

2017 Sustainable Innovation Expo

3-6 December 2017

Nairobi, Kenya



Agenda

The private sector – ranging from micro-enterprises to cooperatives to multinationals – are an active source of innovation, solutions and finance in tackling the environmental challenges of our times, such as pollution, in the quest for sustainable development.

UN Environment's partnerships with businesses around the world have already spurred a number of solutions to critical environmental issues. The organization will continue to expand on these partnerships in the months and years to come.

The *2017 Sustainable Innovation Expo* is the UN Environment Assembly's platform for connecting the science to the solution. It provides a unique opportunity for Ministers of Environment, heads of UN Agencies and leaders of private sector and civil society to network, exchange information for scaling up solutions and building partnerships.

The *2017 Sustainable Innovation Expo* will host a number of events and activities, including:

- **Exhibitions:** by the private sector to showcase technology and innovation to tackle pollution;
- **Planetarium:** with an immersive projection where participants can visit the past, present and future in different regions of the universe. Run by the Travelling Telescope UK, it will host visiting experts on space and Earth observation;
- **Virtual Reality Hub:** will feature the *Journey in Pollution* using advanced virtual reality as presented by the Brookline Interactive Group/The Public VR Lab;
- **Networking Space:** which will host a series of informal pop-up *Chats* that bring together public and private sectors on environmental technology and innovations and a Networking lounge for all private sector participants.

Agenda	
3 December	
15:30	Opening of Expo
15:32 – 15:38	Dignitaries cut the ribbon to formally open the Expo, exhibits, and events in the Planetarium, Virtual Reality Hub and the Networking Space. <ul style="list-style-type: none">• 42 companies will be showcasing their innovation and technology
16:00 – 16:30	Planetarium Chat: Why Astronomy Matters in the Context of our Fragile Planet Background: This <i>Chat</i> will highlight the connection between astronomy and environmentalism and begins with the 'Earthrise' photograph taken by the Apollo astronauts of the tiny Earth 'hanging' in the vast blackness of space rising above the desolate grey horizon of the Moon. We will explore how the image can change our perception from being individualistic or tribal, to how we must work together as humans on Earth with the

	finite resources we have on this planet.
16:00 – 16:30	Virtual Reality Hub: Journey in Pollution using Advanced Virtual Reality (organizers: the Brookline Interactive Group/The Public VR Lab)
16:00 – 16:20	Opening of Huawei’s Exploration photo exhibit, a global campaign on solutions to the planet’s environmental challenges (organizer: Huawei)
16:25 – 16:45	Networking Space Film: Kenya from a New Point of View (film by Huawei) Background: Exploration of the new technology of the present and the future.
17:30 – 19:30	Reception on Exploration and Innovation with entertainment from Burundi’s finest drummers Opening of Reception by UN Environment and special guests (500 participants)

4 December	
10:00 – 11:00	Planetarium Chat: Climate Change from an Astronaut’s Perspective Background: This <i>Chat</i> will focus on how the few humans who have left the surface of the Earth have witnessed environmental changes from above. These include the retreating glaciers and ice sheets near the poles, loss of land due to sea level rise, huge zones of particles in the atmosphere from city smog to smoke from the clearing of vegetation, and indeed the loss of vast areas of rainforest.
11:00 – 12:00	Networking Space Chat: Public-Private Alliances to Tackle Pollution (organizer: World Economic Forum) Background: Public-private alliances can offer an effective approach to mobilizing the necessary system of stakeholders that are required to tackle pollution. This session will discuss some of the experiences in building such collaborative partnerships, including: <ul style="list-style-type: none"> • The Global Battery Alliance – addressing pollution linked to the production and use of various battery technologies, a critical technological enabler of a low-carbon future; • The Platform for Accelerating the Circular Economy – mobilizing stakeholders to tackle e-waste, plastic pollution amongst other key areas; • The 2030 Water Resources Group – which supports collaborative projects to mitigate water pollution, among other issues related to strategic water management.
12:00 – 13:00	Networking Space Film: <i>Future</i> (film by Airbus Snowglobes) Background: This film will highlight Airbus’s predicted development of travel trends over the next 50 years, with their planes looking like something out of a sci-fi film. Airbus research has also suggested that every flight in the world could, on average, be

	<p>around 13 minutes shorter, which would save millions of tonnes of excess fuel annually.</p> <p>Underwater hotels and flights through low-orbital space by 2050 and teleportation by 2080: what the future of travel will look like. Airbus has developed renderings of their panoramic planes of the future.</p>
<p>14:00 – 15:00</p>	<p>Networking Space Chat: Solutions to Pollution Using Artificial Intelligence (organizer: IBM)</p> <p>Background: IBM will discuss how it is leveraging artificial intelligence and Internet of Things (IoT) to address environmental challenges from reducing air pollution, to preserving natural resources, increasing availability of renewable energy, and improving public access to clean water. Through these technologies, IBM is making sense of the data deluge produced by thousands of connected things – sensors, devices, machines, buildings, vehicles, and people – and building specialized, integrated solutions to solve environmental problems.</p>
<p>15:00 – 16:00</p>	<p>Planetarium Chat: How We Know What We Know, And Where Are We Going with it?</p> <p>Background: For this session, we will look at the role of science in our society. By beginning with the first civilisation to leave a scientific trace (i.e. Stonehenge & the Pyramids), we will be able to examine how the scientific method works and how the industrial revolution began a measurable rise in atmospheric pollution, specifically carbon dioxide. We will then explore how some innovations in our society began as pure research, and how science can help to tackle some of the problems we face (green tech – solar panels, wind turbines, tidal power, carbon capture).</p>
<p>15:10 – 16:10</p>	<p>Signing of new Partnerships in the <i>Studio</i> of the Networking Space</p> <ul style="list-style-type: none"> • New partnership signing with Sina Weibo
<p>16:30 – 17:30</p>	<p>Networking Space Chat: Geo-Spatial Technology and Indicators for Environmental Policy and Action (organizers: co-hosted by Abu Dhabi Environmental Data Initiative (AGEDI) on behalf of the “Eye-on-Earth Alliance” and UN Environment’s Science Division)</p> <p>Background: This “Pop-Up Chat” will create a setting that openly discusses setting-up a global partnership for research and development of the “World Environment Situation Room”. The purpose for this <i>Room</i> is to become a global online platform for policy and action on the environmental dimension of Agenda 2030 and Sustainable Development. The <i>World Situation Room</i> is a high quality, impact research and development platform. State-of-the-art science and technology tools such as geo-referenced, remote-sensing and earth observation information are integrated with statistics and data. Our strategy is to integrate this information into a Global platform to be used as an instrument for policy and action on Global Green Solutions for the Environment. The discussion will also include novel ways to access and communicate Environmental Data through Story Maps.</p> <p>We hope that this <i>Chat</i> will not remain as an idea that was discussed at the third</p>

	UN Environment Assembly, but rather that we, as a global community, create substantial plans and use collective resources and innovative ways to help achieve the 2030 Agenda.
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5 December	
10:00 – 11:00	<p>Networking Space Chat: Fashioning Sustainable Development: How to Fashion a Sustainable Future (organizer: Sustainable Apparel Coalition)</p> <p>Background: The apparel, footwear, and textile industry is one of the most-polluting industries on the planet. The need to rectify this is urgent. Sustainable Apparel Coalition is engaging with retailer, manufacturers, researchers, unions and environmental advocates to address environmental and social labour impacts across the fashion supply chain.</p> <p>We are working to understand the magnitude and science around environmental and health impacts of the fashion industry; exploration of the sustainable life cycle of production and consumption of fashion products; and the role of policy makers and UN Environment. Beauty and fashion have a major role to play in realizing the Sustainable Development Goals due to its magnitude of impacts on environment, economic growth, health, gender dynamics and labour conditions.</p> <p>This <i>Chat</i> will feature as special guests: Kaya Dorey, the 2017 Young Champion of the Earth for North America and Rakesh Sharma, cosmonaut and the first Indian to travel in space. They will participate in the conversation, discussing how to create sustainable lifestyles, produce fashion responsibly and realize the 2030 Agenda for Sustainable Development that leaves no one behind. Additionally, that will be joined by Mr. Jason Kibbey, Chief Executive Officer of the Sustainable Coalition, the apparel, footwear, and textile industry’s leading alliance for sustainable production.</p>
11:00 – 12:00	<p>Planetarium Chat: Space Technology and the Role of Satellite Imagery</p> <p>Background: Here, we turn to how the advances in satellite technology is providing us with the ability to continuously monitor our changing planet. We are now able to observe real-time weather phenomena such as storms or heat waves, and monitor gases in our atmosphere and oceanic changes. Perhaps without realising we all use technology that has come from the space industry – the internet began as a way for scientific institutions to exchange large amounts of data! Most smartphones have a built-in camera using a CCD (charged coupled device) developed for astronomy as the expense of silver in film rendered some photography impossible. Additionally, the GPS facility uses satellites in space combined with maths from Einstein’s theory of relativity!</p>
12:00 – 13:00	<p>Networking Space Chat: Can Virtual Reality Help Save Reality? (organizer: Brookline Interactive Group/The Public VR Lab)</p> <p>Background: Well-designed virtual reality (VR, AR, 360) experiences can invoke a powerful sense of awe and empathy. Virtual reality is as follows:</p> <ul style="list-style-type: none"> • <i>Storytelling</i> – It is an embodied cognitive experience, unlike any storytelling medium ever before. Unlike reading an article or watching a

	<p>video, in virtual reality the user becomes part of the story. Through a storytelling agency, this experience allows the user to make meaningful choices that impact the virtual world.</p> <ul style="list-style-type: none"> • <i>The Experience</i> – Users have an actual experience, an encounter, with the possibility of having a transformation of heart, mind and body. Virtual reality allows the user to feel and understand from their own experience inside of a visual space that surrounds and immerses, such that the experience feels incredibly real. • <i>The Purpose</i> – There is hope that through immersing people in experiences through which they can affect positive change, this could carry over to positive actions they take in the real environment. <p>Participants will develop a shared understanding of what virtual reality is and how it might be leveraged to support education and engagement around environmental issues. Participants will have the opportunity to describe and discuss the possibilities and the challenges associated with using Virtual Reality in their own countries. This <i>Chat</i> will enable the Company and the participants to engage in a discussion on strategies to address the challenges that are raised with the possibility of developing relationships to support working together on addressing these challenges.</p>
15:00 – 17:00	Signing of new Partnerships in the Studio of the Networking Space
18:30 – 21:00	Reception and Gala Dinner

6 December	
10:30 – 11:30	<p>Planetarium Chat: Combating Climate Change with Green Technology</p> <p>Background: Here, we will showcase some of the current ideas and strategies for mitigating climate change and work towards a pollution-free planet. These topics range from eliminating the use of plastic packaging to zero carbon air-travel. This time is a prominent platform for some of the UN Environment Assembly guests to share their ideas on living healthily and happily on Earth for thousands of years into the future. The survival of our species depends on our ability to use science and engineering to provide solutions for the global challenges we all face.</p>
11:30 – 12:30	<p>Networking Space Film: <i>Future</i> (film by Airbus Snowglobes)</p> <p>Background: This film will highlight Airbus’s recently predicted development of travel trends over the next 50 years, with their planes looking like something out of a sci-fi film. Airbus research has also suggested that every flight in the world could, on average, be around 13 minutes shorter, which would save millions of tonnes of excess fuel annually.</p> <p>Underwater hotels and flights through low-orbital space by 2050 and teleportation by 2080: What the future of travel will look like. Airbus has developed renderings of their panoramic planes of the future.</p>

14:00 – 15:00

Networking Space Chat: How can Slaughterhouses help clean up the Environment? (organizer: Keekonyokie Biogas Enterprise)

Background:

Keekonyokie Biogas Enterprise is a slaughter house which has been working on a waste to energy conversion strategy. They have built a Biogas plant, a gas storage unit, and a CHP engine which uses biogas to light up the premises. David Chege, a mechanical engineer and the technical manager at the plant, will use this Chat to open the conversation on how this topic will contribute to the maintenance of a clean environment and how this can help to generate an income form the slaughterhouse waste.