



# ITU Regional Development Forum for Africa (RDF-AFR)

**‘Digital transformation for a sustainable and equitable digital future:  
Accelerating the implementation of the SDGs in Africa’**

organized by the International Telecommunication Union in collaboration with the  
Ministry of Innovation and Technology, Ethiopia

**3-5 October 2023  
Addis Ababa, Ethiopia**

Please note that submitted information will be presented during the RDF-AFR P2C Roundtables and it will also be reflected on the pledging platform of the Partner2Connect Digital Coalition.

## CONTRIBUTION FORM

**ORGANIZATION:** Mauritius Digital Promotion Agency (MDPA)

**FOCAL POINT:** Ministry of Information Technology, Communication and Innovation,  
Mrs. M. J. Sandrine Valere, Permanent Secretary, [mvalere@govmu.org](mailto:mvalere@govmu.org), + (230) 401 3712  
Mr. Ismael Limalia, Manager - MDPA, [ilimalia@ncb.mu](mailto:ilimalia@ncb.mu), +230 5756-4423

**TITLE:** MDPA project: National IOT platform (SDG Goal 9-Industry, Innovation and Infrastructure)

### DESCRIPTION OF ACTION:

IoT and GIS are key technologies being adopted by various Ministries and Departments in Mauritius, more often independently and using commercial applications. MDPA has set up a National IoT platform provides a secure open source platform which allows reduction of project cost of ownership, inter-operability of various systems and data among institutions and very fast deployment of new projects and paves the way for other Ministries and Departments to implement their projects in a unified manner.

In this context the following projects have been initiated:

1. Smart farming project at Food & Agricultural Research & Extension Institute (FAREI) by making use of sensors, data analysis, computer vision and other computer driven analytical tools used for optimizing animal welfare, productivity, and efficiency. Several environmental sensors to measure parameters such as wind speed and direction, rainfall, UV level, light intensity and barometric pressure data are being received and collected using weather stations on the National IOT Network to enable researchers from FAREI study environmental impact on their production systems.
2. Smart water meter project at CWA Quartier Militaire reservoir. Under SDG 6, this action will increase water-use efficiency as customers will have greater visibility of their daily water consumption. The Smart Water Meter Programme will also contribute to SDG 12, which aims to ensure sustainable consumption, management and efficient use of natural resources. With a reduction in water consumption, less energy is expended on the treatment and production of clean water, which then contributes to overall climate change strategy (SDG 13).
3. National Environmental Laboratory (NEL) "Smart Water Quality real time Monitoring" and the Ministry of Environment "Lagoon Water Quality Monitoring"(LWQI). This target SDG 6 (Clean water and sanitation) which aims to "ensure availability and sustainable management of water and sanitation for all." The Lagoon Water Quality Index (LWQI), uses an Internet of Things (IoT) Real Time Online Monitoring System for public beaches around Mauritius. The LWQI system will enable the prompt assessment of the quality of our





beaches and the ecosystems including factors such as nutrient levels, pollution, and biodiversity.

Real-time data will be made available through Application Programming Interface (APIs) as open data to enable data analytics and the development of Web and Mobile Applications. This will boost the development of Mobile Apps that will improve efficiency and provide better service to the citizens.

One such app is "Mofarm" which is an android mobile app which enables farmers to report on new born animal data (proof with pictures) to FAREI, whereby the captured data is stored in an online database for data analysis and statistical data and to better assist the farmers and breeders community.

**COUNTRIES in FOCUS:** Mauritius

**YEARS of IMPLEMENTATION:** [Tick the relevant boxes or delete the irrelevant items]

☒ 2023

☒ 2024

☒ 2025

**RELEVANT ITU REGIONAL INITIATIVE:** [Tick the relevant boxes or delete the irrelevant items]

☒ AFR1: Supporting digital transformation to usher in a rapid transition to a digital economy while accelerating innovation in Africa

☐ AFR2: Implementation and expansion of broadband infrastructures, connectivity and emerging technologies

☐ AFR3: Building trust, safety and security in the use of telecommunications/ICTs and protection of personal data

☒ AFR4: Fostering emerging technologies and innovation ecosystems

Please find more information on the ITU RIs 2023-2025, as defined by WTDC-22, [here](#).

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

☐ Affordable connectivity

☒ Digital transformation

☐ Enabling policy and regulatory environment

☒ Resource mobilization and international cooperation

☐ Inclusive and secure telecommunications/ICTs for sustainable development

Please find more information on the ITU-D Priorities, as defined by WTDC-22, [here](#).

#### **RELATED ITU PRIORITIES AS DEFINED BY ITU PLENIPOTENTIARY CONFERENCE 2022**

☒ Spectrum use for space and terrestrial services

☐ International telecommunication numbering resources





- ☐ Inclusive and secure telecommunication/ICT infrastructure and services
- ☒ Digital applications
- ☒ Enabling environment

Please find more information on the ITU Priorities, as defined by PP-22, [here](#)

**RELATED WSIS ACTION LINE:** [Tick the relevant boxes or delete the irrelevant items]

- ☒ C1: The role of governments and all stakeholders in the promotion of ICTs for development
- ☒ C2: Information and communication infrastructure
- ☐ C3: Access to information and knowledge
- ☐ C4: Capacity building
- ☐ C5: Building confidence and security in the use of ICTs
- ☒ C6: Enabling environment
- ☒ C7: ICT applications
- ☐ C8: Cultural diversity and identity, linguistic diversity and local content
- ☐ C9: Media
- ☐ C10: Ethical dimensions the Information Society
- ☐ C11: International and regional cooperation

**RELATED SDG:** [Tick the relevant boxes or delete the irrelevant items]

- |  |  |
|--|--|
| <input type="checkbox"/> SDG 1: No Poverty   | <input type="checkbox"/> SDG 10: Reduced Inequalities                          |
| <input type="checkbox"/> SDG 2: Zero Hunger  | <input checked="" type="checkbox"/> SDG 11: Sustainable Cities and Communities |
| <input type="checkbox"/> SDG 3: Good Health and Well- being                        | <input type="checkbox"/> SDG 12: Responsible Consumption and Production        |
| <input checked="" type="checkbox"/> SDG 4: Quality Education                       | <input type="checkbox"/> SDG 13: Climate Action                                |
| <input type="checkbox"/> SDG 5: Gender Equality                                    | <input type="checkbox"/> SDG 14: Life Below Water                              |
| <input type="checkbox"/> SDG 6: Clean Water and Sanitation                         | <input type="checkbox"/> SDG 15: Life on Land                                  |
| <input type="checkbox"/> SDG 7: Affordable and Clean Energy                        | <input type="checkbox"/> SDG 16: Peace, Justice and Strong Institutions        |
| <input type="checkbox"/> SDG 8: Decent Work and Economic Growth                    | <input checked="" type="checkbox"/> SDG 17: Partnerships for the SDGs          |
| <input checked="" type="checkbox"/> SDG 9: Industry, Innovation and Infrastructure |  |

