

# Green Digital Action at COP28







هيئة الاتصالات والفضاء والتقنية  
Communications, Space & Technology Commission



Global Centre for Climate Mobility | Rising Nations Initiative



ENABLING DIGITAL SUSTAINABILITY



NETHOPE



# Context

Reaching the 1.5-degree Celsius target outlined in the Paris Agreement is becoming increasingly challenging.

The window for effective action is closing rapidly, requiring global collaboration and bold action for immediate and substantial reductions in greenhouse gas emissions to prevent irreversible damage.

Digital technologies can help fight the climate crisis but can also be part of the problem if such challenges as energy consumption and e-waste are not managed.

# Objectives

- Increase multi-stakeholder collaboration to advance digital-technology-driven climate action
  - Co-create and fast-track practical solutions and bold action to tangibly support the climate agenda
  - Mobilize commitments and strengthen accountability to promote the green and digital transitions among governments, business, and civil society and others, including through the Partner2Connect Digital Coalition.
  - Catalyse opportunities for partnerships and broader coordination with key existing mechanisms like the Marrakech Partnership, the World Standards Cooperation, the Digital with Purpose movement or the UN Early Warning for All initiative.
- **The ICT sector's commitment to increased, collaborative climate action puts the sector on the forefront of climate action and inspires other industries to follow suit.**

# Approach

2023



## Shape collaborative action:

Identify calls for action and mobilize ICT community around breakthrough areas to step up and scale up climate action



## Communications Campaign:

Press outreach, impact stories, social media



## AI solutions for climate change:

Innovation Factory and Competitions

at COP28



## Green Digital Action track:

Digital/climate as cross-cutting theme throughout COP28, incl. sessions and AI awards ceremony



## Launch joint action:

Public announcement of joint action, inviting others to join



## Mobilize new commitments:

Including the pledging of new commitments through the Partner2Connect digital coalition platform

2024-2025



## Action coalitions

to support joint implementation



## Accountability:

Tracking progress and establishing accountability mechanisms



## Innovation forum and community:

To enable knowledge and digital technology transfer, peer-to-peer capacity building

Others (tbd) ...

**Increase global collaboration to advance digital-technology-driven action and solutions for mitigating and adapting to climate change**

# Thematic pillars

Support climate/carbon monitoring through open environmental data/tech	Reduce ICT Sector GHG emissions	Transition to a circular electronics industry	Build momentum for implementation of "green" standards  Mainstream "green" into standardization	Leverage ICT's positive impacts on the climate	Employ digital connectivity and technologies in support of the delivery of the UN Secretary General's Early Warning for All initiative
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# Thematic pillars – current status

# Climate/Carbon monitoring

## Objective

*Support climate and carbon monitoring through multi-purpose infrastructure and by making relevant data open and freely available for climate research.*



<b>Calls for action</b>	<b>Target group(s)</b>
<p><i>(a) Provide access to cell towers and radio relay sites for the deployment of CO2 sensors in support of the Global Greenhouse Gas Watch's top-down estimations of GHG fluxes.</i></p> <p><i>(b) Provide received signal level (RSL) attenuation data from radio link networks free of charge for precipitation measurements, weather prediction and climate research.</i></p>	<p><i>Telecom operators, cell tower operators</i></p>

## Other aspects and opportunities for support:


*Explore, further develop, and implement the sharing of other aspects of ICT infrastructure and data for climate action purposes, including SMART Atlantic CAM submarine cable systems.*

# Circular Electronics Industry

## Objective

*Increase the number of countries covered by an effective and economically viable e-waste regulation*

*Increase private sector involvement in the formulation and implementation of e-waste regulation*



Call(s) for action	Target group(s)
<ul style="list-style-type: none"><li>• Member States commit to formulating a national e-waste regulation (where the local context permits) by XX date.</li><li>• Entities or Member States commit to supporting (in-kind or in-cash) XX number of countries with the formulation of national e-waste regulation by XX date.</li><li>• Entities (EEE producer [importer, distributor, brand or manufacturer] or telco) commit to partnering with XX number of countries during the formulation and implementation of national e-waste regulation by XX date.</li></ul>	Governments, EEE producers [importer, distributor, brand or manufacturer] or telcos



# ICT Sector GHG emissions

## Objective

Gather strong and efficient group of organizations that agree to implement GHG emissions reductions following ICT 1.5°C trajectories and launch a peer learning working group to support each other's with this implementation **taking into account different maturity levels.**

## Calls for action:



Call(s) for action	Target group(s)
ICT companies commit to setting / already have set 1.5 degree aligned science-based targets, validated by SBTi, for emissions reduction and reduce scopes 1, 2 and 3 emissions, as well as to create and publish transition plans outlining how decarbonization trajectories and net-zero targets will be achieved. Moreover, companies are invited to participate at least bi-annually in an ITU-led working group to support joint progress and mainstream ambition loop across all geographic regions	ICT companies
ICT companies commit to report data on all GHG emission scopes and categories yearly, publicly and submit results to a public ITU database. When a company reports to CDP, this can be done through the CDP disclosure, making sure the submission is publicly available. When a company does not report to CDP, this can be done reporting directly to the ITU.	
Express interest in contributing to the ICT sector database creation and maintenance on products and services Emission Factors and launch a working group to support implementation. Companies are invited to join existing standardization efforts in ITU-T SG5.	

# Thematic pillar: *4.a Building momentum around Green Standards*

**Preparatory process:**  
Identify, promote and agreement on green standards for implementation.



**COP28:**  
Action plan, including a call for action and a follow-up phase.  
Launch a peer working group



**Post COP28:**  
Peer learning working group to follow-up on the implementations of the action plan

30<sup>th</sup> July 1<sup>st</sup> call  
11 Aug 2<sup>nd</sup> call  
Sept 3<sup>rd</sup> call  
Sept 4<sup>th</sup> call  
1 Oct 5<sup>th</sup> call  
1<sup>st</sup> Oct 6<sup>th</sup> call  
3<sup>rd</sup> Nov 7<sup>th</sup> call

13<sup>th</sup> Nov 8<sup>th</sup> call

Upcoming bi-weekly calls  
5<sup>th</sup> Nov call

We are here

Milestone:  
**Call for Action Document structure**  
[Standards, Current Best Practices, and Gaps]

Working on:  
**Completing the call for Action Document**  
&  
**Designing the session format**  
during COP28

**Call-To- Action Document:**  
Identifying, promoting, committing on:  
**173 Standards**  
[ITU/IEC/ISO/IEEE/IETF..]  
**3 Standardization Gaps**  
**Best Practices**

**COP28 session create Peer Learning Group**  
This will be an integrated Group with GHG Pillar [Orange]

**4<sup>th</sup> December**  
**9:45 AM – 10:45 AM**  
**ISO Booth**

Post COP28  
**Peer Learning Working Group**  
[Green Standards and GHG Pillar]  
To meet Bi-annually or more...

# ***Emergency Telecommunication/Early Warnings***

## **Objective**

*Employ digital connectivity and technologies in support of the UN SG's EW4All initiative.*



### **Calls for action**

- Mobile operators support the implementation of cell-broadcast
- Countries study the implementation of a multi-channel early warning system, with particular focus on mobile early warning system
- Software companies implement cell-broadcast
- Big tech companies provide data to help ITU measure connectivity (via Disaster Connectivity Map) to allow to understand how people can be reached before, during and after an emergency.
- Big tech companies invest into research on how AI can help achieve EW4all initiative (across pillars)

## Mobile Industry Commitment to EW4A

*“With 95% of the world’s population covered by a mobile network and 5.4 billion unique mobile subscribers globally, mobile plays a life-saving role in the dissemination of early warning alerts. The mobile industry has longstanding experience in the development and implementation of early warning systems, and we are committed to the ambition of the Early Warnings for All Initiative for everyone to be protected by 2027.*

*We know first-hand that cell-broadcast, location-based SMS, and digital technologies provide targeted and accessible information to communities. Through cross-sector stakeholder collaboration and sharing of expertise and best practice, we can ensure everyone is protected. We welcome our mobile industry colleagues in joining us to deploy these technologies and partnering to harness the power of mobile networks for early warnings.”*



Globe





# Satellite Industry Commitment to EW4ALL

- *“Satellite is the only technology currently capable of providing emergency messaging to the entire globe and the only technology that can cover more than 99% of the world’s population. Currently, satellite plays a critical life-saving role in emergency messaging in all environments and geographies and is also able to provide reliable service in disaster situations that might render other technologies and communication mediums inoperable. The satellite industry has longstanding experience in emergency messaging and will be an essential component of any truly global emergency warning and messaging system. We are committed to the ambition of the Early Warnings for All Initiative for everyone to be protected by 2027.”*
- Under the leadership of GSOA, the satellite industry is committed to do its best efforts to supporting the ambitious goal of the EW4all initiative. This includes identifying opportunities and addressing challenges in the area of direct-to-handset. Through cross-sector collaboration and sharing of expertise and best practices, we will make progress in helping protect everyone. GSOA, in collaboration with key satellite partners, will work to assess and, as appropriate, address, the remaining challenges for the adoption of these life-saving technological solutions and applications. This could include reaching out to relevant stakeholders outside the satellite industry, including device manufacturers and standardization bodies, terrestrial service providers and other relevant trade associations.\*
- Ongoing discussions with European Commission and Globalstar to finalize a Call to Action.

\*Yet to be validated by GSOA members

# Onsite programme

Session	Venue	Date
High-level opening	Global Innovation Hub	2 December, 9-10am
<b>Breakthrough sessions</b>		
Leverage ICT's positive impacts on the climate	Global Innovation Hub	2 December, 2-3pm
Reduce ICT sector GHG emissions	Finland pavilion World Bank pavilion	3 December, 1-2pm 5 December, 9-9:45am
Employ digital connectivity and technologies in support of the delivery of the UN Secretary General's Early Warning for All initiative	WMO pavilion	4 December, 6-7pm
Green Standards (2 sessions): 'Build Momentum around Green Standards' and 'Sustainability by design'	ISO pavilion	4 December, 9:45-10:45am 4 December: 11:15-12:15
Transition to a circular electronics industry	KSA pavilion	6 or 8 December
Support climate/carbon monitoring through open environmental data/tech & Closing of GDA at COP28	Global Innovation Hub	9 December, 5-6pm
<b>Other sessions</b>		
Crowdsourcing AI solutions for the climate	UN side event	2 December, 16:45 - 18:15
Partner sessions ...		

## High-Level opening

Unleashing Green Digital Action for a sustainable digital tech industry

## Breakthrough Sessions

Leverage ICT's positive impacts on the climate

Reducing ICT Sector GHG emissions

Build momentum around green standards

Green standards: Sustainability by design

Digital connectivity and technologies for Early Warning for All initiative

Creating a circular economy for electronics

## Other/Partner Sessions

Crowdsourcing AI solutions for the climate

No Green without Digital: Transforming Industries for a net-zero Future

Innovative, Digitally Enabled Green Transition

Digital Transformation on a Livable Planet



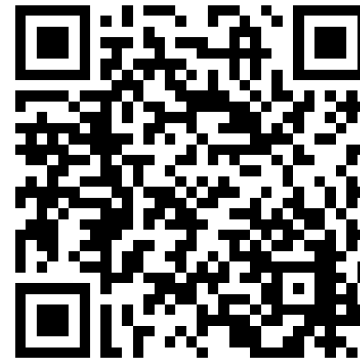


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**Be part of  
the solution.**



**Green  
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# Thank you



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