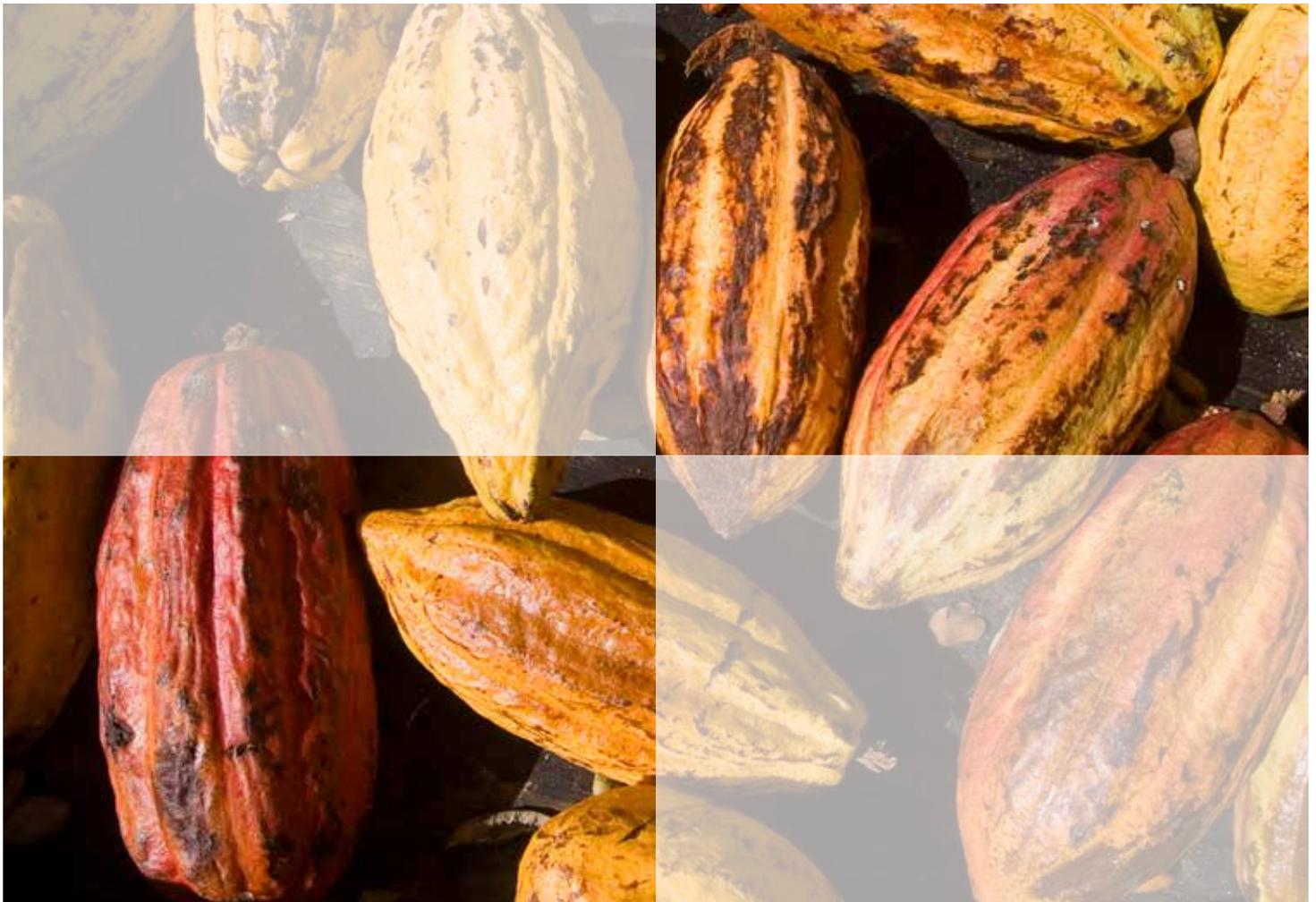


World Economic Forum Annual Meeting 2017

System Initiative on Shaping the Future of Food Security and Agriculture Summary Report

Davos-Klosters, Switzerland 17-20 January

March 2017





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Overview

Global food systems should be productive, sustainable, efficient and nutritious; however, the current reality remains far from that goal. Nearly 800 million people are undernourished while 1.2 billion are overweight or obese. At the same time, food production, transportation, processing and waste are putting an unsustainable strain on environmental resources.

The future of food systems is highly uncertain. New trends in the geopolitical environment are reshaping governance, trade and cooperation. Over 65 million people globally have been displaced by conflict, climate change or other events, intensifying food insecurity among these populations. Emerging technologies will bring opportunities along with new challenges related to social and economic inclusion and governance. Addressing these challenges and uncertainties require leadership, coordination and collaborative action.

At the World Economic Forum Annual Meeting 2017 in Davos-Klosters, Switzerland, a series of high-level discussions addressed the global food systems and action-oriented partnerships that can collectively create impact to achieve the UN Sustainable Development Goals (SDGs). A broad array of sessions were also hosted by or linked to the Forum's System Initiative on Shaping the Future of Food Security and Agriculture, which engages over 600 organizations to translate global-level commitment on food security and agriculture into action on the ground. The mission of this initiative is to build inclusive, sustainable, efficient and nutritious food systems through leadership-driven, market-based action and collaboration, informed by insights and innovation, in alignment with the SDGs.

Four core aspirations for the world's food system



The System Initiative is built around the New Vision for Agriculture (NVA), which aims to advance food security, environmental sustainability and economic opportunity through a market-based and multistakeholder approach. The NVA has catalysed and continues to support partnerships in 21 countries across Africa, Asia and Latin America. Together, these efforts have mobilized \$10.5 billion in investment commitments, of which \$2.5 billion has been implemented, reaching over 10.5 million smallholder farmers.

Key Messages

The following key messages emerged from the Annual Meeting 2017 with regard to food security and agriculture:

- Global food systems are unfit for purpose and require a fundamental transformation to meet future global needs.
- The Stewardship Board for the System Initiative on Shaping the Future of Food Security and Agriculture identified priority actions to drive greater inclusivity, sustainability, efficiency, nutrition and health. They include the need to: align government efforts across sectors for a comprehensive food-focused approach; redesign public policy and investment to incentivize sustainable and nutritious food production; advance sustainable business solutions that promote healthy and sustainable food systems; encourage healthier consumer demand shifts through new narratives; increase opportunities for women and youth in agriculture; and embrace a diversity of approaches.
- Leaders renewed their commitment to deepening impact from path-breaking multistakeholder partnerships in agriculture, supported by the NVA, including Grow Africa and Grow Asia and partnerships in India and Latin America; in Davos, Colombia and Cambodia formalized their commitment globally to join this network of multistakeholder partnerships.
- A new initiative was launched during the NVA meeting called mFarmer, an open-sourced digital platform for smallholder farmers, developed by Unilever, Facebook, Grow Asia and the Government of Indonesia to be piloted in 2017.
- Leaders assessed partnership approaches in five major global initiatives (New Vision for Agriculture, 2030 Water Resources Group, Tropical Forest Alliance 2020, Internet for All, Scaling Up Nutrition Movement) and agreed to build on their approaches to strengthen country-driven, cross-sector action to achieve the SDGs.

Stewardship Board Meeting: Food Systems for the Future

The Stewardship Board for the System Initiative on Shaping the Future of Food Security and Agriculture works to strengthen food systems, linking global-level insight and collaboration to country-led action. The board – made up of chief executives, ministers, heads of international organizations, experts and farmers – lends their leadership to food systems priorities and action both within and beyond the World Economic Forum.

The Board convened for its second annual meeting in Davos in a session entitled “Food Systems for the Future”, designed to improve insight and provoke action to strengthen food systems and informed by a [scenarios analysis](#) conducted by the Forum and its Partners. Board members:

- Agreed that food systems are currently unfit for purpose and that a fundamental transformation is needed to feed the global population nutritiously and sustainably.
- Recognized the progress achieved to date through innovative partnerships and approaches, while emphasizing the need for greater speed and scale to meet the food system’s pressing challenges.
- Noted the significant business opportunities possible when developing SDG solutions, which is, according to the Business & Sustainable Development Commission BSDC, valued at \$2.3 trillion dollars.
- Explored potential futures and their implications for the world’s food systems.

"Food gets to the heart of humanity and touches on all SDGs. But we need fresh thinking to drive our efforts to the next level. We need systems change."

Paul Polman, Chief Executive Officer, Unilever, United Kingdom



01: Paul Polman, Chief Executive Officer, Unilever, United Kingdom

02: Adu Ogbah, Minister of Agriculture of Nigeria

03: Stewardship Board Meeting for the System Initiative on Shaping the Future of Food Security and Agriculture: Food Systems for the Future

04: Paul Bulcke, Member of the Board of Directors, Chairman-Designate, Nestlé, Switzerland



Stewardship Board members also identified several opportunities for food systems redesign. They include the need to:

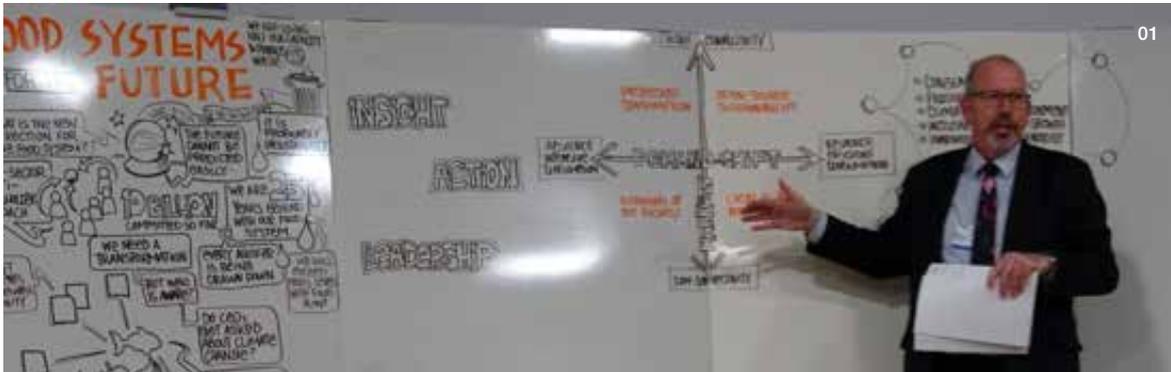
- Align government efforts across health, agriculture, education and finance ministries for a comprehensive food-focused approach.
- Redesign public policy and investment to incentivize sustainable and nutritious food production, including through adjusting subsidies and reflecting externalities in the true cost of food.
- Advance sustainable business solutions that can promote healthy and sustainable food systems and promote an environment of open dialogue, trust and transparency among various actors.
- Create an appealing new narrative around healthy and sustainable food consumption to encourage consumer demand shifts.

- Increase the opportunities for women and youth in the agriculture sector.
- Embrace a diversity of approaches, recognizing that there is no one-size-fits-all approach to food systems.

Board members confirmed their commitment to continued leadership and emphasized the importance of building trust and transparency through dialogue. They also stressed the need to continue supporting and scaling the impact of existing initiatives, including the NVA, Grow Africa, Grow Asia and others.

"Digital technology will deliver the green revolution in Africa."

Ishmael Sunga, Chief Executive Officer, Southern African Confederation of Agricultural Unions (SACAU), South Africa



01: Tim Benton, Dean for Strategic Research, University of Leeds, United Kingdom

02: Stewardship Board Meeting for the System Initiative on Shaping the Future of Food Security and Agriculture: Food Systems for the Future

03: Stewardship Board Meeting for the System Initiative on Shaping the Future of Food Security and Agriculture: Food Systems for the Future



New Vision for Agriculture: Building and Strengthening Multistakeholder Partnerships

The World Economic Forum's New Vision for Agriculture (NVA) initiative works to advance food security, environmental sustainability and economic opportunity globally, and supports leaders in 21 countries across Asia, Africa and Latin America to develop multistakeholder partnerships embedded in market-led activity. Together, these innovative partnerships have mobilized over \$10.5 billion in investment commitments, of which \$2.5 billion has been realized, catalysing over 90 value-chain initiatives and benefiting over 10 million farmers. Colombia and Cambodia are the most recent countries to formalize their commitment to join this network of multistakeholder partnerships.

In Davos, over 70 leaders convened to review progress of the NVA initiative in which nearly 600 organizations are engaging to drive market-led multistakeholder action on the ground. Participants included heads of state and ministers of agriculture, finance, trade and commerce, as well as top executives from global and regional companies, heads of international and civil society organizations, and representatives from farmer and academic/research organizations. The NVA review offered in-depth discussions to define scaling strategies for mature partnerships such as Grow Africa and Grow Asia, and to mobilize leadership support for new opportunities in India and Latin America.

Grow Africa

Grow Africa has helped realize \$2.3 billion in private sector investments in agriculture to date, out of a total of \$10 billion committed, benefiting over 10 million smallholder farmers. Leaders agreed to align efforts of key regional institutions and partnerships, and to intensify country efforts in Nigeria and Rwanda.

"Grow Africa represents alignment from African institutions and the World Economic Forum to advance intentional and constructive action to achieve a common vision for African Agriculture."

Ibrahim Assane Mayaki, Chief Executive Officer, NEPAD Planning and Coordinating Agency, South Africa

"The NVA supports 21 countries in Africa, Asia and Latin America through market-led, multistakeholder models. The NVA approach can support a transformation of food systems to provide nutritious food produced in a sustainable way."

Weibe Draijer, Chairman of the Executive Board, Rabobank Group, Netherlands



01: Wiebe Draijer, Chairman of the Executive Board, Rabobank Group, Netherlands

02: Akinwumi Ayodeji Adesina, President, African Development Bank (AfDB), Abidjan



"It has been a long journey and today's progress shows what commitment from aligned collaboration can achieve – but we have a lot left to accomplish to take these innovative examples to scale."

Akinwumi Ayodeji Adesina, President, African Development (AfDB), Abidjan

India

In India, the NVA has helped catalyse partnerships at the state level, starting with Maharashtra and then in Andhra Pradesh and Karnataka. N. Chandrababu Naidu, Chief Minister of Andhra Pradesh, India, outlined his efforts to empower farmers through access to technology and real-time price and weather information. Leaders discussed how to scale this approach, leveraging national institutions, including NITI Ayog, as well as technology and innovation more broadly.

Latin America

In Latin America, the NVA supports partnerships in Mexico and recently launched in Nicaragua. Leaders discussed opportunities in Colombia, where the government has committed to join the NVA as a key step towards post-conflict development and as part of the country's strategy for improving rural livelihoods. They noted the tremendous potential for public-private collaboration to help realize Latin America's potential as a breadbasket for the world.

"Cambodia's vision is to reach beyond self-sufficiency to surplus, benefitting our farmers first. Through sustainable intensification, new technologies and good agricultural practices we can accelerate the impact for our farmers and citizens livelihoods. The Grow Asia partnership is working to support our vision."

Samdech Techo Hun Sen, Prime Minister of the Kingdom of Cambodia

Leaders also reflected on key action recommendations from the breakout discussions for each region and shared a way forward from a global perspective. Lillianne Ploumen, Minister for Foreign Trade and Development Cooperation of the Netherlands, noted that combining aid and trade is a particularly important strategy to enable progress on food security and agricultural development. Smallholder farmers must be empowered by market opportunities not only locally, but also internationally. This requires land titles, access to education and training, and the necessary enabling environment. Ertharin Cousin, Executive Director, United Nations World Food Programme (WFP), Rome, commended the alignment and momentum among leaders involved in this initiative, and recognized that agriculture is driven by the private sector in partnership with all stakeholders. She emphasized the importance of empowering farmers with access to technology, finance and information, as well as the importance of communicating in a compelling manner to mobilize support.

"The historic moment of Colombia signing the peace agreement opens opportunities for collaboration in Colombia. We welcome the NVA to help mobilize investment for increasing productivity and growth."

Felipe Jaramillo, President, ProColombia, Colombia



01



02

01: Samdech Techo Hun Sen, Prime Minister of Cambodia
02: Felipe Jaramillo, President, ProColombia, Colombia



01



02



03

01: Left to Right: Weibe Draijer, Chairman of the Executive Board, Rabobank Group, Netherlands; Scott Brison, President of the Treasury Board of Canada; Lillianne Ploumen, Minister for Foreign Trade and Development Cooperation, Netherlands; Gerda Verburg United Nations Assistant Secretary-General; Coordinator, Scaling Up Nutrition (SUN) Movement, Geneva

02: Amanda Sourry, President of Global Foods, Unilever, United Kingdom

03: N. Chandrababu Naidu, Chief Minister, Government of Andhra Pradesh, India



04

04: Grow Africa champions convene at the New Vision for Agriculture: Building and Strengthening Multistakeholder Partnerships Session

05: Grow Asia champions convene at the New Vision for Agriculture: Building and Strengthening Multistakeholder Partnerships Session



05

Country-Led Action to Achieve the Sustainable Development Goals

In 2015, 193 member states of the United Nations adopted a bold new agenda to improve the lives of billions of people. With 17 goals at its core, the Sustainable Development Goals (SDGs) are closely interrelated and include commitments to end hunger and poverty, improve health and well-being as well as ensure environmental sustainability. The SDGs call for a new level of coordination among countries, sectors and stakeholder groups, including developing the right institutions, new collaboration models, innovative business strategies and proactive policies, to drive action and transformation on the ground. Much of this action will be driven at the country level, and it will require support from a broad array of stakeholders as well as the international community.

The World Economic Forum and its partners have catalysed or supported a number of multistakeholder initiatives that work to translate global goals into country-led action. These include the New Vision for Agriculture initiative (NVA), 2030 Water Resources Group (2030WRG), Tropical Forest Alliance 2020 (TFA2020), Internet for All initiative and Scaling Up Nutrition Movement (SUN) (See Box 1). In Davos, participants convened to learn from these initiatives in order to collectively mobilize solutions in support of country leaders' national plans and visions to achieve the SDGs.

"We need a change in mindset. The SDGs cannot be business as usual."

Gerda Verburg, United Nations Assistant Secretary-General; Coordinator, Scaling Up Nutrition (SUN) Movement, United Nations, Geneva



01: Special Adviser on the 2030 Agenda for Sustainable Development and Climate Change, United Nations, New York

"We are learning to be system leaders and thinking very hard about operating with multiple interests to deliver massive impact."

David Nabarro, Special Adviser on the 2030 Agenda for Sustainable Development and Climate Change, United Nations, New York

Session moderator David Nabarro, Special Adviser on the 2030 Agenda for Sustainable Development and Climate Change, United Nations, New York, highlighted that while the goals of these five initiatives are sector-specific, they follow the same broad principles for country-led action emphasized in the NVA partnership model, which are detailed in the graphic below.



Guiding Principles of the NVA Country Partnership Model



Locally-owned
and aligned with
country goals



Multistakeholder
with open and
inclusive engagements
from the beginning



Market-driven
led by the private
sector and rooted
in viable business
cases



Globally supported
by an international
network providing
solidarity and support



Holistic
taking a systemic
approach to benefit all
actors in the sector



01



02



01: Alexander De Croo, Deputy Prime Minister and Minister of Development Cooperation, the Digital Agenda, Telecommunications and Postal Services of Belgium

02: Patricia Espinosa Cantellano, Executive Secretary, United Nations Framework Convention on Climate Change (UNFCCC), Bonn

"To make our business sustainable and profitable in the long term, we must look at system leadership, taking into account the entire value chain."

Svein Tore Holsether, President and Chief Executive Officer, Yara International, Norway

Alexander de Croo, Deputy Prime Minister and Minister of Development Cooperation, the Digital Agenda, Telecommunications and Postal Services of Belgium, emphasized the importance of partnerships and highlighted the SDG Charter created in Belgium where 80 organizations from the private, public and civil society have committed to support the SDGs. Highlighting the role of women and children, Anne-Birgitte Albrechtsen, Chief Executive Officer, Plan International, United Kingdom, referred to Equal Measure 2030, an initiative that will track a set of official indicators related to women across all SDGs.

Breakout discussions focused on seven cross-sectoral thematic issues that are crucial for the success of the SDGs at the country-level.

1. Setting the agenda at the country level

Nomvula Paula Mokonyane, Minister of Water and Sanitation of South Africa, highlighted the South African Strategic Partnership Network, supported by 2030WRG, which has developed an integrated approach to developing solutions on water issues. Key learnings from the discussion emphasized the need for government support at the highest level, strategic future-focused framework differentiated at the local level, use of best practices, avoiding fragmented implementation of policy, financing, legal frameworks and systematic (non-fragmented) implementation.

2. Supporting ambitious government commitments through partnerships

Led by Nazir Foead, Head, Peatland Restoration Agency, Indonesia, discussion focused on the agency's task to prevent forest fires and restore peatlands in the country, with support from the TFA2020. The agency is trying to ensure that this ambitious government agenda is supported by the private and social sectors and fosters economic development. Discussion emphasized the importance of defining success so that progress can be effectively measured. Participants also looked at best practices in the design and management of multistakeholder partnerships, including the need for balancing the interest of the group versus individual partners and the necessity of building strong relationships within partner organizations to ensure continuity through changes in senior leadership.

3. Partnering to develop sustainable business models

Discussion focused on the 2030WRG-supported partnership in Bangladesh that is working to increase private sector investment in water-saving and wastewater treatment technology and practices. Key learnings from the discussion emphasized the need to establish a business case for the issue at hand, identify champions than have them speak to the issue, ensure voices of the poor are heard and are part of the solution, use a data-driven approach, create a joint vision and ensure sustainability through any transition of government.



01



02

01: Peter Brabeck-Letmathe, Chairman, Nestlé

02: Left to Right: Mats Granryd, Director-General, GSMA; N. Chandrababu Naidu, Chief Minister, Government of Andhra Pradesh, India; Jean Philibert Nsengimana, Minister of Youth and Information Communication Technology of Rwanda; Ishmael Sunga, Chief Executive Officer, Southern African Confederation of Agricultural Unions (SACAU), South Africa

4. Mobilizing financing

Discussion highlighted the Grow Africa partnership – co-founded by the Forum's NVA initiative – that has mobilized more than \$10 billion in investment commitments to support African agriculture priorities. Sharing key learnings from the discussion, Nena Stoilkjovic, Vice-President, Blended Finance and Partnerships, International Finance Corporation, Washington DC, highlighted that funding is not necessarily the problem, but what is needed are commercially viable country-specific projects. There is also a need to scale up blended finance projects in the food value chain and find structures that can include different partners, which take into account their desired duration of involvement.

5. Strengthening policy frameworks

Nguyen Xuan Cuong, Minister of Agriculture and Rural Development of Viet Nam, highlighted his country's policy framework, which is trying to achieve the SDGs through increased productivity, environmental protection in the rural sector and job creation. Key learnings from the discussion highlighted the need for an open policy platform that emphasizes alignment across policies, and that is country-owned and multistakeholder, long-term focused, science and evidence based, feasible, incentivizes climate smart technology and is aligned with the SDGs.

6. Leaving no one behind

Jean Philbert Nsengimana, Minister of Youth and Information Communication Technology of Rwanda, noted that the Internet for All's Northern Corridor initiative is creating digital empowerment for women and youth to enable access, skills and awareness, while N. Chandrababu Naidu, Chief Minister of Andhra Pradesh, India, highlighted the need to connect high-speed fibres to every home in the Indian state. To scale such efforts, governments need to: connect, educate, promote and demonstrate, have the right regulations, protect consumers, innovate, leverage investments, mitigate risks, cooperate and coordinate, and have an exit and transition strategy.

7. Advancing mutual accountability

As a country that has signed up to the SUN Movement, Saira Afzal Tarar, Minister of State for National Health Services, Regulations and Coordination of Pakistan, highlighted the annual joint assessments supported by the SUN network to strengthen mutual accountability among stakeholders. Discussion highlighted the need for a bottom-up approach that is community-driven and community-owned, with accountability at the national level. Different stakeholders need to be included to co-design and set a strong agenda. Monitoring and collection of data to track progress is important, and availability and quality of data is critically important.

Overall, leaders emphasized country-level implementation with policies that are tailored, aligned and inclusive, and that there are mechanisms in place to protect implementation against a change in government. There is a strong business case to implement sustainable approaches and there is tremendous potential in value creation in business and

society through the embedding of SDGs. To build the case for new policies geared towards the SDGs, a strong fact and evidence base is needed to engage country leadership at the highest level of government. Developed countries have the ability to support developing countries, not only financially as donors but also through sharing of knowledge and best practices. Nabarro emphasized the need for systems thinking and systems action, sharing lessons learned, stretching to go beyond comfort zones, and the ability to blend systems thinking within existing structures.



"I am hopefully optimistic because of what we are discussing here. Multistakeholder partnerships need to represent interests of all and we need alignment across the broader SDG agenda. We can't cherry pick and build a sustainable business model in one group without considering the broader picture."

Winnie Byanyima, Executive Director, Oxfam International, United Kingdom



01: Saira Afzal Tarar, Minister of State for National Health Services, Regulations and Coordination of Pakistan

02: Winnie Byanyima, Executive Director, Oxfam International

Box 1: Examples of multistakeholder initiatives supporting country-led action



New Vision for Agriculture (NVA). Established in 2009, the NVA is a global platform to strengthen food security, environmental sustainability and economic opportunity through a market-based and multistakeholder approach in agriculture. The initiative has mobilized country-led action in 21 countries in Asia, Africa and Latin America. It established the Transformation Leaders Network linking 150 action leaders and experts to exchange best practice on partnerships. www.weforum.org/agriculture



2030 Water Resources Group (2030WRG). The 2030WRG is a unique public-private-civil society collaboration that drives action on water resource reform in water-stressed developing countries. At the invitation of governments, it establishes national multistakeholder platforms, including the private sector and civil society, which can collectively address the water challenges in their respective countries. At present, the 2030WRG engages in 13 countries/states and has in total more than 500 partners. www.2030wrg.org



Tropical Forest Alliance 2020 (TFA 2020). TFA 2020 is a global public-private partnership to reduce the tropical deforestation associated with commodities such as palm oil, soy, beef, and paper and pulp. In West and Central Africa, TFA 2020 has fostered the signing of the Marrakech Declaration for the Sustainable Development of the Oil Palm Sector in Africa – a pledge to place sustainability at the heart of the expanding palm oil industry by 7 countries covering 13% of the world's tropical forests. www.tfa2020.org



Internet for All. This initiative aims to connect tens of millions of new users to the internet around the world. It establishes enduring digital and physical platforms at the country level to facilitate multistakeholder collaboration on internet inclusion. Working with 50 partner organizations, the initiative accelerates innovation, coordinates investment, strengthens policy environments and aligns development programming. Country programme have been launched in East Africa's Northern Corridor (Kenya, Uganda, Rwanda, South Sudan) and in Argentina. A programme in South Asia will be launched in 2017. <https://www.weforum.org/projects/internet-for-all>



SUN Movement. This initiative has inspired a new way of working collaboratively to end malnutrition, in all its forms since 2010. With the governments of 58 SUN countries in the lead, it unites people – from civil society, the UN, donors, businesses and researchers – in a collective effort to improve nutrition. <http://scalingupnutrition.org>



Bio-Innovation in Agriculture and Food: Co-Shaping a Vision around Society's Needs

Introduction

At the World Economic Forum Annual Meeting 2016, the Consumer Governors called on the Forum to explore hosting dialogues around biotechnology in food and agriculture. In response, the Forum conducted nearly 50 interviews in an extensive consultation to understand current thinking and priorities on this polarized topic. The stakeholder interviews surfaced important learnings from the past decades and confirmed cross-stakeholder support to start a new dialogue rooted in transparency and inclusive of all stakeholder groups. Stakeholders also agreed that today's fast-changing evolution of the bio-innovation space calls for a broader scoping, beyond transgenic GMO technology or applications in seeds. There was also agreement that technology-driven innovation must serve societal goals reflected by SDGs and the Paris climate change agreement: the pressing human and ecological challenges posed by climate change, resource scarcity and nutrition insecurity provide new opportunities for cross-stakeholder alignment around the role of bio-innovation.

Annual Meeting 2017 outcomes

At the Annual Meeting 2017, Governors from the Consumer Industries and Chemicals and Advanced Materials Industry, heads of civil society organizations, farmers, scientists and technology disruptors convened for a session on "Bio-Innovation in Agriculture and Food: Co-Shaping a Vision Around Society's Needs". A diverse group of experts – including an Indian farmer leader, biotech start-up founder, gene-editing scientist and bioethics professor – exposed participants to latest trends and unique insights into the world of bio-innovation.

Participants identified critical questions to shape future dialogues and maintain the focus on addressing society's needs around climate change, biodiversity, resource scarcity and nutrition.

- How can an ideologically driven debate be shifted to a more pragmatic discussion around trade-offs? How can the benefit of eradicating a plant disease through biotechnology be weighed against the risks of using other interventions in highly complex biological and environmental ecosystems?
- What funding and incentive models would accelerate the development and adoption of bio-innovation solutions with positive ecological, nutritional and social benefits? What narratives can inspire youth to apply their innovative potential towards this end?
- Who can play the role of trusted, good faith brokers to engage the public and the consumer in a more constructive conversation?
- In a context of declining technology costs, how can the opportunities of technology democratization be harnessed while managing its risks?

01: Jennifer Morgan, Executive Director, Greenpeace International, Netherlands

02: Left to Right: Doug McMillon, President and Chief Executive Officer, Wal-Mart, USA; Ishmael Sunga, Chief Executive Officer, Southern African Confederation of Agricultural Unions

(SACAU), South Africa; Gonzalo Ramirez Martiarena, Chief Executive Officer, Louis Dreyfus Company, Switzerland





01: J. Erik Fyrwald, Chief Executive Officer, Syngenta International, USA

02: Denise Morrison, President and Chief Executive Officer, Campbell Soup Company, USA

03: Wolfgang Jamann, Secretary-General and Chief Executive Officer, Care International, Switzerland

04: Ajay Vir Jakhar, Chairman, Bharat Krishak Samaj (Farmers' Forum India), India and Ricken Patel, Executive Director, Avaaz.org, USA

Looking ahead

Participants gave the Forum a unanimous mandate to advance this dialogue and explore these questions in the coming year. The Forum will therefore build on the momentum of this first session to host a series of roundtables and workshops in 2017. These discussions will engage additional stakeholders to explore the core questions identified to date, forming the basis of the journey towards a new approach to bio-innovation.

Food Security and Agriculture in the Official Programme of the Annual Meeting 2017

Envisioning a food secure future

How will the planet feed a world of 8.5 billion people nutritiously and sustainably? And, in the context of a volatile and uncertain future, what forces of change might enable or threaten this goal? These questions prompted the World Economic Forum, in collaboration with over 150 experts and regional practitioners, to undertake a scenarios mapping of the future of food systems. These insights formed the foundation of a unique interactive session, “Envisioning a Food Secure Future”, designed to provoke new insights and inspire action to shape global food systems.

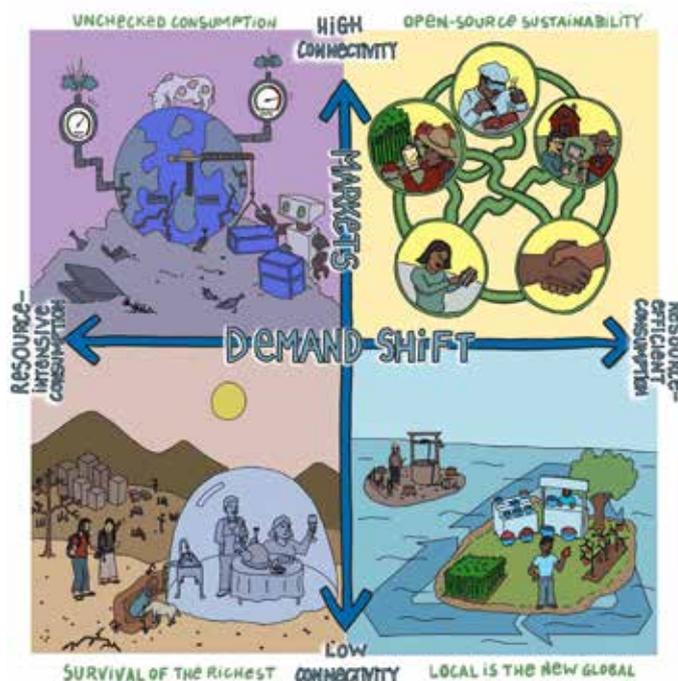
The session explored four possible futures – Survival of the Richest, Unchecked Consumption, Open-Source Sustainability and Local is the New Global – which examined the implications of these scenarios for industry, government and society. Discussion focused on topical linkages, including trade, technology, inclusive growth, sustainable landscapes and nutrition and health.

Participants called for: aligning agriculture and health policies more fully; shifting focus from food quantity to nutritional quality in production incentives and priorities; deepening discussion and collaboration to harness data and R&D towards social and environmental goals; building externalities such as water into the true cost of food; taking a more holistic approach to land use and rural economic development; and increasing transparency in food systems.



01: Svein Tore Holsether, President and Chief Executive Officer, Yara International, Norway

Scenarios for the Future of Food Systems



Fertile ground for sustainable growth

Feeding a growing population while global temperatures rise will require profound adjustments across agriculture and forest supply chains. A panel discussion entitled “Fertile Ground for Sustainable Growth” explored which solutions hold the greatest potential to scale sustainable land use while supporting inclusive rural development. Dimensions addressed included investing third-party funds in scalable projects, moving entire jurisdictions to deforestation-free production and setting ambitious green-growth plans.

Conversation focused on an increased momentum towards a holistic approach to sustainable landscapes. This recognizes that in the next 30 years, 50% more production will be needed from the same land base, while reversing the massive erosion of the capacity of land to provide critical ecosystem services. In recent years, remote sensing, data analytics and pervasive geospatial data have given unprecedented access to the state rural landscapes to everyone with an internet connection. At the same time, hundreds of companies across agriculture and food supply chains have committed to sustainable and deforestation-free commodities. And rural jurisdictions – from nations to states and provinces – are launching ambitious green growth plans.

The World Economic Forum and its partners are considering collaboration mechanisms for sustainable landscapes that could promote “produce and protect” strategies and pursue innovative approaches to landscape governance, with a focus on jurisdiction-level leaders.



01

Advancing healthy food systems

Despite significant progress, the world is still struggling with the triple burden of malnutrition: hunger, hidden hunger (micronutrient deficiencies) and obesity. Studies show that investing in nutrition can increase a country's GDP by 2-3% per year, while obesity alone is associated with economic cost of \$2 trillion. The session on "Advancing Healthy Food Systems" focused on identifying opportunities to address health and nutrition in the food value chain and to increase alignment and collaboration between the health, food and agriculture stakeholders. With poor diet the number one cause of the global burden of chronic disease, and one-third of people malnourished around the world, there is an urgent need to break down this divide.

Discussion focused on the role of agricultural subsidies that need to be redirected to support farmers to produce nutritious foods. At the same time, global players in the consumer food industry sit at the nexus between farmer and consumer and, thus, are well positioned to influence the food chain and choice of products. Food production companies will be challenged to become more innovative about their product lines and entrepreneurs can be encouraged to think creatively around reducing food waste.

One of the most challenging aspects of improving nutrition is changing people's behaviour to make healthier food choices. One approach is to improve nutrition literacy, especially through education at school. The challenge is to create an environment where healthy choices are easy, and where the "fresh plate" is normalized. Limiting advertising of unhealthy foods to children, clear labelling on products and transparent food supply chains can be created either with a more government-regulated or industry-regulated environment.



02

01: David W. MacLennan, Chairman and Chief Executive Officer, Cargill, USA

02: Gerda Verburg, United Nations Assistant Secretary-General; Coordinator, Scaling Up Nutrition (SUN) Movement, United Nations, Geneva

03: Allison Aubrey, Correspondent, National Public Radio, USA; Corinna Hawkes, Professor of Food Policy; Director, Centre for Food Policy, City University

London, United Kingdom; David W. MacLennan, Chairman and Chief Executive Officer, Cargill, USA; Paul Bulcke, Member of the Board of Directors,

Chairman-designate Nestlé, Switzerland; Gerda Verburg, United Nations Assistant Secretary-General; Coordinator, Scaling Up Nutrition (SUN)

Movement, United Nations, Geneva



03

Related Sessions at the Annual Meeting 2017

The World Economic Forum Annual Meeting 2017 featured an unprecedented number of sessions related to food security, nutrition and agriculture, reflecting the central role these issues play in meeting the UN SDGs

Agriculture and food security are understood to be key aspects in several interrelated SDGs, and stakeholders are seeking models and examples of how to deliver on global commitments. While the System Initiative has broadened the discussion to global food systems, interlinkages and nexus points with other topics, industries and constituent groups have become more apparent as urgent areas for coordinated attention and action. Key synergies include environment and resource scarcity, health and nutrition and technological innovation.

Session highlights in the public programme included:

- **Food Crisis: The Big Picture.** Constituents embarked on a visual exploration revealing the causes and consequences of food insecurity now and through time. Combining NASA time-lapse satellite imagery, geo-spatial data and predictive modelling, the session revealed insights into the drivers of food crises from water waste to nutritional deficiencies.
- **Healthy Eating: From Personal Responsibility to Politics.** Developed in partnership with the New England Journal of Medicine and nutritionist and best-selling author, Marion Nestle, this session explored how our understanding of and relationship with food, diet and health has changed over our lifetimes.
- **Healthy People, Healthy Planet.** Food consumption – whether too much or too little – and the effects of current agricultural practices on climate change remain a significant global problem, impacting the health of populations and the planet. Constituents shared ideas on how individuals, organizations and society can pursue healthy, sustainable diets in the long-term.
- **From Farm to Plate.** Which solutions hold the greatest potential to reduce food loss and food waste from farm to plate and beyond? This session examined opportunities to reduce and reuse waste throughout the food production value chain including: agricultural production, alternatives to traditional food production, transport and infrastructure, the bio-cycle economy and organic waste recovery.
- **Shaping a Sustainable World.** How do we decrease risk and promote resilience in food systems and supply chains by actively addressing source locations for food ingredients or commodities? Leading researchers from

McGill University provided new insights on building resilient cities by restoring connectivity in urban ecosystems, utilizing precision tracking of agricultural trade to render food systems more sustainable, and identifying successful socio-ecological initiatives that could produce a better Anthropocene.

- **Tipping Point: Synthetic Food.** Imagine in 2025 that 10% of the world's protein needs can be met sustainably through bio-printing meat products. This session explored bio-printing and plant-based meat alternatives as substitutes for the killing of animals for meat and the impact this may have on the agricultural economy and greenhouse gas emissions reductions.
- **The State of the Genomic Revolution.** Genetics holds the promise of revolutionizing medicine, agriculture and energy. The body of biological knowledge is increasing exponentially and the speed of translation into clinic practice is increasing. Genome editing and CRISPR (clustered regularly interspaced short palindromic repeats) are promising gateways to improvements in multiple domains from cancer treatment to agriculture. This session explored radical changes in genomics over the past decade and CRISPR applications and their implications.
- **Tipping Point: Genetic Engineering.** Imagine in 2025 that 95% of genetic diseases can be eliminated in humans by editing the genome of human embryos, and thousands of laboratories around the world have the ability to enhance the favourable characteristics of plants and animals at extremely low cost. Constituents discussed how business, government and civil society prepare should prepare for such a future.



01: Al Gore, former Vice-President of the United States, poses a question during the session entitled "Food Crisis: The Big Picture"

Looking to 2017 and Beyond

To shape and strengthen global food systems, the Stewardship Board on Food Security and Agriculture will focus their leadership on key opportunities for systems-level change. The Partners Group on Food Security and Agriculture will share messaging and develop tools to pursue inclusive, sustainable, efficient, nutritious and healthy food systems. And the NVA Transformation Leaders Network will deepen its global community for innovation and best practice exchange.

The New Vision for Agriculture will continue to support regional and national partnership platforms, including Grow Africa and Grow Asia, as well as in India and Latin America, through leadership facilitation and best practice and innovation exchange. Specific regional priorities include:

- Grow Africa and Grow Asia will continue to intensify and deepen impact in existing market-based and country-led partnerships through engagement of new partners, support for innovation and best practice exchange, and measuring and sharing impact.
- NVA India will strengthen and scale up the ongoing partnerships in the states of Andhra Pradesh, Karnataka and Maharashtra, and work with stakeholders to develop a national level partnership platform to support activities in India.
- In Latin America, the NVA team will build on the experience of the Mexico VIDA and support new partnerships in Colombia and Nicaragua.

In collaboration with its partners, the Forum will explore additional opportunities in the coming year, including in the area of innovation

For more information on the World Economic Forum's work on food security and agriculture, visit www.weforum.org/agriculture, or contact agriculture@weforum.org.

Media Coverage and Publications



Shaping the Future of Global Food Systems: A Scenarios Analysis

How will food systems nutritiously and sustainably feed 8.5 billion people in 2030? This report, co-published by the World Economic Forum and Deloitte, presents four scenarios for the future of global food systems. These possible futures of global food systems uncover blind spots and broaden perspectives about alternative future environments in which today's decisions might play out.



Advancing Country-Led Action to Achieve the Sustainable Development Goals

This brief outlines the NVA Country Partnership Model, a practical framework for mobilizing multistakeholder collaboration in support of national goals as well as other initiatives that the World Economic Forum has catalysed or supported in order to mobilize systemic change to achieve the SDGs.

Blogs



Can Connectivity Feed the World?

Co-authored by Lillianne Ploumen, Minister for Foreign Trade and Development Cooperation of the Netherlands; Peter Schwartz, Senior Vice-President for Strategic Planning at Salesforce and author of "The Art of the Long View"; and Lorin Fries, Head of Food Systems Collaboration at the World Economic Forum



These 5 innovations will transform the lives of smallholder farmers

Authored by Ishmael Sunga, Chief Executive Officer at Southern African Confederation of Agricultural Unions (SACAU)



To achieve the SDGs, the world must work together

Authored by Paul Bulcke, Member of the Board of Directors and Chairman-designate at Nestlé



Why does the World Economic Forum work with USAID and other government agencies?

Authored by Lisa Dreier, Head of Agriculture and Food Security, Member of the Executive Committee at the World Economic Forum



Our food system needs an overhaul. Let's start now

Authored by Amanda Sourry, President of Global Foods at Unilever



We can eradicate hunger by 2030

Authored by Ertharin Cousin, Executive Director at the UN World Food Programme

For all food security and agriculture-related posts on the Forum Blog, visit <https://www.weforum.org/system-initiatives/food-security-and-agriculture>

For photographs from the Annual Meeting 2017, visit <https://www.flickr.com/photos/worldeconomicforum>

List of Participants

The New Vision for Agriculture: Building and Strengthening Multistakeholder Partnerships

Pranav Adani	Managing Director, Agro and Oil and Gas	Adani Group	India
Akinwumi Ayodeji Adesina	President	African Development Bank (AfDB)	Abidjan
Kevin Chika Urama	Senior Adviser to the President	African Development Bank (AfDB)	Abidjan
Khadim Darei	Vice-Chairman and Managing Director	Al Dahra Holding	United Arab Emirates
Sean De Cleene	Chief Strategy and Partnerships Officer	Alliance for a Green Revolution in Africa (AGRA)	Kenya
Ricardo Tadeu	Zone President, Africa	Anheuser-Busch InBev	South Africa
Tony Milikin	Chief Procurement Officer	Anheuser-Busch InBev	Belgium
Saul Zang	Director	Banco Hipotecario	Argentina
Martin Bruder Müller	Vice-Chairman of the Board of Executive Directors; Chief Technology Officer	BASF	Germany
Liam Condon	Member of the Board of Management	Bayer CropScience	Ireland
Ajay Vir Jakhari	Chairman	Bharat Krishak Samaj (Farmers' Forum India)	India
Rodger Voorhies	Managing Director, Global Development	Bill & Melinda Gates Foundation	USA
Pierre Mauger	Chief Development Officer	Bunge	USA
Wolfgang Jamann	Secretary-General and Chief Executive Officer	Care International	Germany
Devry Boughner Vorwerk	Corporate Vice-President	Cargill	USA
Ruth Kimmelshue	Corporate Senior Vice-President, Business Operations and Supply Chain	Cargill	USA
Ramon Lopez	Secretary of Trade and Industry of the Philippines		
James Collins	Executive Vice-President	DuPont	USA

Krysta Harden	Vice-President, Policy, Government Affairs; Chief Sustainability Officer	DuPont	USA
Birju Pradipkumar Patel	Deputy Chief Executive Officer	Export Trading Group (ETG)	South Africa
Michael B. Jenkins	President and Chief Executive Officer	Forest Trends	USA
Vaibhav Lodha	Co-Founder	ftcash	India
David Hertz	Founder and Managing Director	Gastromotiva	Brazil
Claudio Rodríguez Huaco	Corporate Director	Gloria	Peru
N. Chandrababu Naidu	Chief Minister, Government of Andhra Pradesh, India		
William Asiko	Executive Director	Grow Africa	South Africa
Grahame Dixie	Executive Director	Grow Asia	Singapore
Laurence Debroux	Member of the Executive Board and Chief Financial Officer	HEINEKEN	Netherlands
Peter Ryan	Chief Sales Officer, Enterprise Group	Hewlett Packard Enterprise	Switzerland
Joost Oorthuizen	Executive Director	IDH - The Sustainable Trade Initiative	Netherlands
Thomas Trikasih Lembong	Chairman	Indonesia Investment Coordinating Board (BKPM)	Indonesia
James Scriven	Chief Executive Officer	Inter-American Investment Corporation (IIC)	USA
Nena Stoiljkovic	Vice-President, Blended Finance and Partnerships	International Finance Corporation (IFC)	Washington DC
Keisuke Nishimura	Representative Director of the Board and Vice-President	Kirin Holdings Company Limited	Japan
Elena Bennett	Associate Professor, Department of Natural Resource Sciences	McGill University	Canada
Neal Keny-Guyer	Chief Executive Officer	Mercy Corps	USA
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Pham Thi Hong Hanh	Head, Global Integration and Foreign Investment Division, International Cooperation Department, Ministry of Agriculture and Rural Development of Viet Nam		
Tran Kim Long	Director General, International Cooperation Department, Ministry of Agriculture and Rural Development of Viet Nam		
Pan Sorasak	Minister of Commerce of Cambodia		

Apiradi Tantraporn	Minister of Commerce of Thailand	Gastromotiva	Brazil
Claver Gatete	Minister of Finance and Economic Planning of Rwanda	Gloria	Peru
Lilianne Ploumen	Minister of Foreign Trade and Development Cooperation of the Netherlands		
Shay Eliaz	Principal	Monitor Deloitte	USA
Brett D. Begemann	President and Chief Operating Officer	Monsanto Company	USA
Amitabh Kant	Chief Executive Officer	National Institution for Transforming India (NITI) Aayog	India
Ibrahim Assane Mayaki	Chief Executive Officer	NEPAD Planning and Coordinating Agency	South Africa
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Samdech Techo Hun Sen	Prime Minister of Cambodia		
Peter A. Ruzicka	President and Chief Executive Officer	Orkla	Norway
Winnie Byanyima	Executive Director	Oxfam International	United Kingdom
Grace Puma	Senior Vice-President and Chief Supply Officer	PepsiCo	USA
Felipe Jaramillo	President	ProColombia	Colombia
Axton Salim	Director and Member of the Board	PT Indofood Sukses Makmur Tbk	Indonesia
Jan Nieuwenhuizen	Member of the Executive Board	Rabobank Group	Netherlands
Wiebe Draijer	Chairman of the Executive Board	Rabobank Group	Netherlands
Mauricio Muller Adade	President, Latin America	Royal DSM	Brazil
Ishmael Sunga	Chief Executive Officer	Southern African Confederation of Agricultural Unions (SACAU)	Zimbabwe
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J. Erik Fyrwald	Chief Executive Officer	Syngenta International	USA
William Warshauer	President and Chief Executive Officer	TechnoServe	USA
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Joe Harlan	Vice-Chairman and Chief Commercial Officer	The Dow Chemical Company	USA
Mohammad Jaafar	Chairman and Chief Executive Officer	The Kuwaiti Danish Dairy Company	Kuwait
Clare Matterson	Senior Adviser	The Wellcome Trust	Norway
Nicholas Moakes	Managing Partner, Investments	The Wellcome Trust	United Kingdom
Juergen Voegelé	Senior Director, Agriculture	The World Bank	Washington DC
Peter H. Staude	Chief Executive Officer	Tongaat Hulett	South Africa

Joy Basu	Chief of Staff	TPG Growth	USA
Scott Brison	President of the Treasury Board of Canada		
Amanda Sourry	President, Foods	Unilever	United Kingdom
Gerda Verburg	United Nations Assistant Secretary-General; Coordinator, Scaling Up Nutrition (SUN) Movement, Geneva		
Ertharin Cousin	United Nations World Food Programme (WFP), Rome		
Carlos Pellicer	Chief Executive Officer	UPL do Brasil	Brazil
Jai Shroff	Global Chief Executive Officer	UPL	India
Jeremy Goon	Chief Sustainability Officer	Wilmar International	Singapore
Pua Seck-Guan	Chief Operating Officer and Executive Director	Wilmar International	Singapore
Sarita Nayyar	Managing Director, World Economic Forum, New York		
Marco Lambertini	Director-General	WWF International	Gland
Arne Cartridge	Special Adviser, Strategy and Business Development	Yara International	Norway
Svein Tore Holsether	President and Chief Executive Officer	Yara International	Norway

Stewardship Board Meeting for Food Security and Agriculture: Food Systems for the Future

Agnes Matilda Kalibata	President	Alliance for a Green Revolution in Africa (AGRA)	Rwanda
Roberto Jaguaribe	President	Apex-Brasil (Brazilian Trade and Investment Promotion Agency)	Brazil
Liam Condon	Member of the Board of Management	Bayer CropScience	Ireland
David W. MacLennan	Chairman and Chief Executive Officer	Cargill	USA
James Collins	Executive Vice-President	DuPont	USA
Audu Ogbeh	Minister of Agriculture of Nigeria		
Shenggen Fan	Director-General	International Food Policy Research Institute (IFPRI)	People's Republic of China
Inger Andersen	Director-General	International Union for Conservation of Nature (IUCN)	Gland
Gonzalo Ramirez Martiarena	Chief Executive Officer	Louis Dreyfus Company Suisse	Argentina
Neal Keny-Guyer	Chief Executive Officer	Mercy Corps	USA
Shay Eliaz	Principal	Monitor Deloitte	USA

Amitabh Kant	Chief Executive Officer	National Institution for Transforming India (NITI) Aayog	India
Paul Bulcke	Member of the Board of Directors, Chairman-Designate	Nestlé	Switzerland
Mehmood Khan	Vice-Chairman; Chief Scientific Officer, Global Research and Development	PepsiCo	USA
Andrey A. Guryev	Chief Executive Officer	PJSC PhosAgro	Russian Federation
Wiebe Draijer	Chairman of the Executive Board	Rabobank Group	Netherlands
Dimitri De Vreeze	Member of the Managing Board	Royal DSM	Netherlands
Ishmael Sunga	Chief Executive Officer	Southern African Confederation of Agricultural Unions (SACAU)	Zimbabwe
Zia Khan	Vice-President, Initiatives and Strategy	The Rockefeller Foundation	Canada
Juergen Voegelé	Senior Director, Agriculture	The World Bank	Washington DC
Paul Polman	Chief Executive Officer	Unilever	Netherlands
Gerda Verburg	United Nations Assistant Secretary-General; Coordinator, Scaling Up Nutrition (SUN) Movement, Geneva		
Tim Benton	Dean for Strategic Research	University of Leeds	United Kingdom
Jai Shroff	Chief Executive Officer	UPL	United Kingdom
Svein Tore Holsether	President and Chief Executive Officer	Yara International	Norway

Country-Led Action to Achieve the Sustainable Development Goals

Agnes Matilda Kalibata	President	Alliance for a Green Revolution in Africa (AGRA)	Rwanda
Sean De Cleene	Chief Strategy and Partnerships Officer	Alliance for a Green Revolution in Africa (AGRA)	Kenya
Liam Condon	Member of the Board of Management	Bayer CropScience	Ireland
Ajay Vir Jakhar	Chairman	Bharat Krishak Samaj (Farmers' Forum India)	India
Wolfgang Jamann	Secretary-General and Chief Executive Officer	Care International	Germany
Gemma Mortensen	Chief Global Officer	Change.org	United Kingdom
Tae Yoo	Senior Vice-President	Cisco	USA
Giulia Di Tommaso	Senior Advisor, United Nations Food and Agriculture Organization (FAO), Rome		
Usha Rao-Monari	Chief Executive Officer	Global Water Development Partners	India

N. Chandrababu Naidu	Chief Minister, Government of Andhra Pradesh, India		
William Asiko	Executive Director	Grow Africa	South Africa
Grahame Dixie	Executive Director	Grow Asia	Singapore
Mats Granryd	Director-General	GSMA	Sweden
Joost Oorthuizen	Executive Director	IDH - The Sustainable Trade Initiative	Netherlands
Anders Berntell	Executive Director, 2030 Water Resources Group	International Finance Corporation (IFC)	Washington DC
Nena Stoiljkovic	Vice-President, Blended Finance and Partnerships	International Finance Corporation (IFC)	Washington DC
Shenggen Fan	Director-General	International Food Policy Research Institute (IFPRI)	People's Republic of China
Inger Andersen	Director-General	International Union for Conservation of Nature (IUCN)	Gland
Shinichi Kitaoka	President	Japan International Cooperation Agency (JICA)	Japan
Catherine McMahon	Senior Director of New Initiatives and Food Security	Mercy Corps	USA
Nguyen Xuan Cuong	Minister of Agriculture and Rural Development of Viet Nam		
Alexander De Croo	Deputy Prime Minister and Minister of Development Cooperation, the Digital Agenda, Telecommunications and Postal Services of Belgium		
Saira Afzal Tarar	Minister of State for National Health Services, Regulations and Coordination of Pakistan		
Nomvula Paula Mokonyane	Minister of Water and Sanitation of South Africa		
Jean Philbert Nsengimana	Minister of Youth and Information Communication Technology of Rwanda		
Shay Eliaz	Principal	Monitor Deloitte	USA
Hugh Grant	Chairman and Chief Executive Officer	Monsanto Company	United Kingdom
Peter Brabeck-Letmathe	Chairman	Nestlé	Austria
Winnie Byanyima	Executive Director	Oxfam International	United Kingdom
Nazir Foad	Head	Peatland Restoration Agency	Indonesia
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Scott Brison	President, Treasury Board of Canada		
Tisha Ashton	Director of Policy, Treasury Board of Canada		
Amanda Sourry	President, Foods	Unilever	United Kingdom
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Gerda Verburg	United Nations Assistant Secretary-General; Coordinator, Scaling Up Nutrition (SUN) Movement, Geneva		
Roman Zivy	Executive Secretary, United Nations Economic Commission for Latin America and the Caribbean (ECLAC), Santiago		
Patricia Espinosa Cantellano	Executive Secretary, United Nations Framework Convention on Climate Change (UNFCCC), Bonn		
Michael Moller	Director-General, United Nations Geneva (UNOG)		
Tim Benton	Dean for Strategic Research	University of Leeds	United Kingdom
Jai Shroff	Chief Executive Officer	UPL India	India
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Marco Lambertini	Director-General	WWF International	Gland
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