G·STIC GLOBAL SUSTAINABLE TECHNOLOGY & INNOVATION COMMUNITY

G-STIC SIDE EVENT

SDG Pavilion

13/11 – 9h-10h

COP29 - BAKU

G-STIC SIDE EVENT COP29

13/11/2024 – SDG pavilion – 09:00 – 10:00

Organizing entity

G-STIC: The Global Sustainable Technology and Innovation Community

Title

The Role of STI - roadmap from the Summit of the Future to COP30

Type

In person speaker session with co-hosts G-STIC

Preliminary content description

As we gather on the sidelines of COP29, the world's focus is firmly on addressing the most urgent global crisis of our time: climate change. The impacts of climate change are intensifying, and the window to act is rapidly closing. This panel seeks to explore the critical role that science and technology play in tackling this challenge, and how the outcomes of the recent Summit of the Future can guide us on the road to COP30 and beyond.

Science and Technology: Engines for Climate Action

Science and technology have always been at the forefront of human progress. Today, they are indispensable tools in our collective effort to limit global warming to 1.5°C. From renewable energy systems and green infrastructure to precision agriculture and carbon capture technologies, innovation is not only helping to mitigate the effects of climate change but is also offering solutions for adaptation and resilience.

The rapid advancements in artificial intelligence, biotechnology, and data analytics are reshaping the landscape of climate action. For instance, AI-powered tools are enabling more accurate climate models, predictive analytics, and real-time monitoring of ecosystems, allowing policymakers to make more informed decisions. Biotechnology innovations, such as next-generation biofuels and sustainable food production, have the potential to decarbonize key sectors while improving food security.

However, the promise of these technologies must be balanced with the risks they entail, including potential inequalities in access, unforeseen environmental impacts, and ethical dilemmas. This panel will consider how we can ensure that science and technology serve as enablers of equitable and sustainable development.

Building the Road to COP30

The road to COP30 presents both challenges and opportunities. On one hand, global emissions continue to rise, and many countries are falling short of their commitments under

the Paris Agreement. On the other hand, the momentum for climate action is growing, with increased investment in green technologies, the establishment of carbon markets, and the rise of youth-led movements demanding urgent change.

As we look ahead, this panel will explore how science and technology can support countries in raising their ambitions and meeting their targets. What role will technologies like hydrogen energy, direct air capture, and battery storage play in the next phase of climate action? How can we accelerate the deployment of these technologies in developing countries? And what frameworks & governance models are needed to ensure that these innovations are accessible, scalable, and sustainable?

This session will also address the crucial role of international collaboration. Climate change is a global problem that requires global solutions. Initiatives such as technology transfer, capacity-building, and financing mechanisms must be scaled up to ensure that every country, regardless of its resources, can participate in the transition to a low-carbon economy.

Conclusion

As we stand at a critical juncture, the purpose of science and technology in tackling climate change is clear: they are tools that can either accelerate our progress toward a sustainable future or exacerbate inequalities and environmental degradation. The outcomes of the Summit of the Future offer a blueprint for how we can govern these tools responsibly and equitably. As we move toward COP30, it is imperative that we harness the full potential of innovation while ensuring that the benefits are shared by all.

This panel aims to spark a meaningful dialogue on how science, technology, and governance can intersect to drive climate action in the years ahead, laying the groundwork for an ambitious and inclusive COP30.

Speakers

1. **Suruchi Bhadwal,** Director Climate Division, TERI
2. **Guilherme Netto,** Senior Climate & Health scientist, Fiocruz
3. **Hicham Bouzekri**, Director R&D, Masen
4. **Brian Mantlana**, Holistic Climate Change Impact coordinator, CSIR
5. **Yiran Lyu**, officer for international cooperation, GIEC
6. **Ilke Geleyn,** programme manager, G-STIC

Agenda

Timing/Length	Topic	Speaker
1: Pre-show		
5 min	**Introduction to G-STIC, the session & panel**	Ilke Geleyn, G-STIC
2: Look back		

5 min	Look back at G-STIC 2024 Delhi	Anshuman/ Suruchi Bhadwal, TERI
3: Panel discussion		
40 min	Discussion on the role of RTOs to endorse recommitment to the SDGs	Speaker TERI Speaker CSIR Speaker FIOCRUZ Speaker GIEC Speaker MASEN
4: Look forward		
5 min	A glance at G-STIC Pretoria 2025	Speaker CSIR
5: Wrap up		
5 min	Wrap up, look at COP30 and conclusions	Ilke Geleyn G-STIC

Supported by 10 international co-hosts from Belgium, Brazil, China, India, Morocco, Nigeria, South Africa and South Korea

G-STIC is hosted jointly by **VITO** (the prime research and technology organization on cleantech and sustainable development in Belgium) and 8 other not-for-profit independent technology research institutes: **CSIR** (The Council for Scientific and Industrial Research, South Africa), **FIOCRUZ** (Fundação Oswaldo Cruz, Brazil), **GIEC** (Guangzhou Institute of Energy Conversion, China), **JITRI** (Jiangsu Industrial Technology Research Institute, China), **MASEN** (Group responsible for managing renewable energy, Morocco), **NACETEM** (National Centre for Technology Management, Nigeria), **STEPI** (Science and Technology Policy Institute, South Korea) and **TERI** (The Energy and Resources Institute, India).