Global Food System Index Concept Note

Prepared by IFPRI under its Compact2025 initiative with input from the World Bank, Rabobank, and Landesa

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Overview

A food system that sustainably provides food security and nutrition for all is essential to promote and maintain the well-being of all people and of the planet. Food security, defined by the Food and Agriculture Organization (FAO), exists when "all people, at all times, have physical, social and economic access to sufficient, safe and nutritious food which meets their dietary needs and food preferences for an active and healthy life" (Source: FAO SOFI 2011¹). The four pillars of food security are availability, access, utilization and stability. These, combined with nutrition and sustainability, provide the foundations of a desirable food system. Such a food system will be key to achieve multiple Sustainable Development Goals (SDGs). For these reasons, a Global Food System Index (GFSI) is critical to monitor and track progress toward a desired food system.

By providing decision makers with a broad and practical tracking and monitoring tool, the GFSI would support the World Economic Forum's Global Agenda Council on Food and Nutrition Security mandate of ensuring sustainable food and nutrition security for all. The GFSI will aim to fill a gap among a crowded field of indexes and indicators; while many indexes exist, none distills the complexities of the entire food system into a single index or set of indexes.

The GFSI will be developed and disseminated to help users prioritize investments in food systems, assess the policy and institutional support for climate smart practices and sustainable systems, and track the development impacts of food systems (among other uses). It will allow users to dynamically work with the various dimensions of the Index to better understand the complexities of food systems. Users of such an index may come from various sectors and spheres, including decision makers in governments, international organizations, the private sector, donor agencies, civil society, and academia.

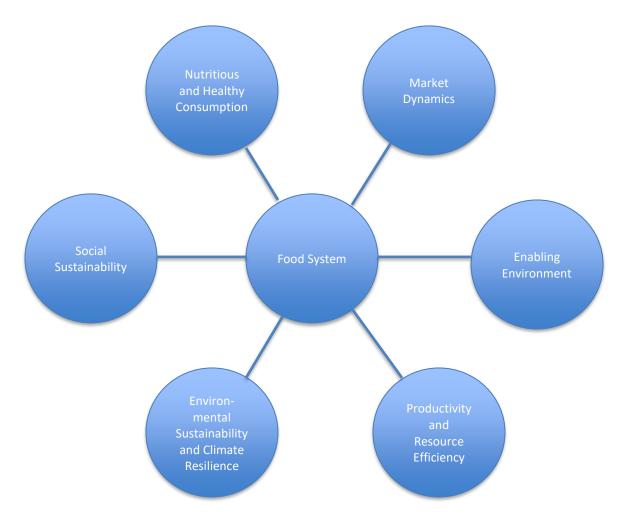
Drawing from the UN Secretary General's Zero Hunger Challenge, a food system is defined as a system that "embraces all elements (environment, people, inputs, processes, infrastructure, institutions, et cetera) and activities that relate to the production, processing, distribution, preparation, and consumption of food and the outputs of these activities, including socioeconomic an environmental outcomes." Understanding the many moving parts of a food system requires a tool; in this case, an index.

This concept note lays the foundation for the index we aim to develop. Our attempt here is not to challenge or resolve abstract questions on the concept and definitions of food systems, but rather to create an evidence-based tool, useful to practitioners, for understanding the complexities and improving the quality of food systems that affect people's lives.

¹ <u>http://www.fao.org/docrep/meeting/026/MD776E.pdf</u>

Proposed dimensions and indicators

An ideal global food system would successfully address challenges to human and ecological wellbeing across all of its aspects. To track progress toward such a system, the GFSI would cover six key dimensions: Nutritious and healthy consumption, market dynamics, enabling environment, productivity and resource efficiency, environmental sustainability and climate resilience, and social sustainability.



Nutritious and healthy consumption

After decades of unprecedented progress in improving global food security, hunger is now on the rise. Currently, 815 million people, or one in nine, remain undernourished. In particular, high levels of hunger persist in Africa south of the Sahara, where nearly one in four people are undernourished. Progress has also been slow in the Caribbean, and in West Asia, where the share of hungry people has increased since 1990.

The world also faces serious nutritional challenges. Undernutrition is the single biggest contributor to child mortality, and one of the world's most serious health and human development challenges. Although the overall trend for undernutrition is improving, there are

still 162 million children under-five who are stunted, the vast majority of whom live in Sub-Saharan Africa and South Asia. Worldwide an estimated two billion people suffer micronutrient deficiencies. A confluence of factors that intersect with the global food system can exacerbate undernutrition. For example, lack of access to adequate water, sanitation, and hygiene (WASH) infrastructure presents a significant challenge to producing and consuming food safety, resulting in diseases that can cause or worsen undernutrition.² Consequences of undernutrition extend beyond individual health outcomes. The impaired cognitive and physical development that results hinders educational attainment, and workforce capacity and productivity, ultimately undermining the economic progress of countries.

On the other end of the spectrum, a growing number of people are suffering from overnutrition; currently over 2 billion people are overweight or obese. Physical, social, and economic consequences of over-nutrition are experienced in nearly every country in the world. Further, food safety is under threat from rising agriculture-related risks to health and increased threats to the safety of food supplies in countries of all stages of modernization and intensification of industrial and agricultural activities (consider rice contamination in China and aflatoxin in maize in Africa, for example). Concerted efforts are needed to align the global food system to enable and promote increased consumption of safe, nutritious, diverse diets in amounts adequate to meet food-based dietary recommendations while limiting processed foods of limited or no nutrition value.

Indicators to measure the nutritional aspect of the food system include the extent to which diverse foods are consumed, as well as outcome indicators on hunger and undernutrition. New indicators on dietary diversity and obesity, particularly those that are aligned with the post-2015 development framework, can help understand dietary trends and outcomes, and will be considered as they are rolled out. Indicators on governmental commitments to nutrition plans that aim to address under- and over-nutrition, as well as governments' investments in nutrition-driven agriculture will also be considered. To measure food safety, candidate indicators include incidents of agriculture-related disease by country, access to clean drinking water, and the existence of an agency or body to ensure the safety and health of food.

Sub-		
component	Indicator	Data source
Nutrition	Share of non-starchy foods	FAO
	Prevalence of undernourishment	FAO
	Prevalence of child stunting	UNICEF/WHO/WB
	Prevalence of obesity	UNICEF/WHO/WB
Health	Burden of foodborne disease	Havelaar et al.
пеанн	Agency to ensure the safety and health of food	HANCI

Select candidate indicators for the Nutritious and Healthy Consumption dimension

Market dynamics

Food systems must be supported by well-functioning market and trade dynamics that minimize wasteful distortions and transaction costs. Food supply chains must be connected by strong

Topics like 'sanitation,' while important for nutrition, present a field of research in itself.
To delineate the GFSI, its model may include an overarching sanitation score, while referring to dedicated external indices (i.e. like the "WASH performance index") for more detail.

linkages that are inclusive of all actors in the food system. Good market and trade policies can minimize the negative effects of market shocks and improve resilience across the value chain while limiting negative externalities for foreign countries and agents.

Markets and trade must work for all actors in the food system, especially smallholders, as 500 million smallholder farms in the developing world provide an estimated 80 percent of the food produced in Asia and Africa south of the Sahara. Yet because smallholders are a vulnerable group, and often neglected by development policy, they account for most of the world's poor and hungry. Maximizing the potential of smallholder farms through well-functioning markets can greatly improve food security and improve rural livelihoods.

Ultimately, market dynamics must work for consumers by providing adequate, safe, and nutritious food for all. Increasing physical access to markets, particularly for the poor and vulnerable, will be key in ensuring an inclusive and healthy food system for all. Further, increasing availability of food through open, fair, and transparent trade policies can help improve food security, particularly in countries whose food systems are not as productive or resource efficient. It is also key that the food system provides stability and mitigates the risk of extreme food price volatility, for example through well-regulated food warehousing and reserve systems.

To measure the interconnectedness of a country's food system to global markets, an indicator that captures measures of trade of agricultural products will be included. Indicators examining policies that promote open, fair, and transparent trade will also be considered. Market inclusion for producers, especially smallholders, as well as for consumers will be considered. Access to, or levels of, internal and external value-chain financing, from SME financing to more direct commercial financing of the sector's activities, will be considered as indicators for well-functioning markets. Additionally, an indicator on price volatility, and policies used to reduce it, will be examined with particular consideration for the SDG indicator for food price volatility and the Agricultural Market Information System (AMIS).

Sub-component	Indicator	Data source				
Open, fair,	Nominal rate of protection	Ag Incentives				
transparent trade	Nominal face of protection	Agincentives				
Market distortions	Distortions to agricultural incentives	Kym Anderson				
Market inclusion of	Rural access to credit	World Bank (Agribusiness				
smallholders		indicators)				

Select candidate indicators for the Market Dynamics dimension

Enabling environment

It is critical that governments create an environment in which private entities and initiatives from major international food corporations to small-scale farmers—can invest in the food system and profitably and sustainably supply safe and nutritious food. Private sector participation, as well as foreign and domestic investments, which help push forward critical advances in technology, productivity, and other outcomes. By supporting all actors in the food supply chain, an enabling environment should incentivize the private sector to contribute to enhancing food security and nutrition in a sustainable and inclusive way³. Besides supply chain linkages between private sector parties, this equally includes partnerships with public bodies, development agencies, and civil society organizations.

To function well for private enterprises, an enabling environment will require, among other things, adequate transportation, communication, and energy infrastructure; legal, regulatory, and institutional frameworks; availability of finance; and agricultural research and extension services. It must also work to support all actors in the value chain, including commercially viable small farm enterprises. In such an environment, private-sector actors in the food system can contribute to goals such as nutrition or sustainability if pursuing those goals also expands their potential for profits.

Indicators examining the enabling environment for engagement and investment along the food value chain, such as government investments in agricultural R&D and extension, will be included. Also, coordination mechanisms (existence and functionality) between the different agencies responsible for agriculture, water management, forestry, environment and sustainable development would be a useful indicator. Policies that promote enabling environments for a range of actors including smallholders will be considered. Indicators that measure how a country's rule of law is experienced—and in particular how it impacts market linkages and the enabling entrepreneurial environment—will also be considered.

Sub-component	Indicator	Data source
Enabling environment for	Enabling the Business of Agriculture indicators	World Bank
business	Land tenure—Land Governance Assessment Framework	World Bank ⁴
Governance	Corruption Index	Transparency International
	Worldwide Governance Indicators	World Bank

Select candidate indicators for the Enabling Environment dimension

Productivity and resource efficiency

A productive food system is one that produces crops, livestock, and fisheries using the fewest resources possible. The global food system must be productive as the current global population will increase to 9 billion by 2050. By then, per capita arable land will decrease by 50%, while food production will need to increase by 60% to meet demand.

 ³ While the GFSI will include indicators for promoting an enabling entrepreneurial environment at the country level, it will refer to other indices (i.e. Access to Nutrition Index) for company-specific accountability and ranking by companies' contribution to addressing poor nutrition and dietary patterns.
⁴ There is no global, nationally-representative, sex-disaggregated data on tenure security. However, the Post-2015 SDGs offer a promising opportunity through the inclusion of a cross-cutting land rights indicator. In the short-term, this critical data void can be filled using a global poll until national-level household surveys are implemented. For more information on a path forward supported by a coalition of

over 20 civil society organizations see: <u>http://landpost2015.landesa.org/wp-</u>

content/uploads/2015/04/One-Indicator-Many-Targets-A-Path-for-Tracking-Land-Rights-Post-2015.pdf

Further, the global food system must move beyond the traditional approach of focusing primarily on boosting food production and productivity. As such, a desirable food system must be resource-efficient to meet current and emerging demand for food without jeopardizing the availability of scarce resources. Resource-efficiency is particularly crucial as competition for energy, and water is growing—for example, agriculture's demand for water could rise by over 30% by 2030 as availability shrinks. All resources must be used more efficiently to meet current and future needs sustainably.

Beyond resource-efficient production, resource-use efficiency must be promoted throughout the food value chain. Mid- and downstream aspects of the value chain must contribute to resource-use efficiency by reducing food losses and waste, as one-third of food produces for human consumption is lost or wasted globally—a figure that points to an inefficient and unsustainable global food system. Reducing food losses and waste can not only contribute to greater resource efficiency, but also to food security via greater availability.

The productive and resource efficient dimension will measure the efficiency of staple crop production in a country. Further, as not all countries have the same yield potential for each crop, an indicator of yield gaps for selected crops will be considered to measure how close each country is to achieving their potential in productivity. Indicators to address resource efficiency will include resource-use efficiency in agriculture with respect to water and energy use. An indicator on food losses and food waste will also be included.

Sub-component	Indicator	Data source
Staple crop productivity	Average yields of cereals and pulses	FAO
	Yield gaps	IFPRI
Investments in agricultural research	Public expenditure on agricultural R&D	ASTI
Resource use efficiency in	Water productivity	Aquastat
agriculture	Energy use efficiency	
Food losses and waste	Food loss	FAO

Select candidate indicators for the Productivity and Resource Efficiency dimension

Environmental sustainability and climate resilience

The global food system must be environmentally sustainable and resilient, especially in the face of climate change, as the global agriculture sector is by far the main contributor of greenhouse gas emissions (GHGs) and to ongoing climate change. At the same time, agriculture is affected by climate change and adverse weather, water and soil conditions. Therefore, an environmentally sustainable food system must be climate smart. A climate-smart food system is one that integrates agricultural development and climate responsiveness, and aims to reduce/remove GHGs and build resilience. A climate-smart approach is essential, as significant crop yield impacts are already being felt at current levels of warming. As temperatures rise, climate change will add further pressure on agricultural systems across regions. For example, 2°C warming by 2050 is projected to reduce wheat yields by up to 50 percent in Tunisia, Brazil, and Central America and the Caribbean.

An environmentally sustainable food system must also minimize negative impacts on the environment and promote biodiversity, thus improving agro-ecological resilience. Land

degradation is a growing problem, as it reduces resilience, productivity, and the resources available to all species. Currently, 12 million hectares of productive land become barren every year due to desertification and drought, resulting in lost opportunities to produce up to 20 million tons of grain.

The World Bank's Climate Smart Agriculture (CSA) indicators will form the basis for the food systems index climate smart dimension. They revolve around adoption of CSA technologies and policies. An indicator on the agriculture sector's impact on biodiversity and land degradation will also be considered.

Sub-component	Indicator	Data source
Climate-smart	Policies and institutions	World Bank
agriculture	Technologies	World Bank
Agro-ecological	Land degradation/NDVI	Global Land Degradation
resilience		Information System (GLADIS)

Select candidate indicators for the Environmental Sustainability dimension

Social Sustainability

A desired food system must be socially sustainable for all actors along the value chain. For producers, the food system must be inclusive, particularly of smallholders, women and youth, as such groups will be critical in meeting emerging demand and providing safe, adequate, and nutritious foods for their households. Yet these groups face constrained access to assets and markets and are at risk of exclusion from increasingly complex food value chains. Supporting commercially viable smallholders and empowering women and youth are not only critical for food security and nutrition, they are also necessary to achieve several other SDGs, particularly those related to reducing inequalities.

Additionally, a food system can only be considered socially sustainable if it delivers adequate food that is physically and economically accessible to all at all times. When and where markets cannot deliver, government intervention should ensure that poor and vulnerable consumers are included in the food system, even in the face of unpredictable circumstances such as price or weather shocks. Food warehousing, for example, can help smooth such shocks by supporting vulnerable groups in times of need. A socially sustainable food system enhances the resilience of all actors to prevent, prepare for, cope with, and recover from shocks and not only bounce back to the level of efficiency before the shocks occurred, but become even better-off.

Potential indicators for a socially sustainable and inclusive food system include women's empowerment in relevant domains and intra-household gender parity. To measure inclusion of smallholders, women, and youth, an indicator on land tenure security and access to financial services for these groups will be considered. Considerations of physical and economic access will be made with particular attention to poor and vulnerable groups to measure the social sustainability of consumers.

Sub-component	Indicator	Data source
Women's empowerment	Social Institutions and Gender Index	OECD
	Global Gender Gap Index	WEF

Select candidate indicators for the Social Sustainability dimension

Access to food for vulnerable	Social assistance coverage	World Bank
groups	Social assistance coverage	

Limitations of existing indexes related to the food system

Many indexes and indicators exist that can assess certain aspects of a country's vulnerability of their food systems and their progress in achieving food security and nutrition. An overview of these and other indexes are found in the table below, which will be supplemented to include a mapping of existing indices against criteria such as validity and transparency of methods and data collection, relevance, frequency and continuity of data collection, and coverage. While these indexes are useful, they have their limitations. Firstly, new indexes often simply reorganize existing data. Although their designs and methods may be sound, little is gained if the quality, accuracy, and timeliness of the underlying data are poor. Generating new data or updating data more often could help improve the relevance and utility of all indexes.

Other problems relate to how indexes are constructed. Distortions can arise if an index integrates several indicators that are driven by the same underlying factors, such as income. For instance, low agricultural prices may strengthen consumers' food security but harm that of producers who are net-sellers. Additionally, many indexes are not holistic in their approach and instead tend to focus on particular aspects of the food system. While this may be a strength for monitoring certain issues in depth, our goal of establishing a global food system index or set of indexes requires a broad approach. However, it is essential that a holistic and broad approach not mask the intricacies of the food system. It is intended that by presenting the index in an innovative way, users can dynamically work with the index and its dimensions to help understand the complexities of the food system.

A way forward

Creating a global food system index could improve tracking and monitoring of countries' progress toward a desired food system. Given the cursory exploration of existing indices, such an index would add value to those interested in a holistic measure of the status and progress of a country's food system in an easy to understand fashion (see Figure, which depicts the status of the food systems of two hypothetical countries). No such index exists, and we can work toward filling this niche for tracking food systems, particularly against development goals such as the upcoming SDGs.

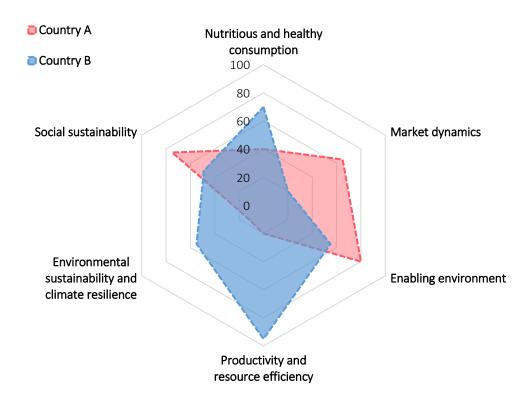


Figure: Example depiction of the GFSI for two hypothetical countries

There are possible approaches to construct the GFSI. While it is tempting to aggregate all six dimensions into a composite index that ranks national food systems, there is no clear methodological basis to do so. "Ranking" countries in one overall index is generally found adverse to initiating an open discussion on the various strengths and weaknesses of a country's food system, and frequently leads to a methodological discussion instead. At the same time, a composite score is preferred for attracting attention to the Index and to food systems assessment. It also helps countries in assessing the progress, or backsliding of their own food system over time. The GFSI user interface will provide an accessible snapshot of a country's food system in the form of a "dashboard" with scores on each dimension. It will also provide functionality to assign weights to each dimension, thus allowing users to construct their own composite index. Lastly, it will provide functionality to graph the development of food system scores per country over time, both on individual dimensions and on composite level. The GFSI team will experiment with a weighting system by itself, and publish a weighting system arriving at a composite score if and when it feels a well-dimensioned weighting system has emerged (to be advised by the GFSI expert panel).

Already, many existing indicators explicitly draw from each other by incorporating elements of indexes or entire indexes into their own index. Indicators that have already been used and validated by other organizations will be considered first to avoid duplication of effort. An exercise to further map potential indicators against existing indicators and indexes is being undertaken. The exercise will also help the global food system index position itself to fill gaps and complement other indexes that offer non-food system insights.

The selection of indicators will in large part depend on data availability and frequency and coverage of data collection. Indicator selection and data collection for the GFSI will be aligned with and learn from other initiatives, including the data gathering initiative for the SDGs. Ultimately, to improve measurement toward a desired global food system, efforts and resources should also be concentrated on supporting an index that integrates new and timely data for each of the six dimensions of the global food system. Ongoing efforts to develop statistical capacity and generate new data in developing countries will be leveraged.

Ultimately, to improve the measurement toward a desired food system, efforts and resources must also be concentrated on supporting an index that integrates new and timely data for each of the six dimensions of the food system. Ongoing efforts to develop statistical capacity and generate new data in developing countries should be leveraged.

Table: Selected indexes	s and indicators related	to the global food system
	Juna maicators related	to the global lood system

		xes and indicators related to the g	iopai i		1					
Index/Indicator	Org	Description		Countries covered		lap wi x com		bal Foo ts	od Sys	stem
			ors							
			# of indicators		Productive	Inclusive	Nutritious	Climate- smart	Sustainable	Business-
<u>The Global</u> <u>Food Security</u> <u>Index (GFSI)</u>	DuPont and EIU	Assesses country-level food insecurity according to affordability, availability, and quality	28	109	x		X		x	x
<u>Global Hunger</u> Index (GHI)	IFPRI	Measures and tracks hunger and nutrition insecurity globally, by region, and by country	3	120			x			
Rice Bowl Index	Syngenta	Detects country-level price shock vulnerabilty	33	14	x				x	x
The Nutrition Barometer	World Vision	Assesses govs political, legal, and financial commitments to ending undernutrition	13	36						
Hunger Reduction Commitment Index	IDS	Assess political commitments, transparancy, and accountability, and their links to hunger and undernutrition reduction	22	45		x	x			
Food Security Risk Index	Maplecroft	Assess risk from lack of access to basic staples	18							
Food Security Vulnerability Indices	IFPRI	Detects country-level price shock vulnerabilty					x			x
Women's Empowerment in Agriculture Index	IFPRI, UASID, OPHI	Track change in women's empowerment levels; performance monitoring and impact evaluations	6	13-19		x				
Climate Smart Agriculture (CSA) Indicators	World Bank	Assesses readiness mechanisms and helps countries mainstream climat smart agriculture in development	13	88				x		
Agricultural Science and Technology	IFPRI	Provides data and analysis on ag R&D systems		70	x	x				

to all and a se					1			1	
Indicators (ASTI)									
17311									
Access to	Access to	Assesses and ranks the world's	5	3					v
Nutrition Index	Nutrition	largest food and beverage	5	5					x
(ATNI)	Foundation	manufacturers on their							
<u></u>	(via GAIN)	nutrition-related							
	. ,	commitments, practices and							
		performance globally							
Bertelsmann	Bertelsmann	Measures quality of	49	129					
Stiftung	Stiftung	democracy, a market economy		125					
Transformation		and political management							
Index (BTI)									
Global Gender	WEF	Measures gender gaps across	14	142					
Gap Index		health, education, economy							
		and politics							
Gender		Measures gender inequalities	1			x	1	1	
Inequality		in reproductive health;							
Index		empowerment; and economic							
		status							
<u>Human</u>	UNDP	Measures average							
Development		achievement in key							
Index (HDI)		dimensions of human							
		development: a long and							
		healthy life, being knowledgeable and have a							
		decent standard of living.							
FAO Food	FAO	Aims to capture various					х		
Security Suite		aspects of food insecurity							
of Indicators		including availability, access,							
		stability, and utilization							
Agribusiness	World Bank	Aims to measure progress	44-	9 (80 planned)	x				x
indicators		toward productive, modern, and market-oriented farming	54	planned)					
		sectors							

				Countries	Overlap with Global Food System
Index/Indicator	Org	Description	#	covered	Index components

					Productive and resource efficient	Socially sustainable	Nutritious and healthy consumption	Environmentally sustainable	Market dynamics	Enabling environment
The Global Food Security Index (GFSI)	DuPont and EIU	Assesses country-level food insecurity by affordability, availability, and quality	28	109	x		x	x	x	x
<u>Global Hunger</u> Index (GHI)	IFPRI	Measures and tracks hunger and nutrition insecurity globally, by region, and by country	3	120			x			
Rice Bowl Index	Syngenta	Detects country-level price shock vulnerability	33	14	x			x	x	x
<u>The Nutrition</u> <u>Barometer</u>	World Vision	Assesses govs political, legal, and financial commitments to ending undernutrition	13	36			x			
<u>Hunger</u> <u>Reduction</u> <u>Commitment</u> <u>Index</u>	IDS	Assess political commitments, transparency, and accountability, and their links to hunger and undernutrition reduction	22	45		x	x			
Food Security	Maple-	Assess risk from lack of access to basic	18							
Risk Index Food Security Vulnerability Indices	croft IFPRI	staples Detects country-level price shock vulnerability					x		x	x
Women's Empowerment in Agriculture Index	IFPRI, UASID, OPHI	Track change in women's empowerment levels; performance monitoring and impact evaluations	6	13-19		х				
Climate Smart Agriculture (CSA) Indicators	World Bank	Assesses readiness mechanisms and helps countries mainstream climate smart agriculture in development	13	88				x		
Agricultural Science and Technology Indicators (ASTI)	IFPRI	Provides data and analysis on ag R&D systems		70	x	x				
Access to Nutrition Index (ATNI)	Access to Nutrition	Assesses world's largest food and bev manufacturers on nutrition-related commitments, practices and performance	5	3					x	x
Bertelsmann Stiftung Transformation Index (BTI)	Bertels- mann Stiftung	Measures quality of democracy, a market economy and political management	49	129						
Global Gender Gap Index	WEF	Measures gender gaps across health, education, economy and politics	14	142						
<u>Gender</u> Inequality Index	UNDP	Measures gender inequalities in reproductive health; empowerment; and economic status	7	187		x				
<u>Human</u> <u>Development</u> <u>Index (HDI)</u>	UNDP	Measures average achievement in key dimensions of human development: a long and healthy life, being	4	187						

	0	1		n	1	1			1	1
		knowledgeable and have a decent								
		standard of living.								
FAO Food		Aims to capture various aspects of								
Security Suite of Indicators	FAO	food insecurity including availability,	43	153			х			
		access, stability, and utilization								
<u>Agribusiness</u> indicators	World Bank	Aims to measure progress toward	44	9 (80 planned)						
		productive, modern, and market-	-		х				х	х
		oriented farming sectors	54							
	Addit	ional indexes, indicators, and tools for futu	ure rev	view and pos	sible in	clusior	ı			
Footprint for Nations	Global	Resource accounting tool that helps								
	Footprint	countries understand their ecological								
	Network	budget								
Earth Security Index	Earth	Connects to sustainability dimensions								
	Security	of food systems within overall								
	Group	development and change								
<u>Human Security</u> Index										
The Food Index	Oxfam	Country food outcomes according to access, availability, and utilization								
Environmental										
Performance	NASA	Trends for core set of environmental								
Index		outcomes linked to policy goals								
Global Compact 100 Index	UN Global Compact	Index of companies based on principles								
		of leadership commitment and								
		profitability								
Corruption	+									
Perceptions Index	Transpare	Measures how corrupt a country's								
	ncy Intl.	public sector is perceived to be								
Inclusive Wealth Index	Inclusive	Measures countries' wealth in terms of								
	Wealth	progress, well-being and long-term								
	Project	sustainability								
Better Life Index	OECD	Well-being across 11 indicators of								
		material living conditions and quality								
		of life								
		Assesses regulatory environment as	1							
Ease of Doing Business	World Bank	being conducive to the starting and								
		operation of a local firm								
Global Yield Gap										
and Water	Global	Measures yield and water productivity								
Productivity	Yield Gap	gaps								
Atlas	Atlas									
		Measures a country's overall								
<u>Knowledge</u> Economy Index	World	preparedness to compete in the								
	Bank	Knowledge Economy (KE)								
		KIOWIEUge LCONDINY (KL)	I		1	1	1	1		