



Opportunity for IMT Spectrum Sharing in Kenya

2024-25

Analysis Studies on Opportunity of **Spectrum Sharing for** Non-Public Networks in Kenya

Findings

NPNs present an opportunity for widening and deepening wireless broadband access.

NPNs present an opportunity for Industry 4.0 deployments.

New Objectives

Commenced

From Pilot to Policy 1. Deployment of NPN Network 2. Policy Recommendations for Licensed **Shared Access**

Priority Bands: 1800 (band 3)

3.6-4.2 GHz (n77 & n78)

Conduct Technical & Spatial

Analysis of Target Spectrum

Bands for NPN Deployments

Conduct Interference

Monitoring and Validation

Authorisation of NPN through

Regulatory Sandbox

https://sandbox.ca.go.ke/

2025-2026

Stakeholder/ **Industry Collaboration**

Framework for **NPN Deployments** in Kenya

Outputs

DSA

Framework for **Licensed Shared** Access for IMT Spectrum

Pilot a community network running a sustainable NPN.

(Namelok CN // SERE CN)

Demonstrate Industry 4.0 innovations, Campus Network (Umma University) & Enterprise Network (Orly Airpark)

Outputs

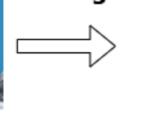
Testbed NPN Network

Internet Society

Demonstrable use cases for innovation

Legacy Challenges:

- 1. Balance Between Competition and Deployment Encourage active capacity sharing.
- Conventional public networks' limited ability to support use cases due to various factors.



Local License

Germany (3.5 GHz)

Flexible Use Licensing Model Canada (3.650-4200 MHz)

REGION 2 Tiered Spectrum Sharing Model US CBRS (3.5 GHz)

REGION 3

Light Licensing 1. France (2575-2615 MHz) 2. Netherlands (1800, 3.4-3.45 GHz,

3.75-3.8 GHz)

4. UK (1800, 2300 MHz, 3.8-4.2 GHz) REGION 3

REGION 1

Shared Access/Local Licence Models:

. UK (1800, 2300 MHz, 3.8-4.2 GHz)

Belgium (3.8-4.2 GHz)

2. Finland (2.3-2.32 GHz

3475, 3700-4200 MHz)

Private 5G Network

S. Korea (4.72 - 4.82 GHz)

LP Local Wireless

Broadband, Australia (3400-

Recommendation 1: Deployment of a Pilot NPN Network in one of the **Rural Counties**

Recommendation 2: Stakeholder **Engagement on Regulatory Models** for NPNs



CA REGULATORY SANDBOX

The Regulatory Sandbox allows testing of innovative products, solutions, and services that have the potential to deepen or broaden the Kenyan ICT markets and support technology transfer or commercialisation of research and innovation initiatives.

















