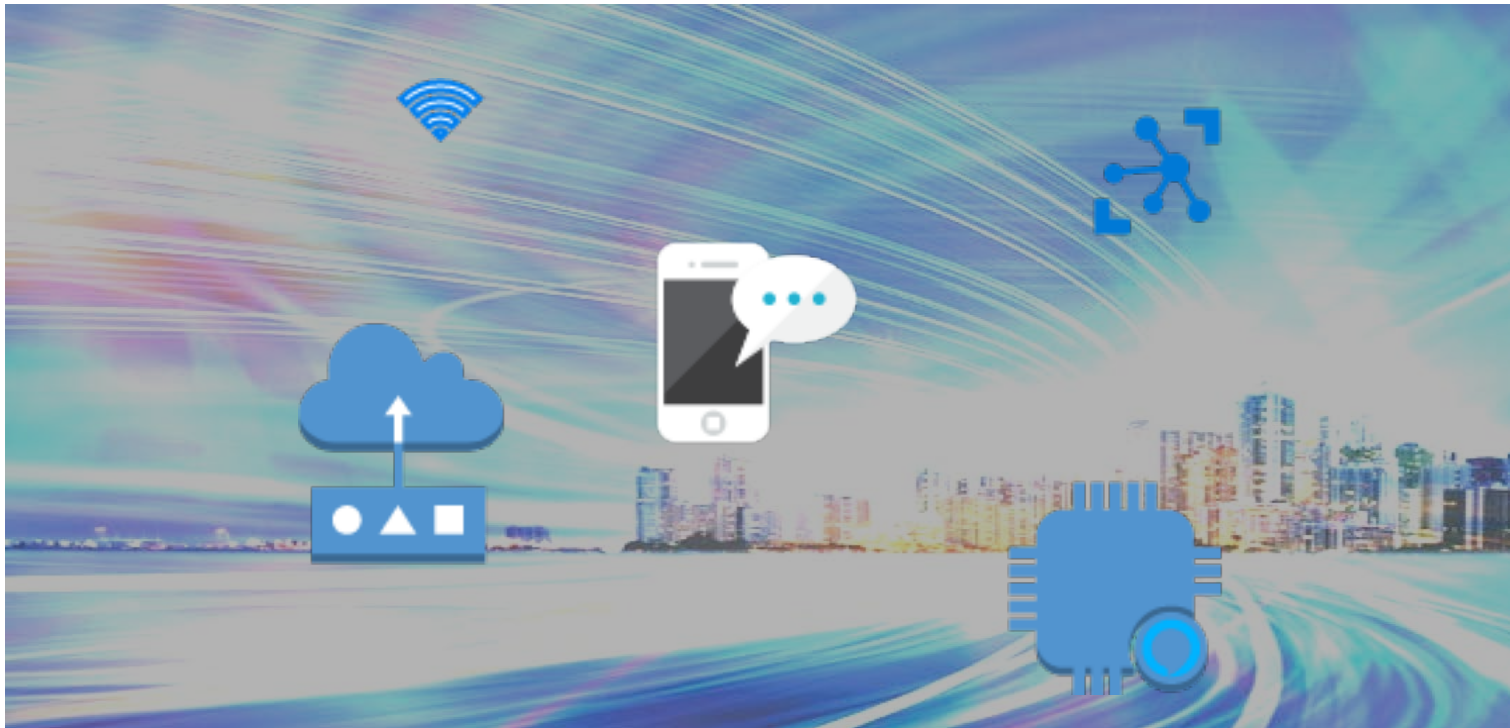


IoT Applications at National Level



Central Informatics Bureau

June 2017

What is the Internet of Things?

IoT

- *Definition* - A collective of network enabled machines or devices that can interact with each other as well as with their environment by collecting and exchanging data.
- Smarter systems - as remote sensors can collect and transmit data to systems in real time.
- Informed decision-making purposes - ***Data can be aggregated and analysed***
- By 2020, there will be 20 billion IoT devices in the world - (***source: Gartner Inc, 2015***)
- Unprecedented Opportunities for Government

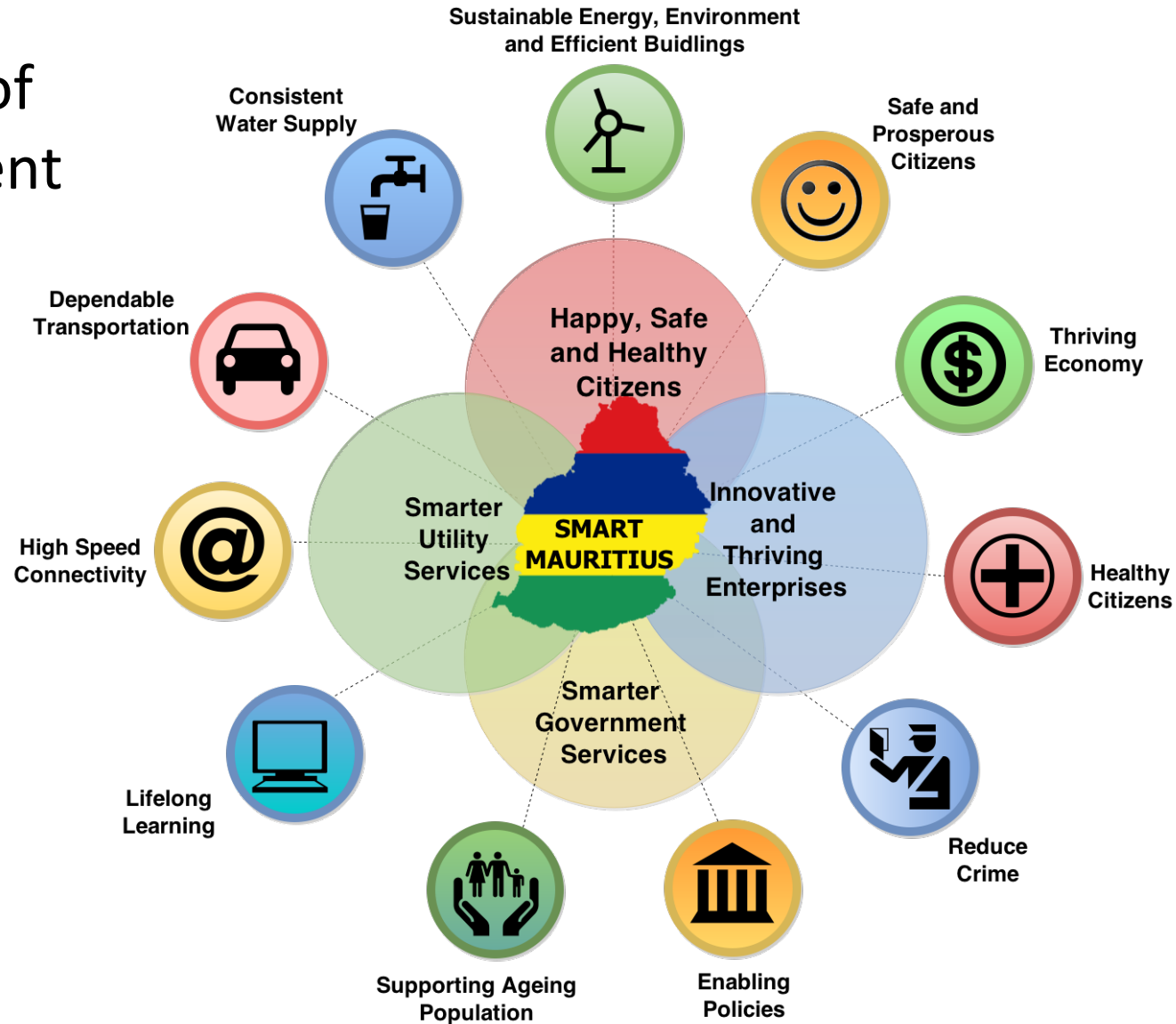


Internet of Things in the Public Sector

E-Government

- Implementation of Projects in different socio-economic sectors e.g.

- Health
- Education
- Transport
- Tourism
- Agriculture
- Law and Order
- Financial Services
- Gender
- ICT among others



Applications of IoT – Emergency Management

Emergency Management

- Real-time information
- Decisions based on the most recent information
- Unmanned vehicles
- Reduce the risk to first responders on the scene
- Allow previously inaccessible information to be gathered
- Inform better response decisions.



Applications of IoT – Smart Energy

Smart Energy

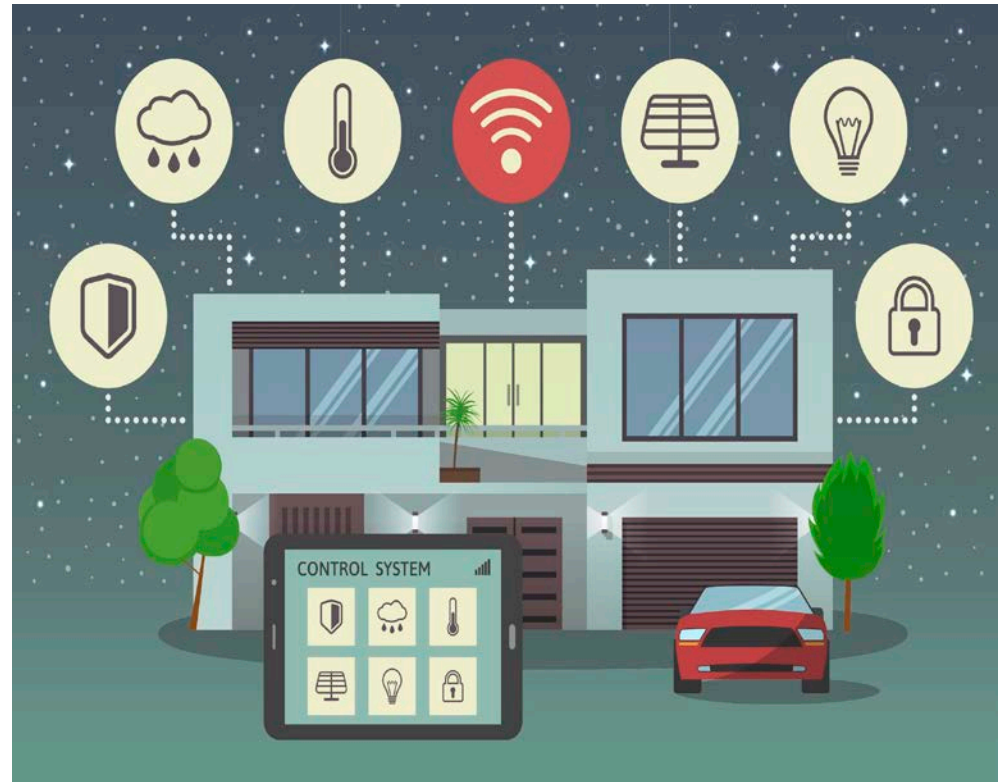
- Smart sensors such as humidity, light and temperature sensors
- Automatically monitor and adjust energy levels in buildings.
- Optimisation of energy resources and reduction in energy costs.



Applications of IoT – Smart Cities

Smart Cities

- Citizens can have access with important feedback such as:
 - ✓ quality of air and water
 - ✓ consumption of energy resources in a Smart City
- Using a network of smart sensors and meters.



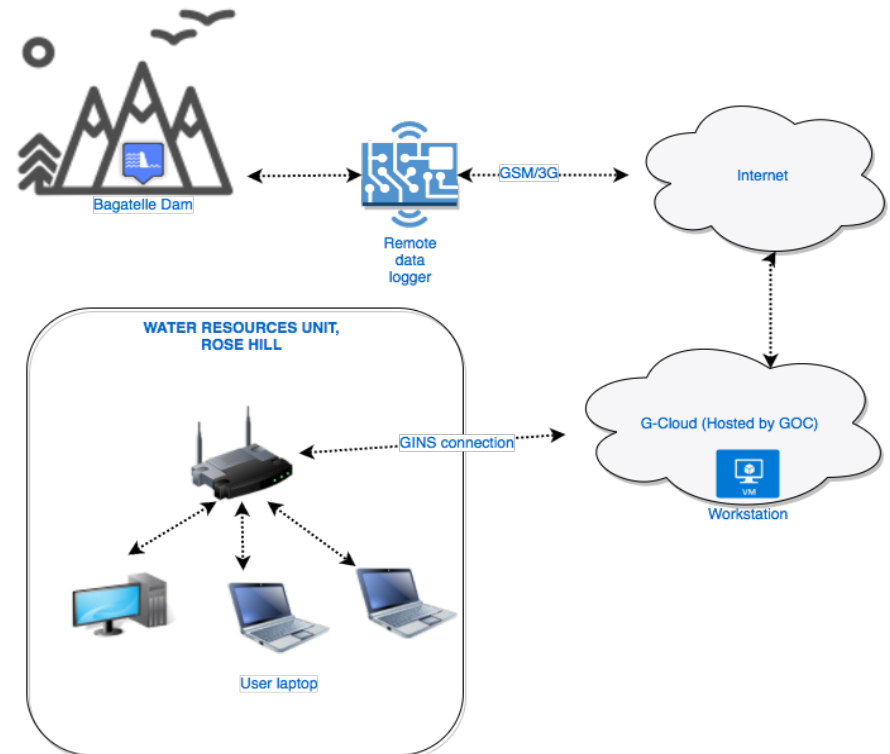


Current Implementation of IoT by the Government of Mauritius

IoT projects in Mauritius – Water Level monitoring at Bagatelle Dam

Water Level monitoring

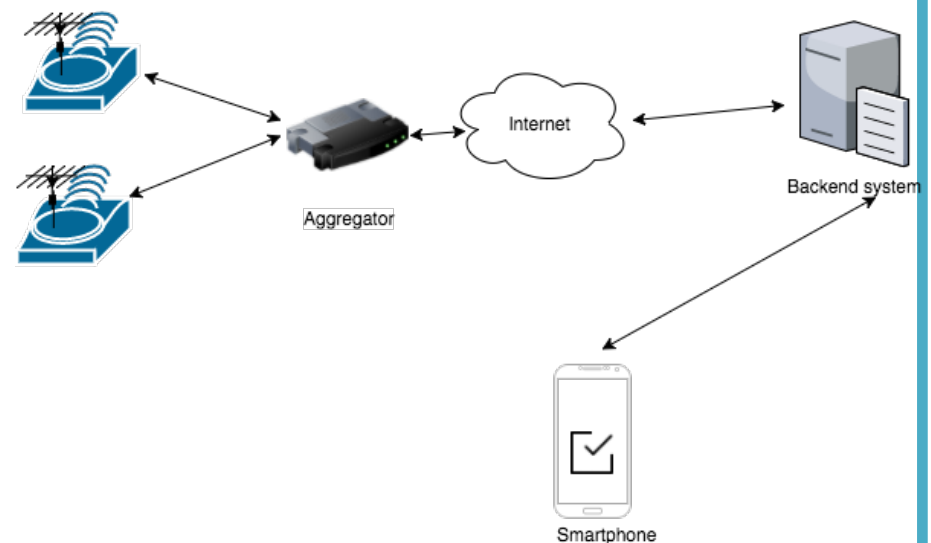
- Timely information regarding the water level in the Bagatelle dam
- Real-time monitoring
- eliminates the need for physical commutes for recording of data.
- Report generation and alerts are automated.



IoT projects in Mauritius – Air quality monitoring

Air quality monitoring

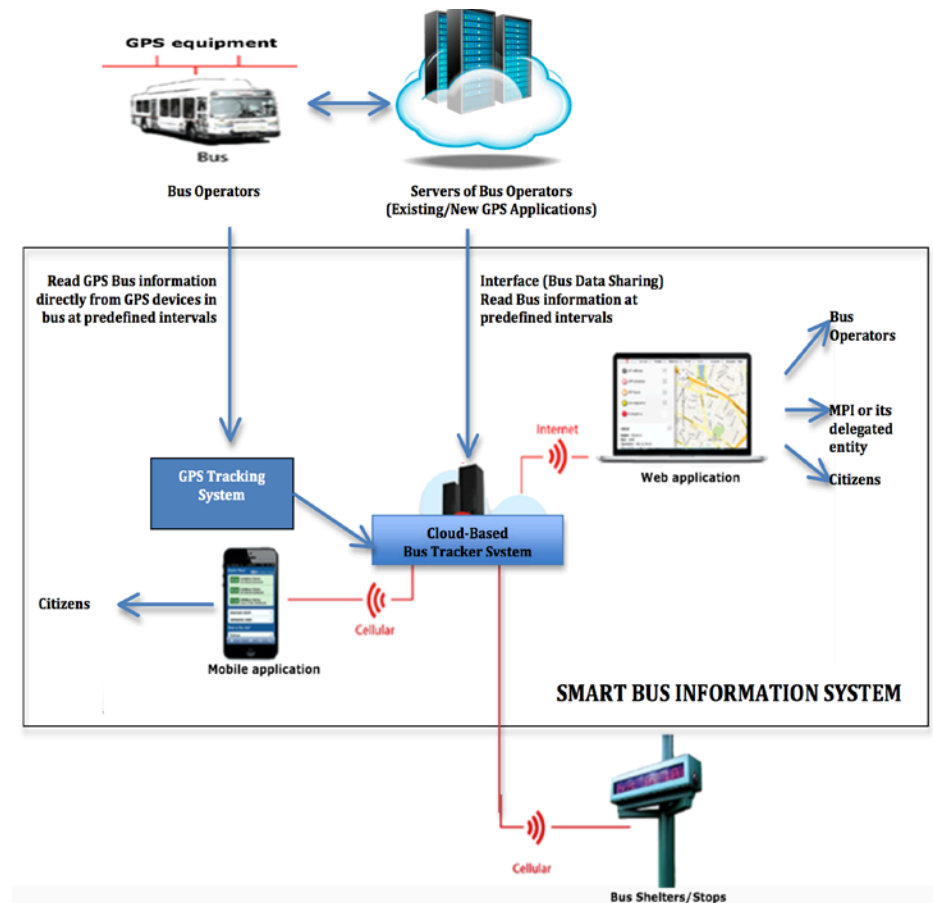
- Accurately predict and sense air quality in real time
- Data can be used to inform citizens about the air quality index in certain areas in Mauritius.
- Automated tracking and combatting pollution.
- Better management of urban environment by monitoring emission of CO₂ and other pollutants.



IoT projects in Mauritius – Smart Transport

Smart Transport

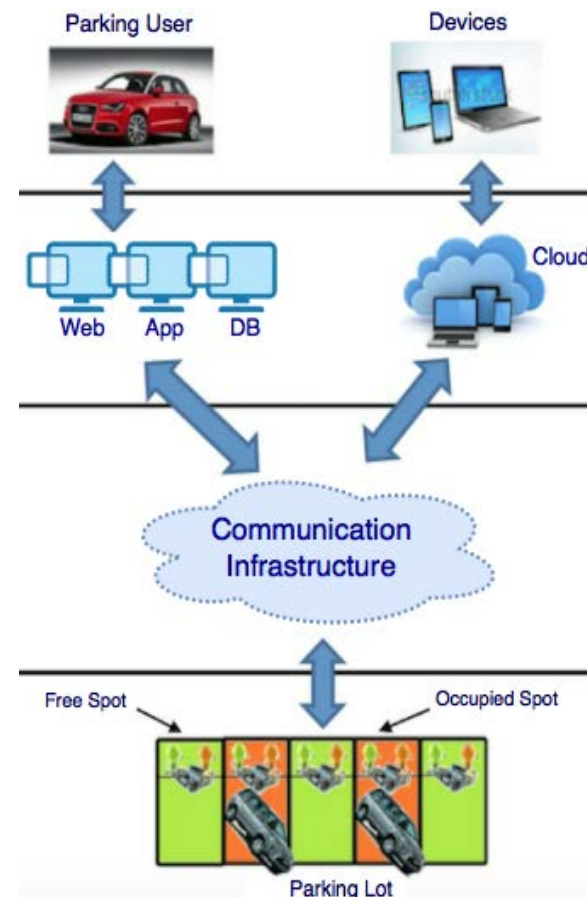
- Real-time information on bus arrival times, waiting times at bus stops, occupancy among others.
- Better trip planning and improved bus service for travellers
- Better management of buses and optimisation of bus routes



IoT projects in Mauritius – Smart Parking

Smart Parking

- Track and monitor parking spaces in real-time
- Provide nearest available parking information to citizens.
- Optimisation of parking spaces in cities
- Enhance the parking experience of travellers
- Alleviate traffic flow in traffic-dense areas.



The Future of IoT in Mauritius

Other projects

Public Sector can take advantage of IoT :

- to gain efficiencies and
- cost savings and
- to enhance the quality of life of Citizens across various sectors

Areas requiring further attention

- Connected Island
- investments in latest infrastructure
- Capacity Building

Examples of future applications

- Healthcare innovations
- Common problems e.g. reduction of accidents.

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THANK YOU