Project Document
Cairo, Egypt

Project Title: **Maximizing Egypt's Resources and Capabilities through ICT (MERC-ICT)**

Project Number:

Implementing Partner: Ministry of Communications and Information Technology (MCIT)

Start Date: January 1, 2020   **End Date**: December 31, 2027   **PAC Meeting date:**

Expected Output (s): Maximizing Egypt's Resources and Capabilities through ICT (MERC ICT) to Support Egypt's Socio-economic Development

---

Brief Description:

The Project will target supporting MCIT in implementing its strategy focusing on developing the telecommunication infrastructure, creating an environment conducive to innovation and technological investment, developing specialized technological industries, and ICT offshore outsourcing industry. It will support MCIT's efforts in providing distinguished services to citizens through digitization and automation in cooperation with all governmental bodies that will increase the productivity, transparency, integrating ICT in all areas of life, achieving citizens' financial inclusion and achieving the transition to the digital society.

The Project will strive to achieve community development through provision of training and job opportunities for youth, graduates, and all citizens. It will work on empowering and integrating people with disabilities in the community through provision of special training for employment using assistive ICT applications. The Project will support developing technology parks nationwide through conducting feasibility studies and offering technical consultations for increasing the electronics industry and offshore ICT services. This will help the country to cope with the innovation and technological advancement and avail job opportunities to the communities there achieving justice in the distribution of ICT services all over Egypt.

The Project will support engaging in regional and international ICT events to share best practices on the infrastructure and policies level and to promote ICT local industry, hosting global data centers in the technology parks, and transforming Egypt into a regional digital hub that will help in brining foreign direct investments. The Project will exert efforts to strategically position Egypt's ICT potentials on the regional and international arena, opening up of new regional and international markets, which will help in raising exports and percentage of ICT contribution in the GDP. The Project will be implemented to achieve its goals through the following five main Outputs: A) Environment for Innovation and Technological Investment is Enhanced; B) Human Development and Training Programs Are Provided; C) Transformation to the Digital Society is Materialized; D) Investments and Opening up of New Regional and International Markets Are Increased; E) Egypt's Sustainable Development Strategy is Supported. The Outputs will contribute towards maximizing the benefit of Egypt's resources and capabilities through ICT for transforming to the digital society that will eventually lead to Egypt's socio-economic development.

Key Result Area:	Inclusive Growth
Start Date:	2020
End Date:	2027
Management Arrangements:	NEX

Total resources required:		30,900,000
	UNDP TRAC:	300,000
	Donor:	
	Government:	$30,000,000
	In-Kind:	
Unfunded:		600,000
Project Total:		$30,900,000

Agreed by (signatures)[1]:

Government	UNDP	Implementing Partner
H.E. Ambassador Soha Gendi Director of the Department of International Cooperation for Development Ministry of Foreign Affairs	Ms. Randa Aboul-Hosn Resident Representative United Nations Development Programme	H.E. Dr. Amr S. Talaat Minister of Communication and Information Technology Ministry of Communication and Information Technology
Date: 31 12 2019	Date:	Date:

2

Background

ICT is the main pillar and key driver for development that influences and underpins all developmental sectors in the country. The Ministry of Communications and Information technology (MCIT) strives to raise the awareness of the citizens to the benefits of ICT in cooperation with all governmental bodies and collaborating with the private sector and the civil society. Egypt ICT Sector has realized remarkable performance exceeding the most optimistic expectations throughout the last five years and during the life of the current MCIT-UNDP Project *"Enhancing Access to Knowledge for Development"*.

As a Think-tank, the project has succeeded in supporting MCIT through recruiting high-caliber project staff members, engineers of all specializations, managers and consultants through limited-period project contracts to perform specific deliverables for implementing the national strategy. This was in all areas that required high caliber staff members with rare qualifications to achieve the requested deliverables.

The project has greatly helped in establishing the foundation of the Knowledge Society that was achieved through various channels as designing and providing capacity building training programs in the area of creativity and innovation; opening new business channels for the local ICT industry; introducing the latest technologies; promoting human resources and ICT potentials in the regional and international arena; developing and raising ICT exports; engaging with countries and international organizations in regional and international ICT events; sharing and getting introduced to ICT best practices for benefitting the country on the policy and infrastructure levels.

Positive indicators achieved by the sector made a positive impact on the national economy for opening thousands of ICT direct and indict jobs for the community at large. ICT Sector achieved a growth rate that has exceeded all previous rates, which reached 12.5% during fiscal year 2016/2015. The Sector contributed with 3.5% to the GDP and Exports from offshore ICT outsourcing services reached $1.87 Billion during year 2017. Total ICT Exports amounted to $3.26 Billion. (International Data Corporation (IDC) report, Feb. 2017).

Year 2017 witnessed the opening of two new Technology Parks, one in Sadat City in Menoufia over 100 acres, and the second in the new City of Beni Suef over on an area of 50 acres. These two parks added to the two parks in Borg El Arab in Alexandria and new Assiut that were launched by end of year 2016. Therefore, the total number of Technology Parks, which have been established and operated during two years, are four Parks. The Technology Parks have become operating and functioning producing outsourcing services and electronics industry as the latest new Egyptian-made mobile (45% local components to be raised during the coming two years to become 75%). Plans are underway to establish ten Technology Parks in addition to the City of Knowledge in the new Administrative Capital City during the coming five years.

The infrastructure development was reflected on enhancing the ICT indicators. The number of Mobile subscriptions reached 101.27 Million with average annual growth rate of 11.19%. Mobile penetration reached 111.64% with average annual growth rate of 6.32%. Mobile Internet Users reached 32.79 Million with average annual growth rate of 28.53%. Mobile internet users' percentage of mobile users reached 32.38% with average annual growth rate of 2.97%. Internet Users in Egypt reached 33.70 Million with average annual growth rate of 15.82% and internet penetration percentage reached 41.20% with average annual growth rate of 3.27%. As for ADSL services, the number of Subscriptions reached 5.20 Million with average annual growth rate of 24.90%. (|MCIT Information Centre, December 2017)

Due to the special support given by MCIT to companies working in this field, the number of ICT companies reached 4,758, thousand with annual growth rate of 14.16%. The number of employees working in ICT field reached 215.44 Thousand with annual growth rate of 4.26%. ICT companies issued capital reached 45.5 Billion towards the end of June 2012. (ICT Sector, Ministry of Communications and Information Technology | Publications Department mcit.gov.eg/Upcont/MediaCenter/Features).

A number of International reports have classified Egypt as an attractive destination for foreign direct investments and offshore outsourcing services: A.T. Kearney report for 2017 ranked Egypt 1st in the Middle East and Africa and 14th globally as a destination for offshore outsourcing services; 2) Gartner global consulting firm included Egypt among the best destinations of outsourcing industry in Europe, Middle East and Africa in its report issued in July 2017; 3) Oxford British Business Group for research have confirmed that ICT sector in Egypt is witnessing a leap in employment, particularly by multinational companies to expand their investments in Egypt. Egypt ranked 14th among the 194 countries in the Global Cybersecurity Index issued by ITU in July 2017.

I. Development Challenge

The UN Sustainable Development Goals of 2030 Agenda recognizes that information and communication technology (ICT) has great potentials to accelerate human progress, bridge the digital divide, and develop knowledge societies. ICT plays a pivotal role in driving progress in all the country's developmental sectors and helps to achieve the socio-economic development. ICT Sector is the key driver for development, which underpins all developmental sectors. It positively impacts most of the Sustainable Development Goals (SDGs) set by United Nations which cover a broad range of social, economic, and environmental development issues that are interlinked and directly influenced by ICT.

"ICT empowers and builds the capacity of individuals around the world through provision of access to education, healthcare, resources, financial inclusion, and service as mobile banking, marketing, trade, social media, and lots of potentials. The world is witnessing a huge advancement in ICT, which is proving to be the main catalyst for development, the impact of which stretches far beyond the realm of the sector itself. "No country seeking real, sustainable development and progress can hope to achieve these aims without a strong ICT sector in place to drive the necessary change". Egypt's ICT 2030 Strategy" (http://www.mcit.gov.eg/ICT_Strategy).

The government is offering tremendous support to ICT as it is the key driver for development that underpins all developmental sectors in the country. It positively impacts most of the SDGs and covers a broad range of social and economic development issues that are interlinked and directly affected by ICT. MCIT targets reducing poverty though provision of direct and indirect job opportunities, increasing offshore outsourcing services and electronics industries, raising exports, and the expected maximizing of ICT contribution to GDP from current 3.5% to 8% (Ministry of Communications and Information Technology | Publications Department mcit.gov.eg/Upcont/MediaCenter/Features).

MCIT supports the digital transformation and building the "Knowledge Society" through provision of distinctive services to citizens that facilitate their quality of life. ICT influences all the developmental sectors in all areas of life. Egypt's Sustainable Development Strategy and Vision 2030 puts focus on Knowledge, Innovation and Scientific Research pillar. MCIT tries to create an innovative society producing science, technology and knowledge, within a comprehensive system ensuring the developmental value of knowledge and innovation using their outputs to face challenges and meet national objectives". (Egypt's Vision 2030).

MCIT collaborates with the Ministry of Education (MoE), Ministry of Higher Education (MoHE), Ministry of Technical Education (MoTE), to provide Quality Education through a number of eLearning and eEducation initiatives. It strives to offer fair equal chances of education and training to the communities at large and to have Gender Balance. MCIT collaborates with Ministry of Health and Population (MoHP) for achieving good-health and well-being of all citizens, which corresponds to the focus on Health, and Well-being in the UN SDGs. Various automation projects with the MoHP have been under-going and are planned to be implemented for the benefit of Egyptian citizens.

MCIT cooperates with all the governmental bodies to offer digitization and automation services. It advocates for Transparency and Social Justice in all areas of life. It collaborates with the Ministry of Justice and Public Prosecution, Supreme Constitutional Court (SCC) and Courts of Cassation to achieve justice

through law enforcement projects for criminal justice via connecting applications with police stations and criminal courts system. It ensures fair and transparent voting process in the parliamentary and presidential elections through introducing the tools and system all over the country to reinstate fairness, transparency, personal rights, and Social Justice.

Within the framework of Egypt's plan to improve the efficiency of services provided to all citizens, the sector aims at empowering People with Disabilities (PWDs) through supporting their access to knowledge and information, building their capacities and providing innovative solutions that contribute to the provision of educational and health services tailored to PWDs needs. ICT advocates gender equality and fairness in offering training and job opportunities, spreading knowledge, and giving information.

MCIT acknowledges international problems of Climate Change and implements initiatives for taking Climate Action to protect the environment. It observes climate changes and advocates for green ICT and climate action towards safe use of eWaste and saving Energy. It engages in a number of initiatives with the public entities and private sector in the area of Green ICT. It tries to leverage ICT to make business processes more energy-efficient. It raises awareness on the benefits of Green ICT, which are mainly reducing environmental impact and saving of energy, which is becoming increasingly costly. MCIT seeks to reduce the adverse environmental impacts resulting from the expansion of using ICT devices. It seeks to protect the environment from the harmful output of technologies through using the right and safe scientific methods of disposing electronic wastes. It raises the awareness of the community about Green ICT challenges and opportunities and adopts a multi-stakeholder approach to address them. It creates ways for Saving Energy through designing equipment that do not consume high-levels of energy. MCIT performs feasibility studies for developing smart cities and communities' projects, technology parks and the City of Knowledge at the new Administrative Capital City adhering to international standards for taking Climate Action towards protecting the environment.

ICT Strategy corresponds to Egypt's 2030 vision for sustainable development; MCIT strives to accelerate progress through ICT across all developmental fields. Egypt is keen to possess a competitive, balanced and diversified economy relying on innovation and knowledge and based on social justice, transparency, integrity and participation. It aims to bring about an economy characterized by a balanced and diversified ecological collaboration system investing the ingenuity of place and human resources to achieve sustainable development and to improve Egyptians' life quality.

MCIT cooperates with all governmental bodies, the private sector, civil society, international organizations, the technical and academic communities and all other relevant stakeholders to integrate ICT into their approaches for achieving socio-economic development. MCIT strives to develop the electronics industry, expand on the provision of offshore outsourcing services, and perform feasibility studies for developing Tech Parks and building factories all over the country and raising the number of local ICT companies. It provides training programs to build the capacity of the working force for coping with the dynamics of the technology advancement and satisfying the market needs. MCIT provides job opportunities and raises the working force capacity to compete both regionally and internationally for raising ICT contributions to GDP and reducing Poverty. The challenge in this project is to maximize the benefit of Egypt's human resources and capabilities through ICT for achieving the digital transformation society that will eventually lead to Egypt socio-economic development.

II. Strategy:

As a Think-tank and through provision of high-caliber staff, project managers, and engineers of all specializations, the Project will support MCIT in implementing ICT Strategy that targets the transformation to the digital society in cooperation with all sectors. It aims at providing distinguished services to citizens through the automation and digitization that contribute to combating corruption and ensure transparency and social justice. MCIT will collaborate with all governmental bodies to automate and digitize services to citizens that will accelerate the move towards the digital transformation.

Small Medium Enterprises (SMEs) will play an important role in the digital transformation initiatives through implementation of a number of technology infrastructure projects for institutions and agencies, especially in the applications related to providing education, health, energy services, and related to smart city systems management.

MCIT Strategy focuses on creating an environment conducive to innovation and technological investment. The Project will support MCIT in designing training and human development programs and promoting innovation and entrepreneurship to satisfy the labor market needs and achieve progress.

MCIT plans to develop specialized technological industries through implementing new Egypt Makes Electronics (EME) Initiative that aims to make the electronics industry one of the key drivers of economic growth and a main contributor to doubling Egyptian exports, reducing imports of electronic and electrical appliances for the domestic market, and providing hundreds of thousands of jobs for researchers, engineers, skilled technicians, and workers.

MCIT is committed to boosting financial inclusion activities and maintaining the delivery of financial services to people of all levels and ages in the society. The economic reforms currently implemented by the country will contribute to backing financial inclusion and monetary stability. The Arab initiative on financial inclusion signed during Arab Financial Inclusion Global Policy Forum held in Sharm El Sheikh, Egypt, September 2017 embodied the Arab states' awareness of the importance of financial inclusion in fostering sustainable development. The World Bank for a financial inclusion initiative with China and Mexico has selected Egypt. According to the analyses conducted by the World Bank, the Ministry of International Cooperation and Investment stated that "Egypt has the ability to bring 44 Million citizens to the formal financial sector, Egypt has the needed laws, regulations and financial and ICT infrastructure to reach this target, but it lacks financial resources to implement required reforms". ITU Secretary-General stated, "An estimated two billion adults are still without access to a bank account and yet some 1.6 billion of them have access to a mobile phone, creating the potential for eFinance access". (Egypt Today July 30, 2017).

The Project will support MCIT to achieve community development through the influence of postal services development and modernization on the financial inclusion of all citizens. The Project will support MCIT to raise the awareness of the communities to the tremendous importance of eCommerce. There is a vital need to urge people to use eMarketing to promote their industries especially in under-privileged and remote areas. This will be through various channels as transfer of payments, opening saving and current accounts, and obtaining visa issued by Egypt Post with minimal fees for performing lots of activities that could be accomplished online through the internet or at the various Postal offices spread all over the country which will in turn support the Egyptian Economy.

The Project will support MCIT in implementing the eCommerce national strategy launched at Cairo ICT in December 2017 in cooperation with the Ministry of Trade and Industry and the United Nations Conference on Trade and Development (UNCTAD). The strategy is considered the first step in developing eCommerce in Egypt as an important milestone towards achieving sustainable development and digital economy transformation. It includes a set of recommendations to support decision-makers in setting policies and to address the challenges of eCommerce in Egypt, especially in the field of logistics, transport and trade, electronic payment systems, wholesale eProcurement, etc... eCommerce is increasingly becoming important and is facilitated by improved connectivity and rapid spread of mobile phones, social media and innovations. Egypt has a consumer market of more than 90 Million people, most of whom are younger than 30 years of age and increasingly technology-knowledgeable. Internet penetration reached 41.20% in 2016/2017 implying one of the largest populations of prospective online shoppers in the Arabic-speaking world. However, due to several barriers and challenges, e-commerce has been slow to take hold, and its potential is still largely untapped. The study made some recommendations for facing challenges and solving problems of eCommerce from shared practices by developed countries in the area of logistics transportation, trading by ePayments, and wholesale purchasing through the internet.

The Project will support MCIT's aims to increase investments and opening up of new regional and international markets through covering the cost of participating in ICT meetings and conferences, sharing best practices, collaborating with countries and international organizations to formulate global alliances and highlight Egypt's ICT pivotal role in the region. It will disseminate information and organize meetings to promote Egypt's high potentials through its human resources and capabilities, and open new business channels for its local industry. The Project will support enhancing ICT indicators to measure performance and highlight its impact on Egypt's socio-economic development.

Partnership with UNDP:

The value of the partnership between MCIT and UNDP in this Project focuses on the provision of technical expertise and recruitment of high caliber staff who engage in regional and international ICT activities and various strategic alliances with countries and international organizations for implementing MCIT national strategy and promoting Egypt ICT and human resources potentials. The high caliber project managers, staff and consultants are hired on limited period contracts to perform specific deliverables towards achieving the project outputs. The project will hire appropriate experienced staff members who possess specific and rare qualifications to carry out implementing national initiatives involving new technological trends. They are the type of staff who manage to cope with the rapidly changing technology development and environment. The project does not only rely on long-term governmental employees since it is not possible to appoint project staff members on long-term contracts in the first place, but the they are contracted on fixed-term contracts. Some governmental employees could give percentage of their time to the project if they possess the technical, practical, and international skills, which are required for implementing the project.

The Project team members participate in ICT regional and international ICT activities for sharing best practices, engaging with international organizations, forming partnerships and strategic alliances, branding Egypt's potentials, and influencing the ICT agenda. Due to the partnership with UNDP, the Egyptian role with international organizations has been developed over years to be one of the countries that have an influence on discussions and decisions. Having memberships in some organizations pushes forward the development process of ICT in Egypt on the level of infrastructure or those of policies and projects. MCIT has always played an active role in IGF, ITU and other meetings. Working groups got engaged in political discussions for the role of these bodies in setting international telecommunication policies. This gives MCIT the opportunity to share best practices with other member countries and ensure that Egypt follows ICT international development standards. The level of participation in regional and international activities should be maintained during the life of the new project for the benefit of Egypt's ICT development and leading the regional agenda.

III. Results and Partnerships

Expected Results

The Project will support MCIT in reducing human poverty through increasing the local industry and exports, providing direct and indirect ICT job opportunities, maximizing ICT contribution to GDP, coping with ICT international advancement and innovation; competing on the regional and international level; and improving the services in all areas of life. It supports ICT sector, which is a dynamic force that is always progressing. Therefore, it is vital to cope with the advancement and changes and have ICT integrated in all areas of daily life. The challenge is to maximize the benefit of Egypt's resources and capabilities through ICT to support Egypt's socio-economic development through the implementation of the following five major outputs and their activities as follows:

Output A: The Environment for Innovation and Technological Investment is Created

ICT infrastructure is the foundation and main pillar of ICT development and Egypt's sustainable development strategy at large, so MCIT places the infrastructure development and enabling the environment for innovation and technological investment on top of its agenda. ICT is dynamic force which is always

progressing and the challenge is to cope with the innovation and international advancement and have ICT integrated in all areas of life. After introducing the 4G mobile services, MCIT is now researching and studying to extend 5G mobile services to the market and to improve all the networks and services to fit the new technology. The Project will support MCIT to enhance the infrastructure, improve the networking and services all over the country, benefit from Egypt's geographical location to host huge global big data centers that will improve the services and attract foreign investment.

A.1. Enhance ICT Infrastructure to Cope with Global ICT Development

Egypt has succeeded in launching 4G mobile services in September 2017 and introducing Telecom Egypt as the 4th mobile operator. 4G technology for mobile services would significantly contribute to increasing Internet speeds, improving the quality of the current service and introducing new services. The entry of Telecom Egypt with 80% shares owned by the government as a 4th service provider has created healthy competition that would benefit citizens in terms of quality of services and prices provided. The 3G networks allowed people to stream video, download music and files, and surf the web at average download speeds from 600Kb/s to 1.4Mb/s. With 4G, the same will be achieved, but would be faster around 5-7 times faster than existing 3G networks. 2G technology was suitable for making calls and sending text messages while 3G made it possible to access the Internet more effectively through mobile phones and 4G would be ideally suited for services which demand more capacity like video streaming, mapping and social networking sites. Currently, Egypt has a strong telecommunications infrastructure (Fiber optics networks currently cover 36% and 64% TDM of the country). The Project will support MCIT's work overseeing the enhancement of the networking and infrastructure on the national level to raise the fiber optics networks percentage through Telecom Egypt to reach 75% by Year 2022.

The Project members will support MCIT developing the appropriate legislative framework for cybersecurity and combating cybercrimes to protect privacy and digital identity. It will provide required skills for addressing the growing global challenge of cybersecurity due to the evolution of global cyberattacks that require qualified and trained calibers. It will support developing a legislative frame and protection systems to ensure citizens' rights to privacy and security, thereby building confidence among citizens towards digital transformation.

A.2. Use Cloud Computing Services & Host Global Huge Data Centers to Transform Egypt into a Regional Digital Hub

MCIT provides governmental bodies with outsourced hosting services through virtual infrastructure technology connecting employees to Cloud Computing Centers hosted at Link, TeData, and Microsoft. It implements initiatives to raise efficiency, productivity & transparency at the governmental bodies. It manages Increasing Productivity initiative, which provides employees with MS Exchange for email addresses with strong capacity of 5 GB for each employee; MS Share Points for internal usage, archiving and transfer of file; and MS Lync for using Video Conferences within ministries and entities and with other parties hosted at Link Egypt. It provides ministries and governmental bodies with Hosting Services at TeData; and provide Ministries & governmental bodies with Cloud Computing Services with their servers and used applications through Microsoft.

The Project will support MCIT in its plans to expand on Cloud Computing technology that is very much needed for developing counties as Egypt to save on time, effort, and cost of services benefitting all the governmental bodies and the market at large. The Project will support MCIT Information Infrastructure Sector to build its own local Cloud Computing Center that would be based in the Smart Village (Cloud Enterprise) over the coming 3 years. All governmental ministries and their automated systems would be housed at the new Cloud Computing Center as an important step towards the Digital Transformation.

Through the provision of high-caliber technical guidance and consultancies, the Project will support MCIT's very promising plans to host ten global big data centers to make Egypt a hub for giant and big data centers. The Project will cover the travel cost of technical engineers to make site visits of huge data centers for the

aim of transferring the technology to Egypt. MCIT will benefit from Egypt's geographical competitive advantages (17 submarine cables passing through its water connecting Egypt with the rest of the world, 2nd on the world) to attract foreign investment, reduce latency in the internet positively influencing the whole region. The submarine cables will not only pass through the country, but Egypt will be transformed into landing stations (hosting hotels). The Project will support MCIT to implement agreements sealed with a number of international companies, specialized in the establishment and management of big data clusters, to establish a presence in the Egyptian market. Egypt would be able to host big Clouds such as Amazon or Google to have their data in Egypt with their backups in the US. Plans were set to have the first global huge data center by world measures to be hosted in Borg El Arab.

A.3. Develop Technology Parks and Provide Technical Consultations to Expand on ICT Industry and Services

Egypt is considered a primary destination for outsourcing IT services to Europe, Middle East and Africa region. MCIT seeks to create an environment conducive to enhancing investment and administering justice in the technological development nationwide, not only in Cairo through establishment of Tech Parks in different governorates. It aims at creating a series of specialized business and Tech Parks across Egypt located near universities, with access to major national roads, rail networks and principal international airports. A whole chapter focused on Tech Parks in the investment law to provide facilities and incentives for investors and this provides an excellent opportunity for SMEs to flourish.

The Project will support provision of technical staff for performing feasibility studies developing Technology Parks in different governorates including 10th of Ramadan, New Aswan, New Mansoura and others. The objective of the Technology Parks is to decentralize ICT services away from the capital, reduce migration by offering direct and indirect jobs to the young Egyptian across different fields. This corresponds to the Project aim for contributing to the development of disadvantaged and marginalized areas by providing services to Egyptian citizens, providing jobs, and reducing human poverty.

The Project will support MCIT plans to perform feasibility studies for developing smart and sustainable cities adhering to international standards, especially in the new Tech Parks. Support will be extended to implement plans for development of smart communities, including provision of the infrastructure and new technologies in the new Administrative Capital project and establishing the City of Knowledge within the Administrative Capital. It will support the technology parks across Egypt to help reduce migration to the capital and make a reverse migration availing job opportunities to the communities there. It will establish smart cities that rely on technological intelligence and electronically control the work systems of buildings. It will implement this system in the new Administrative Capital and new cities that are planned to be established.

Through the provision of technical staff members, the Project will support MCIT to research on Internet of Things Technology (IoT) that allows objects to be sensed or controlled remotely across existing network infrastructure. This creates opportunities for more direct integration of the physical world into computer-based systems resulting in improved efficiency, accuracy and economic benefit in addition to reduced human intervention. Egypt IoT Challenge is a nationwide program for senior university students, start-ups, SMEs that have innovative ideas in the area of IoT focused on Smart Logistics and Smart Cities. The Project will give focus on IoT technology as one of the key industries and future industry following the Global Conference on IoT, Borg El Arab, and December 2017. It will support MCIT's work in raising the awareness to the importance of IoT, participating in meetings to transfer the technology, organizing meetings with companies for motivating and encouraging them to expand in IoT applications industry and raise their exports to foreign markets.

Output B. Human Development and Training Programs are Provided

MCIT Human Resources and Training Sector at MCIT work hand in hand with other national projects to make available all the resources and to develop the skills and knowledge at an affordable and flexible way

to meet the needs of the future. They boost the skills and knowledge of graduates who might lack the ICT knowledge needed for the marketplace despite their specialized education. This will be achieved through various training courses, scholarships, and initiatives. It is fact that the rate of employment increases dramatically through the acquisition of ICT knowledge and skills. The country relies on its abundant and multilingual pool of talents, competitive cost of operations, strategic geographic location and constant support to investors in setting up and developing their business, helping with incorporation, offering incentives, and facilitating work permits and technical approvals. The idea is not in transforming youth into computer programmers, but in enhancing their educational and cultural backgrounds. They will be taught how to make technology serve their needs and provide solutions for their problems. This output also enhances the skills and build the capacity of the governmental staff members.

B.1. Design Training and Human Development Programs to Satisfy the Labour Market Needs

Due to the dramatic increase and development of the ICT sector in Egypt, it is expected to create 4.5 million direct and indirect job opportunities through ICT in the coming three years. The Project will support MCIT in developing various programs to train Egyptian youth and qualify them to use the latest technologies in local and foreign markets. The Project will support MCIT to implement training programs in cooperation with numerous training institutes to fully meet the needs of the labour market. It will provide comprehensive capacity building programs based on real-world experience of a broad-wide curriculum that includes Communications Courses, Software Development Courses, Process Improvement Courses, eLearning Courses, diplomas, etc. The Project supports MCIT through provision of high caliber project staff members from academia and covers their travel to participate in eEducation and eLearning international meetings. They share best practices and collaborate with MCIT affiliates as TIEC/ITIDA, ITI, NTI, and eLCC to design courses that will help in developing efficient and expert calibres who could provide more potential to the Egyptian community. This reflects understanding of the market requirements and how useful they are in building the capacity of Egyptians and increasing their competitive advantages.

The Project will support ICT for Women Initiative' which targets supporting females and empowering them to use ICT in all aspects of life. The initiative will benefit from females' abilities join ICT filed and help them to overcome challenges they are facing. This will be done through organizing conferences and workshops in different governorates to disseminate the knowledge about ICT for Women portal and raise the awareness to its different services; build the capacity of the workshop attendees in entrepreneurship and technology; present successful role-models who have made their success through use of ICT to be inspired by their stories. The conferences and workshops will target female college students and young entrepreneurs. The idea behind the conferences/workshops is to foster interaction with the society to increase awareness concerning enabling females in ICT field. It also aims at conducting periodical awareness and capacity building visits to the Egyptian governorates in coordination with different concerned entities such as National Council for Women (NCW). It will collaborate with international organizations and multi-national companies which give special attention to women empowerment and progress through their CSR and other activities such as UNDP, USAID, Telecom Egypt, Microsoft, public universities, youth centers, etc. with the aim of reaching out to the largest target groups of female students and graduates.

The Project will cover partial and full financial cost of training programs, scholarships, and competitions offered through the Ministry of International Cooperation to MCIT technical teams and employees focusing on their capacity building in different areas. MCIT Technical Team needs to obtain expertise in building and hosting huge global data centers running by multinational companies as DEL EMC, CISCO and IBM to be acquainted with the best capabilities, share practices of the operation problems encountered and how to overcome them. The obtained experience will be used as MCIT will provide and offer consultations for some big national projects relying on the Big Data Centers in its infrastructure. They need to learn new technological trends as related to digital TV and other technologies to benefit the local market and open new market opportunities for the local industry in Africa. The Project will support implementing the coming MCIT collaboration with State Information Services Agency, TV and the Radio and Television Union (ERTU) to document and digitize the content and create live programs through the website. The

work will take around two years availing live broadcast of television and radio on the Internet and will help enriching the digital content.

B.2. Promote Innovation and Entrepreneurship Programs to Achieve Progress

As a Think-tank, the Project will support MCIT in implementing the "Next Technology Leader" initiative, which aims to build capacity of young calibers on the latest information, communications and electronics technologies. MCIT will cooperate with its affiliates as TIEC/ITIDA in establishing integral, practical and high-quality learning ecosystem, centered on the learner and supported by a distinctive content. The content is prepared through the collaborative efforts of top universities and leading companies and is made available on globally leading Massive Open Online Courses (MOOC) platforms. NTL is an initiative to qualify Egyptian youth in the ICT field. This in turn helps increasing the competitiveness of local ICT companies by facilitating their training and capacity building and supporting job creation and business opportunities. The Initiative targets senior undergraduate students, graduates, university staff, entrepreneurs and professionals through availing online courses in several areas, including data science, machine learning, IoT, entrepreneurship, programming, and strategic management and innovation. It is expected to have 5000 students to graduate annually through this initiative.

Through project staff members working on eEducation and eLearning, the project will support the collaboration with MoE in implementing "Future Programmers Program" to train school students on the latest technologies and the basics of programming. This will also include implementation of capacity-building activities through cooperation between MCIT, MoE, and Ministry of Technical Education for training 6,000 students from third preparatory and first secondary school grades from all Egyptian governorates. The students will be trained on 1st Phase of Programming Languages through eLearning platforms and research groups to serve as the nucleus of Future Technology Pioneers of Qualified Programmers.

The Project will support the provision of project team members overseeing the International Olympiad in Informatics (IOI) annual competition, the local preparation for it, and travel of four contestants and supervisor to join the competition. It is in the field of computer algorithms and methods of systematic solution. Participants are presented with a series of questions and problems to solve, based on the systematic thinking and use of the basic principles of computer algorithms where they put steps and methods of solutions and write programs necessary to solve problems. The aim of the competition is to encourage Egyptian students to enter the IT field. Such competition represents an occasion for talented students worldwide to exchange scientific and cultural expertise.

B.3. Implement Programs and Initiatives to Empower and Integrate PWDs in the Community

People with Disabilities (PWDs) represent around 12% of the entire Egypt population, which is around 12 Million. Through provision of high-caliber project staff members, the Project supports offering various initiatives to empower PWDs and integrate them into the society as an important category of Egyptian citizens and active members who contribute effectively in the working force and in increasing the national economy. They will implement programs and initiatives to integrate and empower PWDs using ICTs as one of the main pillars of ICT sector strategy to achieve equality in offering services to all the citizens all over the country. The Project will support MCIT in collaborating with various governmental and non-governmental organizations along with local and multinational ICT companies.

Since Egypt is in dire need for all efforts and energies of youth to advance the work cycle, the Project support to MCIT's initiatives play a major and effective role in enhancing PWD's skills. These endeavors come within the framework of implementing priorities identified in MCIT strategy focusing on developing citizens' skills through ICT to keep pace with updates in the labor market requirements and investment in human resources. The Project supports MCIT in assessing needs, computer devices, special ICT programs and applications for the physically, hearing/talking, and visually impaired. They collaborate with the civil

society institutions, local ICT companies, and MNC within their CSR, and governmental bodies to implement the different initiatives.

As a Think-tank, the Project will support the Center for PWDs distant learning through getting the best interactive education platforms for graduates to receive accredited certificates in global collaboration with leading companies and major universities in the world such as Harvard, Stanford etc. It will support MCIT to implement a number of projects in the field of assistive technologies for PWDs under *Tamkeen* annual competition in software and mobile applications development to support and integrate PWDs into the society. The Project will support contribution in a number of projects for facilitating educational process for PWDs such as the eLearning project for children with cognitive disabilities aimed to transform educational curricula to interactive to help increase the cognitive abilities of these children. This is in addition to providing remote training to people with different disabilities.

The Project covers time and trips of project staff members to various governorates to identity needs for implementing the Telemedicine Project in cooperation with MoHP to develop health services and receive better medical services for citizens in poor, marginalized and most vulnerable areas. The services are provided by senior professors and consultants in major hospitals without the burden of moving from villages to other places. The Project staff members identify needs and provide the networking and linking of the villages' PHC units with hospitals via certain devices that perform a number of tasks such as measuring blood pressure and heart rate and diagnosing dermatologic diseases and others without the need for performing an examination.

Output C: Transformation to the Digital Society is Materialized

MCIT strives to promote the development of the ICT infrastructure and digital services of governmental bodies as one of its key priorities for achieving socio-economic development. Activities on this track aim to enhance the performance of ministries and other governmental bodies and to raise the quality and efficiency of the services they provide to the public by improving the work environment, providing support for decision-making and finding solutions to issues of concern to the community. With a population rate of 96,728,194 projected to reach 98,708,983 in the beginning of Year 2019, automated services offered by all governmental bodies have become a dire need for the Egyptian citizens. The exerted efforts in automation of services will reflect in a high demand for more eServices coupled with consumers' appetite for a higher demand in using computers and smart phones. This will be much reflected in the indicators for using mobiles and broadband services. The rate of Internet users is expected to be raised tremendously as much as the people find solutions for their problems through the internet saving on time, cost and effort.

C.1. Provide Automation Services to Accelerate the Digital Transformation Process

The Project will provide MCIT Information infrastructure sector with high-caliber engineers to implement a number of projects and initiatives in cooperation with all the ministries in the framework of the quest for digital society transformation and increasing the efficiency of the governmental services. They support all the governmental bodies in performing automation of services for the benefit of Egyptian citizens. They automate work cycles to improve the efficiency of services provided to citizens and to combat corruption. They will collaborate with Ministry of Investment (MoI) represented by General Authority for Investment (GAFI) for automating services through adopting "cashless and paperless" logo providing e-payment channels, and applying e-signature services.

The Project staff members will collaborate with Ministry of Housing, Utilities and Urban Development; Urban Communities Authority NUCA and Mortgage Finance Fund (MFF) to offer public services through the portal that allows citizens to submit requests for support planning to automate registration cycle for transparency and accelerating work. Services will be offered for Egyptians expats through "Beit Al Watan" and other sub websites linked as Dar Misr for medium-income housing and for social housing (US$6 Billion return were provided in first three-phases, around 18,000 and 3,500 units were offered to Expats during last two years of the current and terminating project).

The project will support implementing the signed agreement with the Supreme Constitutional Court (SCC) September 2017 to develop and automate electronic transactions within SCC for circulating judicial proceedings, have all judgments and lawsuits available allowing Court's members to access the files of all lawsuits in all their phases. A new service was launched to be implemented to communicate with lawyers and citizens automatically by email and inform them of all stages and notifications of lawsuits, which will help, achieve transparency and social justice. The Project staff members support automation of 110 notarization offices nationwide to better serve the citizens replacing manual journals and reducing service time on average from 40 to 10 minutes.

The project staff members will oversee implementing 2nd phase of the Central Auditing Organization (CAO) work to develop and upgrade the system over three years to help in modernizing and improving work performance using ICT as an effective tool in eliminating corruption and achieving desired social justice. The Project supports MCIT to achieve the digital economy with ICT tools to provide prosperity, freedom and social equity. It tries to enable the development of a knowledge-based society and a strong digital economy relying on equitable and affordable access to knowledge; digital identity and rights; and the development of a competitive, innovative national ICT industry.

C.2. Digitize Materials, Create Websites/Portals to Spread Knowledge and Increase Use of Internet

The Project will support MCIT through provision of high-caliber software engineers to oversee the creation of website/portals for governmental bodies, which need archiving, and digitization to act as windows for spreading information and knowledge and serve all citizens. They will act as a gateway for increasing use of computers and the internet among all levels of society in all areas of life and a way towards building the Knowledge Society. Support will be offered to digitize the General Authority for Investment (GAFI) documents and all companies' files. This will facilitate the investment process to attract foreign direct investments to Egypt.

The Project staff members will collaborate with the State Information Services Agency, TV and the Radio and Television Union (ERTU) to document and digitize the content and create live programs through the website in a project that will take around two years availing live broadcast of television and radio on the Internet for enriching the digital content. The Project staff member will collaborate with the Ministry of Antiquities to archive the Egyptian monuments and ancient history of Egypt in a project that will take around three years to be implemented.

The Project staff members collaborate with the Ministry of Tourism and Egyptian Tourism Authority to implement projects for promotion of Egypt's tourist attractions divided according to the wishes and desires of the tourist as a new trend (adventurous tourism, cultural tourism, entertaining and recreational tourism, romantic tourism, religious tourism, spiritual, medical tourism, sea and sun, and water activities). The Project staff members will design several tools for promoting tourism in Egypt as using social media, an electronic library for the Egyptian Authority for Tourism, mobile applications to help the tourists plan the trip before coming to Egypt and their visits to know about the surrounding tourist destinations.

This output also promotes the work of CultNat in promoting the documentation of Arabic and cultural heritage regionally and internationally. The digitization work will eventually increase the Arabic eContent in the Internet and maximize use of the computers and the internet by the Egyptian citizens at all levels.

C.3. Develop Financial Inclusion for Citizens and Support Implementing "Life with Dignity" National Initiative

Digital financial services (DFS) offer great potential to meet the financial needs of poor and unbanked consumers. Using agents and digital channels for financial transactions can lower costs significantly compared with similar transactions conducted at physical branches of financial service providers. As technology continues to develop, opportunities to harness innovation for financial inclusion increase.

eCommerce is increasingly becoming important and is facilitated by improved connectivity and rapid spread of mobile phones, social media and innovations. However, there are still lots of challenges, barriers which made eCommerce slow to take hold, and its potential is still largely untapped. The Project will support MCIT in facing the challenges and solving problems from shared practices by developed countries in the area of logistics transportation, trading by ePayments, and wholesale purchasing through the internet.

The Project will support MCIT in implementing the Arab initiative on financial inclusion signed during the Arab Financial Inclusion Global Policy Forum held in Sharm El Sheikh, Egypt, and September 2017, which raised the awareness to the importance of financial inclusion in fostering sustainable development. The Project staff members will support MCIT's work in raising the awareness of the communities to the tremendous importance of eCommerce and ePayment. Low-middle income people should be made aware of the new services offered by Egypt Post and modernization of offices that have attracted more people to use it. It is easy and quick now to open accounts at Egypt Postal offices with minimal deposit and requirements. The citizens should be urged to open saving and current accounts at Egypt Post and get visas issued with minimal fees. They could also accomplish money orders at the various Postal offices spread across the country to minimize cost of transportation and risks of carrying money. The people will be encouraged to make use of the Postal Offices extended all over the country to make financial transactions. There is a vital need to urge people to use eMarketing to promote their industries especially in under-privileged and remote areas. The rising number of money orders, saving accounts, and current accounts will be the indicators of the financial inclusion that started to widespread all over Egypt and among people of all levels and ages which will in turn support the Egyptian Economy.

The Project will support MCIT in the coordination with different governmental and non-governmental institutions to implement the national initiative "Life with Dignity" for the Egyptian citizens, especially the most-needy groups, launched on January 2nd, 2019 with the start of the new year. MCIT will coordinate with its various sectors to explore how best to participate in the initiative. It will mainly coordinate efforts with ENPO to play a major role in the initiative for its dealing with all citizens including those belonging to the most-needy group. MCIT will also coordinate efforts with the affiliate institutions as ITI, NTI and the civil societies to provide training opportunities for the most-needy youth with the main objective of creating jobs. This would be a required contribution to the Egyptian citizen to ease the side effects of the country's economic reforms. MCIT will cooperate with the Ministry of Social Solidarity, Ministry of Health and Population, Ministry of Education, and other governmental and non-governmental bodies to support implementing the national initiative for the provision of a decent and dignified life to the most-needy social groups especially in deprived and remote areas starting from year 2019. The initiative would touch different tracks that would directly affect the welfare of the Egyptian citizens and have a positive impact for the socio-economic development of the country at large.

Output D. Investments and Opening up of New Regional & International Markets are Increased

MCIT will continue engaging with international ICT organizations and with countries on the regional and international level mainly for positioning and branding Egypt ICT potentials, sharing best practices with the aim of opening new channels of cooperation and creating business opportunities for the local ICT industry in Egypt and raising the ICT exports to global markets. Egypt has become one of the best promising countries in offering various ICT outsourcing services, MCIT tries to attract foreign companies and organizations to invest in the Egyptian market and serve their clients around the world from Egypt. MCIT engages in global alliances with countries and ICT international organizations to form partnerships and share expertise for supporting the implementation of the national ICT strategy. MCIT plays an important role in setting the regional agenda for ICT, which is an instrumental role that it has played in regional and international conferences, and working groups. It will build on recent developments in the region and special nature of the sector as a model in terms of growth and integration in the international community. Either MCIT is a member in a number of international organizations, mainly concerned with ICT or those undertaking activities related to the field. The Egyptian role in these organizations has developed over years to become one of the countries that have an influence on their discussions and decisions. In addition, having

memberships in these organizations pushes forward the development process of ICT in Egypt, whether on the level of infrastructure or those of policies and projects.

D. 1. Partner with Countries & International Organizations to Highlight Egypt's ICT Pivotal Role

MCIT has sought to strengthen cooperation with a number of countries belonging to different regions to benefit from their expertise in and share Egypt's best practices emphasizing its leadership on the Arab and African levels. The MCIT international relations strategy focuses on three directions: 1) Acquiring the required skills for the electronics industry; 2) opening the local market to foreign direct investment, especially in the light of the new Tech Parks established and developed all over Egypt; and 3) strengthening bilateral cooperation in the area of capacity building. MCIT has exerted many efforts to emphasize the high potentials of the Egyptian ICT sector in the Arab and African regional fora. It participated in a number of meetings of the Arab and African Groups confirming the Egyptian leadership and the strength of the sector and its readiness for regional and international cooperation. A number of initiatives and projects were proposed to play its leading role in the region.

The Project will support MCIT through provision of high-caliber staff with international experience to implement the signed MoUs with a number of countries to acquire more skills that benefit the Egyptian ICT sector and to share Egyptian's expertise with these countries for exporting ICT services. The Project will cover the travel cost to participate in regional and international ICT events to engage with international organizations as ITU, OECD, WTO and others to influence political discussions due to the role of these bodies in setting international telecommunication policies and to ensure that Egypt follows the sector's international development standards. Since the participation in international meetings ensures that Egypt can guarantee setting policies and international decisions in a way that secures the country's interests, the project supports missions to participate in the international conferences and events. The Project will support maximizing the strategic partnerships with international companies and the benefit from their expertise and investments, especially in technology development within the framework of the State's strategy to adopt policies and tools that support the transformation into the digital society.

D.2. Disseminate Information & Organize Meetings to Promote Egypt's Potentials and Open New Business Channels

The Project will support MCIT through provision of high-caliber staff members with international experience to disseminate information and promote best practices especially in the numerous outsourcing export services to the international arena. This will be achieved through taking part in international and regional exhibitions and sending trade missions to raise the awareness of Egypt's competitiveness in this domain. The offered services include the newly established technology parks all over Egypt in Assiut, Beni Suef, Borg El Arab, Sadat City. They offer tremendous amount of ICT offshore outsourcing services (contact centers, technical support through BPO and KPO, software applications development, Arabization programs, network administration, etc... Egypt has great potentials for outsourcing ICT industry due to having thousands of graduates and with high unemployment rate mastering different foreign language, and having the latest technological trends. The enabling environment specially exists in the Technology Parks in Maadi, Assiut, Borg El Arab, Beni Suef, Sadat City and all over the country. It is expected that more visibility for the role of MCIT in driving the ICT evolution in Egypt will take place in different regional and international meetings.

The Project financial covers MCIT's means of disseminating information that include books, brochures, non-printed materials, meetings, etc. It aims to communicate MCIT's efforts and activities to the audience, keeping the public informed of the performance and achievements, and outlining targets for the year ahead and beyond. The strategic aim of MCIT is to help maintain and increase public confidence, which is a key target and hence publications help in achieving this aim. MCIT's strong website is regularly maintained by experienced project staff members to help mainstream live events and all types of information. There is also the channel of Media through which MCIT provides coverage of all events and publishes press releases covering all sorts of information related to the events, which are posted electronically on the spot.

The Project will support hosting ITU 2019 <u>World Radio-communication Conference 2019 (WRC-19)</u> during the second year of the project on October 28, 2019 to November 22, 2019 that will take place in Sharm El Sheikh and the project staff member will perform all the required work in preparing for the conference which is one of the most important technical conferences organized by ITU.

Through UNDP expertise and the Project's support, MCIT will seek the utilization of international expertise of ICT organizations or individual consultants to conduct studies with the aim of enhancing Egypt's position regionally and internationally. MCIT will draw on the experience of international experts and consultants in addressing different issues related to formulating and implementing policies and new international trends. The Project will support MCIT to disseminate knowledge about ICT development through publications, meetings, conferences, research work, and CultNat documentation of cultural and natural heritage.

D.3. Enhance ICT Indicators to Measure Performance and Highlight Impact on Development

ICT is recognized as an important enabler for national economic and social development and for strengthening the country's competitiveness. Therefore, MCIT develops a series of indicators for Measuring ICT Basic, Infrastructure, Economic, and Household Indicators according to the international standards set by ITU. The Project will financially cover MCIT missions to join all the international meetings related to the ICT Indicators. MCIT Information Centre will be introduced to the latest indicators by ITU and different methodologies for measuring professional and technical requirements, data accessibility and ways to protect privacy, challenges, transforming latest technology to economic development. They will discuss and amend ITU decisions related to measuring ICT Indicators affecting countries as Egypt to develop methodologies used in measuring indicators to reflect development every year not every four years. The Project will support MCIT Information Centre's aims to enhance ICT indicators to fit the international standards and expand on the indicators to cover all areas of development.

Output E. Egypt's Sustainable Development Strategy is Supported

There is a big challenge for ICT to play its leading role in supporting Egypt's SDGs 2030 Strategy and Vision focusing on the important Economic, Social, and Environment Pillars as main priorities for achieving socio-economic development. Egypt's Sustainable Development Strategy and Vision 2030, highlights Knowledge, Innovation and Scientific Research as one of its important pillars and calls for creating an innovative society producing science, technology and knowledge, within a comprehensive system ensuring the developmental value of knowledge and innovation using their outputs to face challenges and meet national objectives". (Egypt's Vision 2030).

The Project will support MCIT towards achieving the SDGs through offering a tremendous new growth strategy for businesses that will help build trust with society and broad-based prosperity. The report, by the Business and Sustainable Development Commission, states that pursuing the SDGs would open up markets in new commercial opportunities. By investing to advance the SDGs, investors and businesses are becoming agents of change and economic opportunity, playing an ever more important role in contributing to a more equitable and inclusive society. According to the *Better Business, Better World* report, achieving the SDGs will create $12 trillion of new market opportunities in food and agriculture, cities, energy and materials, and health and well-being, in addition to creating 380 million jobs, 90 percent of which would be in developing countries. According to UNCTAD, at current levels of investment in SDG-relevant sectors, developing countries alone face an annual gap of $2.5 trillion.

E.1. Raise Percentage of ICT Contribution in the GDP and Engage ICT in Incorporating & Mainstreaming SDG into the Core Business Operations

The Project will support MCIT in its efforts to increase the contribution of ICT sector to GDP from 3.5% to 8%, and increase the technological exports from $3.25 billion to $20 billion by year 2025 (increase exports to $5 Billion in 1st phase). MCIT will exert efforts to provide about 4.5 million direct and indirect job

opportunities. The Project will support MCIT to oversee implementing Egypt Makes Electronics (EME) initiative to make electronics industry one of the key factors for Egyptian economy growth and main contributor to doubling Egyptian exports. EME initiative will aim at reducing imports of electronic and electrical appliances for the domestic market and providing hundreds of thousands of jobs for researchers, engineers, skilled technicians, and workers. The Project will support MCIT in promoting technological industries through establishing electronics factories, hosting global big data centers and developing technology parks in addition to the City of Knowledge in the New Administrative Capital. The Technology Parks will expand on provision of offshore outsourcing services with aim to raise the revenue from $1.87 Billion to $3 Billon and provide 750,000 job opportunities.

Through promotional activities in the regional and international arena, the Project will support MCIT to motivate local ICT companies to increase their industries and provide about 4.5 million direct and indirect job opportunities (currently providing around half a million ICT direct and indirect jobs). The Project will support MCIT through its different outputs to increase its contribution to GDP from 3.5% to 8% and to increase the technological exports from $3.25 billion to $20 billion by 2025. This will be achieved through promoting the increase of investment opportunities in Egypt and the opening up of new regional and international markets. As a Think-tank, the Project supports MCIT to perform feasibility studies for developing the technology parks throughout the country; support innovation and entrepreneurship; disseminate new technology; build youth creative capabilities and attract foreign investment. It will support the missions to promote Egypt's ICT and Human Resources potentials in the international arena to help opening new business channels for the local ICT industry, increasing the electronics industry, raising offshore outsourcing services; and raising ICT Exports.

Through provision of high-caliber staff with international experience, the Project will support MCIT in benefiting from the international reports and doing promotional work. They will promote Egypt's rank as an attractive destination for foreign direct investments and offshore outsourcing services. They will work on enhancing Egypt's rank in A.T. Kearney 2017 report being 1st in the Middle East and Africa and 14th globally as a destination for offshore outsourcing services. A lot of work will be exerted to highlight Egypt's rank among the best destinations of outsourcing industry in Europe, Middle East and Africa (Gartner report, July 2017). The Central Bank's decision to liberalize exchange rate offers promising investment opportunities for Egypt as the labor cost of operation in the ICT field would aggressively compete in the global market, especially in the field of outsourcing services. The Project will support MCIT's promotion of offered low-cost offshore outsourcing industry and electronics industry that will compete regionally and internationally.

The Project will work with UNDP towards achieving SDG Impact output that spells out the need for the investors of all sizes to adapt and transform their core business strategies to deliver financial, social and environmental performance, and to use the SDGs as the basis for engaging in untapped markets, generating investments in developing countries and navigating risks and opportunities. As one of the largest catalysts to GDP growth, and as one of the integral added-value sectors in economy, but also the most progressive and dynamic, engaging the ICT sector is key. In this output, therefore, the ICT sector will be engaged as a pilot, demonstrating to others the value of incorporating SDGs into their core operations without a sacrifice to their profits: doing good while doing well.

E.2. Enhance eEducation and eHealth Applications to Ensure Quality Education and Good Health

ICT strives to offer fair equal chances of education and training to the communities at large. The Project will support MCIT through provision of specialized staff members at the Information Infrastructure Sector to collaborate with all developmental sectors as the Ministry of Education and Ministry of Higher Education to provide Quality Education. They will implement eAssessment Project for facilitating faculty members' preparation of exams, and provision of pre-test questions in ePortal; Academic Portfolio for University Staff to support decision makers in selection of leaders, improve classification of universities, and research and studies. They will archive Ain Shams Faculty of Medicine scientific papers and files to facilitate searching info and retrieving files; Quality Assessment System of Educational Effectiveness and Institutional

Accreditation of Helwan University measuring performance & efficiency of practices. They will help prepare calibers to acquire the expertise necessary to develop the ICT industry, and enhance young people creativity and innovation skills.

The team will work on enhancing Vocational or Technical Schools work for producing a caliber that is needed for building new Egypt. They will support creating a smart and electronic learning system that fits the Arab world, including means of academic accreditation for eLearning programs and quality management systems in providing the educational process, and developing digital content. The Project team will form a working group of specialists in the Arab World in the field of technological innovation and the development of industry and eLearning to develop a framework of cooperation, operational plans and performance indicators to be documented and implemented for the aim of building a sustainable business model for integrated learning to be exported to the Arab world.

The Project will support MCIT in helping to achieve citizen's good health and well-being through provision of technical team. They will cooperate with the Ministry of Health and Population to ensure citizen's Good Health and Wellbeing corresponding to Egypt's 2030 Vision for SDGs. They will perform a number of automation projects with the Ministry of Health and Population as scaling-up of the National Network for Government Expenses Treatment project; ICU information System Using Mobile inside public hospitals for supporting patients in finding available places at suitable geographically located areas (available now only in Greater Cairo); implementing Lab Information System project at MoHP 32 hospitals; implementing Lab Information System at 11 Alex University hospitals; Health Awareness Projects using Mob applications raising awareness on NCD diseases as diabetes, hypertension, etc.; working on the National Program of the Cancer Registry to give statistics and information that is needed globally.

E.3. Raise Advocacy for Green ICT & Safe eWaste Recycling Initiatives to Take Climate Action

The Project will support MCIT in implementing a number of initiatives for protecting the environment. The Project members in charge of the file will engage in lots of initiatives with the public entities and private sector for advocating safe use of eWaste and saving power for taking climate action and achieving Green ICT. They will try to leverage ICT to make business processes more energy-efficient through raising the awareness to the most benefits of Green ICT which are mainly reducing environmental impact and saving energy as energy is becoming increasingly costly. They will try to reduce the adverse environmental impacts resulting from the expansion of using ICT devices to protect the environment from the harmful output of technologies through using the right and safe scientific methods of disposing electronic wastes. The Project will support MCIT to organize meetings for raising the community awareness about Green ICT challenges and opportunities and adopt a multi-stakeholder approach to address various issues. The team will advocate ways for Saving Energy through producing equipment that do not consume energy. This will be realized in implementing smart cities and communities, technology parks and the City of Knowledge adhering to international standards for protecting the environment.

The Project will support MCIT's advocacy for green ICT through provision of high-caliber staff members who participate in meetings and occupy a leading role in the region. They will conduct campaigns on the local level for raising the awareness on safe ways of recycling eWaste and will pilot a number of initiatives with the private sector and companies. They will enhance the campaigns towards safe use of ICT tools and equipment. They will perform studies and implement projects to raise the awareness for safe use of eWaste, recycling, and benefits of green ICT. They will effectively participate in meetings concerned with economy of recycling and give recommendations for enhancing Arab and African cooperation for Egypt being Deputy Director of Arab and African Regional Group at ITU Study Group No. 5 concerned with climate change.

Resources Required to Achieve the Expected Results

The Project budget comes from the allocated amount in the MCIT budget, which is approved by Parliament every year. The payment is allocated on an annual basis when the Annual Work plan is formulated and the

payment is paid on instalments to agree upon with UNDP. The human resources are available; some are governmental employees who give a percentage of their time to work on the project and a percentage of their time to work for the government. Some are hired on limited period contracts to perform specific deliverables for implementing the MCIT National Strategy. They are hired in all areas that require high caliber with specific qualifications to achieve requested deliverables. The project always seeks hiring appropriate experienced staff members who possess specific and rare qualifications to carry out implementing national initiatives involving new technological trends. They select the type of staff who could cope with the rapidly changing technology development and environment. The project cannot rely only on governmental employees, as they cannot be hired on short-term basis to perform specific deliverables. Therefore, the project seeks to hire local and international consultants for limited contracts through a fair competitive process. The Project requires some UNDP employees working in collaboration with the project team members to give advice and guidance as needed.

Partnerships:

To achieve Development, MCIT-UNDP project will follow multi-stakeholder initiatives collaborating with the government, civil society, and private sector in order to address complex development challenges that no single party could overcome. The MCIT-UNDP Project has a clear vision to collaborate with a number of parties for achieving its five project outputs as follows:

The Environment for Innovation and Technological Investment is Enhanced: MCIT-UNDP Project will collaborate with the National Telecommunication Regulatory Authority (NTRA) to set the rules and polices that govern the market and relationship between the four providers (Orange, Vodafone, Etisalat and Telecom Egypt) for enhancing the ICT infrastructure, networking, and services. The relationship and polices will be set and implemented to achieve equity and fairness among competitors and the services offered to the citizens to benefit from the enabled environment in innovation and technological investment. MCIT-UNDP Project will collaborate with Link, TeData, and Microsoft in using their virtual infrastructure technology through connecting governmental employees to their cloud computing services for raising efficiency, productivity and transparency of the governmental services. It will collaborate with different parties for building government computing center in the Smart Village that will host the automation and digitization of all the governmental bodies. The Project will collaborate with Silicon Valley through performing feasibility studies to maximize the benefit from the Technology Parks all over the country and concluding contracts with international organizations to establish factories and enhance the electronics industry and the offshore outsourcing services.

Human Development and Training Programs Are Provided: MCIT-UNDP will collaborate with Information Technology Institute (ITI), Information Technology Industry Development Agency (ITIDA) in implementing the Next Technology Initiative through offering the courses by ITI funded by ITIDA and supervised by MCIT. It will collaborate with the Ministry of Education and governmental schools to implement Future Scientists Initiative. It will collaborate with the ITU for hosting the eLearning Centre for PWDs in the Smart Village for serving African and Arab countries. It will collaborate with the Ministry of Education and Ministry of Youth and Ministry of Health and Population to implement the PWDs activities and initiatives for integrating PWDs in the community and the working force. The Project ICT for Women initiative which targets supporting females and empowering them to use ICT in all aspects of life will be implemented in collaboration with the National Council for Women (NCW) and international organizations and multi-national companies which give special attention to women empowerment and progress such as UNDP, USAID, Telecom Egypt, Microsoft, public universities, youth centers, etc..

Transformation to the Digital Society is Materialized: MCIT-UNDP Project will collaborate with all the governmental bodies to implements automation and digitization initiatives to help the society in its digital transformation. The Project will collaborate with the Ministry of Justice, Constitutional Court, and Court of Cassation, and Ministry of Interior to implement Law Enforcement Projects. It will collaborate with Ministry of Investment through the General Authority for Investment (GAFI) to facilitate and expedite investment opportunities in Egypt, Ministry of Housing, Utilities, and Urban Development and Urban

Communities Authority and Mortgage Finance Fund to implement initiatives that serve expats to buy properties through the internet and bring foreign currency to the treasury. It will collaborate with the Ministry of Tourism and Egyptian Authority for Tourism to highlight Egypt's tourist attractions and encourage tourists to visit Egypt. It will collaborate with the Ministry of Antiquities to preserve and store the cultural and natural heritage of Egypt. It will collaborate with Egypt Post offices for outreaching to the citizens and achieve financial inclusion.

Investments and Opening up of New Regional and International Markets are Increased: The Project will collaborate with affiliates as NTRA, ITIDA, governmental bodies, public and private ICT companies, etc. to engage with international ICT organizations and countries on the regional and international level for positioning and branding Egypt ICT potentials and sharing best practices. The Project will cover cost of missions, joining and hosting meetings with the aim of opening new channels of cooperation and creating business opportunities for the local ICT industry in Egypt and raising the ICT exports to global markets. It will promote Egypt as one of the best promising countries in offering various ICT outsourcing services, electronics industry, and hosting big global data centers though concluding agreements with international companies.

Egypt's Sustainable Development Strategy is Supported: MCIT-UNDP Project will collaborate with all governmental and non-governmental bodies, and private sector to highlight ICT in supporting Egypt's sustainable development strategy and vision for 2030 through economic, social, and environmental pillars as key priorities for community and economic development. The project's staff will collaborate with UNDP and affiliates as ITIDA, NTRA, TIEC, local companies and multinationals to promote Egypt's ICT resources and capabilities focusing on the electronics industry, developing Technology Parks throughout Egypt, promoting hosting global data centers and concluding agreements with global data management companies. The project will support the community's social pillar by focusing on health and education through provision of eHealth and eEducation applications to serve the Egyptian citizen and achieve community development. It will support the environmental pillar by advocating green ICT and taking climate action for protecting human health and the surrounding environment from the negative effects of the spread of technology and eWaste and will promote ways to save energy.

Risks and Assumptions

It is assumed that no major changes will occur in the institutional, legislative or decision-making arrangements. Furthermore, it is assumed that throughout the duration of this phase of the project no adverse security, social, economic conditions will occur which could disrupt the project itself and its impact and outcomes.

Stakeholder Engagement

The Project's key stakeholders are the Egyptian citizens, Arab and African countries, other countries, and international organizations as follows:

Target Groups: The Project targets the Egyptian citizens at large who should directly benefit from ICT latest technology, facilities, tools, applications, in the development process. It will support MCIT in offering training programs and creating job opportunities. This will contribute to the GDP and reducing human poverty. The Project will work with other national projects to make available all the resources and to develop the skills and knowledge at an affordable and flexible way to meet the needs of the future. They boost the skills and knowledge of graduates who might lack the ICT knowledge needed for the marketplace despite their specialized education. This will be achieved through various training courses, scholarships, and initiatives. The idea is not in transforming youth into computer programmers, but in enhancing their educational and cultural backgrounds. They will be taught how to make technology serve their needs and provide solutions for their problems. This output also enhances the skills and build the capacity of the governmental staff members.

Other Potentially Affected Groups:

Arab and African Countries: The Project will support strengthening bilateral cooperation with Arb and African countries through supporting missions to participate in regional ICT events for engaging in bilateral cooperation between Egypt-African Countries and Egypt-Arab Countries. The Project will cover travel cost of project team members to emphasize the high potentials of ICT sector in the regional fora. They will participate in a number of meetings of the Arab and African Groups confirming the Egyptian leadership and the strength of the sector and its readiness for regional and international cooperation.

Other countries: The Project will support bilateral cooperation through supporting missions to participate in international ICT events for engaging in bilateral cooperation as between Egypt-USA; Egypt- Egypt-European Countries; Egypt-Asian Countries; Egypt-Canada; and Egypt-Latin America. The Project will cover travel cost of project team members to emphasize the high potentials of ICT sector in the regional and international fora. They will participate in a number of meetings confirming the Egyptian leadership and the strength of the sector and its readiness for regional and international cooperation. The Project will support MCIT through provision of high-caliber staff with international experience to implement signed MoUs with a number of countries to acquire more skills and share best practices for benefiting the sector and exporting ICT services.

International Organizations: The Project will support being actively engaged in a number of international organizations and initiatives working either directly or indirectly in ICT-related fields. Egypt's role in this regard has been developed over years as the country has gained growing influence in the international ICT community. Egypt's involvement in international organizations and initiatives in ICT, which includes holding positions of responsibility and hosting events, enables it to influence political discussions that shape international telecommunication policies, to focus international attention on the achievements and potential of the Egyptian ICT sector, and to keep abreast of international standards. The Project will support cooperation with ITU, ICANN, IGF, Wold Bank, OECD, UN, to influence political discussions due to the role of these bodies in setting international telecommunication policies and to ensure that Egypt follows the sector's international development standards. The participation in international meetings ensures that Egypt can guarantee setting policies and international decisions in a way that secures the country's interests. The Project will support maximizing the strategic partnerships with international organizations and the benefit from their expertise and investments, especially in technology development within the framework of the State's strategy to adopt policies and tools that support the transformation into the digital society.

South-South and Triangular Cooperation (SSC/TrC)

MCIT-UNDP Project realizes the vital importance of having South-South Cooperation for its tremendous benefits and impact on the developing countries, especially the neighboring Arab and African countries including Basin countries from one end, and for Egypt itself from the other end. South-South cooperation refers to the exchange of expertise between actors (governments, organizations and individuals) in developing countries. Triangular cooperation refers to development partners, countries, and international organizations providing financial or technical support to facilitate development activities between two developing countries. The Project will support MCIT in sharing the benefits and policies gained from long-term engagement with international organizations with Arab and African countries. The triangular part of the donor agencies might not be there in terms of financial support, but it is represented in the technical support offered through the experiences and best practices gained form MCIT long-term engagement with international organizations as ITU, IGF, ICANN, OECD, and others on the policies and infrastructure level.

The Project will support MCIT initiatives with Nile Basin countries in opening an ongoing dialogue and reaching a joint vision capable of creating success stories for a number of development problems through ICT. These countries suffer from similar problems and circumstances, so the Project will support the integration and strengthening ties with the Nile Basin countries and benefitting from the common interests. The cooperation has various benefits for the African neighboring countries from one hand benefitting from

Egypt's ICT expertise and development for bridging their digital divide from one side; and for promoting Egypt's ICT industry, opening new business opportunities for local ICT companies.

The Project will support implementing two MoUs signed at Cairo ICT in December 2017 with two Nile Basin countries, Ghana and Sudan. It will support implementing the two-year MoU between Egypt and Ghana for enhancing bilateral cooperation in ICT; promoting research, innovation and entrepreneurship, establishment of Tech Park in Ghana, transferring expertise in electronics industry, cybersecurity, documentation of Ghana's heritage. It will also support implementing the signed two-year MoU between Egypt and Sudan for bilateral cooperation in strengthening legal environment in ICTs and exchanging experiences in ICT regulation affairs and Arab digital content industry; building human capacity; SMEs, cybersecurity, PWDs, cooperation in international and regional forums.

Knowledge

The project will produce a number of off-line and on-line publications. The MCIT websites records all the development work performed in various sectors. The Project financial covers MCIT's means of disseminating information that include books, brochures, non-printed materials, hosting meetings, etc. It will communicate MCIT's efforts and activities to the audience, keep the public informed of the performance and achievements, and outline targets for the year ahead and beyond. The strategic aim of MCIT is to help maintain and increase public confidence as a key target and hence publications help in achieving this aim. MCIT's strong website is regularly maintained by experienced project staff members to help mainstream live events and all types of information. There is also the channel of Media through which MCIT provides coverage of all events and publishes press releases covering all sorts of information related to the events, which are posted electronically on the spot.

Sustainability and Scaling Up

The Project will offer core-support of MCIT in all areas that will be sustained and scaled up through the governmental employees and own resources. The collaboration with governmental bodies to perform automation and digitization initiatives will be maintained, developed, and enhanced for the benefit of citizens and the digital transformation. The automation and digitization work will increase with different governmental bodies until digital transformation will be fully materialized. Work will never stop, as it will increase by time and need. The working force will be more skillful to design and create their own websites and portals.

The Project will support MCIT to be create an environment conducive to enhancing investment and administering justice in the technological development nationwide, not only in Cairo through performing feasibility studies and offering consultations to maximize the benefit from the Technology Parks in different governorates. It will support creating a series of specialized business and Technology Parks across Egypt located near universities, with access to major national roads, rail networks and principal international airports. The Project will support provision of technical staff for developing the benefit from establishing the Technology Parks in different governorates through conducting feasibility studies and offering consultations. The objective of the Technology Parks in different governorates including 10th of Ramadan, New Aswan, New Mansoura and others is to decentralize ICT services away from the capital, reduce migration by offering direct and indirect jobs to the young Egyptian across different fields.

The Project will contribute to the development of disadvantaged and marginalized areas by providing services to Egyptian citizens, providing jobs, and reducing human poverty. The Project will support MCIT plans to develop smart and sustainable cities adhering to international standards, especially in the new Technology Parks. Support will be extended to implement plans for development of smart communities, including provision of the infrastructure and new technologies in the new Administrative Capital project and establishing the City of Knowledge within the Administrative Capital.

The Project will support scaling-up on enhancing the ICT infrastructure, improving networking and services through 4G newly introduced service, researching to introduce the 5G mobile services, increasing the connectivity of governmental bodies with outsourced hosting services through virtual infrastructure technology. This will be achieved through connecting more governmental employees to the Cloud Computing services hosted at Link, TeData, and Microsoft to raise efficiency, productivity and transparency of governmental bodies. It will provide more employees with MS Exchange for email addresses with strong capacity; MS Share Points for internal usage, archiving and transfer of file; and MS Lync for using Video Conferences within ministries and entities and with other parties hosted at Link Egypt. It will provide more ministries and governmental bodies with Hosting Services at TeData; and provide Ministries & governmental bodies with Cloud Computing Services with their servers and used applications through Microsoft.

The Project will support MCIT in its plan to build its own governmental Cloud Computing Center in the Smart Village to which all the governmental bodies automation and digitization will be connected. It will also support MCIT in implementing its promising plan for hosting global big data centers benefitting from 17 submarine cables passing through Egypt's sea. This will enhance the latency of internet in the region, bring foreign direct investment to the country, and turn Egypt into a regional digital hub.

IV. Project Management

Cost efficiency and effectiveness

The Project Strategy is expected to deliver maximum results with available resources. The annual plan is formulated at the beginning of every year to make use of the available resources in the most efficient and cost-effective way. The government work is reviewed by the Central Auditing Organization and by independent auditors. The project is managed by both the UNDP regulations and the governmental regulations in the most efficient way.

The Project applies theory of change analysis to explore different options to achieve the maximum results with available resources. It goes through local and international bidding process, if required, to purchase goods or services of international consultants or consultancy firms.

The Project goes through joint operations when performing activities as using the governmental equipment and networking to equip the Telecentres for training activities or Telemedicine activities with Ministry of Health and Population. It always resorts to collaborate with partners for achieving the best results.

V. THE PROJECT LOG FRAME:
Project Strategic Outputs and Activities Framework

UN SDGs: Reducing Poverty; Good Health and Well-being; Quality Education; Decent Work and Economic Growth; Industry, Innovation and Infrastructure; Sustainable Cities and Communities; Climate Change.

CPD/CPAP Outcome 2: National Strategies formulated, tested and implemented to facilitate increased access to information and foster the use of ICT to achieve development goals

Project Specific Outcome: Maximizing the Benefit of Egypt's Resources and Capabilities

Output A	Output B	Output C	Output D	Output E
The Environment for Innovation and Technological Investment is Enhanced	Human Development and Training Programs are Delivered	Transformation to the Digital Society is Materialized	Investments & Opening up of New Regional & International Markets are Increased	Egypt's Sustainable Development Strategy is Supported
Activity Result 1: Enhance ICT Infrastructure to Cope with Global ICT Development	**Activity Result 1:** Design Training and Human Development Programs to Satisfy the Labor Market Needs	**Activity Result 1:** Provide Automation Services to Accelerate the Digital Transformation Process	**Activity Result 1:** Partner with Countries & International Organizations to Highlight Egypt's ICT Pivotal Role	**Activity Result 1:** Raise Percenteage of ICT Contribution in the GDP and Engage ICT in Incorporating & Mainstreaming SDG into the Core Business Operations
Activity Result 2: Use Cloud Computing Services and Host Huge Global Data Centers to Transform Egypt into a Regional Digital Hub	**Activity Result 2:** Promote Innovation and Entrepreneurship Programs to Achieve Progress	**Activity Result 2:** Digitize Materials, Create Websites/Portals to Spread Knowledge and Increase Use of Internet	**Activity Result 2:** Disseminate Information and Organize Meetings to Promote Egypt's Potentials and Open New Business Channels	**Activity Result 2:** Enhance eEducation and eHealth Applications to Ensure Quality Education, Good Health
Activity Result 3: Develop Technology Parks and Provide Technical Consultations to Expand on ICT Industry & Services	**Activity Result 3:** Implement Programs and Initiatives to Empower and Integrate PWDs in the Community	**Activity Result 3:** Develop Financial Inclusion for Citizens and Support Implementing "Life with Dignity" National Initiative	**Activity Result 3:** Enhance ICT Indicators to Measure Performance and Highlight ICT Impact on Development	**Activity Result 3:** Raise Advocacy for Green ICT & Safe eWaste Recycling Initiatives to Take Climate Action

V. RESULTS FRAMEWORK

EXPECTED OUTPUTS	OUTPUT INDICATORS	Data Source	BASELINE Item	Y1	Y2	Y3	Y4	Y5	Y6	Y7	Y8	Final	DATA METHODS & RISKS
Output A.	**A.1. Enhance ICT Infrastructure to Cope with International Standards**	MCIT Information Center, December, 2017											
The Environment for Innovation and	• No. of ADSL subscriptions		5.20 M										
Technological	• No of Mobile subscriptions		101.27 M.										
Investment is	• No. of internet users		33.70 M.										
Enhanced	• Percentage of Internet Penetration		41.20 %										
	• No. Mobile Internet Users		32.79 M.										
	A.2. Use Cloud Computing Services and Host Global Huge Data Centers to Transform Egypt into a Regional Digital Hub												
	• Host Global Huge Data Centers in Borg El Arab Tech Park		# of data centers										
	• Connect governmental employees to Cloud Computing services at Link Egypt, TeData and Microsoft		# Employees										
	• Establish Cloud Computing Centre in SV (Cloud Enterprise) over 3 years.		# Entities										
	• Establish Cloud Computing Centre in SV (Cloud Enterprise) over 3 years.		Yes No										
	A.3 Develop Technology Parks and Provide Technical Consultations to Expand on ICT Industry and Services												
	• Develop Tech Parks across Egypt in addition to the City of Knowledge through performing feasibility studies and provision of technical consultations		4								10		
	• Promote developing industrial zones in the new Technology Parks	http://www.	#								#10		
	• Expand on offshore outsourcing services		US$ 1.87 B		US$								

EXPECTED OUTPUTS	OUTPUT INDICATORS	Data Source	BASELINE Item	Y1	Y2	Y3	Y4	Y5	Y6	Y7	Y8	Final	DATA METHODS & RISKS
	exports at new Tech Parks to attract FDI & raise exports	mcit.gov.eg/ Ar/Publicati on/Publicati on_Summar _/y/2065	% to GDP			3 B.							
Output B. Human Development and Training Programs Are Delivered	**B.1. Design Training and Human Development Programs to Satisfy the Labour Market Needs**												
	• Create 4.5 million ICT direct and indirect job opportunities in the coming 3 years		# 500,000								4.5 M		
	• Support capacity building training of MCIT Project Staff members abroad		# of trainees / # of trips										
	• Number of awareness meetings under ICT for Women initiative		# of meetings										
	• Number of trained females												
	• Number of female attendees												
	B.2. Promote Innovation and Entrepreneurship Programs to Achieve Progress												
	• Support IoI and cover the local preparation and travel of contestants and supervisor to join the annual international competition		Yes No										
	• No. of obtained medals and type		One Bronze (2016-2017)										
	• Support NTL initiative offering training courses to graduates (annually)		# graduates 330			990							
	• Support NTL initiative offering intensive training courses (annually)		# courses 52			156							
	B.3. Implement Programs and Initiatives to Empower and Integrate PWDs in the Community												
	• No. of PWDs schools supported		#										

EXPECTED OUTPUTS	OUTPUT INDICATORS	Data Source	BASELINE Item	Y1	Y2	Y3	Y4	Y5	Y6	Y7	Y8	Final	DATA METHODS & RISKS
	• No. of PWDs trained	http://www. mcit.gov.eg/ Publicati on/Publicati on_Summar /y/2065	#										
	• No. of PWDs employed after training		#										
	• Implement Tamkeen for innovation in software and mobile applications for assistive technologies		# of projects										
	• Implement protocol for Regional ICT Centre for PWDs within ITU Arab Regional Initiative to benefit Arab & African countries		# of winners

Yes
No | | | | | | | | | | |
| Output C: Transformation to the Digital Society is Materialized | C.1. Provide Automation Services to Accelerate Development towards Digital Transformation | | | | | | | | | | | | |
| | • Automate MoJ law enforcement projects via connecting applications with police stations and criminal courts system. (number and types of entities) | Egypt Post, Information Center, February 2018 | # | | | | | | | | | | |
| | • Develop notarization offices and automate 110 offices nationwide to better serve citizens replacing manual journals | | 10 | | | | | | | 110
Of | | | |
	• Develop and upgrade CAO system 2nd phase over 3 Y		% of progress										
	• Offer services to Egyptians expats thru "Beit Al Watan", and others as Dar Misr for medium-income housing social housing		US$ 6 B return										
			#of Units 3500 + 18000 last 2 Y										
	C.2. Digitize Materials, Create Websites/Portals to Spread Knowledge and Increase Use of Internet												
	• Digitize GAFI documents and all companies' files.		% of Progress										

EXPECTED OUTPUTS	OUTPUT INDICATORS	Data Source	BASELINE Item	TARGETS (by frequency of data collection)									DATA METHODS & RISKS
				Y1	Y2	Y3	Y4	Y5	Y6	Y7	Y8	Final	
Output C: Transformation to the Digital Society is Materialized	● Collaborate with State Information Services Agency, Egypt Radio TV Union to digitize content and create live programs		% of Progress										
	● Archive Egyptian monuments and history with the Ministry of Antiquities Project.	https://www .multivu.co m/players/E nglish/8179 851-at-kearney-2017-	% of Progress										
	● Cooperate with Ministry of Tourism and Egyptian Tourism Authority to Promote tourism in Egypt		% of Progress										
	C.3. Develop Financial Inclusion for Citizens and Support Implementing "Life with Dignity" National Initiative	global-services-location-index/	% of progress										
	● EP money orders per Year		15 M.										
	● EP value of money orders Per Year		EGP 30 B.										
	● EP No. of current accounts (accumulating)		500 Thous										
	● EP Value of current accounts (accumulating)		EGP 10 B.										
	● EP No. of Saving Accounts (accumulating)		26 M.										
	● EP value of Saving Account (accumulating)		EGP 196 B.										
	● Number of initiatives												
Output D. Investments & Opening up of New Regional & International Markets Are Increased	**D.1. Partner with Countries and International Organizations to Highlight Egypt's Pivotal Role**												
	● Sign MoU for strategic alliances with countries and international organizations (annually)		# of MoUs										
	● Support missions to join international meetings to secure country's interests		# of Missions										

EXPECTED OUTPUTS	OUTPUT INDICATORS	Data Source	BASELINE Item	TARGETS (by frequency of data collection)									DATA METHODS & RISKS
				Y1	Y2	Y3	Y4	Y5	Y6	Y7	Y8	Final	
Output D. Investments & Opening up of New Regional & International Markets Are Increased	• Establish and host eLearning innovation center at Borg El Arab Tech Park to emphasize Egypt's leading role in Africa.	https://www.multivu.com/players/English/8179851-at-kearney-2017-global-services-location-index/	# of trainees										
	D.2. Disseminate Information and Organize Meetings to Promote Egypt's Potentials and Open New Business Channels												
	• Egypt's ranking regarding ICT offshore services at A.T. Kearney Global Services Location Index (GSLI)		1st on Africa & 14th on World										
	• Organize regional and international events and exhibitions (annually)		# of events										
	• Produce publications as the Annual Book		No of Issues										
	• Host ITU 2019 World Radio Conference in Sharm (Nov/Dec 2019)		# of attendees										
	D.3. Enhance ICT Indicators to Measure Performance and Highlight ICT Impact on Development												
	• Increase ICT Sector growth		12.5%										
	• Number of engaging in regional and international missions related to ICT Indicators		#										
	• Number of Information Centre team members engaging in local, regional, and international ICT indicators events		#										
Output E. Egypt's Sustainable Development Strategy is Supported	**E.1. Raise Percentage of ICT Contribution in the GDP and Engage ICT in Incorporating & Mainstreaming SDG into the Core Business Operations**												
	• Increase ICT Contribution to GDP		3.5%								8%		
	• Increase total ICT exports to reach $20 B by		$3.25 B			5 B					$20		

EXPECTED OUTPUTS	OUTPUT INDICATORS	Data Source	BASELINE Item	TARGETS (by frequency of data collection)									DATA METHODS & RISKS
				Y1	Y2	Y3	Y4	Y5	Y6	Y7	Y8	Final	
Output E.	Year 2025					1st P					B		
Egypt's Sustainable Development Strategy is Supported	• Total Revenue from ICT offshore outsourcing services from $1.87 to $3 Billion per year over 3 yrs.	http://www.mcit.gov.eg/Ar/Publication/Publication_Summar/y/2065	$1.87 Billion			US# 3 B.							
	• Number of local ICT companies		4,758 Thou.			+50 Co							
	• Raise ICT total Capital of companies work in ICT		45.5 B. (up to 6/2012)										
	• Number of direct and indirect ICT jobs		500,000								4.5 M.		
	E.2. Enhance eEducation and eHealth Applications to Ensure Quality Education and Good Health												
	• Implement Academic Portfolio for University Staff at Helwan University		% of progress										
	• Archive Ain Shams Faculty of Medicine scientific papers & files creating repository for all files		% of progress										
	• Implement Quality Assessment System of Educational Effectiveness and Accreditation		% of progress										
	• Number of eHealth Projects		#										
	• Number of Telemedicine units		#										
	• Number of eHealth applications implemented on the level of the country		#										
	• Implement National Network for Government Expenses Treatment Project		# 2 hospitals	32 0 H									
	• Scale up on implementing ICU using Mobile inside public hospitals for supporting patients		All hospitals in Cairo										

EXPECTED OUTPUTS	OUTPUT INDICATORS	Data Source	BASELINE Item	TARGETS (by frequency of data collection)									DATA METHODS & RISKS
				Y1	Y2	Y3	Y4	Y5	Y6	Y7	Y8	Final	
	• Implement Lab Information System project at 11 Alex University hospitals		32 Hospitals	11 Ale x H									
	• Follow on Health Awareness Projects for NCD diseases using Mob applications.		16 SMSs on 2 campaigns								#		
	E.3. Raise Advocacy for Green ICT and eWaste Recycling Initiatives to Take Climate Action												
	• Raise awareness to climate change and advocate safe use of eWaste recycling.		# campaigns										
	• Participate in missions and occupy a leading role in the region.		# missions										
	• Pilot various initiatives with the private sector and companies.		# initiatives										

VI. MONITORING AND EVALUATION

In accordance with UNDP's programming policies and procedures, the project will be monitored through the following monitoring and evaluation plans:

Monitoring Plan

Monitoring Activity	Purpose	Frequency	Expected Action	Partners (if joint)	Cost (if any)
Track results progress	Progress data against the results indicators in the RRF will be collected and analyzed to assess the progress of the project in achieving the agreed outputs.	At least annually	Slower than expected progress will be addressed by project management.		
Monitor and Manage Risk	Identify specific risks that may threaten achievement of intended results. Identify and monitor risk management actions using a risk log. This includes monitoring measures and plans that may have been required as per UNDP's	At least annually	Risks are identified by project management and actions are taken to manage risk. The risk log is actively maintained to keep track of identified risks and actions taken.		

Monitoring Activity	Purpose	Frequency	Expected Action	Partners (if joint)	Cost (if any)
	Social and Environmental Standards. Audits will be conducted in accordance with UNDP's audit policy to manage financial risk.				
Learn	Knowledge, good practices and lessons will be captured regularly, as well as actively sourced from other projects and partners and integrated back into the project.	At least annually	Relevant lessons are captured by the project team and used to inform management decisions.		
Annual Project Quality Assurance	The quality of the project will be assessed against UNDP's quality standards to identify project strengths and weaknesses and to inform management decision making to improve the project.	Annually	Areas of strength and weakness will be reviewed by project management and used to inform decisions to improve project performance.		
Review and Make Course Corrections	Internal review of data and evidence from all monitoring actions to inform decision-making.	At least annually	Performance data, risks, lessons and quality will be discussed by the project board and used to make course corrections.		
Project Report	A progress report will be presented to the Project Board and key stakeholders, consisting of progress data showing the results achieved against pre-defined annual targets at the output level, the annual project quality rating summary, an updated risk long with mitigation measures, and any evaluation or review reports prepared over the period.	Annually, and at the end of the project (final report)			
Project Review (Project Board)	The project's governance mechanism (i.e., project board) will hold regular project reviews to assess the performance of the project and review the Multi-Year Work Plan to ensure realistic budgeting over the life of the project. In the project's final year, the Project Board shall hold an end-of project review to capture lessons learned and discuss opportunities for scaling up and to socialize project results and lessons learned with relevant audiences.	Annually	Any quality concerns or slower than expected progress should be discussed by the project board and management actions agreed to address the issues identified.		

MULTI-YEAR WORK PLAN [23]

EXPECTED OUTPUTS	PLANNED ACTIVITIES	Planned Budget by Year								RESPONSIBLE PARTY	PLANNED BUDGET		
		Y1	Y2	Y3	Y4	Y5	Y6	Y7	Y8		Funding Source	Budget Description	Amount
Output A: The Environment for Innovation and Technological Investment is Enhanced	A.1. Enhance ICT Infrastructure to Cope with International Standards	x	x	x	x	x	x	x	x	MCIT NTRA	MCIT NTRA		
	A.2. Use Cloud Computing Services and Host Global Huge Data Centres to Transform Egypt into a Regional Digital Hub	x	x	x	x	x	x	x	x	MCIT NTRA	MCIT NTRA		
	A.3 Develop Technology Parks and Provide Technical Consultations to Expand on ICT Industry and Services	x	x	x	x	x	x	x	x	MCIT Silicon Valley	MCIT Silicon Valley		
	Sub-Total for Output 1												

[2] Cost definitions and classifications for programme and development effectiveness costs to be charged to the project are defined in the Executive Board decision DP/2010/32

[3] Changes to a project budget affecting the scope (outputs), completion date, or total estimated project costs require a formal budget revision that must be signed by the project board. In other cases, the UNDP programme manager alone may sign the revision provided the other signatories have no objection. This procedure may be applied for example when the purpose of the revision is only to re-phase activities among years.

EXPECTED OUTPUTS	PLANNED ACTIVITIES	Planned Budget by Year								RESPONSIBLE PARTY	PLANNED BUDGET		
		Y1	Y2	Y3	Y4	Y5	Y6	Y7	Y8		Funding Source	Budget Description	Amount
Output B. Human Development and Training Programs Are Delivered	B.1. Design Training and Human Development Programs to Satisfy the Labor Market Needs	x	x	x	x	x	x	x	x	MCIT ITIDA ITI / NTI	MCIT ITIDA		
	B.2. Promote Innovation and Entrepreneurship Programs to Achieve Progress	x	x	x	x	x	x	x	x	MCIT ITIDA ITI / NTI	MCIT ITIDA		
	B.3. Implement Programs and Initiatives to Empower and Integrate PWDs in the Community	x	x	x	x	x	x	x	x	MCIT MoE MoHP	MCIT MoE MoHP		
	MONITORING									MCIT			
	Sub-Total for Output 2												
Output C: Transformation to the Digital Society is Materialized	C.1. Provide Automation Services to Accelerate Development towards Digital Transformation	x	x	x	x	x	x	x	x	MCIT Other Ministries	MCIT Other Ministries		
	C.2. Digitize Materials, Create Websites/Portals to Spread Knowledge and Increase Use of Internet	x	x	x	x	x	x	x	x	MCIT Other Ministries	MCIT Other Ministries		

34

EXPECTED OUTPUTS	PLANNED ACTIVITIES	Planned Budget by Year								RESPONSIBLE PARTY	PLANNED BUDGET		
		Y1	Y2	Y3	Y4	Y5	Y6	Y7	Y8		Funding Source	Budget Description	Amount
	C.3. Develop Financial Inclusion for Citizens and Support	x	x	x	x	x	x	x	x	MCIT Egypt Post	MCIT Egypt Post		
	Implementing "Life with Dignity" National Initiative	x	x			x	x	x	x	MCIT Ministry of Social Solidarity MoHP MoE	MCIT Ministry of Social Solidarity MoHP MoE		
	MONITORING												
	Sub-Total for Output C												
Output D. Investments & Opening up of New Regional & International Markets is Increased	D.1. Partner with Countries and International Organizations to Highlight Egypt's Pivotal Role	x	x	x	x	x	x	x	x	MCIT NTRA ITIDA	MCIT NTRA ITIDA	X	X
	D.2. Disseminate Information and Organize Meetings to Promote Egypt's Potentials and Open New Business Channels	x	x	x	x	x	x	x	x	MCIT NTRA ITIDA	MCIT NTRA ITIDA	X	X
	D.3. Enhance ICT Indicators to Measure Performance and Highlight ICT Impact on Development	x	x	x	x	x	x	x	x	MCIT CAPMAS National Council for Women (NCW)	MCIT	X	X

EXPECTED OUTPUTS	PLANNED ACTIVITIES	Y1	Y2	Y3	Y4	Y5	Y6	Y7	Y8	RESPONSIBLE PARTY	Funding Source	Budget Description	Amount
												Planned Budget by Year			PLANNED BUDGET		
	MONITORING									MCIT			
	Sub-Total for Output D												
Output E. **Egypt's Sustainable Development Strategy is Supported**	E.1. Raise Percentage of ICT Contribution in the GDP and Engage ICT in	x								MCIT NTRA ITIDA	MCIT NTRA ITIDA		
	Incorporating & Mainstreaming SDG into the Core Business Operations		x	x	x	x	x	x	x	Local ICT Companies Multi-national Companies	Local ICT Companies Multi-national Companies	X	X
	E.2. Enhance eEducation and eHealth Applications to Ensure Quality Education and Good Health	x	x	x	x	x	x	x	x	MCIT MoE MoHE MoH	MCIT MoE MoHE MoH	X	X
	E.3. Raise Advocacy for Green ICT and eWaste Recycling Initiatives to Take Climate Action	x	x	x	x	x	x	x	x	MCIT Ministry of Environment Civil Society Local companies	MCIT Ministry of Environment Civil Society Local companies	X	X
	MONITORING												
	Sub-Total for Output E												
Evaluation *(as relevant)*	EVALUATION												

EXPECTED OUTPUTS	PLANNED ACTIVITIES	RESPONSIBLE PARTY	Planned Budget by Year								PLANNED BUDGET		
			Y1	Y2	Y3	Y4	Y5	Y6	Y7	Y8	Funding Source	Budget Description	Amount
General Management Support													
TOTAL													

Evaluation Plan[4]

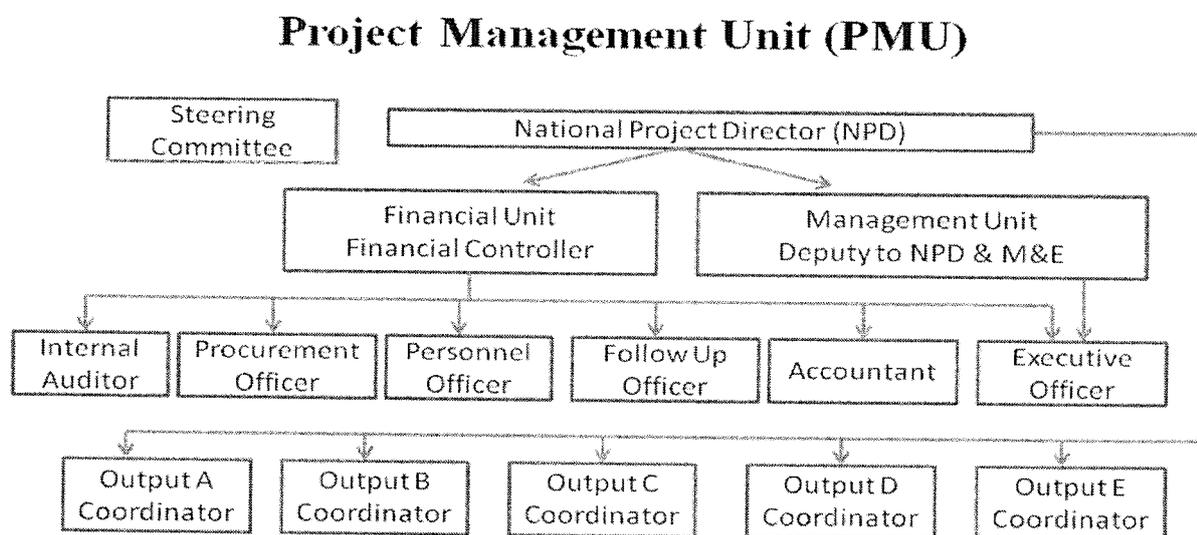| Evaluation Title	Partners (if joint)	Related Strategic Plan Output	UNDAF/CPD Outcome	Planned Completion Date	Key Evaluation Stakeholders	Cost and Source of Funding
Mid-Term Evaluation if required	MCIT and UNDP	Transformation to the Digital Society	Achieving Socio-economic development	December 31, 2027	MCIT and UNDP	US $ 30.9 M

---

[4] Optional, if needed

VI. Governance and Management Arrangements

The Project Management Unit (PMU) is composed of the National Project Director (NPD) who is in charge of the overall management of the project from both the financial and technical aspects. He will be supported by a Financial Unit and a Management Unit as shown in Figure 1 below.

The Management Unit is headed by the Deputy to the NPD who provides technical support to the project, participates in meetings at UNDP on behalf of the NPD, handles the Monitoring and Evaluation of the Project activities, does the liaison with the Output Coordinators, takes care of all types of technical reporting, sits with the auditors, and handles the interface of the Project with UNDP and MCIT. The Executive Officer supports the Deputy to the NPD in executing all the follow up, reporting procedures, and technical support of the project.

The Financial Unit will be headed by the Financial Controller who is responsible for all payments, financial reporting, auditing, etc. He has under his management the following posts:

- Personnel Officer who is charged with performing the purchases of services, completing the paperwork, and proceeding with the contracts
- Procurement Officer who is charged with the bidding and purchasing of goods or services
- Follow-up Officer who is responsible for the processing of payments and paper work with UNDP.
- Internal Auditor who is charged with reviewing all payments, calculations, CDR, financial reporting, etc.
- Executive Officer who communicates with the team and assists the Deputy to the NPD and the Project Management Unit, as required.

Project Management Unit (PMU)

Figure2: Project Management Unit (PMU)

This proposal comprises five Outputs, and a series of Activity Results with many of them having the status of a project within MCIT. This is consistent with UNDP decentralized budgeting approach. Activities and Actions are grouped around one main Output and will follow a reporting mechanism that goes according to this arrangement.

The project will be structured in accordance with the respective rules and regulations of the UNDP funded projects provided in the respective circulars of UNDP. The request for assistance from UNDP stems from recognition of its capacity for institutional capacity building and experience in the ICT field as well as the organization capacity to easily facilitate experience and technology transfer.

The project will be nationally executed by MCIT as the Implementing Agency, which will be responsible for the timely and proper implementation of the project. MCIT will designate a National Project Director (NPD) from its own staff who will be responsible for the overall supervision and management of day-to-day operations of the project. The NPD will be fully responsible for the coordinated work of MCIT and ensure the intended Activities are fully achieved within their timeframes as well as responsible for updating the project yearly work plan. The NPD will advise and consult UNDP Programme Coordinator/Designated Personnel for the full compliance of the achievements with the expectations of UNDP. The NPD together with the Output Coordinators will coordinate project Activity Results with government agencies, donor organizations, NGOs and other relevant parties. The NPD will be assisted by a Project Support Team including ICT specialists who will provide overall planning, management coordination, administration, logistics, monitoring, and supervision of the project. Moreover, to ensure the prompt implementation of the project, based on need, staff members will be hired and will report directly to the NPD. The NPD will coordinate all project-related activities with other government and non-governmental bodies working in the area of ICT for good governance, particularly with those partners involved in MCIT Egypt Information Society Initiative.

The overall supervision of the project will be by a Steering Committee while the day-to-day operations will be the responsibility of the National Project Director supported by the PMU, and Output Coordinators.

Steering Committee (Project Board):

A Project Steering Committee (Project Board) will be established to take executive management decisions and to provide guidance to the National Project Director, including approval of project revisions and of the project's annual work plan. The Steering Committee (Project Board) will provide overall guidance and policy direction to review progress, discuss and amend work plans according to the evolving needs. Project assurance reviews by this group are made at designated decision points during the running of a project, or as necessary when raised by the National Project Director. Potential members of the Project Board are reviewed and recommended for approval during the Programme Advisory Committee (PAC) meeting. The Group will meet annually (or more frequently if necessary) and will be composed of:

Chairman (Executive): MCIT

Senior Supplier: MoFA and UNDP

Senior Beneficiary: MCIT and affiliates, private and public sectors, the Civil Society, the population of Egypt.

Ex officio: The NPD will act as secretariat for the committee, being responsible for convening the meetings, preparing the agenda, overseeing preparation of materials for presentation to the meeting and for preparing and distributing minutes of the meetings (Minutes of the previous meetings will be circulated prior to the next meeting where they will be approved and included in the records of the project activities.

Project Assurance: UNDP has to appoint a Programme Officer for performing this role and this is mandatory for all projects

Work Plan

During the first two months of the project, an overall work plan will be developed for 2019-2020 (referred as Project Operation Plan) as well as a detailed work plan for the first year (referred to as Annual Work plan). Moreover, the detailed terms of references (TORs) including the responsibilities of staff will be developed. To ensure efficient monitoring of the results produced, the project will design and introduce a project-monitoring framework with indicators/baseline information system/targets within the first two months.

Project Assurance:

The Project Assurance role will support the project by carrying out objective and independent project oversight and monitoring functions. The role of the Project Assurance ensures appropriate project management milestones are managed and completed. UNDP is responsible for designating a Programme Officer to provide this oversight.

Financial Arrangements

1. In accordance with the decisions and directives of UNDP's Executive Board, the contribution shall be charged 3% cost recovery from actual spending from government cost-sharing funds for the provision of general management support (GMS) by UNDP headquarters and country offices

2. **Schedule of Payments:**

Amount in USD	Date
6,000,000.00	Year 2020
3,500,000.00	Year 2021
3,500,000.00	Year 2022
3,500,000.00	Year 2023
3,500,000.00	Year 2024
3,500,000.00	Year 2025
3,500,000.00	Year 2026
3,000,000.00	Year 2027

*Transfers of instalments will be made in EGP in accordance to the exchange rate of the day of transfer

3. The cost-sharing contribution shall be paid in EGP to the account below according to the above schedule per the announced exchange rate by UNDP:
   Bank Name: Commercial International Bank (CIB)
   Bank Branch: Zamalek
   A/C Name: United Nations Development Programme
   A/C No.: 0790105183
   Swift Code: CIBEEGCX007

4. The value of the payment, if made in a currency other than the United States Dollar, shall be determined by applying the United Nations operational rate of exchange prior to the full utilization by the UNDP of the payment, the value of the balance of funds still held at that time will be adjusted accordingly. If, in such a case, a loss in the value of the balance of funds is recorded, UNDP shall inform the government with a view to determining whether any further financing could be provided by the Government. Should such further financing not be available, the assistance to be provided to the project may be reduced, suspended or terminated by UNDP.

5. The above schedule of payments takes into account the requirement that the payments shall be made in advance of the implementation of planned activities. It may be amended to be consistent with the progress of project delivery.

6. All financial accounts and statements shall be expressed in United States Dollars. Cost sharing amounts are to be paid in local Egyptian Pound.

7. If unforeseen increases in expenditures or commitments are expected or realized (whether owing to inflationary factors, fluctuation in exchange rate or unforeseen contingencies), UNDP shall submit to the government on a timely basis a supplementary estimate showing the further financing that will be necessary. The Government shall use its best endeavors to mobilize additional resources.

8. UNDP will support resource mobilization of the unfunded amount of $600,000

9. Any interest income attributable to the contribution shall be credited to UNDP account and shall be utilized in accordance with established UNDP procedures.

10. The remaining cash balance from the previous project will be transferred to this project accordingly and deducted from the schedule of payments. Therefore, all commitments and contracts for *"Enhancing Access to Knowledge for Development"* will be paid from this project.

11. Ownership of equipment, supplies and other properties financed from the contribution shall vest in UNDP. Matters relating to the transfer of ownership by UNDP shall be determined in accordance with the relevant policies and procedures of UNDP.

12. The contribution shall be subject exclusively to the internal and external auditing procedures provided for in the financial regulations, rules and directives of UNDP.

VII. Legal Context and Risk Management

Legal Context Standard Clauses

This project document shall be the instrument referred to as such in Article 1 of the Standard Basic Assistance Agreement between the Government of (country) and UNDP, signed on (date). All references in the SBAA to "Executing Agency" shall be deemed to refer to "Implementing Partner."

Risk Management Standard Clauses
Option a. Government Entity (NIM)

1. Consistent with the Article III of the SBAA *[or the Supplemental Provisions]*, the responsibility for the safety and security of the Implementing Partner and its personnel and property, and of UNDP's property in the Implementing Partner's

custody, rests with the Implementing Partner. To this end, the Implementing Partner shall:

   a) put in place an appropriate security plan and maintain the security plan, taking into account the security situation in the country where the project is being carried;

   b) assume all risks and liabilities related to the Implementing Partner's security, and the full implementation of the security plan.

2. UNDP reserves the right to verify whether such a plan is in place, and to suggest modifications to the plan when necessary. Failure to maintain and implement an appropriate security plan as required hereunder shall be deemed a breach of the Implementing Partner's obligations under this Project Document [and the Project Cooperation Agreement between UNDP and the Implementing Partner][5].

3. The Implementing Partner agrees to undertake all reasonable efforts to ensure that no UNDP funds received pursuant to the Project Document are used to provide support to individuals or entities associated with terrorism and that the recipients of any amounts provided by UNDP hereunder do not appear on the list maintained by the Security Council Committee established pursuant to resolution 1267 (1999). The list can be accessed via http://www.un.org/sc/committees/1267/aq_sanctions_list.shtml. This provision must be included in all sub-contracts or sub-agreements entered into under/further to this Project Document.

4. Consistent with UNDP's Programme and Operations Policies and Procedures, social and environmental sustainability will be enhanced through application of the UNDP Social and Environmental Standards (http://www.undp.org/ses) and related Accountability Mechanism (http://www.undp.org/secu-srm).

5. The Implementing Partner shall: (a) conduct project and programme-related activities in a manner consistent with the UNDP Social and Environmental Standards, (b) implement any management or mitigation plan prepared for the project or programme to comply with such standards, and (c) engage in a constructive and timely manner to address any concerns and complaints raised through the Accountability Mechanism. UNDP will seek to ensure that communities and other project stakeholders are informed of and have access to the Accountability Mechanism.

6. All signatories to the Project Document shall cooperate in good faith with any exercise to evaluate any programme or project-related commitments or compliance with the UNDP Social and Environmental Standards. This includes providing access to project sites, relevant personnel, information, and documentation.

---

[5] Use bracketed text only when IP is an NGO/IGO

Schedule of Payment
Maximizing Egypt's Resources and Capabilities through ICT (MERC-ICT)

Year		Amount	
		LE	$
2020	1-Jan	64,728,800.00	4,000,000.00
	1-Jul	16,182,200.00	1,000,000.00
	1-Oct	8,091,100.00	500,000.00
	1-Dec	8,091,100.00	500,000.00
Year Total		**97,093,200.00**	**6,000,000.00**
2021	1-Jan	11,327,540.00	700,000.00
	1-Apr	11,327,540.00	700,000.00
	1-Jul	11,327,540.00	700,000.00
	1-Oct	11,327,540.00	700,000.00
	1-Dec	11,327,540.00	700,000.00
Year Total		**56,637,700.00**	**3,500,000.00**
2022	1-Jan	11,327,540.00	700,000.00
	1-Apr	11,327,540.00	700,000.00
	1-Jul	11,327,540.00	700,000.00
	1-Oct	11,327,540.00	700,000.00
	1-Dec	11,327,540.00	700,000.00
Year Total		**56,637,700.00**	**3,500,000.00**
2023	1-Jan	11,327,540.00	700,000.00
	1-Apr	11,327,540.00	700,000.00
	1-Jul	11,327,540.00	700,000.00
	1-Oct	11,327,540.00	700,000.00
	1-Dec	11,327,540.00	700,000.00
Year Total		**56,637,700.00**	**3,500,000.00**
2024	1-Jan	11,327,540.00	700,000.00
	1-Apr	11,327,540.00	700,000.00
	1-Jul	11,327,540.00	700,000.00
	1-Oct	11,327,540.00	700,000.00
	1-Dec	11,327,540.00	700,000.00
Year Total		**56,637,700.00**	**3,500,000.00**
2025	1-Jan	11,327,540.00	700,000.00
	1-Apr	11,327,540.00	700,000.00
	1-Jul	11,327,540.00	700,000.00
	1-Oct	11,327,540.00	700,000.00
	1-Dec	11,327,540.00	700,000.00
Year Total		**56,637,700.00**	**3,500,000.00**
2026	1-Jan	11,327,540.00	700,000.00
	1-Apr	11,327,540.00	700,000.00
	1-Jul	11,327,540.00	700,000.00
	1-Oct	11,327,540.00	700,000.00
	1-Dec	11,327,540.00	700,000.00
Year Total		**56,637,700.00**	**3,500,000.00**
2027	1-Jan	16,182,200.00	1,000,000.00
	1-Apr	16,182,200.00	1,000,000.00
	1-Jul	16,182,200.00	1,000,000.00
Year Total		**48,546,600.00**	**3,000,000.00**
TOTAL		**485,466,000.00**	**30,000,000.00**

* The payment are calculated at the present exchange rate of $ 1 = LE 16.1822