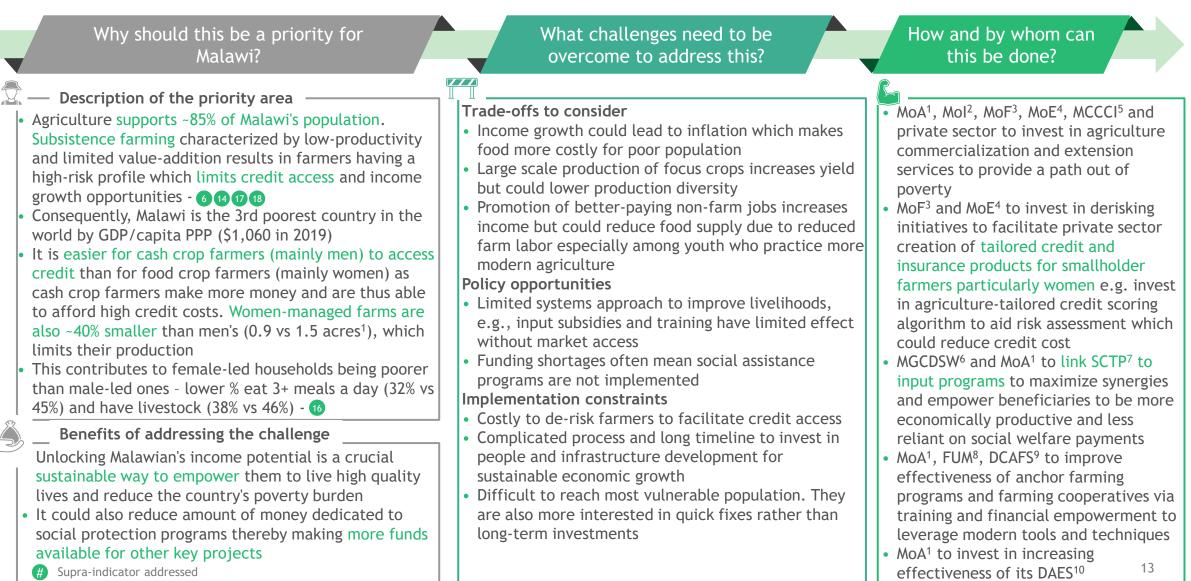
- Policies focus on maize subsidies and availability with less attention paid to increasing production and access to other foods e.g., legumes, fruits
 Implementation constraints
- Difficult to change Malawians' long-held consumption habits e.g., habit of selling rather than consuming ASF
- Need to increase purchasing power of a growing, agriculture-dependent population

How and by whom can this be done?

- MoA to refine AIP² to focus more on nutrient-rich/biofortified foods e.g., legumes, fruits, vegetables and orange-fleshed sweet potatoes
- MoA³ and MoH⁴ to encourage sustainable fish farming and fishing in lakes Malawi, Chilwa, etc.
- Government to revamp NFRA⁵ to ensure it always has adequate stock of nutritious grains and non-grains
- MoF to facilitate private sector processing of diverse, nutrient-rich healthy foods e.g., by reducing tax on healthy foods and increasing tax on unhealthy foods
- MoA and MoH to ramp-up behavior change communication to sensitize Malawians on what a healthy diet is and its benefit
- MoA, Mol⁶ and MoT⁷ to strengthen market linkages, infrastructure e.g., cold chain to facilitate local trade of nutrient-rich foods e.g., legumes

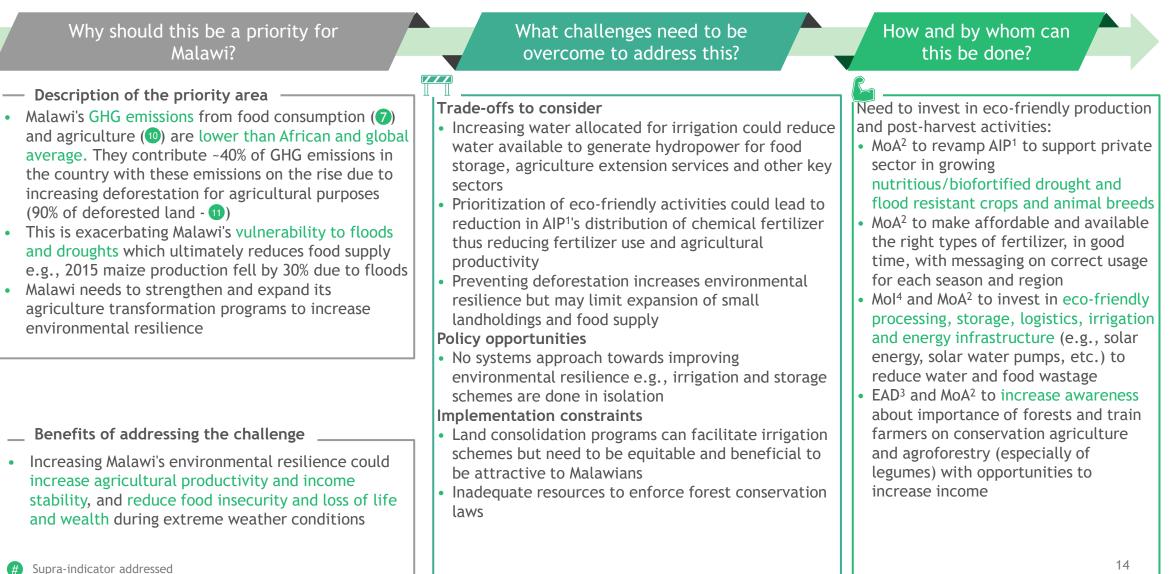
1. Animal source food 2. Affordable Input Program 3. Ministry of Agriculture 4. Ministry of Health 5. National Food Reserve Agency 6. Ministry of Industry 7. Ministry of Trade

Livelihoods equity | Key challenges and how they can be addressed



1. Ministry of Agriculture 2. Ministry of Industry 3. Ministry of Finance 4. Ministry of Economic Planning and Development 5. Malawi Confederation of Chambers of Commerce and Industry 6. Ministry of Gender, Children Disability and Social Welfare 7. Social Cash Transfer Programs 8. Farmers' Union of Malawi 9. Donor Committee on Agriculture and Food Security 10. Department of Agriculture Extension Services

Environmental resilience | Key challenges and how they can be addressed



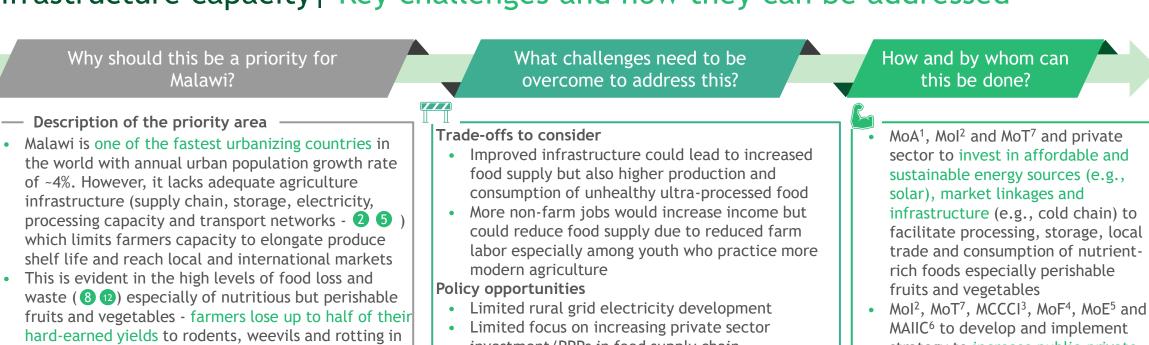
1. Affordable Input Program 2. Ministry of Agriculture 3. Environmental Affairs Department 4. Ministry of Industry



Description of the priority area

Malawi?

Infrastructure capacity | Key challenges and how they can be addressed



- investment/PPPs in food supply chain Implementation constraints
 - Need to determine how to raise funds and prioritize investment in capital intensive infrastructure development
 - Long timeline to improve infrastructure and upskill Malawians to properly use and maintain infrastructure

- MAIIC⁶ to develop and implement strategy to increase public-private partnership to invest in infrastructural development
- MoF⁴ to incentivize credit extension to build infrastructure
- Ministry of Local Government and Rural Development should invest in behaviour change communication to train people on how to properly use and maintain public infrastructure

Benefits of addressing the challenge

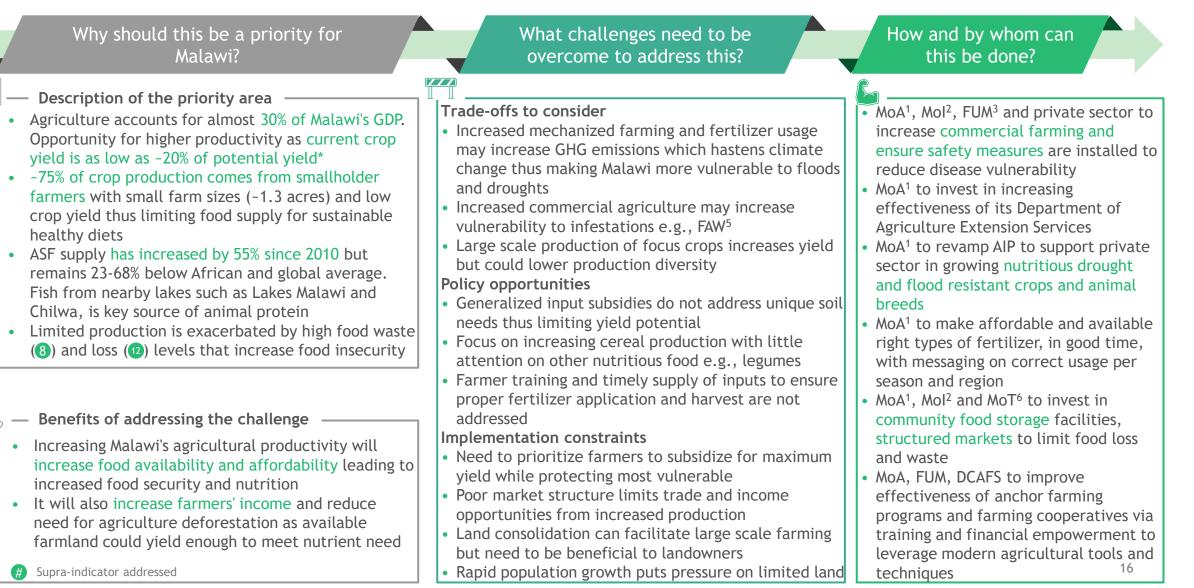
Improved infrastructure has widespread benefits beyond increasing food safety and availability. It would also spur development of the agro-processing industry creating more jobs and facilitating export of higher value produce for higher income

Supra-indicator addressed

the months after harvest

1. Ministry of Agriculture 2. Ministry of Industry 3. Malawi Confederation of Chambers of Commerce and Industry 4. Ministry of Finance 5. Ministry of Economic Planning and Development 6. Malawi Agriculture and Industrial Investment Corporation 7. Ministry of Trade

Agricultural productivity | Key challenges and how they can be addressed



* Mwapata Instititue - Evidence and Options for Improving Input Subsidy Programs 1. Min. of Agriculture 2. Min. of Industry 3. Farmers' Union of Malawi 4. Donor Committee on Agriculture and Food Security 5. Fall Armyworm 6. Min. of Trade



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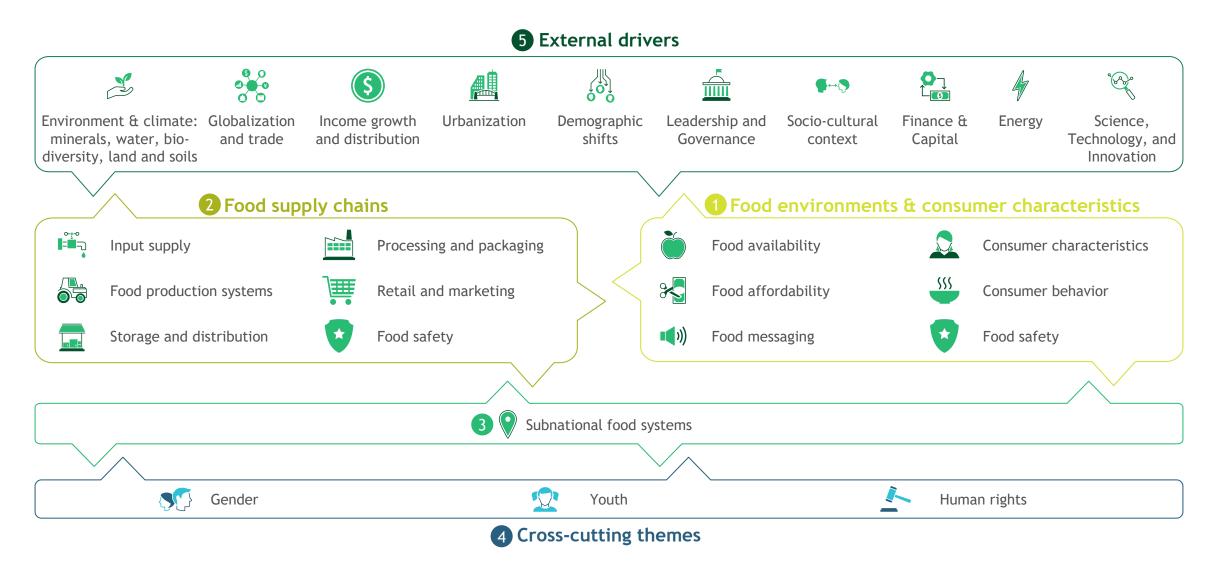
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Appendix

Diagnostic | A 5-part framework to describe the food system



High-level view | Food environments and consumer characteristics (I/II)

	Food availability	 ~52%¹ of total population is food insecure, largely unchanged since 2014 Malawi's staple crops are maize, rice, cassava and sorghum², but maize is the dominant crop contributing to high share of dietary energy coming from cereals, roots and tubers (70% in Malawi vs 58% East African average and 50% global average)⁸ Mangoes and bananas are the most grown fruits making up 65% of plots planted with fruits¹⁰ Supply of animal sourced protein has increased by 55% since 2010, but remains below African and global average for now - 10 vs 13 vs 31 g/capita/day⁴. Fish from nearby lakes such as Lakes Malawi and Chilwa, is main source of animal protein Government is working towards increasing food supply by subsidizing fertilizers, maize seeds, legumes and groundnut seeds through its input subsidy program, and embarking on agriculture commercialization projects³
2	Food affordab- ility	 A nutrient adequate diet* costs ~102% of household food expenditure, and ~71% of the population cannot afford it1 A healthy diet** costs 219% of household food expenditure, and ~94% of the population cannot afford it1 Limited farming of nutritious legumes and livestock limits their supply and increases cost of nutrient adequate/healthy diet resulting in diets dominated by readily available and cheaper carbohydrates, e.g., maize.
•••))	Food messaging	 Food messaging campaigns in place that focus on maternal and child health Limited attention paid to communicating food guidelines to the general population and limited control on marketing of unhealthy foods Various food communication programmes in place that focus on food production and nutrition, emphasis on food hygiene practices has been limited, but there is emerging research on improving food hygiene to reduce incidence of diarrhoea⁵

High-level view | Food environments and consumer characteristics (II/II)

	Consumer characteris -tics	 Malawians' have low purchasing power with ~50-70% of them living under the national poverty line (US\$ 1.90 income a day)¹¹ Due to low purchasing power, price is major determinant when selecting food products, irrespective of quality and nutritional value % of income spent on food varies across income groups - up to 65% for very poor households, ~60% for poor households, >40% for middle income and <40% for "better-off" households⁶ Consumption of more expensive but unhealthy ultra-processed foods often seen positively as a display of higher social status - these foods are mostly consumed by higher income Malawians
5555	Consumer behavior	 Malawians consume a lot of maize and starchy roots (e.g., cassava and potatoes)¹. Adult Malawians also consume ~70% of fruits (e.g., mangoes and bananas) and ~19% of vegetables an average adult consumes globally¹² Higher income households eat more animal sourced protein, especially fish from nearby lakes¹⁰ such Lakes Malawi and Chilwa, and ultra-processed foods Many Malawians see large livestock (e.g., cows) as assets for sale and for use during ceremonies, rather than for everyday consumption. As a result, efforts are ongoing to encourage people to grow smaller livestock (e.g., poultry) that are easier to eat at household level Due to higher income in urban areas, a higher share to the population (77%) eats more than 3 meals a day, while this is true for only 24% of Malawians in rural areas⁶ To compensate for lower productivity, poor households supplement their food access and income by engaging in casual agricultural labour for food or monetary payment, known as 'ganyu' ⁶ To cope with food insecurity, 63% of households rely on less preferred or cheaper foods, 50% reduce food quantity and 46% reduce number of meals eaten⁶



High-level view | Food supply chains (I/II)

Input supply	 Government runs an Affordable Input Program (previously Farm Input Subsidy Program) which subsidizes input - fertilizers and maize seeds2 High subsidy rate of ~80% increases adoption of maize-legume intercropping and fertilizer utilisation contributing to legumes and maize productivity increasing up to 30% and 70% respectively since FISP inception
Food production systems	 Most crop production is subsistence-based - smallholder farmers account for 75% of production¹ Top 5 produced crops in 2019 were maize, sweet potatoes, cassava, sugarcane and mangoes, with ~70% of Malawians cultivating maize¹ Livestock production currently accounts for 10-20% of agricultural production value. Recently, the government has been promoting livestock production to diversify income away from maize and tobacco, and manage weather variability³ Malawi has embarked on agricultural transformation initiatives, such as the Shire Valley Transformation Program (\$235M from WB, IDA, AfDB, GoM) and Agricultural Commercialization Project (\$95M WB credit financing)⁴. These will aid commercialization of wide range of food and cash crops e.g., vegetables, maize, cotton, etc. with farmers deciding what to grow
Storage and distribution	 Limited infrastructure for food storage and transportation with agricultural infrastructure index of 31 lower than East African (36) and global (53) average⁵ High level of food loss (~9% vegetables, 10% fruits, ~12% pulses)⁵

High-level view | Food supply chains (II/II)

	Processing and	•	Agro-processing contributes up to 11% to Malawi's GDP ⁶ mostly from processing, transporting and trading farm produce
	packaging	•	Key farm produce that is processed includes cereals, cassava, potatoes and soy
	Retail and marketing	•	Informal small-scale trade and cross-border trade are important sources of food security in Malawi ⁷ as they supplement farmers' own harvest and allow traders earn a living. Local markets are largely informal with formal retail channels concentrated in urban centres
		•	Poor road networks and communication networks (2019 ¹² unique mobile subscriber penetration rate of only 30%) limits the efficiency of the food market and entire supply chain
		•	Poor Malawians sometimes engage in trade by barter to exchange excess produce from own farm for other food items they lack ⁸ and engage in casual agricultural labour for food or monetary payment locally known as 'ganyu'
	Food Safety	•	No nationwide strategy for food safety control ⁹
×		•	Inadequate monitoring of food standards as most of the food is traded in informal markets and the Malawi Bureau of Standards has limited capacity to effectively monitor informal market activities
		•	Extensive distribution of hygiene kits and vaccine against rotavirus (most common cause of severe diarrhoeal disease) has resulted in 87% of the population using safely managed drinking water services ¹⁰ and ~80% reduction in percentage of sick people suffering from diarrhoea - from 15.2% in 2016 to 3.3% in 2020 ¹¹

High-level view | Subnational food systems

food

Subnational In the past few decades, Malawi's subnational system was divided into 3 regions - North, Central and South. However, a fourth Eastern region was recently created. Focus is on subnational food systems under the 3-region regime due to limited data on Eastern region's food system given its recent creation systems

- North:
 - Houses 13% of the population at average population density of 84 persons/ km^2 less dense than other regions¹
 - It has the most favourable climatic conditions for cultivating crops and a higher % of households have livestock e.g., 50% of households hold chickens vs 32% and 30% for central and southern households respectively³
 - Its high agricultural productivity enables 57% of adults have 3+ meals daily and it sells agricultural commodities to the central and southern regions³
- Central:
 - Houses 43% of Malawi's population¹ at an average of 211 persons/km²
 - Climatic conditions are mostly suitable for cereal and tobacco production³ with 40% of adults having 3+ meals daily
 - Increasing temperatures are improving yield in the central and northern regions but reducing yield in the south where temperatures already exceed crops' thermal threshold³
- South:
 - Contains 13 districts and is the most populated region housing 44% of Malawi's population at an average of 244 persons/km² making it the most densely populated region¹
 - It is situated at the lowest altitude and is drier than central and northern regions, experiencing only one short rainy season between December and February²
 - Agroclimatic conditions are unfavourable in the south with drought and flood events occurring almost annually. This has weakened the food system resulting in higher food insecurity than in other regions and only 38% of adults eating 3+ meals daily. The soil on the limited arable land is overused and susceptible to erosion and degradation during floods and droughts³
 - To address these challenges, the south is home to one of the largest agricultural transformation projects in Malawi Shire Valley Transformation Program (\$235M funding from WB, AfDB, GoM) to increase agricultural productivity and commercialization for targeted households in the Shire Valley⁴

High-level view | Cross-cutting themes

	Gender	 Female Malawians make up ~51% of the population¹ and 57% of them are agricultural landowners²
ן ני		• Malawi ranks 33 rd of 54 African countries with a gender score of 45.3/100 ⁵ - a 4.8 decrease since 2010
		 Although female Malawians have equal property ownership and inheritance rights² as their male counterparts, in reality they have limited control over resources and decision making in households and communities, especially in rural areas
		 ~27.5% of households are headed by female⁶ (29.0% in rural, 19.4% in urban)
		 A slightly higher share of female-led households (89%) is engaged in agriculture compared to male-led households (83%) with females being more involved in food crop farming vs males who are more involved in cash crop farming
		 The share of households with livestock is higher among male-led households (46%) than female-led households (38%) suggesting tha male-led households are wealthier than female-led households - livestock is owned by wealthier households
		 Wealthier status of male-led households is also reflected in number of meals eaten - 45% of male-led households eat 3+ meals a day vs 32% of female-led households
	Youth	 ~51% of Malawians are under 18 years of age and ~54% are of working age (15-64)¹
M		 Unemployment amongst people aged 15-24 years is ~40% higher than total unemployment rate (~41% vs 29%)¹
		 ~80% of rural youth participate in the agri-food system³
<i>i</i> ~	Human Rights	Malawi's constitution promotes equal opportunity for all to access food, employment, infrastructure and other basic needs/essential services. The country ranks:
		• 99 th of 101 countries in 2018 food security index - ~52% ¹ of total population is food insecure vs 10% global average
		 107th out of 195 countries in the 2017 human rights index
		139 th of 162 countries in 2016 economic freedom score

High-level view | External drivers of the food system (I/II)

E	Environ- ment and	• Malawi's topography is varied containing valleys and highland peaks. Its flood plains, wetlands, and forests are increasingly experiencing droughts and floods which hinder agriculture e.g., 2015 maize production fell by 30% due to floods in the south,
	climate	 followed by a countrywide drought that put 17% of the population at risk of food insecurity¹ Climate change expected to result in 1-3°C temp.² increase between 2019-2050 and increased drought and flood events Higher temperatures increases risk of wetland recession reducing fish supply
6 0 0 0 0 0	Globaliza- tion and Trade	 Malawi is a net agricultural produce exporter exporting ~\$1.9Bn³ of agricultural produce in 2017 vs ~\$0.4Bn imports - ~30% vs ~6% of GDP respectively. It is able to meet ~95% of its cereal demand from domestic sources, importing the remaining 5%⁹ Agriculture accounts for over 80% of Malawi's export earnings⁴. Tobacco, tea, and sugar are Malawi's principal exports with tobacco accounting for over 60% of exports, while wheat and meslin are main agricultural imports
5	Income growth and distribution	 Malawi is the 3rd poorest country in the world by GDP/capita PPP (constant 2017 international \$)⁵ -\$1,060 in 2019 Income is unevenly distributed with Gini index of 45/100 in 2016; largely unchanged since 2010 (46/100)⁵ Agriculture is central to Malawi's economy, contributing nearly 30% of GDP. It employs ~65% of the formally employed and supports ~85% of the population (including subsistence farming)⁴
	Urbaniza- tion	 Although only 17% of the population currently lives in urban areas, Malawi is one of the fastest urbanizing countries in the world with an annual urban population growth rate of ~4%⁶ At 192 people per sq. km of land, Malawi's population density is over 4x that of Sub-Saharan Africa average (45)⁵
OOO	Demo- graphic shifts	 Population of ~18M (2018) projected to double to >38M by 2050⁷ ~51% of Malawians are under 18 years of age and ~54% are of working age (15-64)⁵
	Leadership and Governance	 Malawi is a presidential republic, with policy development centralized at national level Presidential and National Assembly elections occur every 5 years, with the latest in 2020. Change in ruling party may result in inconsistent policy landscape In the past few decades, it had 28 districts across 3 regions - Northern, Central and Southern regions with 6, 9 and 13 districts respectively⁸. However, a new Eastern region was recently created

High-level view | External drivers of the food system (II/II)

~~~	Socio- cultural context	 Nsima, a maize-based dish, is Malawi's staple food while tea is an accompaniment to most Malawians' breakfast⁵ Life expectancy at birth is 64.3 years - almost 3 years higher than Sub-Sahara African average of 61.5 years¹ Although HIV prevalence has dropped from 14.4% in 2000 to 9.2% in 2018, it is still over 2x Sub Saharan African average of 4.1%¹
	Finance & Capital	 Only 12% of Malawians engaged in agriculture have access to macro and micro credit⁶. It is easier for tobacco farmers to access credit than for other farmers as they make more money and are thus able to afford high credit costs²
		 Savings groups such as Village Savings and Loans Association (VSLA) are bridging access to credit gaps especially in rural areas although they cannot finance large investment activities
		 As part of Vision 2063, Malawi plans to develop an Agricultural Finance Policy (AFP) and revitalize the Agricultural Credit Facility (ACF) to increase access to capital to aid agriculture commercialization efforts
4	Energy	 Installed capacity of ~500 MW, ~70% of which is hydropower. Heavy reliance on hydro often constrained by drought and low water levels. There are 3 ongoing projects to provide additional ~470 MWs of power - 350 MWs hydropower, 120 MWs solar power⁷. This would result in more reliable solar energy constituting 10-15% of electricity generation capacity
		 Only ~10-15% of Malawians have access to electricity⁷
		• Rural areas lagging behind urban areas in access to electricity (5% vs. 62%) ³
° (Angeleric)	Science and	• The share of Malawi's agriculture research spending as a % of total government expenditure sits at avg. 0.87% from 2010-2014 ⁷
Ø	technology	 Agricultural research is focused on improving irrigation, soil management and other practices to increase productivity and manage impact of droughts and floods⁴
		 Government of Malawi and donor agencies are major research funders and technology investors e.g., USAID, via Feed The Future, provides research, training & technical assistance to increase farmers' productivity and access to financial services³; World Bank & IDA's Shire Valley Transformation Program includes investment in farm irrigation and drainage⁴
		 Research is largely conducted by local institutions e.g., Department of Agriculture Research & Technical Services (DARTS), Mwapat Institute, Lilongwe University of Agriculture and Natural Resources (LUANAR), Mzuzu University, University of Malawi, etc. and supported by international organizations such as International Food Policy Research Institute (IFPRI)



Current status of Malawi's food system captured in supra-indicators

	Action Tracks	Supra-indicators	M alawi	World	Unit
		Diet quality: Food Consumption Score	Poor: 1% Borderline: 16%	N/A	Percent
Action	Ensure access to safe and nutritious food	2 Nutrient supply: Net supply in country of key macro and micronutrients as a share of total consumption requirements for a healthy diet	Nutrient gaps (see deep dives)	N/A	TBD
Track 1	for all	Undernourishment: % of population undernourished	18.8	8.9	Percent
	jor utt	Overweight & obesity: % of population overweight or obese (adult population)	20.1	39.1	Percent
		5 Food safety: Food Systems Safety Index	66.7	75.3	Index (0-100)
		6 Affordability: Cost of a healthy diet as a percent of household food expenditure	219	95	Percent
Action	Shift to sustainable	Sustainability of diets: Per capita GHG emissions of food consumption	1,369	2,603	Kg CO2eq./person
Track 2	consumption patterns	8 Food waste: Food waste index	146	121	Kg/capita/year
		9 Food environment: Composite index combining food environment policies	3	N/A	Index (0-14)
		10 Emissions: Green House Gas (GHG) emissions from agriculture	7.5	30.1	MtCO2e
Action	Boost nature-positive	1 Land: Average % forest land being deforested for agriculture use over past 3 years	0.55	0.17	Percent
Track 3	production	12 Food loss: % food loss across supply chain	TBD	5	Percent
		13 Regeneration: Biodiversity and habitat index	50.7	54.5	Percent
	Advance equitable	Income: Gini coefficient (specific) based on incomes across the food system	0.75	N/A	Coefficient (0-1)
Action	Advance equitable	Income: Gap between farmgate price and wholesale price	68%	N/A	Percent
Track 4	livelihoods	6 Gender equity: Women empowerment in agriculture index	0.84 ¹	N/A	Index (0-100)
		17 Economic: Household Resilience Capacity Index	0.26	N/A	Index
	Build resilience to	18 Risk distribution: Proportion of men and women engaged in agriculture with access to macro and micro credit financial services	12%	N/A	Percent
Action	vulnerabilities, shocks and stress	19 Social: Government social security budget as a % of total requirements to cover vulnerable social groups	87.0	N/A	Percent
Track 5	שייייייייייייייייייייייייייייייייייייי	20 Environmental: ND-GAIN (Notre Dame Global Adaptation Initiative) Country Index	35.2	49.0	Index (0-100)
		Production diversity: % production from top 5 crops	75%	N/A	Percent
Governance		22 Governance: Presence of food systems related governance bodies and mechanisms	3	N/A	Index (0-14)

1. To be verified by in-country team if more recent data is available - current data from 2014 WEIA index



Supra-indicator	Unit	Malawi 🦰	Africa 🧤	World		Country Ambition
1. Diet Quality: Food Consumption Score (FCS) ⁵	Score	Poor 1%, Borderline	N/A	N/A		•••
(Aggregates household-level data on diversity and frequency of food groups, weighting according to the relative nutritional value)	 Commentary Most Malawians do not have dietary energy comes from largely due to overreliance production and availability vegetables) and increases Drivers Availability: farmers to nutritious food while own consumption Affordability: on aver household expenditur Food preparation and culturally acceptable strategies 	a cereals, roots and t on maize cultivation of nutrient-rich foo their prices cypically sell limited retaining staple crop age a nutrient adequ e ² (see supra-indicat consumption practic	tubers ¹ . This is n, which reduces ds (e.g., fruits, high quality os, e.g., maize, for ate diet is ~130% of for on affordability) ces based on	negative impar productivity. P • Stimulating inputs subst AIP) and co e.g., legum potatoes • Providing ne through alt • Increasing to sensitive for	umption so cts on pop otential in productio idies for li nsumption pes, fruits, utrient ric ernative o pehavior c od purcha	core and limited dietary diversity have vulation's health, well-being, and



Supra-indicator	Unit	Malawi	Africa	a 🥎	World 🕜 Country Ambition
Supra-indicator 2. Nutrient supply: Net supply in country of key macro and micronutrients as a share of total consumption requirements for a healthy diet	CommentaryInadequate supply of macrogrown (grown by ~70% of Mall and livestock thus limiting the adequate diet (see supra-indecentric day, AME)Production (per day, AME)Kcal2265.9Protein70.9Calcium1181.9Zinc16.0Iron61.0Folate514.5Vitamin B120.5	and micro- nutrie awians) with limit eir availability an icator 6) Consumption (per day, AME) 0 3659.4 0 3659.4 0 2876.8 0 21.4 162.3 6 666.7 2.8	See nts as maize is pred ed farming of nutri d increasing cost of Recommended intake (per day) 2750.0 50.0 1000.0 27.4 14.0 400.0 2.4	e details under dominant crop itious legumes f nutrient Adequacy comment Not sufficient Sufficient Sufficient Sufficient Sufficient Sufficient Not sufficient Not sufficient	
	Vitamin A345.8Vitamin B62.0Vitamin C100.0Riboflavin0.8Thiamin2.7Niacin17.0Drivers••Local production of sta country's demand espece•Low but rising producti animal sourced foods n•Limited imports, which•High levels of food loss population not having a	3.3 209.7 1.4 3.1 21.1 21.1 21.1 21.1 21.1 21.1 21.1	2.0 60.0 1.7 20.0 1.5 floods and drought nd eggs ¹ - with proc o provide diverse d expensive, to fill di hain result in part o	ts ² luction of iets for all ietary gaps	



Supra-indicator	Unit	Malawi	Africa 🧤	World		Country Ambition
3. Undernourishment: % of population undernourished	Percent Commentary Undernourishment has been or to food insecurity which affect • 23% of all child deaths ar (<5y) are stunted while ~ • Only ~60% of children <6 children 6-23 months rec Drivers • Subsidized maize product supply/availability and ar • Food insecurity is often v droughts especially in the • High disease burden (~27 chances of undernourishr	s ~52% of Malawians re related to under-nutrit 4% suffer from acute mal months are exclusively b eive minimum acceptable tion and tobacco cultivat ffordability of more nutri vorsened by drop in prod e southern region % ³) also weakens the imm	ion with 39% of children Inutrition ² reastfed and 8% of e diet ² ion for export reduce tious produce uction during floods and	to 27% by 2025 ⁴ Malawi is at risk or increased floods, of limited arable land • Provide subs (e.g., livestor management increase ava • Inter-minister sponsor targ	ion target i f continuou droughts an d. Potential sidies for fai ock, fruits a t support th illability and erial (Min. c eted behav	ns s to reduce prevalence of stunting in Malawi s high level of undernourishment due to d rising population adding pressure on l interventions include: rming nutritious and/or biofortified food nd vegetables) along with resilience and soil grough agricultural programs such as AIP ⁵ to d affordability of nutritious food of Agric, Health, etc.) collaboration to ior change communication to drive desired other health practices
4. Overweight and Obesity: % of population overweight or obese(adult population)	 Score Commentary Although Malawi's obesity rate child obesity are rising stead 13% children and adolesce with higher prevalence in 25% women and 15% of m 3x more likely to be over consumption of unhealther Ngoni women have 54% h linked to higher meat and Drivers Rising urbanization with consumption of own-grow Cultural factor: overweige Women with higher educt likely to be overweight/or 	ily by ~8% CAGR (2010-20 ents are overweight or of n urban areas than rural a en are overweight/obese weight/obese than the p y ultra-processed foods igher risk of being overw d alcohol consumption ⁴ increased sedentary behave yn food in urban areas ght seen as a sign of afflu ation levels and from we	116) ⁶ bese (weight-for-height) areas e. The richest women are oorest ⁴ due to higher eight or obese as others aviours and less ence and wellbeing ⁴	related NCDs such 6.3% in 2014) and 2000 to 28.7% in 2 Overweight in mot obesity in their ch Potential interven Increase tax and salty sna Inter-ministe targeted carr overnutrition activity for u	and obesity as diabetes raised bloo 015), contr thers (incre nildren. tions: on unhealt acks rial (Min. of pagins for i and underr irban and pe	ns v rates are linked to rising rates of diet- s (increased from 4.6% of adults in 2000 to d pressure (increased from 26.5% of adults in ibuting to overall disease burden in country. asing BMI) is associated with overweight and hy foods such as sugar-sweetened beverages Agric, Health, etc.) collaboration sponsoring ndividuals and households focusing on both nutrition, promoting healthy diets and physical pri-urban populations s on food marketing and messaging



Supra-indicator	Unit	Malawi 🦰	Africa 🧤	World		Country Ambition
Food safety: Food Systems afety Index	 Quality of inspection se inspectors and lack of g conduct inspections¹ Surveillance of foodborn infrastructure and limit contamination of food. 	s food safety issues with ub-departments ¹ ework is extensive with d and lacks harmonizat being developed within tal or inter-ministerial and mandates reduces rvices impacted by unde uidance and consistency ne disease is constrained ed research on the bact However, significant ste so due to their political and health d insecurity and malnut	15 directorates within many policies and ion the Ministry of Health ¹ collaboration due to an efficiency and effectiveness er-resourcing of food y on who, how and when to d by underdeveloped eriological and chemical eps have been made in exposure and significant rition, focus is on food	The resulting burden (e.g. health costs In absence of enforcement of people in Possible polit • Restru delines director increas foodbo • Adopti term a high-ri freque • Increas installo	In the population of an integrated of an integrate of a creation of initiation of initiation of initiation of initiation of initiation of initiation of and departs of the created of the cre	food loss, food waste, and increasing disease associated with aflatoxins) have economic and

Note: The 6 ministries with oversight of food safety issues are Ministry of Health, Ministry of Agriculture, Irrigation and Water Development, Ministry of Industry, Trade and Tourism, Ministry of Education, Science and Technology, Ministry of Local Government and Rural Development and Ministry of Finance 31 Note - Superscript refers to sources on source page



Supra-indicator	Unit	Malawi 🦱	Africa 🧤	World		Country Ambition
6. Affordability: Cost of a healthy diet as a percent of average household food expenditure (%)	Score Commentary A healthy diet that costs 219% and out of reach for ~94% of the costs ~102% of household food population ¹ Drivers • Relatively high % of cerear while only ~25% and ~45% and affordability of more floods and droughts makit • Foods typically come from that are too small (1.3 are agriculture practices while constrained by poor infra • Low-income levels amone power and ability to buy	al farming - ~70% of Mala 6 farm fruits and livestock 7 nutritious food ² . Produc 9 nutritious food ² . Produc 9 novn production - which 9 cres ² vs US average of 444 9 ch limit yield - or they ar 9 structure 9 farmers (~65% of popula	rient adequate diet that ordable for ~71% of the wians cultivate maize k - thus impacting supply tion drops further during nsive h relies on land parcels 4 ³ acres) and crude re bought from markets ation) limits purchasing	roots and tubers but are less nutr fruits and vegeta In addition to pr need to promote • Sensitize of indigenous • Encourage AIP, tax cr • Invest in p food loss a increasing • Leveraging	d up to 65% o (source of 7 ritious than t ables. omoting agrie diversificat ommunities nutrient der farming of n edits, etc. to rocessing, sto income pote public proce	 f income on food, mainly on cheaper cereals, 0% of dietary energy) which keep them full he costlier animal source food, legumes, cultural diversification for export, there is ion for domestic consumption: on the benefit of cultivating and consuming nse foods such as beans utritious and/or biofortified foods e.g., via o increase supply and affordability orage and logistics infrastructure to reduce d extend produce shelf-life. Added benefit of ntial and purchasing power urement to deliver healthier meals and grow foods (e.g., schools)
7. Sustainability of diets: Per capita GHG emissions of food consumption	 Kg CO2eq./person Commentary Malawi's GHG emission related the African and world averages Drivers Short distance covered b subsistence farming⁴ Limited mechanization o Relatively small land are food to urban centers Low farming and consum higher environment impa High level of food loss, w insecurity 	s y consumed food as 75% of f agriculture and agro-pro a ² lowers environmental of ption of animal products, act, in processing, storage	of crop production is for ocessing cost of transportation of , which tend to have e and transportation	concern about t preferences, soo As incomes and toward animal p To mitigate anti • Invest in b of eco-frie	oices are driv he environme cial and cultu urbanization oroducts whic cipated rise ehavior chan ndly ASF e.g co-friendly p	ven by many other considerations apart from ent e.g., accessibility, affordability, personal



Supra-indicator	Unit	Malawi	Africa 🧤	World		Country Ambition		
8. Food waste: Food waste index	Kg/per capita/year146.0N/ACommentaryMalawi wastes more food per capita than global average despite high level of food insecurity which affects ~52% of MalawiansDrivers• Poor home storage practices result in rodents and weevils' infestation and/or rotting leading to food waste1• Prevalence of traditional open-air markets, which produce more waste than modern markets, contributes to food wastage• The few large retail outlets in the country have very high levels of food wastage, especially of fruits and vegetables• Less amount of food wastage in rural areas than urban areas due to subsistence farming and prevalence of eating own-grown food in rural areas			 121.0 Implications and Interventions Fresh food waste is a health and urban management problem in Malawi. In some places such as Blantyre², the City Council transports the waste from markets to a composting facility where it is turned into rich, organic compost eventually sold to farmers To maximize limited available food and improve food security, there is need to reduce food waste by: Investing in electricity, processing and other infrastructure and food messaging on how to store and prepare produce to extend their shelf-life at home/in restaurants Investing in standards to require retail institutions to keep food wastage levels low as urbanization increases Invest in safe community food storage facilities and structured markets to limit food contamination, loss and waste Expand programs to convert food waste into organic fertilizer to boost crop production especially of nutrient dense foods 				
9. Food environment: Composite	Index(0-14, 14=best)	3	N/A	N/A		•••		
index combining food environment policies	Commentary Opportunity to strengthen Mala policies that encourage consurt Drivers • Malawi has no marketing children. There is also no saturated fatty acids. Ho breastmilk substitutes.	nption of sustainable and restriction on junk and r policy to reduce consur	healthy diets non-alcoholic beverage to nption of salt/sodium and	and discour malnutritio Interventio environmer d Facili reduc Restr Devel	regulation to sturage consumption n, overweight, o ns could be focus nt policies: tate processing of ting tax on health ict the promotion	rongly encourage consumption of healthy foods n of non-healthy foods increases the chance of besity and other nutrition related NCDs sed on filling current "gaps" in food of diverse, nutrient-rich healthy foods e.g., by ny foods and increasing tax on unhealthy foods n of unhealthy foods to children dance mechanisms to help consumers make		



Supra-indicator	Unit	Malawi 🦱	Africa 🧤	Wor	ld 🕜	Country Ambition		
10. Emissions: Green House Gas (GHG) emissions from agriculture	MtCO2e Commentary Malawi's agriculture-related GH averages but has been rising st of GHG emissions ¹ in Malawi. Drivers Indiscriminate use of fert input increases GHG emis Limited knowledge/conce practice of farming habit Increase in conventional natural carbon sink) and	eadily at since 2000. Agr ilizer due to highly subsi isions ern among farmers and e s which harm the enviror farming (tillage) which b	iculture contributes ~40% dized availability of this xtension workers, and a nment reaks up the soil (a	 practices could reduce the carbon sink thus contributing to more extreme weather events affecting production To boost efficient, nature positive production, pathways include: Invest in production of sustainable ASF e.g., fish farming and fishing in lakes Malawi, Chilwa, etc. 				
11. Land: % of forest land being deforested for agriculture use over the past 3 years	Percent Commentary Agriculture is the leading cause the deforested land was driven reduced from 47% in 1975 to 25 rate in the Southern African De Drivers • Growing population that expand with limited land • Floods and droughts lead land to raise production • Lack of understanding of	by agriculture. Forest c 5% ³ in 2018 making it the evelopment Community r is overdependent on agri & small land holdings ing to soil depletion drive	over of the country highest deforestation egion culture and seeking to es farmers to clear more	Althoug 95% of thus co The nex drivers • P p to • Ir fa	ations & Intervention gh Malawi has a Fores the population ³ is un ontinuously engage in xt stage is to improve of deforestation: rovide farmers resilie roductivity of availat o reduce overdepend occeasing awareness armers on conservation poprtunities to incre- ncrease capacity of N	st Act to guide the proper use of the forest, aware of it and the importance of forests and deforestation e productivity of existing land to reduce the ence and soil management support to increase ble farmland while developing other industries		



Supra-indicator	Unit	Malawi	Africa 🧤	World		Country Ambition	
12. Food loss: % food loss across supply chain	 pulses, with farmers losing weevils and rotting a few m Farmers struggle to so reduced by poor stora Higher production lim have the capacity and Drivers Poor food storage and aflatoxins in key food Low electrification ra agriculture infrastruc Climate impacts lossed directly cause losses, Vulnerability to plant all districts with most 45% in February 2021 	earned yields to rodents ¹ , uality and shelf-life are s the longer it takes to sell gesting that farmers may nit losses ¹ g infrastructure resulting in on system; Malawi's e world average is ~53 ² harvest/postharvest can est and processing rm (FAW) which has infested ion ranging from 20% to over harvest season, and throw	 in-country experts Implications and Interventions d High level of food loss in Malawi contributes to its high level of food insecurity especially when it isn't harvest season. In addition to discouraging the production of nutrient-rich perishable foods, high food loss lowers dietary diversity. Food loss also puts an unnecessary burden of the environment, as resources are used, and emissions occur to produce foods that never reach consumers Possible next step actions: Sustainably invest in storage, electricity and logistics infrastructure e.g., cold chain vehicles, across value chain Better education of farmers, middlemen and processors on loss prevention practices and the conditions in which they should be most concerned about loss prevention is critical to reducing food loss and increasing overall food availability Apply lessons learnt from ongoing implementation of integrated periods 				
13. Regeneration: Biodiversity and habitat index	 Lack of awareness of with short-term view 	iculture (~90% ³ of defores	ant/animal life to farmers, subsistence	While agricult productivity i registering an food and med • Need fo	s integrated with d preserving biod licinal plants, and	tial to Malawians, its sustainability and the level of biodiversity in the country. Without diversity, Malawi risks a reduction in diversity of an overall less resilient food system n eco-friendly technologies and articulation	



Supra-indicator	Unit	Malawi 🧧	Africa 🌪	World		Country Ambition
14. Income: Gini index (specific) based on incomes across the food system (under development)	come: Gini index (specific) Coefficient (0-1, 0 = best) 0.75 N/A commentary Commentary N/A				with and relian of insecurity. Eventions that security include more credit & extreme weath agriculture co cation, infrastr e-addittion alc effectiveness cives via trainin marketing/bel for non-staple	living under the national poverty line), rapid nee on subsistence agriculture increase need to be assessed to provide farmers with e: insurance to protect smallholder farmers er and pest infestations ommercialization and extension, ructure and training to increase productivity ong agriculture value chain of anchor farming programs and farming ng and financial empowerment havioural change communication to increase but nutritious foods jobs in other sectors, allowing people to
15 Income: Cap between	Percent	68%	124%	N/A		
15. Income: Gap between farmgate price and retail price	Commentary Limited differences in prices b Malawi is ~45% less than in oth Drivers • Government intervention price ceiling for retailing farmgate and retail. Alth works to maintain this pr buying maize from ADMAI leads to price ceilings be • Rural Malawians primarily a secondary food source	er African countries ² - setting price floor for - has limited difference ough ADMARC (the natio ice floors and ceilings, p RC and reselling at a ma ing exceeded	r farmgate maize and s in prices between nal maize aggregator) rivate sector activities -	intervention. maize season Potential inter • Deploy n frequence (April-Ju mainly d	latility is still a This causes flue rvention: naize market in cy - ensure ADA n) to countera	a challenge in Malawi despite government ctuations in level of food insecurity based on nterventions at the optimum time and MARC purchases maize earlier in the season ct seasonal price declines and sells maize season (January-March) when reduced maize



Supra-indicator	Unit	Malawi	Africa		World		Country Ambition
16. Gender equity: Women empowerment in agriculture index	agriculture than mal livestock is higher ar households (38%) ¹ sig female-led households bouseholds Slightly higher % of f than male-led house Fewer % of female-led non-farm enterprise farming Drivers Women-managed far 1.5 acres ¹), which lir Low levels of financi credit - only 12% of w Economic burden on male-led households Although women hav they have limited co	igher % of female-led h e-led households (83%) nong male-led households gnifying that male-led ds - livestock is typical emale-led households holds (54% vs 49%) ¹ due ed households than ma (31% vs 42%) ¹ which is the sproduction al inclusion, with low women engaged in agri adults is higher in fem : dependency ratio of	nouseholds (89%) are enga), the % of households witholds (46%) than female-lead households are wealthier ly owned by wealthier receive more FISP subsidie to their lower economical le-led households operated typically more lucrative than han men managed farms (access to macro and micro foulture have access hale-led households than if 1.6 vs 1.1 respectively1 ership and inheritance right had decision making in	In In aged in sh h po d ag than po res m status e a than 0.9 vs o	 clusion and hould be a prolitical will a gricultural proverty¹ To do this, the hainstream get an ensuring mainstream get an equitable Develop mechania agricultu Develop practitic Sponsori increase 	riority for all s and progressive roduction and ere is need to ender-responsi g inclusive and eaming across g local commu ly among fema ing gender-res isms, especiall ure value chair ing a deeper u oners followed ing behaviour o e Malawians' ap	to f women in agriculture and all sectors takeholders and backed by high levels of e policies. It has the potential to increase lift a significant number of Malawians out of strengthen the capacity across institutions to iveness by: adequate budgeting levels for gender key agriculture policies and institutions inity leaders to allocate farmlands more le and male led households ponsive reporting and accountability y around levels of representation in



Supra-indicator	Unit	Malawi 🧧	Africa 🧤	Wo	rld		Country Ambition
17. Economic: Household Resilience Capacity Index	Index Commentary Household resilience to shocks basic services and infrastructur Drivers • High poverty rate and ina support services for the p • Overreliance on cash cro sensitive maize cultivation make up majority of the	re is limited adequate high-quality liv poorest households ¹ ps (e.g., tobacco) and dr on reduces resilience par	elihood and employment	Freque with r poten Poten	ent occurre millions of p tially death tial interve Providing n against ext Ensuring th stock and p Providing in	people requ h. entions to ir nore credit creme weath ne National proactively nfrastructur	 ods and droughts often leads to food crises uiring aid to prevent malnutrition and mprove households' resilience include: & insurance to protect smallholder farmers her and pest infestations Food Reserve Agency always has adequate analyses and manages food crisis risk re (e.g., roads, telecommunications, hospitals bousehold resilience
18. Financial: Proportion of men and women engaged in agriculture with access to macro and micro credit financial services	 Percent Commentary Low financial inclusion rate percent % of agriculture sector endot 64% less in Malawi than indices and neighbors in the Relatives and the Relatives a	mployees with access to n average African countr make up ~30% of loan sou armers to get access to co make more money and As and ROSCAs are bridg nadequate collateral hind s apply for loans due to th	macro and micro credit is y urces ¹ redit ² for their farms than are thus able to afford ging the credit gap der access to credit e difficult process of	Increa servic increa Poten	ased access asing farm p tial interve Invest in de tailored cre particularly algorithm t Strengthen Encourage to encoura Reserve Ba to educate	es Malawians productivity entions to in erisking init edit and ins y women e. to aid risk a existing sa banks to sti ge adoption ink of Malaw people on	ble credit, insurance and other financial s' resilience and enables them invest more in / mprove financial access include: iatives to facilitate private sector creation of surance products for smallholder farmers g., invest in agriculture-tailored credit scoring ssessment which could reduce credit cost vings groups to expand reach/services reamline loan application and approval process



Supra-indicator	Unit	Malawi 🦰	Africa 🧤	World	Country Am	bition
19. Social: Government social security budget as a % of total requirements to cover vulnerable social groups	 Percent Commentary Social welfare was allocated a to revised estimate of MK43 billion cover the entire vulnerable pop Digitization of Government Soci Pakhomo) has been introduced to Drivers Increase in social welfare e.g., \$59M World Bank fun and the \$60M 'Investing in High population growth is delivery 	in 2018/19 ¹ . However, ulation. al Cash Transfers (locally to reduce delays and ope budget is largely driven ds for the Social Cash Tr Early Years' project ²	it is still insufficient to y known as Mtukula erational cost. by influx of donor funds ransfer Program (SCTP)	pressure on lim number of vuln malnutrition an effectiveness of Increase most vuln Updating volatility SCTP ben AIP, to m	n growth rate and limited paths on ited social welfare budget thus herable people uncatered for. The nd food insecurity. Potential inter of social welfare include: accessibility of AIP and other inter herable population benefit amounts to manage imp heficiaries should be linked to oth maximize synergies and empower	leaving an increasing his could worsen rate of erventions to improve erventions to reach the her programs, such as the them to be more
20. Environmental: ND-GAIN (Notre Dame Global Adaptation Initiative) Country Index5 (summarizes a country's climate change vulnerability and its readiness to improve resilience)	Index(0-100, 100=Best) Commentary Malawi has high vulnerability (rareadiness score (ranked 23rd lea adaptation are also great, given and economic growth Drivers • Poverty and prevalence of acquire and deploy agricul • Over-reliance on flood and increasing risk of floods ar • Southern region's high pop higher level of deforestati increases risk of and vulne	st ready ³) out of 181 cou the dependency on agri crude farming techniqu ture technology ³ d drought-sensitive maize ad droughts ulation and population of on for agricultural purpo	es reduces capacity to e combined with density contributes to pses which ultimately	49.0 Implications & Possible change intensification with strategies capacity in foo Mitigation appr Improving along wit Further r farming t Invest in market li local trac	e in timing of agricultural season needs to be implemented and m to reduce climate change vulne	ns. Agricultural nonitored in conjunction rability and build adaptive k assessment capacities g rs on modern eco-friendly gy sources (e.g., solar), ilitate processing, storage,



Supra-indicator	Unit	Malawi 🦱	Africa 🧤	World		Country Ambition	
1. Production diversity: %	Percent	75%	N/A	N/A			
production from top 5 crops	on diversity: %				 Potential interventions include Encourage farming of wide range of nutritious, biofortified and/o drought resistant crops e.g., via AIP, tax credits, etc. to increase supply/availability and affordability Sponsor behaviour change communication to: Encourage increased production and consumption of various nutritious food Create awareness that diverse intercropping patterns 		
Governance							
Supra-indicator	Unit	Malawi 🔴	Africa	World		Country Ambition	
2. Governance: Presence of food		3	N/A	N/A		•••	
systems related governance bodies and mechanisms	 Commentary Willingness to look at food systems in a holistic way but governance structures still need to be put into place Drivers No explicit long-term goals and framework to look into food systems' transformation No permanent supra-ministerial body for food systems' transformation with strong mandate and dedicated resources with required capabilities Support at the highest government level for food systems' transformation 				naking and imp e a minimum of ced in the Mall ong-term goal ork to achieve up a supra-mi	rocess to engage and include stakeholders in plementation. of 10% of public expenditure on agriculture (abo declaration) s on food systems' transformation and a	



Executive Summary

Approach and key insights from diagnostic and landscaping analysis

Detailed diagnostic analysis



Detailed stakeholder and policy landscaping analysis

Next Steps : From Diagnostic to Action

Appendix

The Policy and stakeholder landscaping focuses on the most important strategies, potential opportunities, trade-offs and implications

What is covered in this policy and stakeholder landscape

Most relevant declarations, policies & strategies and stakeholders related to food systems What is not covered in this policy and stakeholder landscape

An exhaustive analysis of all policy, strategy and stakeholders' documents



Most important gaps and trade-offs in policies based on qualitative diagnostic



Most important stakeholders related to food systems

- Exhaustive analysis of all challenges and gaps in food systems policies
- All key stakeholders across the food system

Policy mapping conducted using framework sub-components...

External drivers - Environment & Climate, minerals, water, bio-diversity, land and soils; globalization and trade; income growth and distribution; urbanization, demographic shift; leadership and governance; socio-cultural context; finance; energy; science technology and innovation

Food supply chains - Input supply, food production systems, storage and distribution, processing and packaging and retail and marketing

Food environment - Food availability, food affordability, food messaging, consumer characteristics

Consumer behaviour - food acquisition, preparation, meal practices and storage

Cross-cutting themes - Gender, youth, human rights

Outcomes

- Nutrition, diet and health
- Livelihoods
- Environment

... which is assessed by corresponding component coverage

Sub-component adequately covered and as expected

Sub-component only partially addressed



Substantial part of sub-component not addressed

Hierarchy of policies in Malawi

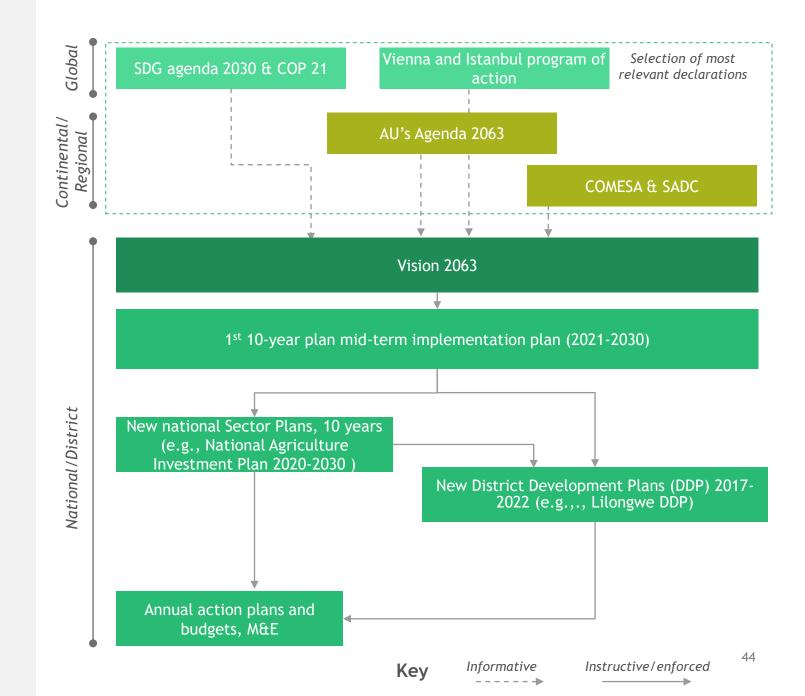
Malawi's Vision 2063, "an inclusive wealth and reliant nation" was developed in 2020 to guide the long-term development of Malawi.

Given the relatively low income of Malawi and its landlocked status the Vienna and Istanbul program of action also guide the formation of long-term development plans.

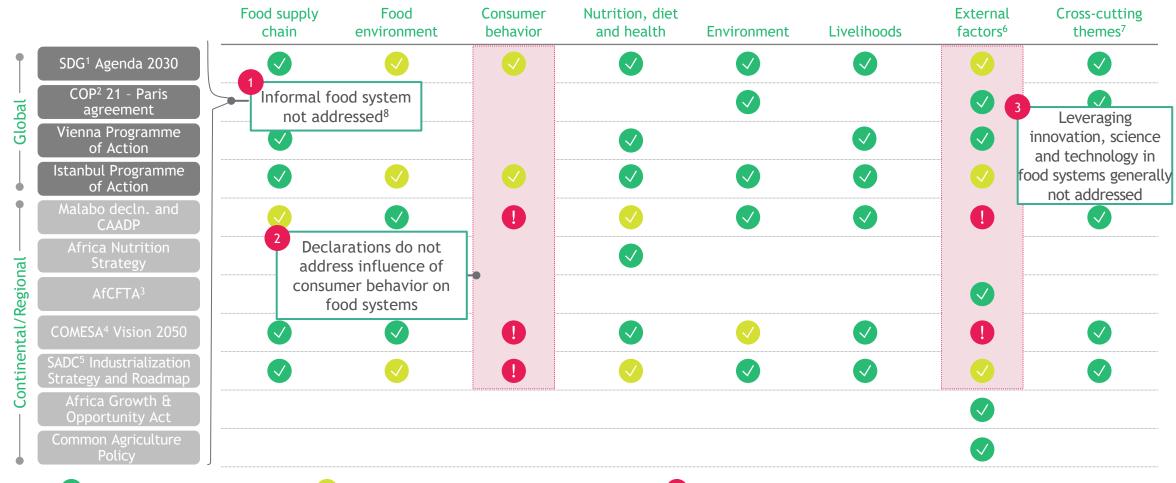
The long-term aspirations are translated into 10-year national development strategies (previously 5-years), the latest is, Malawi Growth and Development Strategy (MGDS III), which will be implemented from 2017-2022, and will be followed by a new 10-year implementation plan

The national strategy and relevant policies are operationalized by 10 and 5-year sector and investment plans e.g., Health Sector plan and Health sector investment plan. These plans include both the strategy, and implementation plan for the sector.

Policy implementation is mostly decentralized at district level. District development plans and annual plans are developed and aligned with the national vision, the mid-term implementation plan and sector plans and adapted to the districts context.



Global and regional declarations touch upon many parts of the food system, but three main gaps exist

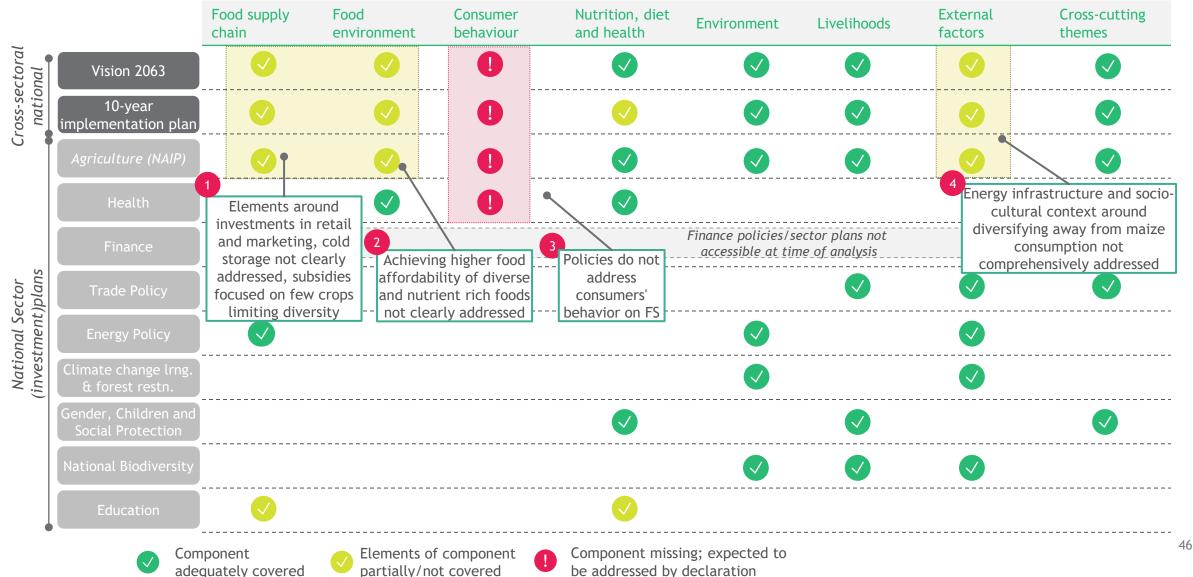


Component adequately covered 🧹 Elements of component partially/not covered 🚺 Component missin

Component missing; expected to be addressed by declaration

1. Sustainable Development Goals 2. Conference of Parties ; 3. African Continental Free Trade Area; 4. Common Markets of East and Central Africa; 5. South African Development Community 6. External factors based on qualitative framework developed. 7. Includes gender, human rights and youth. 8: Includes pop-up stalls, informal markets and traders etc. 45

National plans broadly cover all components of food system with some elements around food supply chain and environment not addressed



Probable changes required in national policies and strategies when implementing potential game changing solutions

Diet quality and nutrition security Majority of Malawians food insecure with low consumption of healthy foods	Livelihoods equity Majority live below poverty line, female households worse off, resulting in consumption of cheaper less nutritious meals	Environmental resilience Frequent climate shocks and over- reliance on drought sensitive crops resulting in food insecurity	Infrastructure capacity Fragmented infrastructure from farm to fork driving high food loss and waste especially of nutrient rich fruits and vegetables	Agricultural productivity ~20% of potential yield realized due to reliance on rain-fed agriculture and simple farming techniques
Agriculture • Tailor input subsidies to increase healthy food production Trade and Industry	Agriculture • Invest in agricultural commercialization and extension services • Improve effectiveness of anchor farming programs	 Agriculture Invest in irrigation & storage to reduce water & food waste Prioritize drought and flood resistant crop varieties 	<i>Energy</i> • Invest in rural grid electrification including use of sustainable energy sources (solar) for storage	Agriculture • Increase commercial farming and anchor farming programs • Invest in programs to reduce crop disease vulnerability
 Strengthen market linkages including cold chain Promote nutrition sensitive Health Ramp up behavior change and nutrition sensitive 	 Trade and Industry Ensure access to market for output either through ADMARC, district processing or agro- processing businesses 	Trade and Industry • Expand role of the ADMARC and ensure sufficient food reserves across more food types	Trade and Industry • Strengthen market linkages and infrastructure to facilitate better storage and local trade	 Increase effectiveness and scale of extension services Avail right types of fertilizer, with messaging on correct usage per season and region
communication Finance • Subsidize production and cost of nutritious foods & tax unhealth foods	 Finance Extend credit and insurances including de-risking particularly for small holder farmers and women 	Land and natural resources • Increase awareness of importance of forests & train farmers on conservation agriculture	<i>Finance</i> Increase PPPs to invest in infrastructural development Incentivize credit extension for infrastructure 	 Invest in community food storage and food markets to provide off-shoots and reduce food waste Provide inputs in timely manner Land. vs Agric./Health
 Trade vs. Agric./Fin./Health ASF consumption increases GHG Increased local avail. of nutrient rich foods vs. export income from Tobacco 	Agric. vs. Finance • Income growth could lead to inflation which makes food more costly for poor population	 Land/Energy vs. Agriculture Increasing irrigation could reduce hydropower capacity Conservation and eco-friendly farming can impact production 	 Trade and Industry vs. Agric. Need to prioritize investment in capital intensive infrastructure vs. extension services/irrigation 	 Large scale production increases yield but could lower food diversity Commercial agric. increases vulnerability to crop infestation

Key Policy

Trade-off's

Linking potential gaps and overlapping policies to the key challenges of Malawi's food system yields several issues and opportunities (I/II)





Key challenges in FS Current policies related to challenge

Diet quality and nutrition security

Limited consumption of nutrient rich foods such as legumes, fruits, vegetables and animal sourced foods resulting in high rate of undernourishment

Livelihood equity

Majority of population living below poverty line, womenled households typically worse off resulting in high undernourishment rate and consumption of cheaper, less nutritious meals

- NAIP: Input subsidies focused on maize and vegetable seeds
- NAIP and Energy: Investment in cold-chain for nutrient rich foods
- Nutrition and NAIP: Nutrition sensitive interventions, promoting dietary diversity, micronutrient supplementation
- National export strategy : Export of nutrient rich fruits & vegetables
- Education : Promotion of school feeding
- **Trade:** Promotion of commercial agriculture for export of food

Resilience:

- Cash transfer programs for lowest income
 category
- Training, employment and land ownership for women and youth
- Gender, social welf.: Access to microfinance
- NAIP: Access to for market price information

 Subsidies with focus on maize enable continuity of current system dynamics

policies

Potential gaps or conflicting

- Limited prioritization of investments resulting in incomplete implementation of programs, despite NAIP, covers many solutions to resolve food diversity
- Limited consumer behavior change limiting local consumption and increasing focus on exports
- Blanket cash transfer program
- Limited systems approach to improve livelihoods, e.g., input subsidies and training have limited effect without access to market
- Funding shortages often mean social assistance programs are not implemented



- Potential to tailor input subsidy programs to increase diversity and availability of nutrient-rich foods
- Prioritize investments based on return on investment
- Ramp up sensitization of nutrition sensitive consumption and trade
- Explore means to reduce cost of nutritious diet and create markets for nutrient rich foods
- Increase value added processing of nutrient rich foods (local demand)
- Target cash transfer program to those that most need it
- Scale up programs such as school feeding to cover entire population
- Re-functionalize existing co-ops and enable development of market linkages, financing access etc.,

Linking potential gaps and overlapping policies to the key challenges of Malawi's food system yields several issues and opportunities (I/II)





Key challenges in FS	Current policies related to challenge	Potential gaps or conflicting policies	Potential Implications
Environmental resilience Frequent exposure to droughts and reliance on maize, a highly drought susceptible crops, resulting in high levels of food insecurity	 Resilience: Encourage crop diversification, Sustainable irrigation development & water supply systems 	 Providing input subsidies without access to water (storage infrastructure) during drought period Increased input utilization may ris ability to ensure sustainable production 	 Investment in drought and flood resistant varieties & crops Adopt predictive modelling & early warning system to prepare long-
Infrastructure capacity Under-developed supply chain infrastructure with limited private sector investment, particularly for nutrient rich foods, driving high food loss and waste	 NAIP: Improve domestic infrastructure including feeder roads NAIP: Rural cold storage facilities Energy: Rural electrification NAIP: Post harvest management Trade: Improve market linkages 	 Facilitating private sector investment/PPPs not addressed Limited rural grid electricity development Focus on external markets linkage over more local supply chains may impact local availability 	
Agricultural productivity Relatively low yield of crops, due to reliance on rain-fed agriculture, simple farming techniques on small-holder plots and limited access to credit and insurance	 NAIP: Provision of subsidized inputs (e.g.,., fertilizer) NAIP: Irrigated agriculture and water storage investment, mechanization Reforestation strategy: Ensure forest cover of 10% on 80% of cropland 	training on application of inputs and local conditions may not improve yields	 Provide localized understanding of soil, seasonal & climatic conditions Explore farmer education on input application Focus subsidies and investment on most productive farmers

successful harvest not addressed

 π

consistent water supply to farms

NPC plans to streamline policy development...

Ensure strong alignment of sector and district plans to polices and national plans

- Synchronize planning phase for sector and districts and share planning guidelines that MDAs will adhere to
- Outdated policies still address existing problems, but these are not addressed in superseding policies

Develop consolidated policies that avoids overlaps or siloes

• Strengthen human capacity, coordination and capital available to create the enabling structure

...by addressing the following current challenges

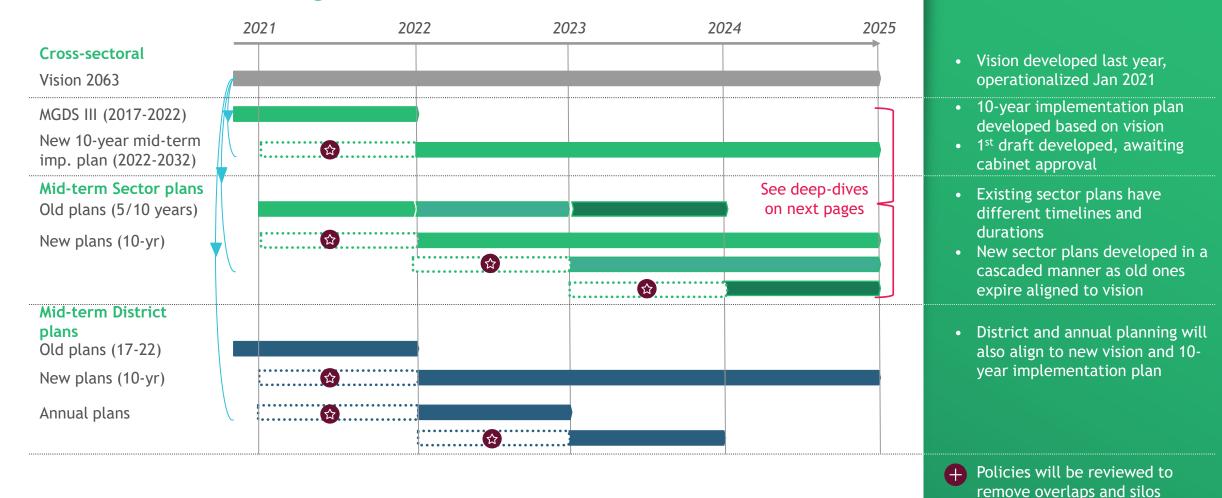
Misalignment in translation of policies to plans

 Misalignment between the sector plans and relevant policies, impacting effective implementation e.g., seed, diversification and commercialization policies not well aligned with the agriculture sector plan

Overlaps and siloes between policies

- Some policies address the same challenge in an un-coordinated manner
- Some policies designed to address issues in siloes e.g., increasing mining activity without clearly addressing impact on agriculture sector/environment
- Outdated policies still address existing problems, but at times not included in superseding policies

Development of new plans and strategies ongoing at different levels of government



Preparation
Implementation

Preparation phase for midterm/annual sector and district plans

☆



National vision and mid-term implementation plan | Designed through a 3-step process, informing the sector and district level plans

Situational analysis	Development of vision and mid- term plan	Results framework development (M&E)
Understand and prioritize key issues	Develop framework for vision and mid- term plan	Identify indicators & targets to track progress
Conduct broad based consultations		
 From grass roots to the ministerial level Across different types of organizations (NGOs, CSOs, private sector etc.) 	 Identify pillar and coordination groups based on: Overarching focus areas and associated key success factors Develop priority areas across each 	 Identify set of indicators to track progress for each focus area in each dimension Set goals for each indicator Set out agency responsible for
Analyze inputs from consultation process using robust modelling system to identity national priorities	 Highlight issues addressed across 6 dimensions¹ inc. cross-cutting issues State objectives, strategies and lead & collaborating agencies for each 	collection of data at national and district level
Conduct cross-sectoral meetings to ensure inclusive stakeholder feedback on	issue	

identified priorities

Shared with sectors and districts for development of plans

3rd step included for first time

Sector and District plans | Formulation of sector and district plans is guided by the Vision 2063- and ten-year implementation plan

Carry out situational analysis of MDA ¹ /MMDA ²	Prioritize set of development issues	Develop projections, goals, objectives and strategies	Formulate composite action plans	Annual action plans and implementation
Outline of performance on development programs and financing in past implementing period including outcomes and impact indicators Narrative of existing situation and list of development issues	 Develop prioritized list development issues and problems emanating from situational analysis considering Severity and diversity of problem, intended benefit Impact on economic multiplier effect Linkage effect with meeting human needs & rights 	Tailor projections, goals, objectives and strategies based on context e.g.,,, district economic activity, demographic situation. Ensure these are in line with the national development framework	 Develop 4-year action plans which consist of Action plan for each objective and strategy, detailing out activities for each strategy to be carried out over next 4 years (how long, executing lead and collaborating stakeholders) Costing of each activity and resources requited Plan needs to be approved by NPC to prior to allocation of budget by ministry of 	 Translate composite plan into annual action plan, identify Key activities to be conduced Associated budget of activities Indicators to be tracked for monitoring and evaluation of each activity which is associated with a strategy and objective

finance

Opportunities to translate aspirations in vision to plans and policies...

Ensure priorities of stakeholders are aligned with the national vision

• Ensure political manifestoes and policies are aligned to the vision and deviation from national vision is limited

Optimize use of available financing

- Adopt systems approach to development projects prioritizing projects with highest ROI
- Ensure alignment of priorities between development partners and those in the Vision. e.g., approving implementation of projects that are in line with priorities
- Explore opportunity to build an internal resilience fund or work with international community

... and ensure effective implementation

Build human capacity and coordination at district level

- Ensure sufficient resources are available for the implementation of plans
- Train personnel to ensure plans are aligned with overall priorities and funds channeled effectively
- Build relevant coordination mechanisms between implementing bodies to avoid duplication, and exploit identified synergies

Build effective M&E as part of implementation to ensure

Overview of key stakeholders in Malawi's food systems (I/II)

Public sector	Intl community and dev org.	Private sector	Civil society and other	Academia	Media
Min. of Agriculture and Food security	AGRA	National Bank of Malawi	CISANET (civil society agriculture network)	MwAPATA Institute	Alliance Media Malawi
Min. of Health	FAO	Presscane	Farmers union of Malawi	Lilongwe University of Agriculture and Natural Resources	Digital Marketing
Min. of Finance	GIZ	Agricultural Trading Company Limited	National Smallholder Farmer's Association of Malawi	Malawi University of Science and Technology	
Min. of Education, Science and Technology	FCDO	Mughona Enterprises Limited	CSONA	CIRAD	
Min. of Forestry and Natural Resources	IMF	Mzuzu Coffee Planters Cooperative Union Ltd	Mpoto Farmer Dairy Association		
Ministry of Gender, Community Development and Social Welfare	AfDB	Mzuzu Dairy			
Min. of Lands	World Bank	NBS Bank			
Office of the Vice President	USAID	Life Sciences Consulting			
National Planning Commission	WFP	Standard Bank of Malawi Limited			
Min. of Energy	International Fund For Agricultural Development	Malawi Congress of Trade Unions			
	DCAFS	Marji Agro-Chemicals			
	U.S. Department Of Agriculture	mHub			5

Overview of key stakeholders in Malawi's food systems (II/II)

and AIDS

Public sector	Intl community and dev org.	Private sector	Civil society and other	Academia	Media
Min. of Mining	JICA	Angle Dimension			
Min. of Industry	EU Delegation in Malawi	Bakhresa Malawi Ltd			
Min; of lands, housing and urban development	DCAFS	Britam			
Min. of civic education and unity		CEVA Logistics			
Min. of lands housing and urban development		Dairy Farmer and Veterinary Shop			
Min. of Youth and Sports		ECU Worldwide			
Malawi Bureau of Standards		Export Trading Group			
Min. of lands		Flexible Packaging Industries			
Department of Nutrition, HIV and AIDS	/	iMoSyS			
Office of the Vice President					
Department of Nutrition, HI	/				

Main stakeholders relevant to main food systems challenges (I/II)

Key challenges in FS	Relevant supra-indicator related to FS challenge	s Stakeholders ¹ more actively involved	Key decision maker(s) ²	Stakeholders that could be more actively involved
Diet quality and nutrition security Limited diversity in production to meet nutritional needs of population given production focus on maize	 Diet Quality Nutrient supply 	 Min. of Agriculture Min. of Trade and Industry Min. of Health Min. of local govt. and rural development Min. of Gender, Children and Social Protection 	L. Lowe - Minister Min.	 ADMARC Consumer Association of Malawi Donor group in Nutrition Security
Livelihoods equity Majority of population living below poverty line, women-led households typically worse off resulting in high undernourishment rate and consumption of cheaper, less nutritious meals	 Affordability Income Income Gender equity Economic Risk Distribution 	 Min. of Agriculture Min. of Trade and Industry Min. of Health Min. of local govt. and rural development Min. of Gender, Children and Social Protection Min. of finance NASFAM¹ 	L. Lowe - Minister Min.	•

Main stakeholders relevant to main food systems challenges (II/II)

Key challenges in FS	Relevant supra-indicators related to FS challenge	actively involved	Key decision maker(s) ²	Stakeholders that could be more actively involved
Environmental resilience Frequent exposure to droughts and reliance on maize, a highly drought susceptible crops, resulting in high levels of food insecurity	 Emissions Land Food Loss Regeneration Food waste Risk distribution Environmental : ND-Gain 	 Min. of land and natural resources Min. of Environment, Science Innovation and Technology Min. of Agriculture Min. of Trade and Industr Min. of local govt. and rural development NFRA 	G. Gondwe - Minister Min. Local govt. & Rural dev.	 Climate change and environment group ADMARC
Infrastructure capacity Under-developed supply chain infrastructure with limited private sector investment, particularly for nutrient rich foods, driving high food loss and waste	 Food safety Affordability Food loss Food waste 	 Min. of Trade and Industr Min. of Finance Min. of Business development Min. of Agriculture Min. of local govt. and rural development 	^y L. Lowe - Minister Min. Agriculture S. Gwengwe - Minister Min. Trade G. Gondwe - Minister Min. Local govt. & Rural dev.	 Donor group in Nutrition Security Private sector group
Agricultural Productivity Relatively low yield of crops, due to reliance on rain-fed agriculture, simple farming techniques on small-holder plots and limited access to credit and insurance	 Diet quality Regeneration Economic Risk distribution Social Environmental Production diversity 	 Min. of Agriculture Min. of Trade and Industr Min. of Finance Min. of local govt. and rural development 	L. Lowe - Minister Min. Agriculture S. Gwengwe - Minister Min. Trade G. Gondwe - Minister Min. Local govt. & Rural dev	 Donor group in Nutrition Security

1. National Smallholder Farmers Association



Executive Summary

Approach and key insights from diagnostic and landscaping analysis

Detailed diagnostic analysis

Detailed stakeholder and policy landscaping analysis

Next Steps : From Diagnostic to Action

Appendix

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With the Diagnostic and Landscaping analysis completed, it is time to think about "what comes next"

Food Systems Transformation				
0 Engagement	1) Diagnostic analysis (April - Aug 2021)	2 Policy development	³ Policy implementation	Sustainable healthy diets for all
 National government Integrative leadership and capacity Political will and commitment 	 National government Connection to relevant agencies Access to data and relevant officials Interaction with Food System Dialogues National TIP structure 	Development of policies, with engagement of: • Ministries and agencies • Legislature • Private sector • Civil society • Academia • Other stakeholders	 Implementation of policies, with engagement of: Ministries and agencies Private sector Civil society Other stakeholders 	SUSTAINABLE GOALS DEVELOPMENT GOALS Press
 Country prioritization and selection High-level government engagement 	 Key food system challenges and opportunities, based on fact base Key policy gaps, incoherencies, and opportunities Key data and evidence gaps 	 Process facilitation and coordination Identify potential policies Analyses, modelling and evidence generation & synthesis On-demand expertise M&E, learning, implementation research, cross-pollination 	 Process facilitation and coordination Analyses, modelling and evidence generation & synthesis On-demand expertise M&E, learning, implementation research, cross-pollination 	

We believe that it is the time to harness the momentum of the UN Food Systems Summit towards accelerated food systems transformation

Countries increasingly Food system gaps and realizing the need for aspirational outcomes 000 000 integrated policy and articulated at FSS Dialogues governance structures that bringing together a wide build on what works while range of stakeholders addressing functional gaps Need to support to countries to navigate the complexities of food systems transformation Ambitious commitments expected at the Summit: a Realization that coalitions of moment to move beyond diverse partners are required visioning and analysis to for food systems transformation planning for action and accelerating change

To enable locally-led transformative and integrated action in the food system, there is a need for an integrator, facilitator and curator to provide support

Wide range of initiatives, resources and **complexities** coming at countries Need for an **integrator, facilitator and curator** to help turn this complexity into transformative and integrated **action**

Phase 1: Diagnostic & landscaping analysis

- Created a diagnostic tailored to the country's context and focused on implementation
- Identified existing data gaps & approaches to fill
- Brought together quantitative data analysis and qualitative policy & stakeholder mapping
- Built the foundation for local prioritization and ambition setting
- Created buy-in though our co-creative and iterative approach

Phase 2: Transformative and integrated policies

- Support local leadership to integrate existing initiatives and resources into a coherent and prioritized approach
- Facilitate country ambition setting & prioritization
- Convene stakeholders for an inclusive & integrated approach
- Build local analytical capacity
 - FS-TIP can help navigate complexity

Support governments to accelerate towards the vision of sustainable healthy diets for all starting with evidencebased policy design and implementation





Ministries of Agriculture, Health, Environment, Trade, Local Government, etc.

Publications and reports (academic publications, private and public sector reports, etc.)



Frameworks (CAADP, Food Systems Dashboard, FSS action tracks, HPLE, etc.)

CFS Help Level Panel of Experts Pood Systems DashBoard

World Food

Data sources (FAO, UN, World Bank, WHO, FS Dashboard, ReSAKSS, WFP, etc.)



Food systems complexity

Need to align objectives and policies across ministries to accelerate food systems transformation

Equitable livelihoods that deliver sustainable healthy diets for all

Ministry of Agriculture

- Enhanced smallholder incomes
- Quality farmer extension training
- Increased productivity
- Access to inputs

Ministries of Industry and Trade

- Increased value addition activities
- Development of a "good food" processing sector
- Linkages across the value chain

Presidential Initiative with FS-TIP support integrating, aligning, coordinating

Ministry of Health

- Healthy citizens; extended lifespans
- Non-communicable disease cost avoidance
- Reduction in stunting and wasting

Ministry of Nat. Resources, Energy & Mining

- Protection & restoration of natural resources
- Management of water & land resources
- Building resilience against climate change and shocks

Enablers: Investment & innovation



Diet quality and nutrition security





Environmental resilience





Agricultural productivity

Harnessing the Food Systems Summit Dialogues & FS-TIP diagnostic analysis to prioritize challenges & policies

Three key actions to move from diagnostic to actions to realize country-owned food systems transformation



Prioritize set of food system challenges: Align stakeholders on the most urgent and important challenges and identify how they align with existing strategies and policies



Set ambition and formulate policy to address priority challenges:

Convene the public, private, development, academic, and social sectors, as well as civil society and the media, to develop a national ambition and priorities for action

Formulate the relevant policies, addressing interdependencies, synergies and trade-offs with robust analysis and evidence

Outline the funding, programs, processes, and monitoring and evaluation mechanisms to address challenges



Design governance, coordination and delivery models for locally-led food system transformation:

functions, processes, funding, capacity building and use of technology to drive efficiency and effectiveness

Required conditions in country for successful food systems transformation

Ø

Government support at the highest level

President or Prime Minister to support a national agenda for food systems transformation and empower the governance structure with the necessary mandate

Highly capable, independent and respected leadership

Champion(s) that can lead planning and delivery efforts, make tough decisions, face vested interests, and inspire others to set bold ambitions and realize them

Strong multidisciplinary local teams that can "over-deliver"

- Strong local team(s), with technical expertise to build capacity over time
- Accelerated delivery of programs at scale
- Leveraging digital technology to make and measure impact
- Ability to scale up and scale down required capabilities in an agile way

Governance, coordination and delivery models for a high-performance culture

- Well designed set of performance indicators and evaluation mechanisms, leveraging the FS-TIP 'scorecard/dashboard' as the baseline
- Structures that can adapt to changing realities and evolving insights

Sufficient and sustainable funding for intergenerational effort

Blend of public, development and private sector finance and investment to realize ambition over a 10+ year period

The in-country governance structure to drive food systems transformation should follow five design principles





Bold transformative agenda with a clear review process Integrate all components of the food system

Able to set bold ambitions for true food system transformation, with equally ambitious local capacity-building goals; accountable to national government via a formal review process

Must work across all components of the food system to enable prioritization, coordination and integration of policies, leverage synergies and manage trade-offs Ensures all voices are heard, siloes are broken and coordination takes place between stakeholders; brings subnational, national, regional, and global stakeholders together in an inclusive and meaningful way enriched by feedback to the stakeholders and public

Connect

stakeholders from

local to regional to

global levels



Long-term commitment and strong, clear mandate to deliver

Needs long-term focus (10+ years); must have sufficient mandate to make tough decisions and deliver on ambition within its timeframe; must be able to survive government transitions



Able to attract funding and investment for implementation

Should attract funding and investment into food systems from public and private sector, locally and from abroad; will align interests behind shared priorities

From Diagnostic to Action | Four functions to realize food systems transformation

Executive function



- Coordinates and ensures delivery across different Ministries and Government agencies that are part of the FS policy environment
- Sets the priorities and ambitions for transformation
- Conducts analysis, designs policies and programs and supports implementation to realize ambitions
- Ensures development of capacities of local teams





- Provides the datafoundation for ambition setting and prioritization of actions, based on FS-TIP scorecard of supra- and key indicators
- Tracks progress towards the ambitions
- Enables performance comparisons across countries (in Africa) through the CAADP biennial review



- Brings together voices of all food system stakeholders
- Breaks down siloes between actors and components of the food system
- Acts as a "checks and balances" mechanism to ensure policies are relevant and implementable
- Has an advisory, consultative or participatory role in decision-making

Thinking and advisory function



- Brings together academics, development partners and other stakeholders with expertise in food systems, that are not direct actors
- Develops evidence to inform policy design and implementation
- Continuously develops capacities of local teams

- Coordination & Ensure budget function Condu
- Ensures coordination between the different functions
 Develops budget for different functions
 - Develops budget for different functions
 - Conducts fundraising and mobilizes resources (together with the executive function)

Illustrative set of options for each function

	Build on existing structure(s)	transition over time possible	Develop new structure(s)
	Select ministries in charge,	'Presidential Initiative' with	New Food Systems
Executive function	coordinating sector cluster	technical and steering committees	Transformation Agency
Data custodian and progress reviewing function	NSO and ministerial PPME informing CAADP indicators and biennial review, expanded to include all FS elements	NSO and ministerial PPME informing CAADP indicators and biennial review, expanded to include FS-TIP scorecard elements	NSO and ministerial PPME informing CAADP indicators & biennial review, with local version of the Food Systems Dashboard to
Inclusive participation function	SUN Civil Society Network & SUN Business Network expanded to full food system view	Food Systems Summit Dialogues as transformed into a permanent forum	New network of food systems consultation "hubs"
Thinking and advisory function	National Technical Working Group	Academic institutes connected into food systems platform	New Food systems Think Tank

There are different options for the exact set-up...

Functions can be built upon existing structures or might require new structures

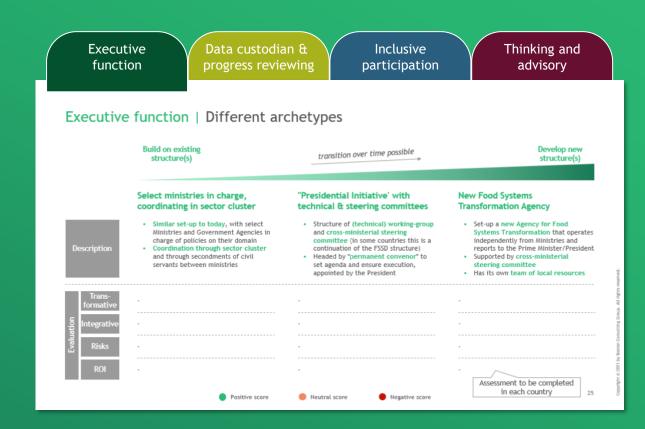
- Existing structures to consider: SUN network, National Technical Working Groups, CAADP and Biennial Review, UN FSS Dialogues, etc.
- New structures can take inspiration from ATA, ATO, etc.

Two or more functions may be combined into a single organizational structure

Each set-up will be developed in-country against a set of criteria

- Ability to be transformative
- Ability to develop and implement integrated policies and programs
- Level of risk associated
- Return on investment
- Others

...which should be defined for each function by the country





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Approach and key insights from diagnostic and landscaping analysis

Detailed diagnostic analysis

Detailed stakeholder and policy landscaping analysis

Next Steps : From Diagnostic to Action

Appendix

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We want to thank the following people and organizations for their contributions and feedback (I/II)

Name	Title	Organization	Role in FS-TIP
John Ulimwengu	Senior Researcher	IFPRI/AKADEMIYA2063	Country Manager
Greenwell Matchaya	Director	AKADEMIYA2063	Country Manager
Sophie Chitedze	Country Manager	AGRA (Malawi)	Country Expert,on the ground-lead
Kennedy Lweya	Advisor	ТВІ	TBI Advisor
Levison Chiwaula	Associate Professor	University of Malawi	Country Expert
Mariam Kadzamira	Consultant/Researcher	CABI	Country Expert
Laura Trijsburg	Researcher	Wageningen University and research	Country Expert
Julius Mangisoni	Professor	LUANAR	Country Expert
Jolien Paalman	Project Leader	BCG	Country team member
Suraj Shah	Consultant	BCG	Country team member
Oluwapelumi Bamgbala	Consultant	BCG	Country team member

We want to thank the following people and organizations for their contributions and feedback (II/II)

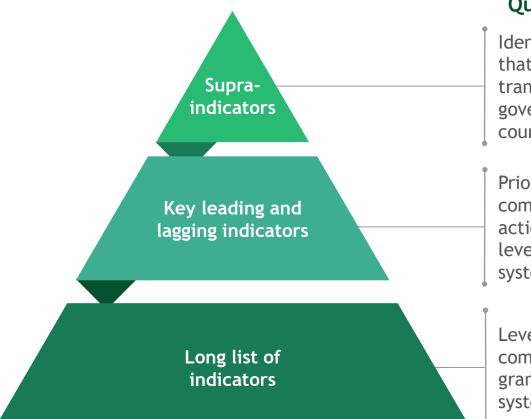
Name	Title	Organization	Role in FS-TIP
Jef Leroy	Senior researcher fellow	IFPRI	•
Alan de Brauw	Senior researcher fellow	IFPRI	
Claudia Ringler	Deputy Program Director	IFPRI	
Danielle Resnick	Senior researcher fellow	IFPRI	
Jemimah Njuki	Senior researcher fellow	IFPRI	
Namukolo Kovic	Senior researcher fellow	IFPRI	
David Spielman	Senior researcher fellow	IFPRI	International Expert Panel
Mutinta Hambayi	Advisor	World Food Programme	
Daniel Njiwa	Head of Regional Food Trade & Resilience	AGRA	
Sheryl Hendriks	Associate Professor	University of Pretoria	
Robynne Anderson	Consultant/Researcher	Emerging Ag inc.	
Amos Laar	Professor	University of Ghana	
Jeroen Candel	Professor	Wageningen University of research	•
Peiman Milani	Consultant	The Rockefeller foundation	•
Paul Thangata	Senior Policy Advisor	AGRA	
Lloyd Le Page	Senior Advisor	TBI	
Chris Mitchell, Jolien Paalman, Suraj Shah, Shirley Mujera	Various	BCG	Project Management Committee
Elizabeth Kimani	Senior Research Scientist	APHRC	
Katrin Glatzel	Director	AKADEMIYA2063	

Non-exhaustive list of stakeholders consulted during the diagnostic

Not exhaustive

Institutions	Roles within the Institution
Ministry of Agriculture	Directors and Deputy Directors
Local Government Services	Deputy Directors
Ministry of Finance	Senior Government Officials in Pensions and Financial Sector Policy
Ministry of Health	Senior Government Officials in the Department of Nutrition
Ministry of Trade	Pensions and Financial Sector Policy
Ministry of Economic Planning and Development	Senior Government Officials
Ministry of Natural Resources, Energy and Mining	Senior Government Official in the Environmental Affairs Department
Ministry of Local Government and Rural Government	Senior Government Officials
National Planning Commission	Leadership
Donor Committee on Agriculture and Food Security (DCAFS)	Leadership
Farmers Union of Malawi (FUM)	Leadership
International Food Policy Research Institute (IFPRI)	Leadership
Alliance for a Green Revolution in Africa (AGRA)	Leadership

Diagnostic framework | Quantitative assessment structured along 3 levels and linked to the UN Food Systems Summit Action Tracks



Quantitative framework

Identify 4-5 supra indicators per UN FSS action track that represent outcomes of food systems transformation, plus key cross-cutting topics such as governance, to enable easy assessment of the country's status and main areas of attention

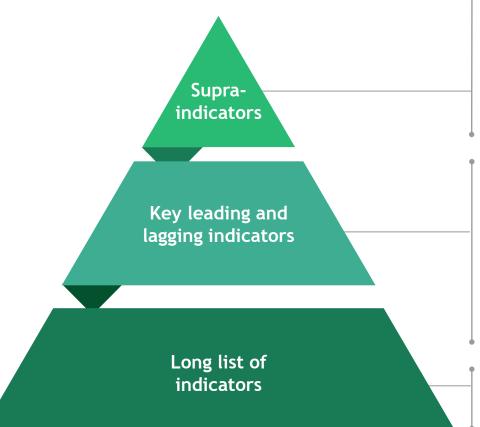
Prioritize ~40 to 50 key indicators across components of the food system and the UN FSS action tracks, to enable identification of main highlevel drivers for good or bad performance on food system transformation

Leverage long list of detailed indicators across all components of the food system, that give the user a granular view of outcomes and drivers of food systems transformation

Qualitative view

Qualitative insights and commentary on each set of Action Track supra-indicators supplementing quantitative analysis

Diagnostic framework | Selection criteria to prioritize comprehensive and highquality indicators



Criteria for identification of supra-indicators:

- 1. Representative of outcomes of food systems
- 2. Data is available, of good quality, has breadth, is frequently updated, and has buy-in
- 3. Strong history with ideally >15 years of past data
- 4. Together, they cover all key elements of food systems and point to key areas of attention
- 5. Most informative indicators for policy making and monitoring
- 6. Most relevant indicators to country/African continent

Criteria for prioritization of key indicators:

- 1. Acceptability & Quality Data is available, of good quality, has breadth, is frequently updated, has stakeholder buy in
- 2. Strong history with ideally >15 years of past data
- 3. Specific with potential to decompose at sub-national level
- 4. Catalytic- Covers key places in food systems where transformation can be instigated
- 5. Output focused and sensitive to show results of (policy) changes
- 6. Contra-indicator: Sensitive to inform trade offs & synergies
- 7. Coverage: Together they are representative of all food systems components

Criteria for selection of long list indicators:

Leverage existing frameworks to create long-list of indicators: CAADP (as most tailored to African context), national indicators and datasets, Food Systems Dashboard, etc.

Supra-indicators | Data sources for supra-indicators data in Malawi

Action Tracks	Supra-indicators	Source	As at
	Diet quality: Food Consumption Score (FCS) in Rwanda and Malawi Diet Quality (GDR+) in Ghana	WFP CFSVA	May 2021
Ensure access to safe and	2 Nutrient supply: Net supply in country of key macro and micro nutrients as a share of total consumption requirements for a healthy diet	National Survey	2020
nutritious food	3 Undernourishment: Percent of population undernourished (%)	World Bank	2018
ior all	Overweight & obesity: Percent of population overweight or obese (%)	WHO	2016
	5 Food safety: Africa Food Safety Index	WHO	2017
Shift to	6 Affordability: Cost of a healthy diet as a percent of household food expenditure (%)	FAO-SOFI	2020
sustainable	7 Sustainability of diets: Per capita GHG emissions of food consumption (Kg CO2eq./person)	WWF	2010
consumption	8 Food waste: Food waste index	UNEP	2021
patterns	Prood environment: Composite index combining food environment policies	WHO NCD Monitor	2021
	10 Emissions: Green House Gas (GHG) emissions from agriculture (MtCO2e)	Climate Watch	2018
Boost nature-	1 Land: Average forest land being deforested in hectares for agriculture use over the past 3 years (%)	World Bank, Forest Watch	2019
positive production	12 Food loss: Percent food loss across supply chain (%)	National sources	TBD
	13 Regeneration: Biodiversity and habitat index	EPI	2019
Advance	14 Income: Gini coefficient (specific) based on incomes across the food system	National survey	2021
equitable	15 Income: Gap between farmgate price and wholesale price (%)	CAADP Biennial Review	2018
livelihoods	16 Gender equity: Women empowerment in agriculture index	IFPRI	2014
Build	DEconomic: Household Resilience Capacity Index	National survey	2021
resilience to	18 Risk distribution: Proportion of men and women engaged in agriculture with access to finance	CAADP Biennial Review	2018
vulnerabilities,	19 Social: Government social security budget as a % of total requirements to cover vulnerable group (%)	CAADP Biennial Review	2018
shocks and	20 Environmental: ND-GAIN (Notre Dame Global Adaptation Initiative) Country Index	ND-GAIN	2018
stress	21 Production diversity: Percent of kilograms from top 5 crops produced (%)	FAO	2019
Governance	22 Governance: Food Systems Transformation Governance Index	National policies	2021

Supra-indicators | Ideal scores defined for the supra-indicators (I/II)

Action Tracks	Supra-indicators		Definition of supra-indicators	High	Low
Ensure access to safe and	Diet quality: Food Consumption Score (FCS) in Rwanda and Malawi Diet Quality (GDR+) in Ghana	•	Aggregates household-level data on the diversity and frequency of food groups consumed, weighting food groups according to the relative nutritional value	100 30	0 0
	Nutrient supply: Net supply in country of key macro and micro nutrients as a share of total consumption requirements for a healthy diet	•	Net supply in country of key macro and micronutrients as a share of total consumption requirements for healthy diet	Varie	s by country
nutritious food for all	Undernourishment: Percent of population undernourished (%)	•	Percentage of the population whose food intake is insufficient to meet dietary energy requirements	0	100
	Overweight & obesity: Percent of population overweight or obese (%)	•	Abnormal or excessive fat accumulation that presents a risk to health	0	100
	Food safety: Africa Food Safety Index	•	Combines three food safety indices; Food Safety Systems Index, Food Safety Health Index and Food Safety Trade Index	100	0
	Affordability: Cost of a healthy diet as a percent of household food expenditure (%)	•	It is the cost of acquiring a healthy diet as a share of total household expenditure being spent on food	<50	>50
Shift to	Sustainability of diets: Per capita GHG emissions of food consumption (Kg CO2eq./person)	•	Total of emissions arising along the entire food value chain from agricultural production to the end consumer	N/A	N/A
sustainable consumption patterns	Food waste: Food waste index	•	Food that completes the food supply chain up to a final product but still doesn't get consumed because it is discarded, spoilt or expires. At retail and consumption stages		N/A
	Food environment: Composite index combining food environment policies	•	Food environment policies that encourage consumption of sustainable and healthy diets	14	0
	Emissions: Green House Gas (GHG) emissions from agriculture (MtCO2e)	•	These are all emissions and removals occurring on 'managed land' and that are associated with the use of land for agriculture	N/A	N/A
Boost nature- positive production	Land: Average forest land being deforested in hectares for agriculture use over the past 3 years (%)	•	Implies permanent loss of forest cover from transformation into agricultural use.	0	100
	Food loss: Percent food loss across supply chain (%)	•	Refers to food that gets spilled, spoilt or lost, or reduces in quality and value during supply chain before reaching final product. From production to distribution	0	100
	Regeneration: Biodiversity and habitat index	•	Assesses countries' actions toward retaining natural ecosystems and protecting the full range of biodiversity	100	0 7

Supra-indicators | Ideal scores defined for the supra-indicators (II/II)

Action Tracks	Supra-indicators		Definition of supra-indicators	High	Low
	Income: Gini coefficient (specific) based on incomes across the food system (under development)	•	Highlight's income distribution among various players in the food systems. Zero indicates a perfectly equal distribution of income within the FS while 100 represents a perfect inequality when one person in a population receives all the income, while other people earn nothing	Varies I	by country
Advance equitable	Income: Gap between farmgate price and wholesale price (%)	•	Highlights the gap between farmgate price and retail price. Compares income to farmers vs prices paid by consumers. Better if narrow	0	TBD
livelihoods	Gender equity: Women empowerment in agriculture index	•	shows the degree to which women are empowered in their households and communities and the degree of inequality between women and men (who are married or in some other form of partnership) within the same household. Measures the empowerment, agency, and inclusion of women in the agriculture sector		0
	Economic: Household Resilience Capacity Index	•	Estimates household resilience to food insecurity with a quantitative approach to establish a cause effect relationship between resilience and its critical determinants	TBD	TBD
Build	Risk distribution: Proportion of men and women engaged in agriculture with access to finance	•	Access of micro and macro credit by people involved in the agriculture sector	100	0
resilience to vulnerabilitie s, shocks and stress	Social: Government social security budget as a % of total requirements to cover vulnerable group (%)	•	The amount of money that the country allocates for preventive, protective, promotive or transformative assistance to farm individuals, households or communities	100	0
	Environmental: ND-GAIN (Notre Dame Global Adaptation Initiative) Country Index	•	Summarizes a country's vulnerability to climate change and other global challenges in combination with its readiness to improve resilience	100	0
	Production diversity: Percent of kilograms from top 5 crops produced (%)	•	The proportion of production occupied by the key foods produced in the country	<50	>50
Governance	Governance: Food Systems Transformation Governance Index	•	Combines key components such as vision, ambition which are essential for food systems transformation	14	0

Summary list of sources

Note: Number bubbles specify the supra-indicators whose slides are being referenced. e.g., Diet quality is supra-indicator 1

- 1. Food Systems Dashboard 2. FAO
- 4 1. Global Nutrition Report 2. UNICEF 3. Integrated Household Survey (IHS5) 2020 4. US National Library of Medicine, National Institutes of Health 5. Mwapata Institute
- 1. MDPI Achieving an Integrated Approach to Food Safety and Hygiene—Meeting the Sustainable Development Goals in Sub-Saharan Africa
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- 13 1. UN 2. Food Systems Dashboard 3. Global Forest Watch 4. FAO Global Action for Fall Armyworm Control
- 5 1. Malawi Livelihood Baseline Profiles 2. International Food Policy Research Institute Post Harvest Losses
- 1. Integrated Household Survey (IHS5) 2020
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- 20 1. UNICEF Malawi 2019/20 Social Welfare Budget Brief 2. World Bank 3. ND-GAIN
- 1. Malawi Livelihood Baseline Profiles 2. International Food Policy Research Institute Evidence and Options for Improving the Input Subsidy Programs

Glossary

List of abbreviations		
AGRA	Alliance for Green Revolution in Africa	
APHRC	African Population & Health Research Centre	
AU	African Union	
AUC	African Union Commission	
BCG	Boston Consulting Group	
CAADP	Comprehensive Africa Agriculture Development Programme	
EAC	East Africa Community	
FAO	Food and Agriculture Organization of the United Nations	
FCS	Food Consumption Score	
FSS	Food Systems Summit	
FS-TIP	Food System Transformative Integrated Policy	
GDP	Gross Domestic Product	
GHG	Green House Gas	
HLPE	High Level Panel of Experts on Food Security and Nutrition	
IDRC	International Development Research Centre	
IFPRI	International Food Policy Research Institute	
NCD	Non-Communicable Diseases	
ND-GAIN	Notre Dame Global Adaptation Initiative	
SDGs	Sustainable Development Goals	
UN	United Nations	
WFP	World Food Programme	
WHO	World Health Organization	

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