



Infrastructure Sharing

Image courtesy jbdodane CC BY NC

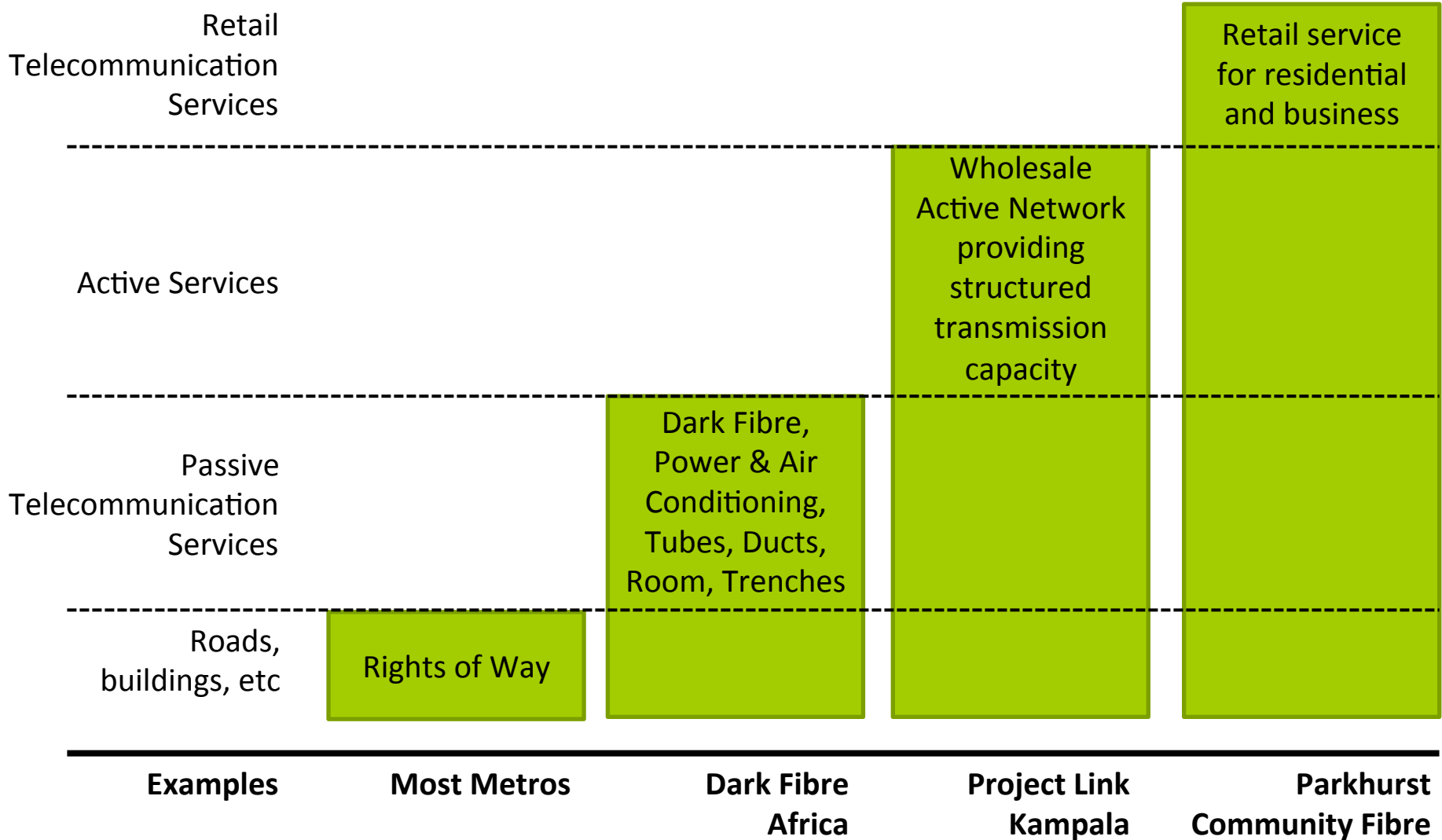


UNIVERSITY OF OREGON

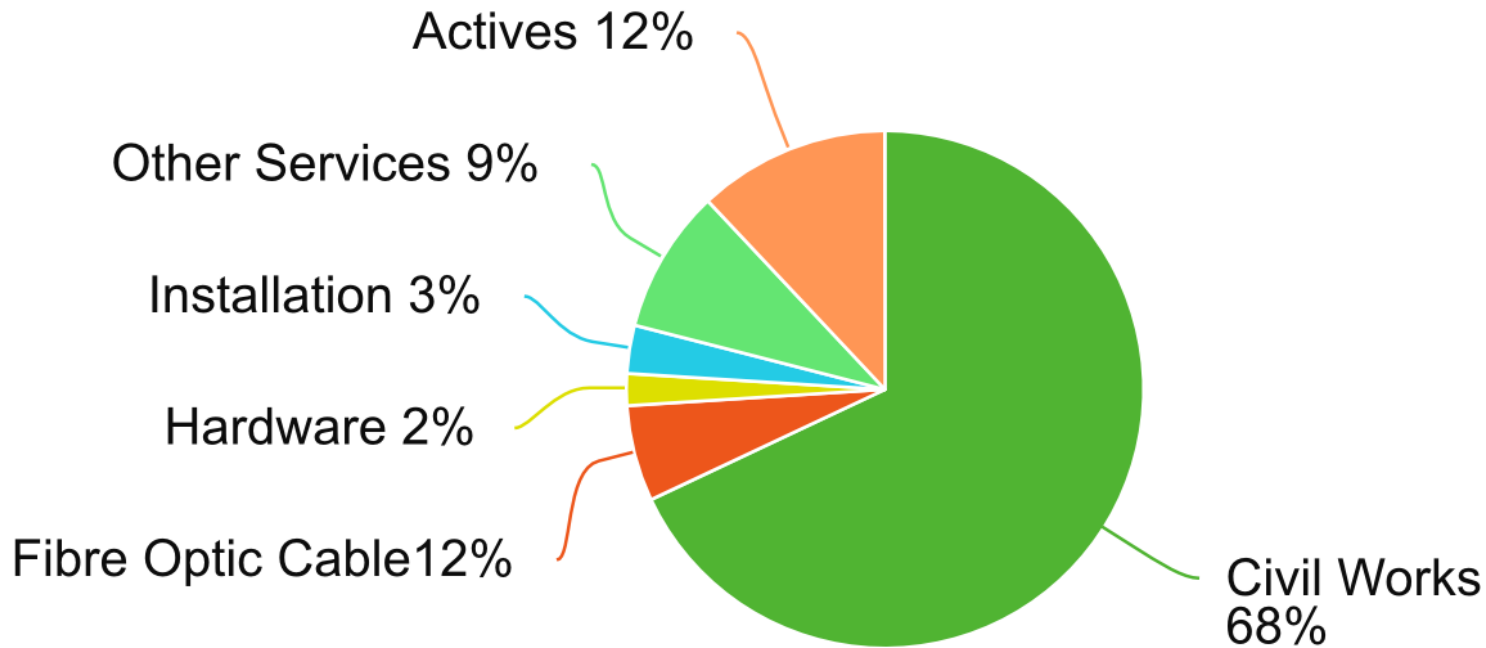




Types of Fibre Sharing



First year cost of rolling-out a new fibre network



Source: OECD



Rights of Way



- A key obstacle to deployment
- Important to manage strategically
- Like spectrum licenses, can be seen as a revenue stream by authorities



Technology and Sharing

	Wireless	Fibre
National	<p>Wholesale Licensed Spectrum Sharing e.g. 700MHz Rwanda, Mexico Shared passive and/or active infrastructure</p>	<p>National PPPs for backhaul networks e.g. Colombia national network</p>
Metropolitan	<p>Metro WiFi e.g. Tshwane, South Africa; Kigala, Rwanda</p>	<p>Metro fibre networks. e.g. PPP Stockholm, Cape Town, Johannesburg Private -- Project Link, Kampala</p>
Subscriber	<p>Community wireless projects e.g. Guifinet, Spain WiFi and Television White Spaces</p>	<p>Fibre To Community / Curb / Home (Within last 5 years) e.g. Parkhurst, Johannesburg</p>



Wireless Spectrum

Licensed Spectrum (Mobile)

Exclusive Rights

High Demand

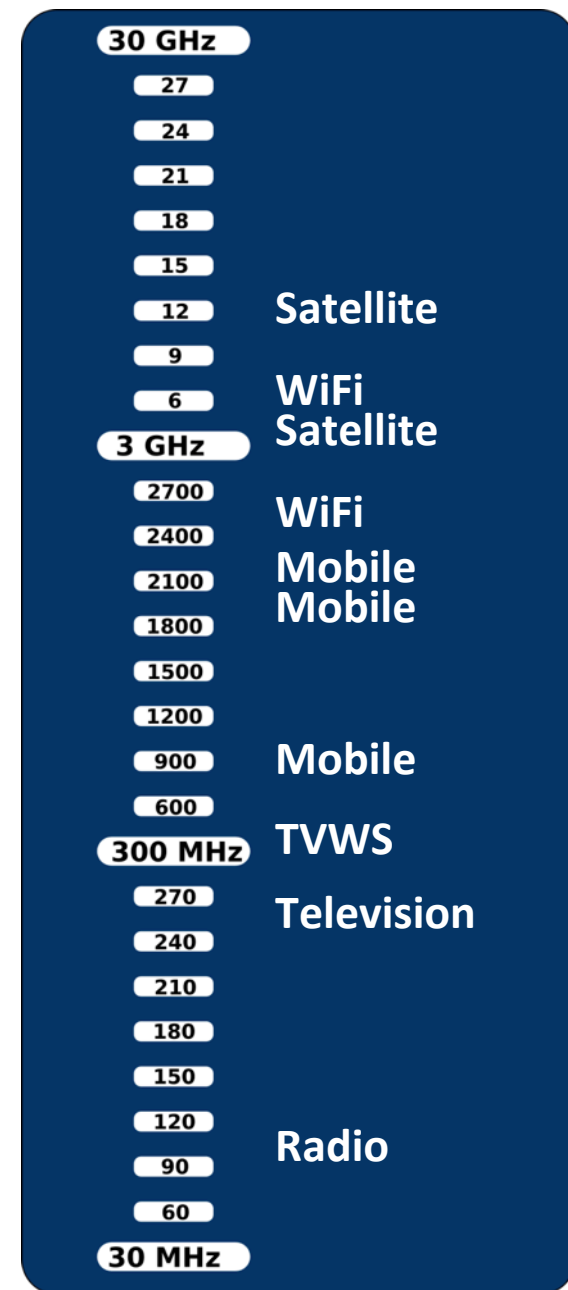
Auctions vs Beauty Contests

Unlicensed Spectrum (WiFi)

Grassroots success

Dynamic Spectrum (TVWS)

Policy-based radios



Significance of Spectrum Frequencies

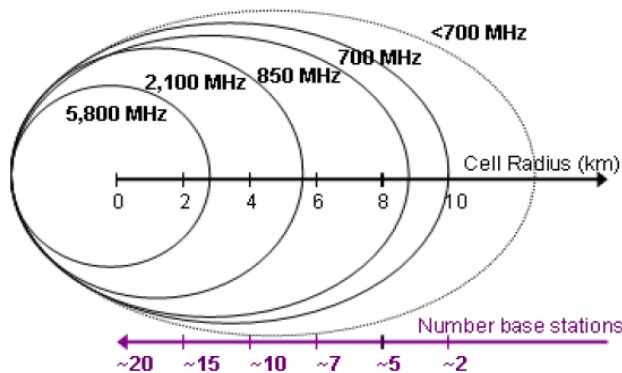


Figure 2. The propagation characteristics of spectrum
Source: BBC R&D.

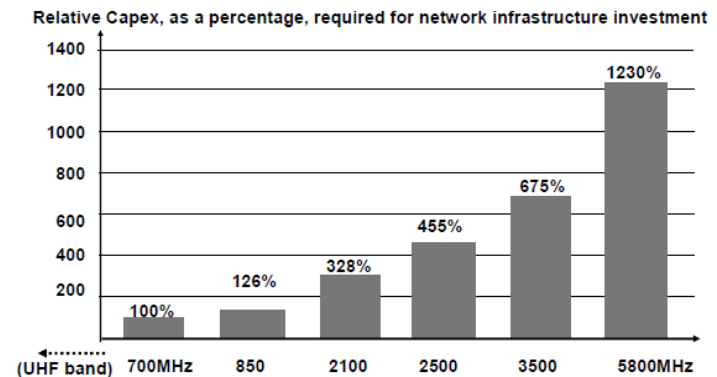


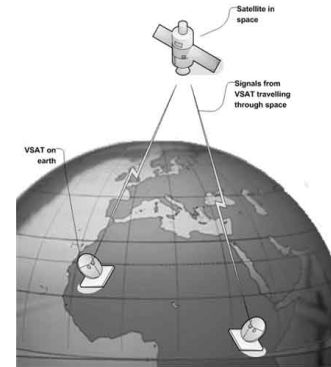
Figure 3. Lower frequencies reduce costs of infrastructure and communications
Source: BBC R&D.

Superior propagation characteristics of lower frequencies translates to lower CAPEX

Types of Spectrum Sharing



Geography



Orientation



Noise Floor



Time



R1.2bn bill looms for fibre optic farce

Olebogeng Molatlhwa | 05 January, 2015 00:12



City of Johannesburg councillors will decide this month whether to pay R1.2-billion for a broadband network that remains unused 18 months after it was expected to deliver fast internet throughout the metro.

SAVE & SHARE

The Times understands that the matter has pitted mayor Parks Tau and his mayoral committee, who are in favour of paying, against the

TODAY

THIS WEEK

1



R23bn stashed in Swiss banks

2



Axe-attack victim 'speaks'

3



Babies found preserved in couple's fridges

4



'No1 tsotsi' will be heckled even before he starts speaking

5



Global warming: Science's biggest scandal

READ MORE POPULAR STORIES

André Brink's wife in shock



'Me worry? Not a chance'



One Shared Technology Can Enable Another



HOME START-UPS SOCIAL MEDIA + **TECH +** WOMEN IN TECH COOL TECH JOBS + EVENTS + INNOV8TIV-TV INNOV8TIV U

INNOV8TIV TV

Tech Invention Allows Remote "Touching"

Free Wi-Fi Program Dubbed Smart Kigali Enhancing Rwanda's Productivity

Milicent Alieno March 1, 2014 Hardware, Tech 0 Comments

f 21 t 0 g+ 0 p 0 in 0 v 0

Free Wi-Fi Program Dubbed Smart Kigali Enhancing Rwanda's Productivity

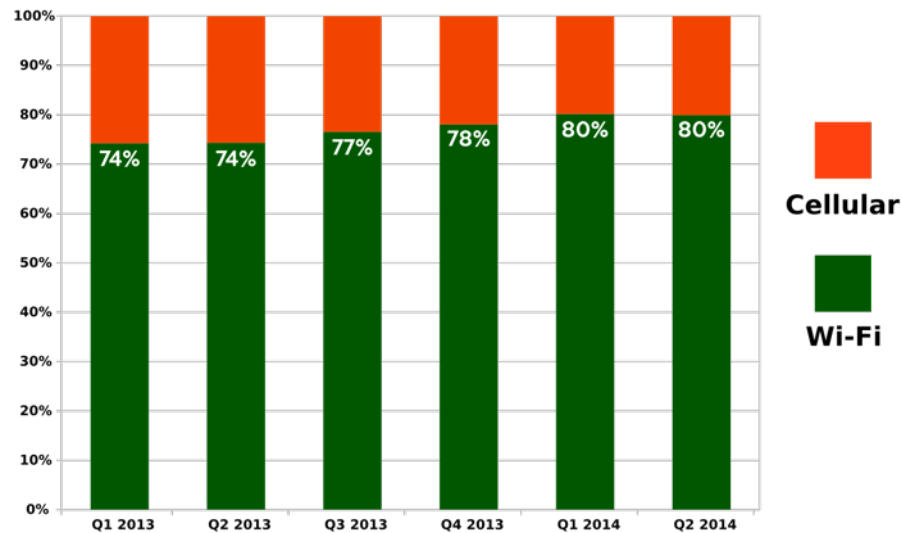
Kigali can now boast to be one of the most connected cities in Africa thanks to an initiative dubbed **Smart Kigali**. This initiative is meant to enhance the lifestyle of the Kigali residents and those of visitors through use of ICT. This initiative was brought about by a partnership between the City of Kigali through the Ministry of Youth and ICT (MYICT).

Wi-Fi

SEARCH

GOT NEWS FOR US?

Smartphone Data Traffic: WiFi vs Cellular



Source: Mobidia



UNIVERSITY OF OREGON



Best reason for sharing

