



THE UNITED REPUBLIC OF TANZANIA

TANZANIA COMMUNICATIONS REGULATORY AUTHORITY



EXPERIENCE AND CHALLENGES OF MANAGEMENT OF M2M/IOT NUMBERING PLAN IN TANZANIA

PRESENTED By: TCRA





AGENDA

M2M / IOT Numbering Plan in Tanzania



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Structure / Plan

Assignment

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Future Existence?



1. Introduction



2019

M2M/IoT numbers were introduced to the National Numbering Plan to accommodate the data transfer between machines or applications with little or/no human interaction between devices and

Beyond 2019

M2M applications used a normal mobile number range



To avoid possible exhaustion of the existing Mobile Number Ranges



Foreseen growth of M2M application /services



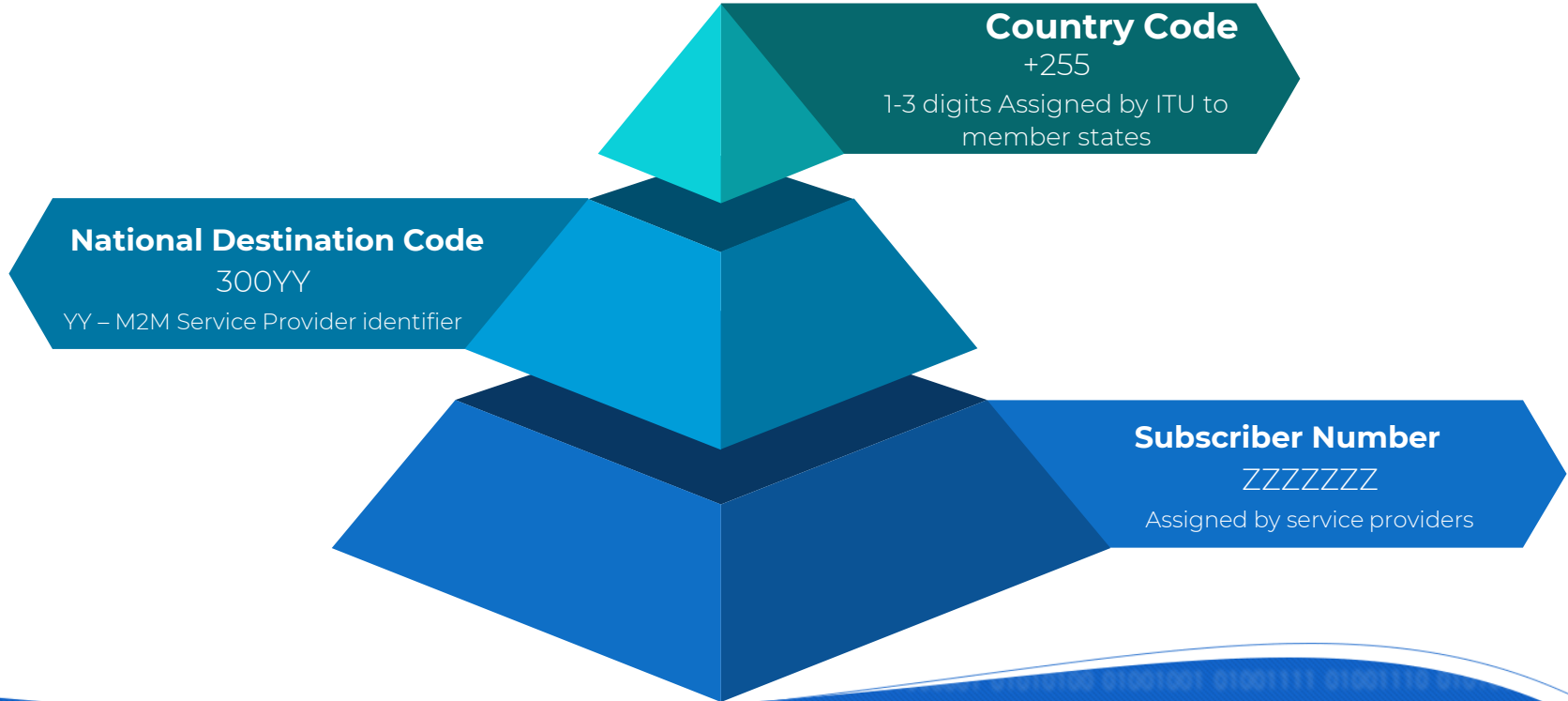
Demand from consumers



2. M2M/IoT Number Structure/Plan

15 digits number as per ITU-T E.164

Recommendation
+255300YYZZZZZZZ





3. M2M/IoT Numbering Assignment



Criteria of Assignment

Applicants require Application Service License. M2M may obtain M2M numbers from MNOs.

M2M Numbers Assignment

All applications, renewals and payments are through the online licensing system.

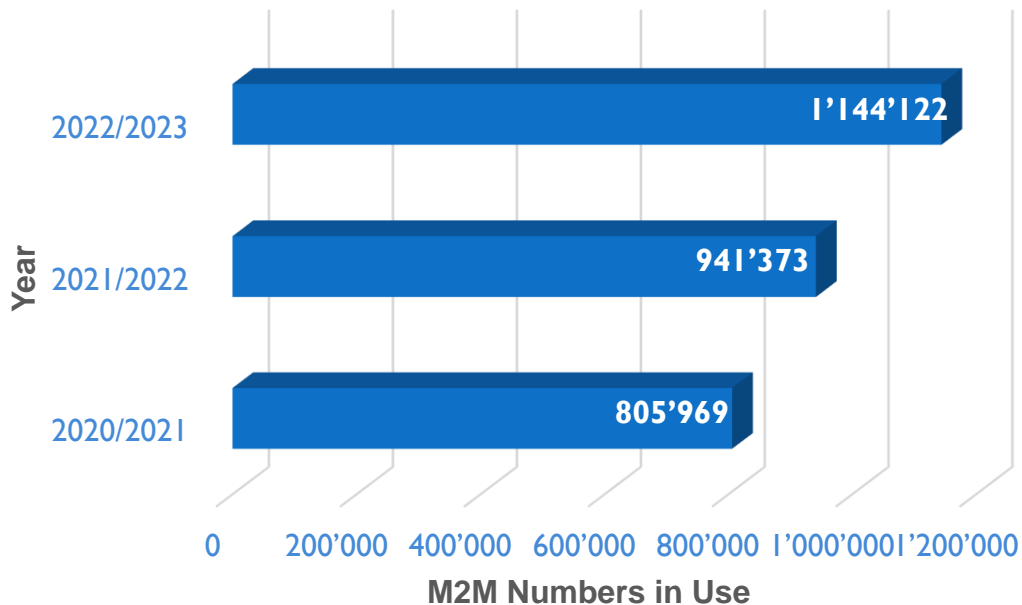
Assignment is on annual basis.

M2M numbers are provided in blocks.



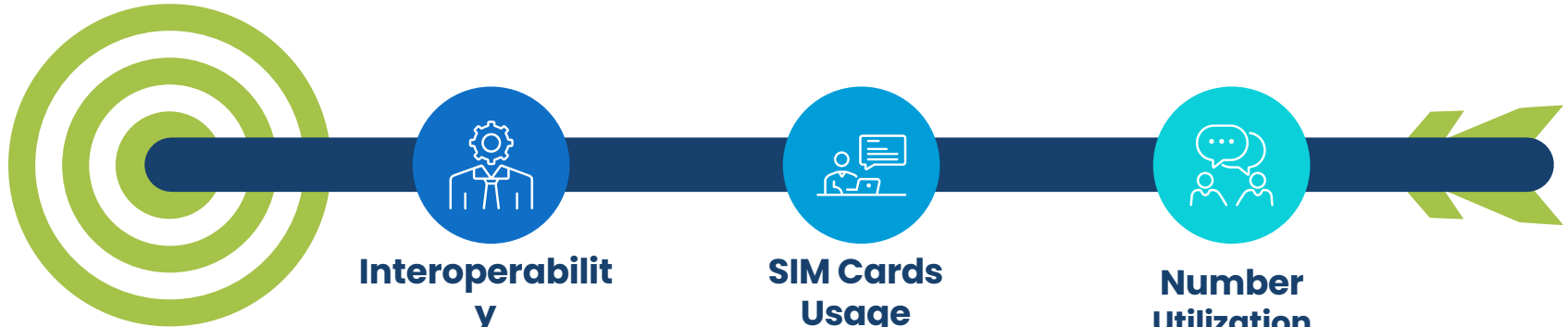


4. Trend of Use of IoT / M2M Numbers





5. Regulatory Requirements



Interoperability

Interconnection/interoperability among MNOs.

SIM Cards Usage

- Guided by EPOCA (SIM Card Registration) Regulations, 2020.
- Devices with e-SIM shall be allowed upon approval from the Authority

Number Utilization

- Submit the utilized subscriber numbers in the assigned M2M/IoT number block.



6. Use Cases of IoT/M2M Numbers



Fleet Management

Fleet control, fleet tracking, stock taking, fuel consumption



Point of Sales

Communication in payment terminals such as parking meters and

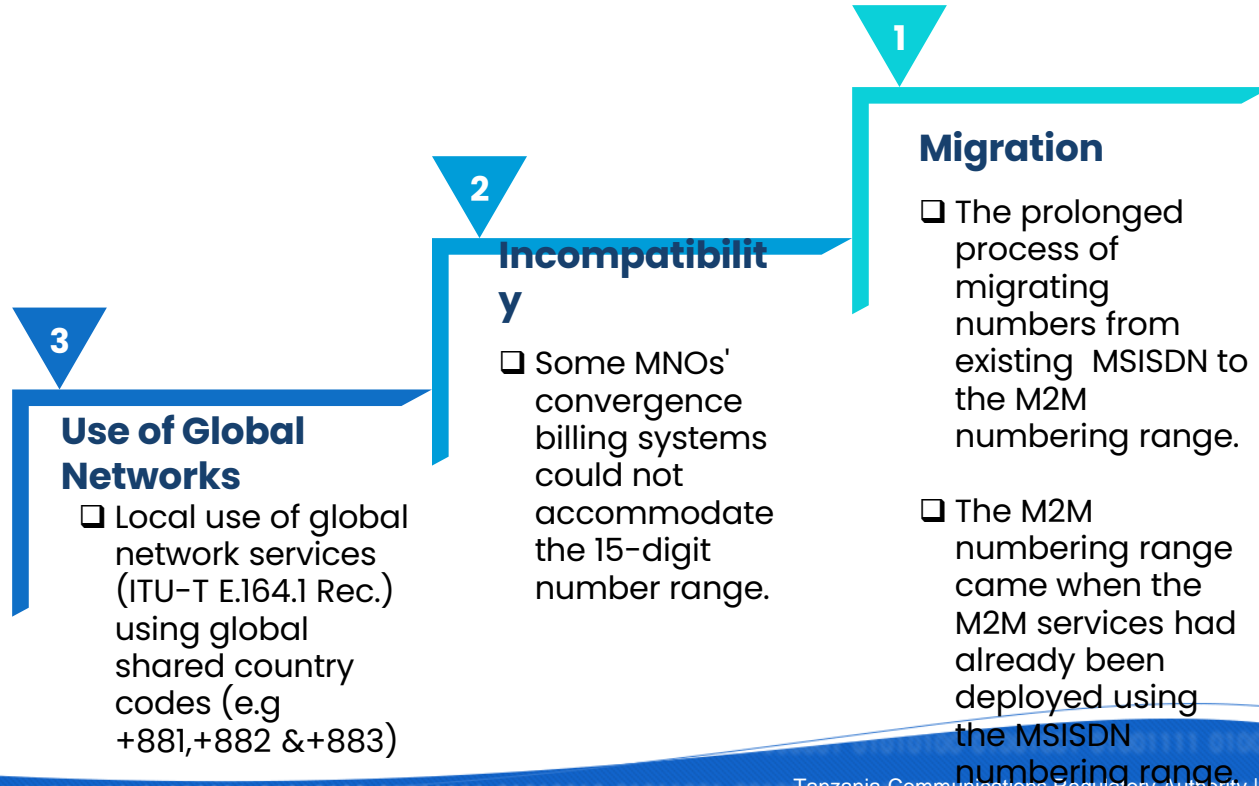


Security and Surveillance

Communication with security gadgets such as gate controllers, motion



7. Challenges Observed





8. Future Existence of M2M/IoT Numbers



Food for thought!!



Will Internet addresses become alternative numbers for M2M/IoT numbering Plan?



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