



CEO Guide to Food System Transformation

CONTENT

A CALL TO ACTION FOR BUSINESS LEADERS	
THE CASE FOR FOOD SYSTEM TRANSFORMATION	8
SEVEN PATHWAYS WHERE BUSINESS CAN LEAD TO ACCELERATE TRANSFORMATION	14
OPPORTUNITY FOR BUSINESSES TO LEAD	16
ACTIONS FOR CEOs	26

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A CALL TO ACTION FOR BUSINESS LEADERS

Increasing urgency for food system transformation

Humanity's future depends on its ability to create a food system that supports healthy people and a healthy planet.

The need for urgent change is not always obvious. However, current food systems are **outstripping the planet's resources** while current diets are resulting in **global health crises** of both over- and undernutrition.

Continuing population growth and changes in dietary habits will amplify

Major scientific and economic reports (i.e., Intergovernmental Panel on Climate Change (IPCC), World Resources Institute (WRI), Intergovernmental Science-Policy Platform on Biodiversity and Ecosystem Services (IPBES), Food and Land Use Coalition (FOLU), EAT-Lancet), are all sounding a clear alarm on the urgent need to act today.

Public opinion and consumer demands are increasing pressure while innovation and technology are creating business opportunities.



these crises.



Pathways for food system transformation

The food system includes everything involved in feeding people and animals, from growing and harvesting to processing, trading, marketing, distribution, consumption and disposal. It is deeply connected with agriculture, land use and working forests for non-food purposes, such as timber and fiber, as competition increases for fertile land.

A healthy food system is one with inclusive outcomes for healthy people and a healthy planet, and of course healthy businesses.

The science is now clear

In this Guide we share the **seven** pathways identified across the value chain where business must lead action on critical issues in the food system. Executing on all pathways will drive system transformation and ensure the achieving of the Sustainable Development Goals (SDGs) and the Paris Climate Agreement.

Success will require an integrated approach to transformation

Pioneering businesses are already leading system changes across seven pathways, overcoming barriers (e.g., consumer and farmer disconnects, short-term economic pressures) and gaining **strategic advantage**.

This is not simply an individual business risk. For some farmers and businesses this will be very disruptive. But inaction will result in the food system risking its **collective license** to operate.

Achieving the Food & Nature Program's
Healthy People, Healthy Planet vision will require unprecedented global collaboration, which must urgently move several system transformation levers at the same time.

Actions must address climate resilience and mitigation, nature and biodiversity loss, livelihoods and human rights, along with nutrition and health while respecting local cultural identity. These actions need to be bold and will require strong business leadership.

Healthy People, Healthy Planet, Healthy Business



CEOs must lead change from within and together

- Understand your company's link to food system challenges and role in the seven transformational pathways
- 2. Set robust targets which reflect the true financial value of externalities and which are science-based
- 3. Develop and implement scalable solutions to achieve the targets

- Lead your industry to accelerate the adoption of solutions
- 5. Bring a leading voice to global events as a champion of food system transformation
- 6. Work with WBCSD's Food & Nature Program to deliver impact at scale

This CEO Guide outlines how to achieve shared goals for food system transformation



THE CASE FOR FOOD SYSTEM TRANSFORMATION

The world has been focused on driving productivity to meet the increasing food security needs of a growing world population...

9+ billion people can be fed with the amount of calories produced today¹ ... but environmental stress is increasing globally...



23% of global GHG emissions attributed to the food system²



75%
of land substantially degraded, with significant contribution from agriculture³

... hunger and poverty challenges are still prevalent...



of children under
5 affected by stunting
due to malnutrition
in 2018⁶



80% of extreme poor live in rural areas, depending primarily on agriculture⁷ ... the security of future supply is in question...



50% of food-insecure nations are experiencing lower crop production⁴



>75%
of food comes from
4 major crops, a major
concentration risk⁵

... and the food produced is contributing to a global health crisis....



2+ billion
people lack
micronutrients needed
for growth⁸



75% of people suffer poor health linked to being overweight⁹

The urgency for change is now clear and action is inevitable

In the next two years, organizations will hold a series of important global events where leaders will set a new direction for the food system at the intersection of the climate, nature and food agendas. Leading CEOs must call for a high level of ambition and action from fellow business leaders across the food, agriculture and forest sectors, pension funds and investors, as well as governments and cities.



Humanity must transform the food system by 2030 to achieve the SDGs and ensure it can support healthy people and a healthy planet

While there are many challenges in the complexity of food system transformation, there are also promising consumer trends that signal ways to accelerate efforts

Hygiene factor

Point of differentiation

Health & wellness

Demand for food that **preserves and strengthens well-being** (e.g., organic, better for you, nutraceuticals, personalized diets)

~7%

growth in global clean label ingredient market 2018-2310

~60%

of consumers try to avoid artificial ingredients¹¹

~2X

growth in healthy drinks (low sugar, no artificial ingredients) vs beverage market (2012-17)¹²

Sustainability

Concern about **impact of food consumed** driving markets such as alternative protein and ethical labels

4X

rate at which **sustainability-linked brands** are growing relative to others¹³

~10%

Compound annual growth rate (CAGR) of global market size of dairy alternatives (2018-23)14

Convenience

Desire for **food accessibility everywhere**, all the time, growing new markets and helping shift consumption

~26%

CAGR of global online grocery shopping (2019-24)¹⁵

~76%

fewer unhealthy snacks purchased when removed from checkout lines (UK)¹⁶ The food and agriculture sectors have underinvested in and underleveraged nature-based solutions, technology and innovation particularly in ways that are inclusive, climate smart and regenerative

Business is signaling the future of the food system but must accelerate the scaling of solutions

Businesses are already leading in technology and innovation



Using a fully automated drip irrigation system that delivers water directly to the root zone



Enabling a fossil-free food chain by piloting and launching the world's first mineral fertilizer made with renewable energy



Leveraging the IBM Food Trust blockchain initiative to improve food traceability across supply chains enabling consumers to directly support farmers



Piloting a blockchain wallet solution that provides farmers in East Africa with access to financing



Harnessing infrared-drying technology to rescue food waste and convert it into powders for beverages and snacks



Investing in new alternative protein innovation



Agri-input/upstream

e.g., agricultural drones, precision agriculture, farm analytics, input and feed innovation





Supply chain

e.g., traceability technology, process automation, digital marketplaces, capacity building





Downstream

e.g., personalized diets using health markers, lab-grown meats, food label and waste tracking



But activists and NGOs are creating pressure for which business must be prepared

NGOs are using drones to spot illegal deforestation and fishing activity in partnership with regulators, and are leveraging digital marketing to create demand for transparency and labeling accuracy (i.e., for meat and fish)

For business to thrive in the long term it must address its material impacts while delivering integrated solutions aligned with global agreements and frameworks

Goals are grounded in science and must deliver against the SDGs, Paris Agreement and developing biodiversity targets

Sustainable business value creation

- Drive profits, returns and investment case to be sustainable
- Include the externalities of natural, social and human capital in management accounts
- Include risks in enterprise risk management systems
- Ensure cost of capital reflects the sustainability performance of the business, in addition to financial returns

Livelihoods & human rights

- Double agricultural productivity and income of small-scale food producers 2.3
- Halve the proportion of people living in poverty in the food system 12
- Eradicate forced labor and modern slavery in agriculture 2.7





Nutrition & health Nature & Business biodiversity Climate resilience & greenhouse gas (GHG) mitigation Climate resilience & GHG mitigation Ensure sustainable food systems that maintain

- Ensure sustainable food systems that maintain ecosystems, are resilient to climate change, and improve land and soil quality
- Mitigate GHG emissions in agriculture and land use for a 1.5 °C pathway (Paris Agreement)

Nutrition & health

- Ensure access by all people to safe, sufficient and nutritious food year-round 21
- End all forms of malnutrition, including stunting 22
- Halve food loss and waste 123







Nature & ecosystems

- Halve the rate of loss of natural habitats, and significantly reduce land degradation (Aichi Biodiversity Target 5)
- Maintain genetic diversity of seeds, plants, and farmed animals 2.5
- Ensure sustainable food systems that maintain ecosystems, are resilient to climate change, and improve land and soil quality (2.4)
- Promote sustainable management of forests, halt deforestation, restore degraded forests and substantially increase reforestation

Nestlé believes that protecting and restoring biodiversity is essential to safeguard food production and food security now and for the future. Nestlé has for many years worked with farmers to manage their land sustainably and will continue to lead activities enhancing biodiversity.

Mark Schneider CEO, Nestlé S.A.



SEVEN PATHWAYS WHERE BUSINESS CAN LEAD TO ACCELERATE TRANSFORMATION

PRODUCTION	CONSUMPTION
Direct pathways	
1 Transform agricultu	re while restoring the environment 3 Shift diets to be healthy and sustainable
2	Enhance equitable distribution of value
4	Minimize food loss and waste
Enabling pathways	
5	Build end-to-end transparency
6	Accelerate policy and financial innovations
•	Launch new business models and value chain collaborations

ENABLING PATHWAYS

The business-led solutions in these pathways must deliver the goals for people, climate and nature. While there will be trade-offs to address, those companies that lead, managing through the disruption, will thrive.

Agriculture transformation

Adopt transformative inputs and farming techniques and optimize crop varieties/mix to local conditions in both agri- and aquaculture while restoring the environment

Equitable value distribution

Deploy contracting practices, educational approaches and new technologies to create equitable distribution of value for farmer livelihoods and rural communities

Dietary shifts

Support consumers to make healthy and sustainable dietary choices, while shaping demand through new product formulations and effective marketing

Food loss and waste

Minimize food loss and waste across the system by reducing supply chain inefficiencies, adopting the bioeconomy and increasing awareness of producers and consumers

Transparency

Build visibility and traceability across the value chain with new levels of data to assure sustainable sourcing, increased farmer income, decreased food fraud, reduced food loss and waste and greater consumer awareness

6 Policy and finance

Accelerate and strengthen policy and financial mechanisms to stimulate food system transformation, ranging from basic to cutting edge

7 New business models

Establish new business models that allow for better consideration of externalities to reflect true value and that create deeper collaboration with diverse stakeholders across sectors

OPPORTUNITY FOR BUSINESSES

TO LEAD

Businesses should lead the food system transformation. Companies in the food and agriculture sector must collectively ensure their license to operate

Food and land-use systems generate "hidden" environmental, health and poverty costs estimated at almost USD \$12 trillion a year. Executing these transformational pathways improves risk management. When successful, they will also deliver strategic business advantage and long-term value creation, rewarding companies through improved cost of capital and performance.



USD \$4.5 trillion per year by 2030¹⁷ in emerging opportunities

Delivering these transformation pathways could unlock USD \$4.5 trillion in new business opportunities each year by 2030. At the same time, this will save USD \$5.7 trillion a year in damage to people and the planet by 2030, more than 15 times the investment cost of up to USD \$350 billion a year.

Having transparency is fundamental. You need to bring multiple independent players to the table and align on what is best practice.

Ruth Kimmelshue Senior Vice-President, Business Operations and Supply Chain, Carqill Through our dialogue with retailers and consumers, we will seize the huge opportunity that modern feed diets have for healthy nutrition and a healthy planet.

Johann-Caspar Gammelin Chairman of the Board of Management, Evonik Nutrition & Care GmbH



1 Transform agriculture while restoring the environment

Adopt transformative inputs and farming practices and optimize crop varieties/mix to local conditions in both agri- and aquaculture while restoring the environment

Solution areas

- Develop transformative inputs for nutrition, nature and climate (seeds, feeds, fertilizers)
- · Deploy and scale solutions:
 - Circular nutrient management
 - Climate-smart agriculture
 - Regenerative practices and rebalancing seeds and crop diversity
 - Technology and finance innovation
- Rebalance production to optimize crop mix based on local conditions and nutritional value
- Generate value by investing in approaches that:
 - Deliver natural climate solutions
 - Improve biodiversity and create nature-based solutions
 - Maximize bioeconomy benefits

Digital platform for sustainable agriculture

Nutrien partnered with ADM and General Mills on a project in the wheat growing region of Kansas. Using Nutrien's digital platform for sustainable agriculture, farmers measured the effects of management practices on eight environmental indicators. In two years, the project grew to involve 91 farms producing almost 14 million bushels of wheat. Farmers in the project reduced fuel consumption by 140,390 gallons, increased yields by 10% and learned how their practices affected their greenhouse gas emissions, water quality and nitrogen use efficiency.



DSM is committed to working with partners and contributing to transforming our food systems by driving sustainable standards in food production and providing for accessible and affordable healthy diets for all.

Feike Sijbesma CEO and Chairman, DSM

Enhance **equitable distribution** of value

Deploy contracting practices, educational approaches and new technologies to create equitable distribution of value for farmer livelihoods and rural communities

Solution areas

- Introduce cost-effective technology for on-farm data management and to-farm traceability
- · Leverage and scale insurance and finance mechanisms
- · Build capacity with smallholders for the adoption of locally appropriate new practices and technologies
- · Create sustainable and longer term contracting practices to share value equitably through to farm
- · Assess and strengthen resilience in supply chain
 - Climate resilience
 - Gender equity
 - Hunger alleviation

Connecting smallholder farmers to markets

transparency. Olam's Digital income. In addition, Olam opened 80+ space. Benefits for Olam include more



For social and environmental stability, it is key that industry and governments empower smallholder farmers to increase the income generated by their farm through diversified farming.

Antoine de Saint-Affrique CEO, Barry Callebaut

3 Shift diets to be healthy and sustainable

Support consumers to make **healthy** and **sustainable dietary choices**, while **shaping demand** through new product formulations and effective marketing

Solution areas

- Shape demand through product formulations and distribution
 - Affordability and accessibility
 - Locally relevant, highly nutritious and diverse ingredients
- Support consumers and adjust portfolio mix to enable dietary choices that are:
 - Healthy (e.g., low sugar/salt, more micronutrients)
 - Sustainable (e.g., sustainably reared livestock)
 - Diversified (e.g., nuts, fruits, legumes)
- Optimize protein mix balanced with sustainably grown plant and animal proteins

Fortified rice helps people reach their full potential

Globally, 2 billion people lack sufficient vitamins and minerals in their diets, leading to higher risks of stunting, anemia and other diseases. Vegetables, fruits and nuts high in these essential nutrients are often not accessible or affordable, especially in developing countries. Fortifying rice with vital micronutrients is an effective, affordable and scalable solution and a great way to reach people at scale. In Bangladesh, an estimated 60 million people are undernourished. By working with governments, the United Nations World Food Program and worker nutrition programs, **DSM** is able to reach 2 million Bangladeshis with



Consumer trends are evolving very fast now and young consumers are demanding radical transparency.

Kees Aarts CEO and Founder, Protix Minimize food loss and waste

Minimize food loss and waste across the system by reducing supply chain inefficiencies, adopting a circular bioeconomy and increasing producer and consumer awareness

Solution areas

- · Set goals, measure and use technology across the supply chain to reduce food loss and waste
 - Including end-of-life product management practices
- Improve storage and supply chain infrastructure (especially cold chain) and reduce supply chain inefficiencies
 - Including circular bioeconomy practices
- · Improve date labeling and portion size data, driving consistency and clarity for consumer behavior change

Reducing food loss and waste in the milk supply chain

Value Calculator. Nestlé was able



Food loss and waste is one lever with the best opportunity to set quantifiable targets and tangible actions.

Wiebe Draijer

Chairman of the Executive Board. Rabobank

5 Build end-to-end transparency

Build visibility and traceability across the value chain with new levels of data to assure sustainable sourcing, increased farmer income, decreased food fraud, reduced food loss and waste and greater consumer awareness

Solution areas

- Develop technology-enabled end-to-end traceability to track comprehensive and consistent data across the supply chain
- Test and scale distributed ledger technology that shares, aggregates and analyzes data to strengthen value chain linkages
- Create cost-efficient food testing and monitoring solutions
 - Improve food safety
 - Reduce food loss and waste

Supply chain transparency: from cocoa farm to customer

Cargill uses sustainability data management to improve traceability in the cocoa supply chain. The approach uses software to collect and manage data about individual farms and farmers, household members. communities, cooperatives and social infrastructure. It links up information across different initiatives – such as the Child Labor. Monitoring & Remediation System. This data allows Carqill to continue to design and refine its sustainability programs and helps customers choose sustainable products with confidence, enabling the third-party certified sustainable sourcing of 48% of Cargill's cocoa volume globally.



With today's technologies and practices, highly productive farms can coexist with a thriving natural environment. Together, we can make this happen.

J. Erik Fyrwald CEO, Syngenta AG 6 Accelerate **policy and financial** innovations

Accelerate and strengthen policy and financial mechanisms to stimulate food system transformation, ranging from basic to cutting edge

Solution areas

- · Leverage the momentum of global events with specific policy asks to accelerate action from:
 - Basic expectations, such as land rights,
 - New policy frameworks
 - Coherence across agency agendas
- · Create and scale financial instruments to manage risks, improve flows and link cost of capital to improved outcomes
- · Develop financing approaches for smallholder adoption; de-risk the changes

Sustainability-linked finance

COFCO International, a global agribusiness, has partnered with a consortium of 21 banks to create a USD \$2.3 billion sustainabilitylinked loan as the company's core financing facility. Under the terms of this loan, COFCO will pay a lower interest rate if it achieves a year-onvear improvement in environmental, social and corporate governance (ESG) performance, and increases the traceability of agricultural commodities, with a focus on directly sourced soy in Brazil.



Resetting from within the business community is often most powerful. If we have 50 fast-track leaders from 200 WBCSD members. and they all agree, then we will see change.

Jeremy Oppenheim Founder and Managing Partner, **SYSTEMIQ**

1 Launch new business models and value chain collaborations

Establish new business models that allow for better consideration of externalities to reflect true value and that create deeper collaboration with diverse stakeholders across sectors

Solution areas

- Reshape business, portfolio and value chain for resilience and advantaged performance
- Launch cross-value-chain collaborations with innovative economics to de-risk innovations, scale solutions faster, and reach the last mile (both farmer and consumer)
- Include externalities in financial performance assessment to reflect true value
- Use the circular bioeconomy to alleviate resource supply risks, shift from fossil-fuel and non-renewable resources to sustainable, renewable biomass, repurpose agricultural waste and recycle nutrients

Made in Farm

Bayer's Made in Farm online platform connects smallholder farmers directly with consumers or traders. The platform helps farmers and buyers meet, negotiate and close deals online, while also displaying offers from farmers who are encouraged to add information regarding production, such as location and post-harvesting treatments. To date, the platform has seen more than €10 million in transactions and connected



Nutrien is committed to sustainable agriculture. Getting it right is both an environmental necessity and a business opportunity that benefits us all.

Chuck Magro CEO & President, Nutrien It is possible to have both economic viability and sustainability; but to accomplish this, incentives need to be set and we need to work together across the value chain.

Amy SenterChief Sustainability Officer,
Kellogg Company

Long-standing narratives need to be rethought. We need to innovate for new economic models that embed true cost accounting in businesses.

Ruth Richardson
Executive Director, Global Alliance
for the Future of Food

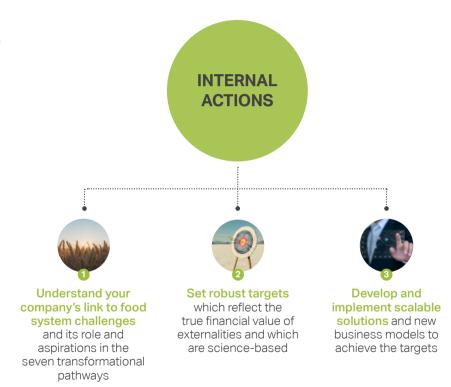


ACTIONS FOR CEOS

Leaders will recognize which of the pathways are material to their business strategy.

Transforming any business will require several strategic shifts.

- Set ambitious corporate goals that aim to deliver on global frameworks
- · Transform supply chains
- Set business metrics incorporating externalities in assessing performance
- Engage and incentivize employees across R&D and commercial teams t o build solutions
- Ensure business strategy delivers collective license to operate
- Work across value chains to achieve breakthrough solutions
- Shape consumer preferences and lifestyles
- Engage communities in solutions that address poverty and build both capacity and resilience



ACTIONS FOR CEOS

Leadership beyond your own business is increasingly important.

Champions are needed to help other businesses, as well as governments, raise ambitions and take action.

- Work across value chains to achieve breakthrough solutions
- Advocate for policy and economic enablers
- Lend your voice at global conferences to build momentum
- Set and align standards on traceability, data collection and governance
- Actively contribute to accelerating work to transform food systems and create metrics to value externalities
- Rally your peers to develop and implement solutions to achieve these transformation pathways



JOIN THE TRANSFORMATION

The WBCSD Food & Nature Program develops solutions to address key challenges and accelerate food system transformation.

How WBCSD can support you

Join our <u>Food & Nature Program</u> and work with over 70 other forward-thinking businesses from across the value chain.

Together we are developing ambitious, science-based solutions that support business action at scale, across the seven transformation pathways.







Peter Bakker President & CEO



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ENDNOTES

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Acknowledgments: To develop the Food System Transformation Strategy the team, led by Bain, interviewed more than 50 CEO's and business leaders from WBCSD members. Bain client companies, and strategic partner organizations. We completed extensive analysis, including through recent scientific and economic reports, business case studies, market tipping point assessments, as well as academic, financial, media and NGO data reviews to develop a comprehensive fact base.

A Strategic Advisory Council, including WBCSD Chair Sunny Varghese, Food & Nature Board Chair Svein-Tore Holsether, Peter Bakker, and Jeremy Oppenheim of SYSTEMIQ, provided oversight for strategy development. The Food & Nature Board held two review meetings, with additional valuable input coming from Leadership Group members beyond those discussions. We also integrated the more social aspects of this work through input from key partners, including the World Economic Forum, David Nabarro of 4SD, FOLU, GAIN, SUN and others. We highly value all of these insights and contributions. We summarize the Food System Transformation strategy in this CEO Guide.

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