

13th Annual Meeting of the Internet Governance Forum
([IGF2018](#))



"Workshop: " ICT and Environment Sustainability

Organizer: The Egyptian Cabinet Information and Decision Support Center (IDSC)

Co-organizer: World Food Programme (WFP) in Cairo, Egypt & AFICTA

Workshop Host : Ms. Nirvana Farrag, Director General, International Cooperation Department-the Egyptian Cabinet Information and Decision Support Center, IDSC

Format: The workshop will take the format of a moderated roundtable discussion which will give both the speakers and the participants from different backgrounds and expertise the opportunity to get together in an interactive setting where all views and ideas can be shared equally. This format is useful in raising multiple questions and in engaging in meaningful dialogue while the moderator will work to ensure that critical elements of the engagements are documented and shared afterwards. The workshop will depend on the role of the moderation in posing different questions to the speakers and the audience and lead the participants in agreeing to the discussion points

Duration: 60 minutes

:Background

Global environment is fundamental to achieve sustainable and resilient human Society. Governments which are striving to achieve sustainable economy must give priority to environment protection with reasonable policy and Technology solutions

The environmental impact of internet technologies are of high importance for policy makers at all levels to shape a greener digital future. There are many environmental challenges that we face nowadays, Climate change is one of the most urgent challenges facing humanity and collective action is required to shape a more environmentally sustainable digital future. Climate change is an important area of investigation to guarantee this sustainable growth, taking into account the Internet Footprint. Developing countries hardly contribute to climate change so concrete actions to help them in climate change adaptation. In this respect, the Internet and ICTs can be enabling tools to diminish climate change and enhance adaptation to it. This can be achieved through climate monitoring and data collection

Digitization also provides a golden opportunity to the Water and sanitation sector to solve problems of lack of information coordination that hinders development. Cloud computing and data enhances information on water flow, pressure, temperature and other metrics that lets the utility providers optimize the water supply distribution in addition to monitoring the usage and wastage of water. Meanwhile, cloud computing augments water system maintenance through recognizing when and exactly where a leak occurs within their piping systems in a trial to diminish future breaks and decrease water management costs. In addition, the Internet results in .reduction in waste disposal by saving human work and increasing efficiency

The main aim of the workshop is to address the impact of digitization on the global environment and how Big Data availability will better enable .decision makers to avoid its drawbacks and enlarge its benefits

In Egypt, the Environment pillar is an essential component of Egypt 2030. Using IT will be deployed to rationalize the use of natural resources and find non-traditional alternatives to ensure their sustainability and focus on the axis of the environment to achieve water security and quality of water resources. Meanwhile, employing IT serves the target of reducing air pollution loads and pollution from untreated waste with serious environmental and health impacts while maximizing the utilization of natural resources through the use of solid waste with a focus on municipal solid waste. In addition, Egypt seeks to use IT to maintain the balance of ecosystems, biodiversity and to achieve good governance. As a result, Egypt's implementation of its international and regional obligations towards the environmental conventions will be accomplished, especially via the development of the necessary .mechanisms to ensure compliance with local policies, using IT

Egypt is one of the leading developing countries has been massively investing in building its information technology .It is estimated that there are more than 35 million Internet users in Egypt with more than 4 million fixed broadband lines and 35 million mobile broadband wireless users (Internet Society, June 2017). At the same time, the Egyptian government has exerted efforts to green IT products, applications and services to save the environment and to reduce carbon emissions. Yet, there are other steps need .to be taken

Egypt has also developed many National strategies, among which the national strategy for the disaster risk reduction taking into consideration the role of new in developing an early warning system and raising public awareness and to facilitate the coordination between all stakeholders and responders on different levels, national and internationally and locally. Egypt also has developed a National strategy for climate change adaptation and a

National strategy for climate change mitigation in accordance with Egypt
.Vision 2030

The workshop will address the impact of ICT on environment through the
:following questions

- ?What is the role of Digitization on Global Environmental issues •
- What is the Internet & ICTs role for the eco- Sustainable Development •
- ?Goals
- What is the environmental impact of the current and future •
- ?technologies
- What are the fundamentals and national policies needed for •
- ?Green ICT
- How technology can be employed to serve governments controlling risk •
- associated with issues like climate change, Water Sanitation, Disaster
- ?risk management-Success Stories
- ?What ICT solutions can be offered for a sustainable future •
- What actions need to be taken by different stakeholders to ensure that •
- ?we have an environmentally sustainable digital future

:Relevance of the workshop

The workshop will tackle the role of Internet of Things in shaping and saving the and since "the Internet of Things" has contributed to offer smarter services to the have a green environment. Embracing data-driven decision making could greatly allow the internet to reach its potential, most importantly in the .environment filed as an area of critical concern

:Interventions

The workshop will include speakers from multi-stakeholders various backgrounds in order to provide diverse inputs and opinions about the supportive role of smart solutions in the environment and the international .best practices in the Internet of Things

Ms. Nirvana Farrag, Director General, International **Forum Host :**
Cooperation Department-the Egyptian Cabinet Information and Decision
(Support Center, IDSC (5 min

(Speakers: (35 min. - sorted alphabetically

Speakers represent different organizations including international organizations working in international development, government entities

concerned with information technology and communication, institutions working in the field of ICT from a regional perspective. Gender balance is taken into consideration in selecting the speakers for the workshop. The proposed speakers represent geographical, gender and multi-stakeholders (government, international organizations, independent consultant, private (.sector, etc

Ms. Abeer Shakweer ,Advisor to the Minister of Communications and -
Information Technology for Community Development

Ms. Dalia Salem, Minister Advisor - International Cooperation affairs, -
Ministry of Industry, Trade and Small Industries

Mr. Mohamed Abdel Wahab,Cahirman, Egyptian Environmental Affairs -
agency

Mr. Mohamed Amin Hasbini , director of Smartcities.org, Dubai -

Dr. Mostafa Fathy, Head of Information Technology at Arab -
(Administrative Development Organization (ARADO

Mr. Mohamed Hassan, Crisis and Disaster Sector, IDSC -

Ms. Nirvana Farag, Director General, International Cooperation -
Department-the Egyptian Cabinet Information and Decision Support
Center, IDSC

:Discussion facilitation

Speakers will present their speech/presentations in 5 minutes (each).
Presentations/speeches will be followed by an open discussion where
(.participants are welcomed to comment and interact in the workshop (15 min

The workshop will be concluded by a wrap up covering the key questions
(.raised during the workshop (5 min

Onsite Moderator: Mr. Menghestab Haile, Country Director - Egypt, World
Food Programme (WFP) Cairo, Egypt

OnlineModerator: Ms. Heba Abd ElHameed

Rapporteur: Ms. Marwa Fawzi

:Online Participation

Online participation will be available during the workshop to enable
participants from different countries who did not have the opportunity to
participate in person in [IGF 2018](#) to engage in the discussions and share their
views about the topic. Remote participants are encouraged to send their
questions/comments and the speakers will respond and interact accordingly.
They will have the opportunity to interact on an equal basis with those from in-
.room participants