



Ocean Programme at Davos

World Economic Forum Annual Meeting 2019

**Globalization 4.0: Shaping a Global Architecture
in the Age of the Fourth Industrial Revolution**

Davos-Klosters, Switzerland

Tuesday 22 – Friday 25 January

The Ocean Programme in Davos

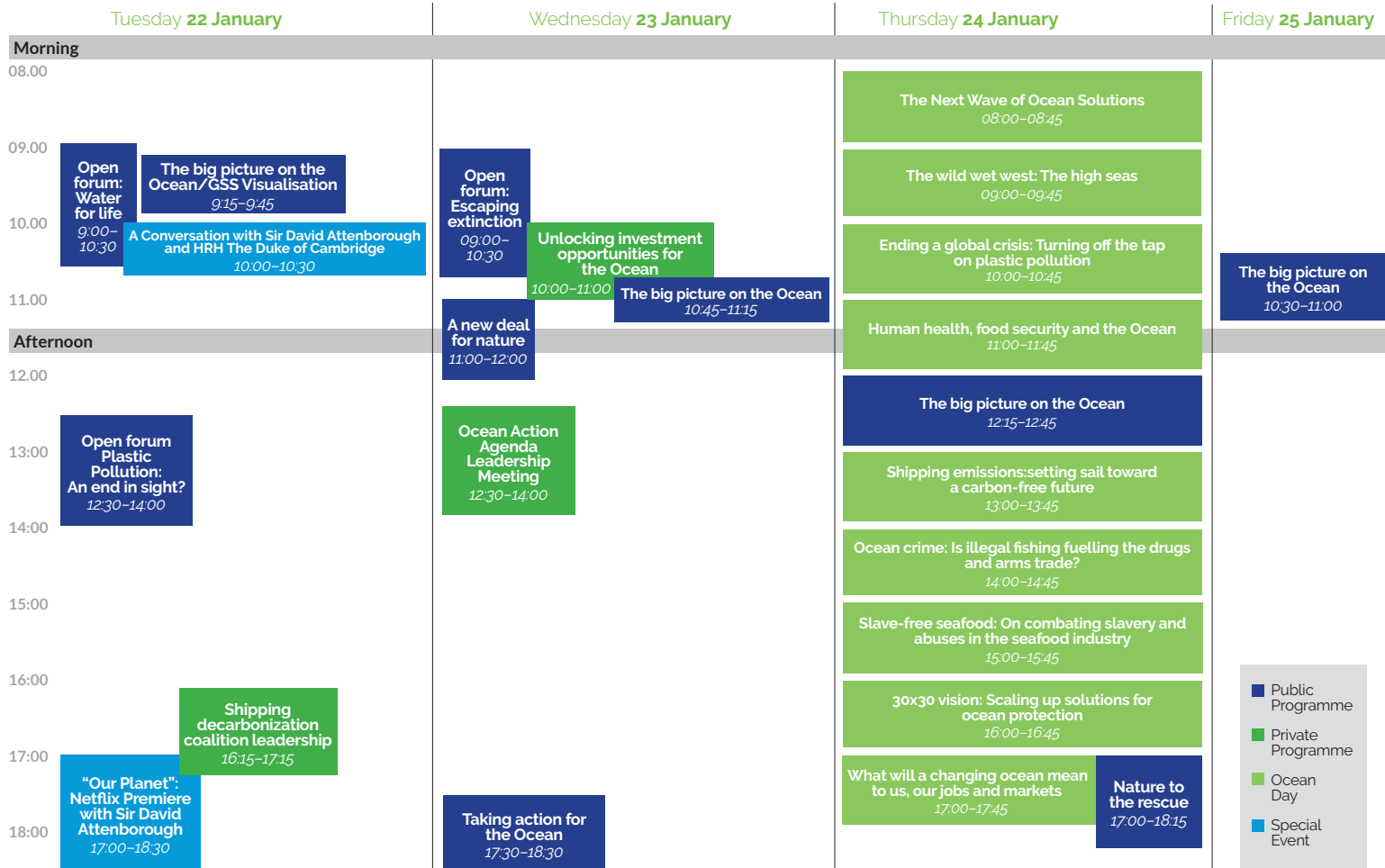
Latest Programme as of January 2019

Aim

The Ocean Programme aims to connect and energize entrepreneurs, innovators and scientists doing critical work on the Ocean with world leaders who have the financial and political clout to fast-track ideas for a healthy Ocean into high-impact, large-scale solutions.

It seeks to disrupt incremental "business-as-usual" progress by creating change through a series of events that will look at issues facing the Ocean, and opportunities, across sectors, silos and supply chains to build the integrated innovations that will drive the Ocean back on a path to recovery.

Ocean Programme at a Glance



- Public Programme
- Private Programme
- Ocean Day
- Special Event

DAY ONE: TUESDAY 22 January

09:15 - 09:45

Further sessions
running each day:

23/01/19 10:45-11:15

24/01/19 12:15-12:45

25/01/19 10:30-11:00

The big picture on the Ocean Congress Centre – Global Situation Space

From massive islands of plastic debris to plummeting levels of marine biodiversity, explore the causes and consequences of Ocean health decline now and through time.

The Global Situation Space combines NASA time-lapse satellite imagery and geospatial and econometric data with predictive modelling to provide the big picture on important issues.

These sessions will visualize issues relating to illegal, unreported and unregulated (IUU) fishing, seabed mining and Ocean health.

Located on Level -1 of the Congress Centre.

Please arrive early, as seating is limited in the Global Situation Space.

Speakers | **Heather Koldewey**, Fellow, National Geographic Society | **Jim Leape**, William and Eva Price Senior Fellow, Woods Institute; Co-Director, Center for Ocean Solutions, Stanford University | **Gabriel O'Donnell**, Principal Research Programmer, CMU CREATE Lab, Carnegie Mellon University | **Douglas McCauley**, Professor, University of California, Santa Barbara

DAY ONE: TUESDAY 22 January

09:00 - 10:30

Water for life Open forum **Swiss Alpine High School – Auditorium** See www.weforum.org/open-forum

The World Economic Forum's Global Risks Report 2018 identified water crises as one of the most pressing global risks. Join extreme swimmer Ernst Bromeis to learn about his journey across the waters of Europe and what it takes to protect our planet's most important resource.

Simultaneous interpretation in English and German. This session will be livestreamed on TopLink and the Forum website.

Speakers | **Ernst Bromeis**, Water Ambassador, The Blue Miracle

Moderated by: **Susan Goldberg**, Editorial Director, National Geographic Partners

12:30 - 14:00

Plastic Pollution: An end in sight? Open forum **Swiss Alpine High School – Auditorium**

Microplastic particles have been found in 90% of Swiss soils from Geneva to Graubünden, threatening the integrity of our environment and food systems. What are innovative and scalable solutions to reducing plastic pollution?

Simultaneous interpretation in English and German. This session will be livestreamed on TopLink and the Forum website.

Speakers | **Yi Hsin Cathy Chen**, Senior Policy Adviser, Natural Resources | **Gloria Fluxà Thienemann**, Vice-Chairman and Chief Sustainability Officer, Iberostar Group | **Heather Koldewey**, Fellow, National Geographic Society | **Tom Szaky**, Founder and Chief Executive Officer, TerraCycle | **Peter Thomson**, United Nations Secretary-General's Special Envoy for the Ocean

Moderated by: **Urs Gredig**, Editor-in-Chief, CNNMoney

DAY ONE: TUESDAY 22 January

10:00 – 10:30

A Conversation with Sir David Attenborough and HRH The Duke of Cambridge **Congress Centre – Aspen 2**

The Duke of Cambridge interviews Sir David on his life's work and inspiring generations of people to become champions for nature. This session will be filmed and webcast live.

Speakers | **Sir David Attenborough**, Broadcaster and Naturalist | **Klaus Schwab**, Founder and Executive Chairman, World Economic Forum

Moderated by: **H.R.H. The Duke of Cambridge**

17:00 – 18:30

Safeguarding Our Planet **Interactive Panel followed by screening Congress Centre – Congress Hall**

Climate change, pollution and habitat loss are threatening livelihoods, human well-being and our natural environment. How can leaders take action to safeguard people and planet?

The high-level interactive panel on safeguarding people and planet will be followed by a special screening presented by Sir David Attenborough and featuring never-before-seen footage from his new series, Our Planet. The series will be aired on Netflix in April 2019 and was produced by Silverback Films in collaboration with WWF.

Speakers | **Sir David Attenborough**, Broadcaster and Naturalist | **Jacinda Ardern**, Prime Minister of New Zealand | **Al Gore**, Vice-President of the United States (1993–2001); Chairman and Co-Founder, Generation Investment Management LLP | **Anand Mahindra**, Chairman, Mahindra Group | **Akira Sakano**, Chair, Board of Directors, Zero Waste Academy Japan

DAY TWO: WEDNESDAY 23 January

09:00 - 10:30

Escaping extinction [Open forum](#) **Swiss Alpine High School – Auditorium**

Between 1970 and 2020, the world will have experienced a two-thirds decline in wildlife populations. What are the consequences of the loss of biodiversity for our survival?

Simultaneous interpretation in English and German.

This session will be livestreamed on TopLink and the Forum website.

Speakers | **Inger Andersen**, Director-General, International Union for Conservation of Nature (IUCN) | **Marco Lambertini**, Director-General, WWF International | **Hindou Oumarou Ibrahim**, President, Association for Indigenous Women and Peoples of Chad (AFPAT) | **Cristiana Pasca Palmer**, Executive Secretary, United Nations Convention on Biological Diversity | **Ricken Patel**, Founder and Chief Executive Officer, Avaaz.org

Moderated by: **Naomi Oreskes**, Professor of the History of Science, Harvard University

DAY TWO: WEDNESDAY 23 January

11:00 - 12:00

A new deal for nature **Congress Centre – Aspen 2**

Globally, nature provides services worth around USD\$125 trillion a year. Yet, the world is set to witness a two-thirds decline in wildlife populations over the half-century from 1970 to 2020. With time running out on international agreements, how can business and government come together to deliver on targets for climate, oceans and conservation?

On the Forum Agenda:

- Leveraging green financial products to mitigate environmental risks
- Harnessing technology for resource management
- Advancing a systemic policies for environmental challenges

Simultaneous interpretation in English and Mandarin Chinese.

This session will be livestreamed on TopLink and the Forum website.

Speakers | **Carlos Alvarado Quesada**, President of Costa Rica | **Svein Tore Holsether**, President and Chief Executive Officer, Yara International | **Cristiana Pasca Palmer**, Executive Secretary, United Nations Convention on Biological Diversity | **Feike Sybesma**, Chief Executive Officer and Chairman of the Managing Board, Royal DSM; International Business Council | **Peter Thomson**, United Nations Secretary-General's Special Envoy for the Ocean

Moderated by: **Thomas L. Friedman**, Columnist, Foreign Affairs, New York Times

Closing Remarks by: **Xie Zhenhua**, Special Representative for Climate Change Affairs of the People's Republic of China

DAY TWO: WEDNESDAY 23 January

17:30 - 18:30

Taking action for the Ocean Congress Centre – Sanada

The "Ocean economy" is estimated to be about 3-5% of global GDP or possibly the size of France or California, with assets worth \$24 trillion. How can the world tap into the Ocean economy while protecting it from environmental collapse?

This session is being developed in partnership with Bloomberg TicToc News.

This session will be livestreamed on TopLink and the Forum website. Please arrive 15 minutes early, as the doors will be closed at the scheduled time.

Speakers | **Michelle Bachelet**, United Nations High Commissioner for Human Rights, Office of the High Commissioner for Human Rights (OHCHR) | **Marc Benioff**, Chairman and Co-Chief Executive Officer, Salesforce; Member of Board of Trustees of the World Economic Forum | **Al Gore**, Vice-President of the United States (1993-2001); Chairman and Co-Founder, Generation Investment Management; Member of Board of Trustees of the World Economic Forum | **Enric Sala**, Explorer-in-Residence, National Geographic Society | **Nina Jensen**, CEO, Rev Ocean

Moderated by: **Francine Lacqua**, Editor-at-Large and Presenter, Bloomberg Television

DAY THREE: THURSDAY 24 January

17:00 - 18:15

Nature to the rescue Congress Centre – Jakobshorn

Institutional/natural climate solutions

Forests, the Ocean and wetlands have the potential to remove one-third of the carbon needed to meet climate targets, yet the vast majority of funding is directed to technological solutions. How can the world harness nature's capacity to mitigate climate change?

The System Initiative for this session is Shaping the Future of Environment

Introduced by | **Emily Farnworth**, Head of Climate Change Initiatives, World Economic Forum

Speakers | **Ross Beaty**, Chairman, Pan American Silver Corp | **Jane Goodall**, Founder, Jane Goodall Institute

Moderated by: **Mark Tercek**, Chief Executive Officer, The Nature Conservancy

With: **Hindou Oumarou Ibrahim**, President, Association for Indigenous Women and Peoples of Chad (AFPAT)

Ocean Day Programme and Sessions

A Friends of Ocean Action affiliate event kindly hosted all day **Thursday 24 January** at the **Salesforce Chalet, Promenade 83, 7270 Davos Platz, Switzerland.**

About

Ocean Day will feature a series of 45-minute conversations hosted by Friends of Ocean Action. These interactive interviews will feature key Ocean champions, experts, advocates and private sector leaders, who will highlight what is needed to progress Ocean and climate action.

These sessions are on-the-record, open to media, filmed and webcast live at <https://wef.ch/oceanwebcast>

Seating is limited so please register in advance by clicking on the relevant session links in the following pages.

If you have any questions, please contact ocean2020@weforum.org

DAY THREE: THURSDAY 24 January

08:00 - 08:45

The Next Wave of Ocean Solutions

As the 4th Industrial Revolution gathers pace, a wealth of opportunities for better managing and protecting our ocean is unlocked. Come discover the technologists, innovators, disrupters and entrepreneurs who are revolutionising the way we tackle ocean challenges, and give the next generation reason for hope.

Speakers | **Alice Bunn**, Director, International, UK Space Agency | **Daniela Fernandez**, CEO Sustainable Ocean Alliance | **Douglas McCauley**, Professor, University of California, Santa Barbara | **Marco Lambertini**, Director General, WWF International | **Jan-Gunnar Winther**, Director, Centre for the Ocean and the Arctic

Moderated by: **Elizabeth Schulze**, Technology Correspondent, CNBC

09:00 - 09:45

The wild wet west: The high seas: an emerging opportunity or a failed state?

The high seas, which lie beyond any national jurisdiction, cover almost half the Earth's surface. What happens there is extremely important for the habitability of our planet, from oxygen production to dealing with carbon dioxide and other pollution. How should we work together to protect this vital planetary lifeline ?

Speakers | **Brune Poirson**, Secretary of State for the Minister for the Ecological and Inclusive Transition, France | **Matt Rand**, Director, Pew Bertarelli Ocean Legacy, The Pew Charitable Trusts | **Peter Thomson**, United Nations Secretary-General's Special Envoy for the Ocean

Moderated by: **Erik Schatzker**, Editor-at-large, Bloomberg

DAY THREE: THURSDAY 24 January

10:00 – 10.45

Ending a global crisis: Turning off the tap on plastic pollution

We have built a society that depends on plastic. Now we are drowning in it. It is clogging our cities, Ocean, waterways, it is harming marine and terrestrial life and leaking into our food and bodies. How can we solve this?

Speakers | **H.S.H Prince Albert II of Monaco** | **Diego Donoso**, President Packaging & Specialty Plastics, Materials Science Division, Dow Chemical | **Marco Lambertini**, Director General, WWF International | **Beatriz Perez**, Senior Vice-President; Chief Communications, Public Affairs, Sustainability and Marketing Assets Officer, The Coca-Cola Company | **Brune Poirson**, Secretary of State for the Minister for the Ecological and Inclusive Transition, France

Moderated by: **Tania Bryer**, Journalist and Presenter, CNBC

DAY THREE: THURSDAY 24 January

11:00 – 11:45

Human health, food security and the Ocean [click here to register for the session](#)

What role can the Ocean play in sustainably meeting the nutritional needs of the world's current and future population?

Speakers | **Devry Boughner Vorwerk**, Corporate Vice-President, Cargill | **Hindou Oumarou Ibrahim**, President, Association for Indigenous Women and Peoples of Chad (AFPAT) | **Feike Sijbesma**, CEO Royal DSM | **Gunhild Stordalen**, Founder and President, EAT Foundation

Moderated by: **Raj Kumar**, Founding President and Editor-in-Chief, Devex

13:00 – 13:45

Shipping emissions: Setting sail toward a carbon-free future [click here to register for the session](#)

CO₂ emissions from international shipping could treble in 30 years. We have the technology to avoid this. How can we rapidly decarbonize the shipping industry?

Speakers | **J. Adair Turner**, Chairman, Energy Transitions Commission | **Claus V. Hemmingsen**, Vice-CEO A.P. Møller-Maersk | **Peter Thomson**, UNSG Special Envoy for the Ocean | **Christoph Wolff**, Head of Mobility Industries, World Economic Forum | **Bryony Worthington**, Executive Director, Europe EDF

Moderated by: **Gillian Tett**, Managing Editor, US, Financial Times

DAY THREE: THURSDAY 24 January

14:00 - 14:45

Ocean crime: Is illegal fishing fuelling the drugs and arms trade? [click here to register for the session](#)

Illegal fishing is an estimated US\$23 billion per year industry which is stealing fish from the wallets and plates of millions of people. These activities - frequently transnational and organized in nature - also include document fraud, drugs, human and arms trafficking, and money laundering. How do we stop this?

Speakers | **Heather Koldewey**, Fellow, National Geographic Society | **Kumi Naidoo**, Secretary-General, Amnesty International | **M. Sanjayan**, Chief Executive Officer of Conservation International, Conservation International

Moderated by: **Jim Leape**, William and Eva Price Senior Fellow, Woods Institute; Co-Director, Center for Ocean Solutions, Stanford University

15:00 - 15:45

Slave-free seafood: On combating slavery and abuses in the seafood industry [click here to register](#)

Fishing activities happen far out from the shore, with abuses, slavery and child labor often going unreported. What are the enforcement measures and monitoring systems industry leaders and governments can adopt to combat slavery and abuses in the seafood industry?

Speakers | **H.E. Michelle Bachelet**, United Nations High Commissioner for Human Rights, Office of the High Commissioner for Human Rights (OHCHR) | **Camilla Hagen Sørli**, Member of the Board, Canica | **Jim Leape**, William and Eva Price Senior Fellow, Woods Institute; Co-Director, Center for Ocean Solutions, Stanford University | **Monique Villa**, Chief Executive Officer, Thomson Reuters Foundation

Moderated by: **Nicholas D. Kristof**, Columnist, New York Times

DAY THREE: THURSDAY 24 January

16:00 - 16:45

30x30 vision: Scaling up solutions for Ocean protection through new technologies [click here to register](#)

The Ocean fills our lungs, stomachs and wallets. However, we are protecting only 7% of it while its degradation is advancing fast. We have technologies able to offer scalable solutions to the Ocean challenges and the science is telling us we should protect 30% of the Ocean. The Ocean's power of regeneration is remarkable, if we just offer it the chance.

Speakers | **Brett Jenks**, Chief Executive Officer, RARE | **Enric Sala**, Explorer-in-Residence, National Geographic Society | **Gloria Fluxà Thienemann**, Vice-Chairman and CEO, Iberostar Group

Moderated by: **Nina Jensen**, Chief Executive Officer, REV Ocean

17:00 - 17:45

What will a changing ocean mean to us, our jobs and markets? [click here to register for the session](#)

The world's Ocean is worth \$24 trillion and generates \$2.5 trillion in goods and services annually, making it the seventh-largest economy worldwide. How can we continue to benefit from the Ocean in the face of climate change, increasing demand for resources and the long list of abuses we are inflicting on the global Ocean?

Speakers | **Sharan Burrow**, General Secretary, International Trade Union Confederation | **Katherine Garrett-Cox**, Gulf International Bank | **Angel Gurría**, Secretary-General, Organisation for Economic Co-operation and Development (OECD) | **Greta Thunberg**, Climate activist

Moderated by: **Haley Edwards**, Correspondent, TIME Magazine

DAY ONE: TUESDAY 22 January

16:15 - 17:15

Shipping decarbonization coalition leadership **The Loft**

Forum-led, boardroom session

The maritime industry forms a significant part of the global economy, with 90% of all trade dependent on shipping vessels. International shipping accounts for almost 3% of global greenhouse gas (GHG) emissions, which would make it the world's sixth-largest GHG emitter if it were a country (equivalent to Germany's). With these emissions predicted to grow rapidly in the coming decades if left unchecked, the maritime industry needs to step up efforts to support action to mitigate climate change. In this context, the International Maritime Organization (IMO) has recently announced a climate strategy with targets to reduce by at least 50% GHG industry emissions at global level by 2050 (compared to 2008). This target is creating a great momentum which can be leveraged to help the shipping industry unlock new opportunities and innovations for decarbonization and further raise the ambitions beyond the announced 50% target, contributing to a sustainable development. In this multilateral session, business leaders will explore a potential "coalition for transformation shipping" to drive technology change and business shifts in the industry, supported by policy and financing mechanisms that will enable systemic innovative approaches to economy-wide transition.

Moderated by: **J. Adair Turner**, Chairman, Energy Transitions Commission, United Kingdom

DAY TWO: WEDNESDAY 23 January

10.00 - 11.00

Unlocking investment opportunities for the Ocean **The Loft**

Forum-led, boardroom session

The Ocean has rapidly ascended the global agenda over the last few years. There is a suite of Ocean initiatives, commitment platforms and summits, involving every sector and topic. The international community has also set ambitious targets in committing to the Sustainable Development Goals. 2020 will mark the year of review on progress made. In the wave of new interest and attention to the Ocean, new communities have formed and expressed commitments to achieve and demonstrate progress by 2020, when part of the SDG 14 (the Ocean Goal) will mature. Facilitating collaboration and joining forces is key in ensuring positive progress and change in Ocean conservation and sustainability by 2020 and beyond. In this session, we will bring together key leaders in the Friends of Ocean Action Community and on the Heads of State High Level Panel for a Sustainable Ocean Economy to assess impact to date, unify the Ocean narrative and vision to 2020 and beyond to 2030, and maximize the potential for the range of new initiatives to have real, long-term impact.

Moderated by: **Dominic Waughray**, Managing Director, Head of the Centre for Global Public Goods, World Economic Forum

DAY TWO: WEDNESDAY 23 January

12:30 - 14:00

Ocean Action Agenda Leadership Group meeting **Morosani Posthotel**

The world has witnessed the dynamic emergence of a suite of Ocean initiatives, commitment platforms, summits, and more – involving every sector and topic. In the wave of new interest and attention to the Ocean, powerful communities have been formed and have expressed strong commitments to achieve and demonstrate progress by 2020, when part of Sustainable Development Goal 14 will come to maturity. Facilitating the collaboration and joining forces is key in ensuring progress and change in Ocean conservation and sustainability by 2020 and beyond. In this session, key leaders in the Friends of Ocean Action Community and on the Heads of State High Level Panel for a Sustainable Ocean Economy will convene to assess impact to date, unify the Ocean narrative and vision to 2020 and to 2030, and maximize the potential for the range of new initiatives to have real, long-term impact.

With:

H.S.H. Prince Albert II of Monaco

Speakers | **Audrey Azoulay**, Director-General, United Nations Educational, Scientific and Cultural Organization (UNESCO) | **Michelle Bachelet**, United Nations High Commissioner for Human Rights, Office of the High Commissioner for Human Rights (OHCHR) | **Ray Dalio**, Founder, Chairman and Co-Chief Investment Officer, Bridgewater Associates LP | **Al Gore**, Vice-President of the United States (1993-2001); Chairman and Co-Founder, Generation Investment Management | **Luhut B. Pandjaitan**, Coordinating Minister for Maritime Affairs of Indonesia | **Beatriz Perez**, Senior Vice-President; Chief Communications, Public Affairs, Sustainability and Marketing Assets Officer, The Coca-Cola Company | **Nguyen Xuan Phuc**, Prime Minister of Viet Nam

Moderated by: **Jim Leape**, William and Eva Price Senior Fellow, Woods Institute; Co-Director, Center for Ocean Solutions, Stanford University, USA



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