Annex 1

ITU Regional Development Forum for Arab Region (RDF-ARB)
Accelerating the digital development in Arab Region

Organized by the International Telecommunication Union with the support of the

Bahraini Ministry of Transportation and Telecommunications

6-7 November 2023 -Kingdom of Bahrain

CONTRIBUTION FORM

Please note that submitted information will be presented during the RDF-ARB P2C Roundtables and

it will also be reflected on the pledging platform of the Partner 2 Connect Digital Coalition.

Once completed send to ITU-RO-ArabStates@itu.int

ORGANIZATION: the National Telecom Regulatory Authority (NTRA)

FOCAL POINT: Basma Tawfik, Manager, International Organizations, International Polices department,

basmaa@tra.gov.eg, +20 2 35344270

TITLE: Developing a national code for design and implementation smart cities and communities

DESCRIPTION OF ACTION:

NTRA developed a national code for the design and implementation smart cities and communities. The world has changed rapidly in terms of urbanization and expected that by 2050 two-thirds of the world will live in urban areas. As a result of this rapid urbanization worldwide, smart cities emerged as a significant formation of cities that help in achieving sustainable development and smart growth. With the growth in technology worldwide, and as part of the UN global sustainability goals, establishing sustainable cities is one of those global goals, and the term sustainability nowadays is very connected with establishing smart cities and future cities. In Egypt the continuous growth in population and the concentration of this population in less than 7% of the total area of the country, made the government think all the time in distributing this population in new cities and urban communities. The Egyptian government aims to increase the urban area from seven per cent to 14 percent by 2050. As a response, Egypt is planning to have 20 new smart cities on a total area of 243,600 hectares, expected to accommodate about 30 million

people in addition to providing millions of jobs. As a first step the Egyptian government currently constructing a new administrative capital as the largest smart city in the world to be the administrative capital of the state. The city is targeted to be a smart and sustainable city that uses information and communication technologies (ICTs) and other means to improve quality of life, efficiency of urban operation and services, and competitiveness, while ensuring that it meets the needs of present and future generations with respect to economic, social, environmental as well as cultural aspects. It is planned that the transfer of parliament, presidential palaces, government ministries and foreign embassies.

Sophisticated interconnectivity is one of the fundamental building blocks of new smart cities and community's development, in this regard NTRA with cooperation with different governmental entities has issued codes and guidelines for design and implement smart cites focusing on four main pillars:

• Safe city: Build the highest standards of security to ensure the safety of citizens and businesses.

• Connected city: Build a reliable, high-speed, efficient, sustainable national communication infrastructure to connect economic elements and create revenue streams.

• Integrated city: Build a unified information-sharing platform to share resources across machines, people, departments, promoting economic growth.

• Digital city: Build fully automated and customer-centric services to ensure better operation and higher rates of satisfaction.

NTRA is considering a collaboration with international stakeholders to develop a national code up to the latest state of art of technology in this field. Accordingly, NTRA approached the International Telecommunication Union for a potential collaboration in this regard.

These new smart cities, in terms of availability of services alongside with the usage of advanced technologies applied in utilities network infrastructure, IoT is the keystone that offer advanced control options, increase safety, reduce costs, as well as help solve the problem of resource depletion. Meanwhile the IoT is the mean pillar of utility monitoring, safety and security and public services. According to the approved strategic architecture of smart cities, each city will contain two operation centers first is the City Operation Center (COC) acting as the vertically integrated analytical platform responsible for analyze, store, operate utility services and public services. While the second operation center aims for managed, analyzed and operated safety and security services named by Command and Control Center (CCC). Egypt dedicated huge investments for developing new cities which considered to be smart up to the international standard such as New Administrative Capital city and New Alamein City.

In line with the country's vision 2030 initiatives, Egyptian government is willing to migrate number of current old cities and communities into smart sustainable cities that to keep pace with international development in this regard.

COUNTRIES in FOCUS: Egypt

YEARS of IMPLEMENTATION:

☐ 2023

☐ 2024

☐ 2025

RELEVANT ITU REGIONAL INITIATIVE:

☐ ARB1: Sustainable digital economy through digital transformation.

☐ ARB2: Enhancing confidence, security and privacy in the use of telecommunications/Information and communication technologies in the era of new and emerging digital technologies.

☑ ARB3: Developing digital infrastructure for smart sustainable cities and communities.

☐ ARB4: Building capacities and encouraging digital innovation, entrepreneurship and future foresight.

☐ ARB5: Developing means of digital regulation.

RELATED ITU-D PRIORITIES AS DEFINED BY THE ITU WORLD TELECOMMUNICATION DEVELOPMENT CONFERENCE 2022

☐ Affordable connectivity

☐ Digital Transformation

☑ Enabling policy and regulatory environment

☐ Resource mobilization and international cooperation

☐ Inclusive and secure telecommunications/ICTs for sustainable development

RELATED ITU PRIORITIES AS DEFINED BY ITU PLENIPOTENTIARY CONFERENCE 2022

☐ Spectrum use for space and terrestrial services.

☐ International telecommunication numbering resources.

☑ Inclusive and secure telecommunication /ICT infrastructure and services.

☐ Digital applications.

☑ Enabling environment.