

2021 WITSA Global ICT Excellence Awards Nomination Form

The *2021 WITSA Global ICT Excellence Awards* will be presented to select individuals, academic institutions, corporations, NGOs or governments whose use and applications of digital technologies exhibit exceptional achievement within the following broad categories:

Private Sector/NGO	Public Sector
Digital Opportunity/Inclusion Award	Digital Opportunity/Inclusion Award
Smart Cities Award	Smart Cities Award
Sustainable Growth/Circular Economy Award	Sustainable Growth/Circular Economy Award
Innovative eHealth Solutions Award	Innovative eHealth Solutions Award
Public/Private Partnership Award	Public/Private Partnership Award
E-Education & Learning Award	E-Education & Learning Award
Emerging Digital Solutions Award	Startup Ecosystem Award

In addition, a *Chairman's Award* will be presented to a nominee selected from the entire pool of candidates from all award categories.

Candidates for these Awards are nominated by ICT experts from around the world who span over 80 countries/economies. The *2021 WITSA Global ICT Excellence Awards* will take place in conjunction with the November 11-14, 2021 World Congress on IT in Dhaka, Bangladesh (<https://wcit2021.org.bd/>).

Sustainable Growth/Circular Economy Award

Award #1: Individuals, academic institutions, corporations, or NGOs

Award #2: Government authorities

Award Criteria-There is an urgent need for transition to a more sustainable and circular socio-technical systems - now is the best time when we can witness how the health of the planet is connected to the human well-being and vice versa. The most accepted definition of the sustainability is defined by the Brundtland Commission in 1987; sustainability is seen as “development that meets the needs of the present without compromising the ability of future generations to meet their own needs”. Circular Economy (CE) can be defined as a regenerative system in which resource input and waste, emission, and energy leakage are minimized by slowing, closing, and narrowing material and energy loops. This can be achieved through long-lasting design, maintenance, repair, reuse, remanufacturing, refurbishing, and recycling.

As the UN’s 2030 deadline for change fast approaches, we explore what role the circular economy has to play in mitigating the impacts of climate change and how the technology industry can learn from it. It is a popular idea as it places an emphasis on designing out waste and pollution, thus keeping products in use for longer and facilitating the regeneration of natural systems. Now, as the world faces an imminent climate crisis, the IT and technology industries are starting to sit up and notice. ICT systems have influenced every aspect of modern life and the CE is no exception.

Cutting-edge technologies, such as big data, cloud computing, cyber-physical systems, internet of things, virtual and augmented reality, and blockchain, can play an integral role in the embracing of CE concepts and the rollout of CE programs by governments, organizations, and society as a whole. Many countries are advancing circular electronics initiatives to encourage longer product lifetimes, but legal, policy, and economic support must exist for an open repair environment to motivate consumers to opt for repair over replacement.

This award will recognize Individuals, academic institutions, corporations, NGOs or governments that adopt effective and innovative local, regional or global initiatives that promote local production and use, local renewable energy sources, and adoption of circular and participatory practices for circularity in digital devices, software, internet access and services.

YOUR NOMINEES (limit three nominations per award category). *Please specify whether the nominee(s) are for the private or public sector category.*

Public Sector:
Government Technology Agency (GovTech)

Project Name:
Waste Resource Management System (WRMS)

REASONS FOR NOMINATION (NOTE: It is important that you make a detailed description of the nominee and why you think the nomination is justified. The absence of a detailed summary of qualifications as they *relate* to the above-mentioned award description will make it difficult for the awards committee to make an appropriate assessment of the candidate):

The successful delivery of the Waste Resource Management System (WRMS) spells a positive move for NEA's Application Modernisation plans and brings Singapore closer towards the realisation of the national Zero-Waste 2025 blueprint.

WRMS provides a single comprehensive platform to support NEA on its waste-related policy objectives as well as related operational activities. This includes the licensing and regulation of solid waste collection and enforcement of illegal dumping.

As a single comprehensive platform integrated with five operational waste incinerator plants (IPs), it provides key capabilities to NEA such as end-to-end backend support on the management of waste disposal accounts and automation of operational processes through the addition of new features that aids in registration of disposal vehicles, online billing, data analysis and even seamless retrieval of license information. These capabilities have allowed NEA in improving overall operational efficiency in waste disposal process.

With the launch of WRMS, various key thrusts of the national zero waste masterplan were also delivered in the form of digital workflow processes. These digital workflow process included Mandatory Packaging Reporting, Mandatory Electronics Reporting and Survey on Sales of Electrical Appliances which supports the regulatory framework which is aimed to send an economic signal to producers to consider their impact on the environment.

SUPPORTING INFORMATION: Please send any supporting information to the address above, including information from candidate (i.e. excerpt from program description, web site print-out, press release, etc.)

WRMS Web Portal: <http://wrms.nea.gov.sg/>

Zero Waste MasterPlan: <https://www.towardszerowaste.gov.sg/zero-waste-masterplan/>

NEA Integrated Sustainability Report 2019-2020: <https://www.nea.gov.sg/corporate-functions/resources/publications/annual-reports>

NOMINEE CONTACT INFORMATION (for award follow up and coordination)
