



INFORMATION AND COMMUNICATION TECHNOLOGIES IN LDCS (ZAMBIA'S CASE)

**By
G. M. Akapelwa-Ehueni**

**Digital Inclusion for the Least Developed
Countries: Innovation, Growth and
Sustainability**

**2010 Statistics for Zambia and
Government Policy**

**Framework for ICT Regulation
in Zambia**

**Overview of the ICT Indicators
in Zambia**

Role of ZICTA in Promoting UA

**Universal Access Projects in
Zambia**

Way Forward and Challenges

**Digital Inclusion for the Least Developed
Countries: Innovation, Growth and
Sustainability**

**2010 Statistics for Zambia and
Government Policy**

**Framework for ICT Regulation
in Zambia**

**Overview of the ICT Indicators
in Zambia**

Role of ZICTA in Promoting UA

**Universal Access Projects in
Zambia**

Way Forward and Challenges

**Digital Inclusion for the Least Developed
Countries: Innovation, Growth and
Sustainability**



Zambia

Area: 752,618 Km²

Population : 13,046,508
Pop. Density: 17 per km
GDP : US\$15.69 Billion
Per Capita: US\$ 1,203



ZAMBIA

Digital Inclusion for the Least Developed
Countries: Innovation, Growth and
Sustainability



- Zambia's position makes it a natural hub for investment in the ICT sector.
- Its citizens have good educational levels with excellence in English language which ranks the country among the very best on the African continent.
- Its relations with many countries making it an investment- friendly destination.

National Information and Communication Technology policy

- To ensure that ICT infrastructure and services are available to and affordable for the greatest possible proportion of the population *by* encouraging the deployment of ICT assets and infrastructure that will enhance the provision of ICT services
- To promote cost-effective *last-mile* technologies for providing access to commercial and public information services by communities, especially in rural and underserved areas;
- To promote a stable, fair and competitive investment climate to facilitate the development of E-Commerce activities in the economy;
- To facilitate the development of an effective, industry-responsive, timely legal and regulatory system capable of supporting the development and growth of the ICT sector;

**2010 Statistics for Zambia and
Government Policy**

**Framework for ICT Regulation
in Zambia**

**Overview of the ICT Indicators
in Zambia**

Role of ZICTA in Promoting UA

**Universal Access Projects in
Zambia**

Way Forward and Challenges

**Digital Inclusion for the Least Developed
Countries: Innovation, Growth and
Sustainability**

Investment Climate

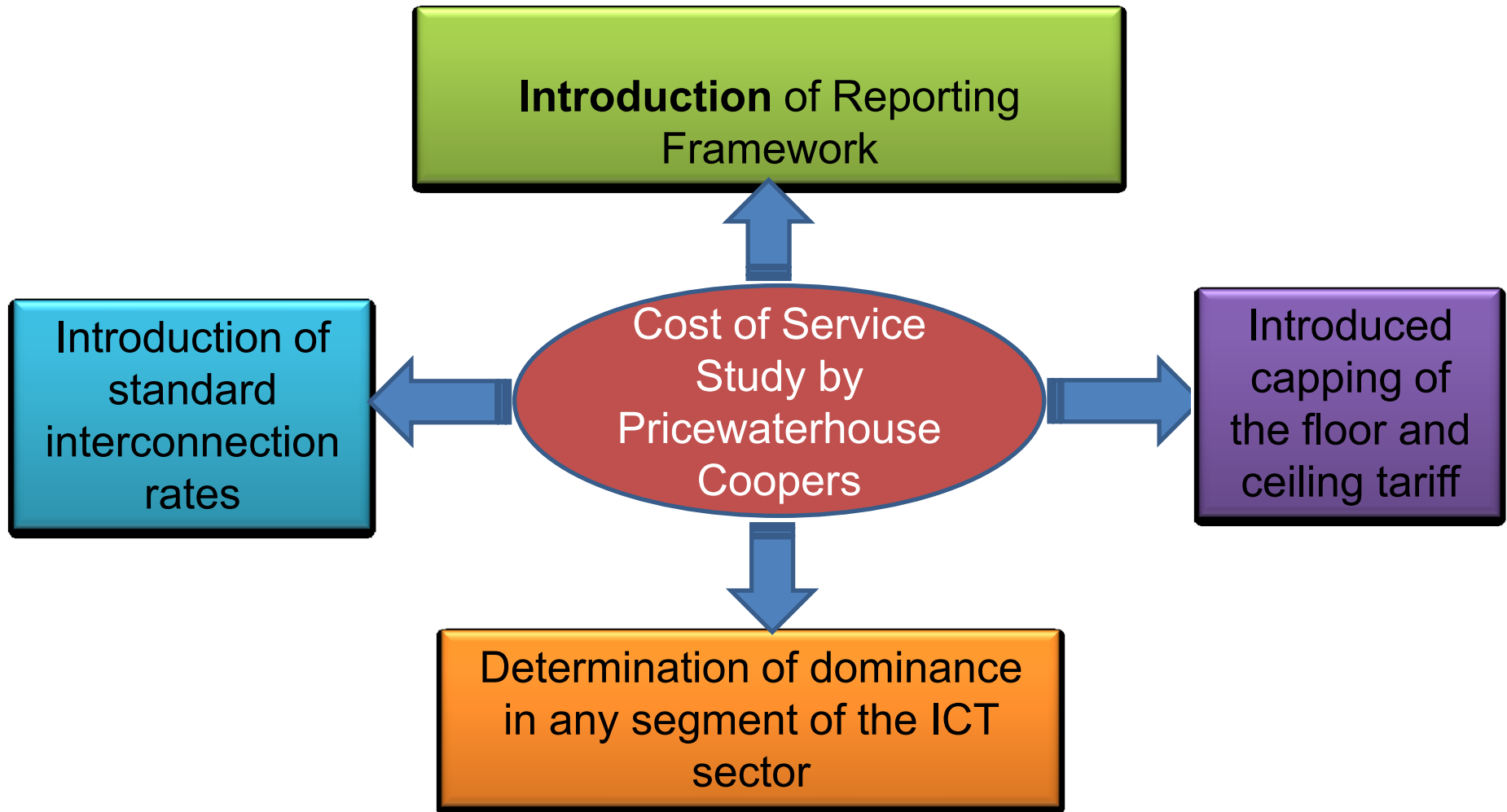
- **Our Government decided to encourage private investment for stronger economic performance.**
- **It also decided that private sector must drive the economy and create wealth and job opportunities.**
- **It enacted the Zambia Development Agency (ZDA) act of 2006 assuring investors that property rights shall be respected.**

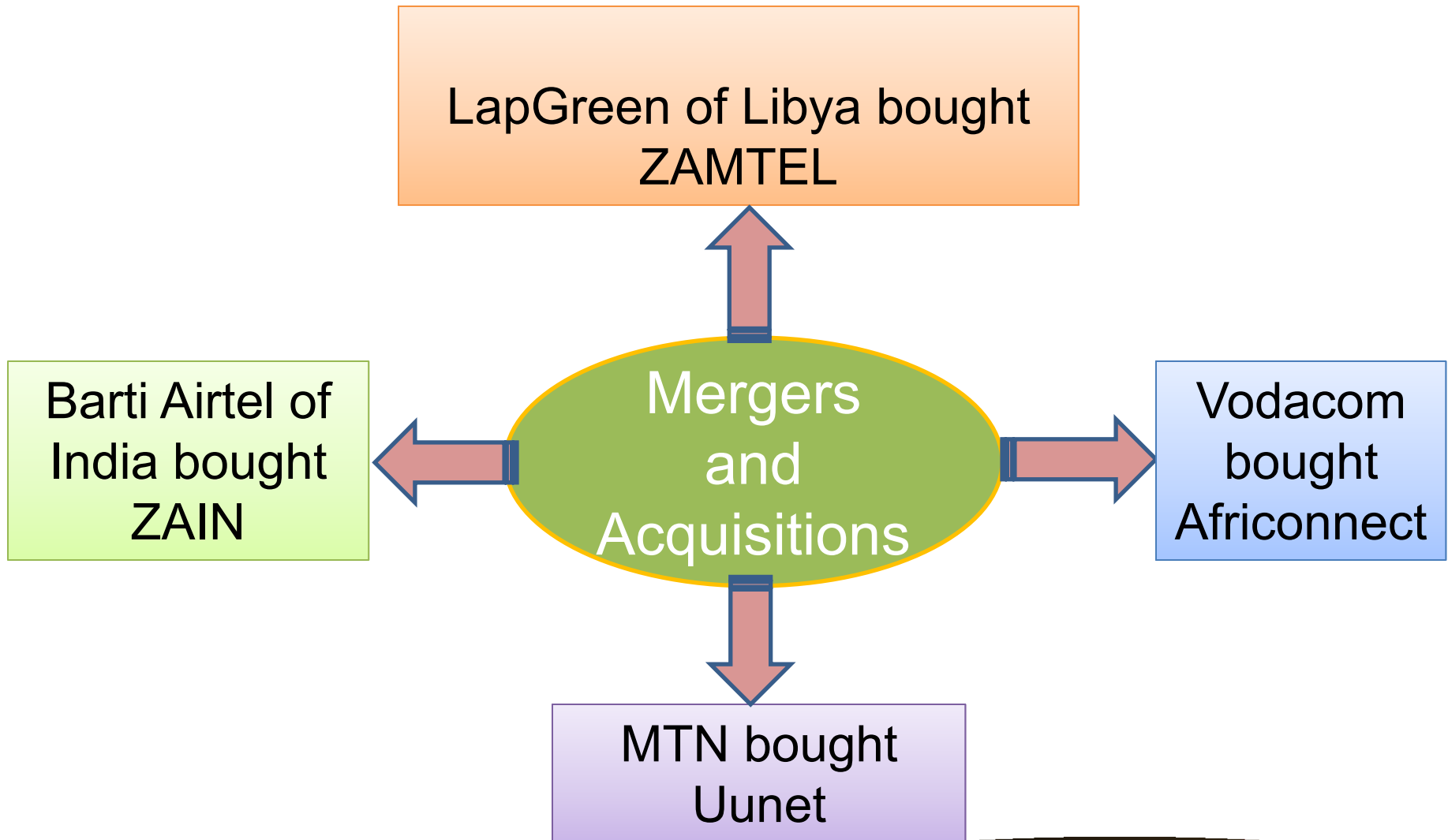
ZICTA'S FUNCTIONS

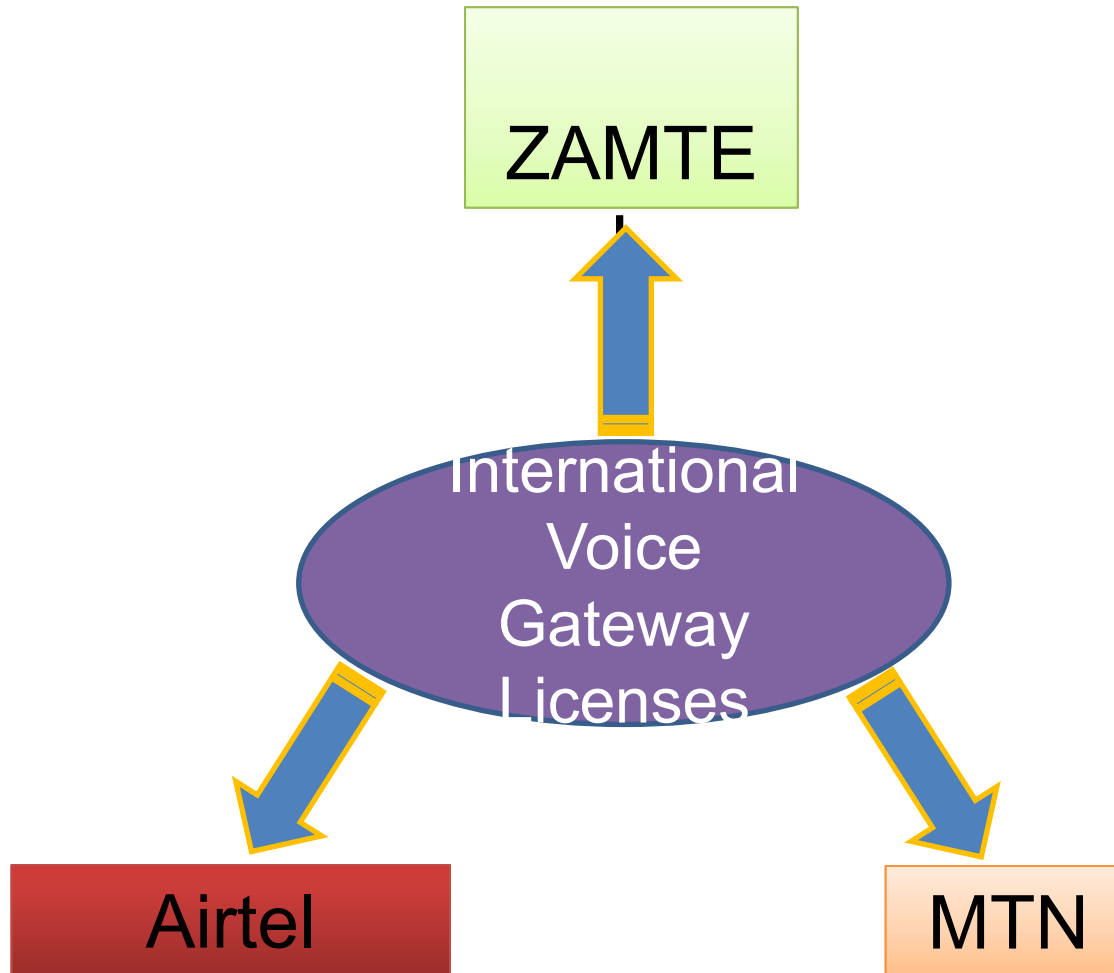
- **Ensure universal access**
- **Ensure the provision of ICT services;**
- **Facilitate the development and seamless connectivity ICT infrastructure; and**
- **Manage finite resources**

LEGAL FRAMEWORK

- **ICT Act of 2009**
- **Postal Services Act of 2009;**
- **ECT Act of 2009**







**2010 Statistics for Zambia and
Government Policy**

**Framework for ICT Regulation
in Zambia**

**Overview of the ICT Indicators
in Zambia**

Role of ZICTA in Promoting UA

**Universal Access Projects in
Zambia**

Way Forward and Challenges

**Digital Inclusion for the Least Developed
Countries: Innovation, Growth and
Sustainability**

MOBILE TELEPHONY

MOBILE SUBSCRIPTION TRENDS

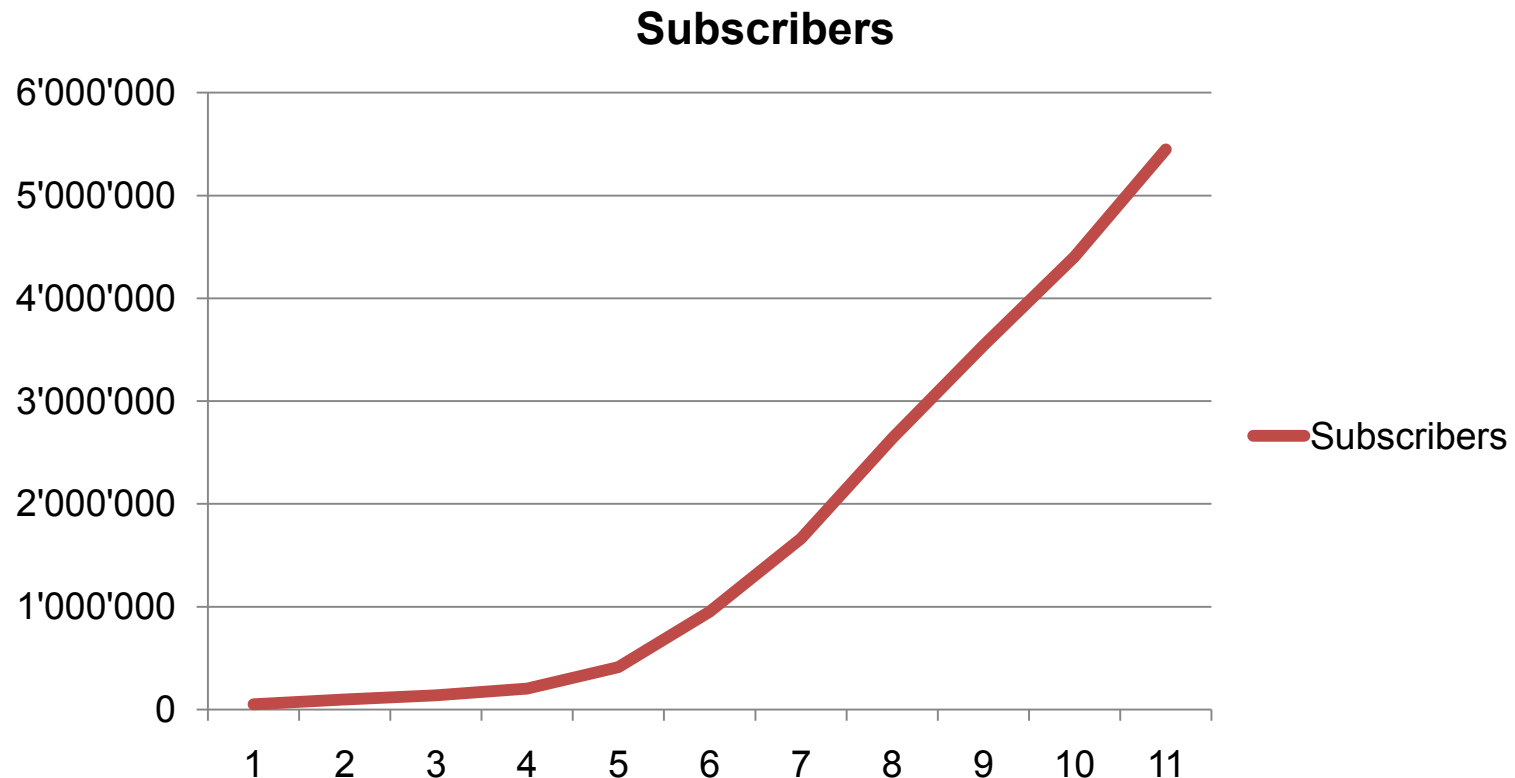
Year	Subscribers	Per 100 Inhabitants	Growth Rate (%)
2000	49,957	0.505	31.5
2001	97,900	0.97	96
2002	139,258	1.338	42.2
2003	204,150	1.895	46.6
2004	413,120	3.725	102.4
2005	949,558	8.299	129.8
2006	1,663,051	14.369	75.1
2007	2,639,026	22.539	58.7
2008	3,539,003	26.955	21.5
2009	4,406,682	32.28	17.67
2010	5,446,991	40.14	24

Sourced: Operators

Digital Inclusion for the Least Developed
Countries: Innovation, Growth and
Sustainability

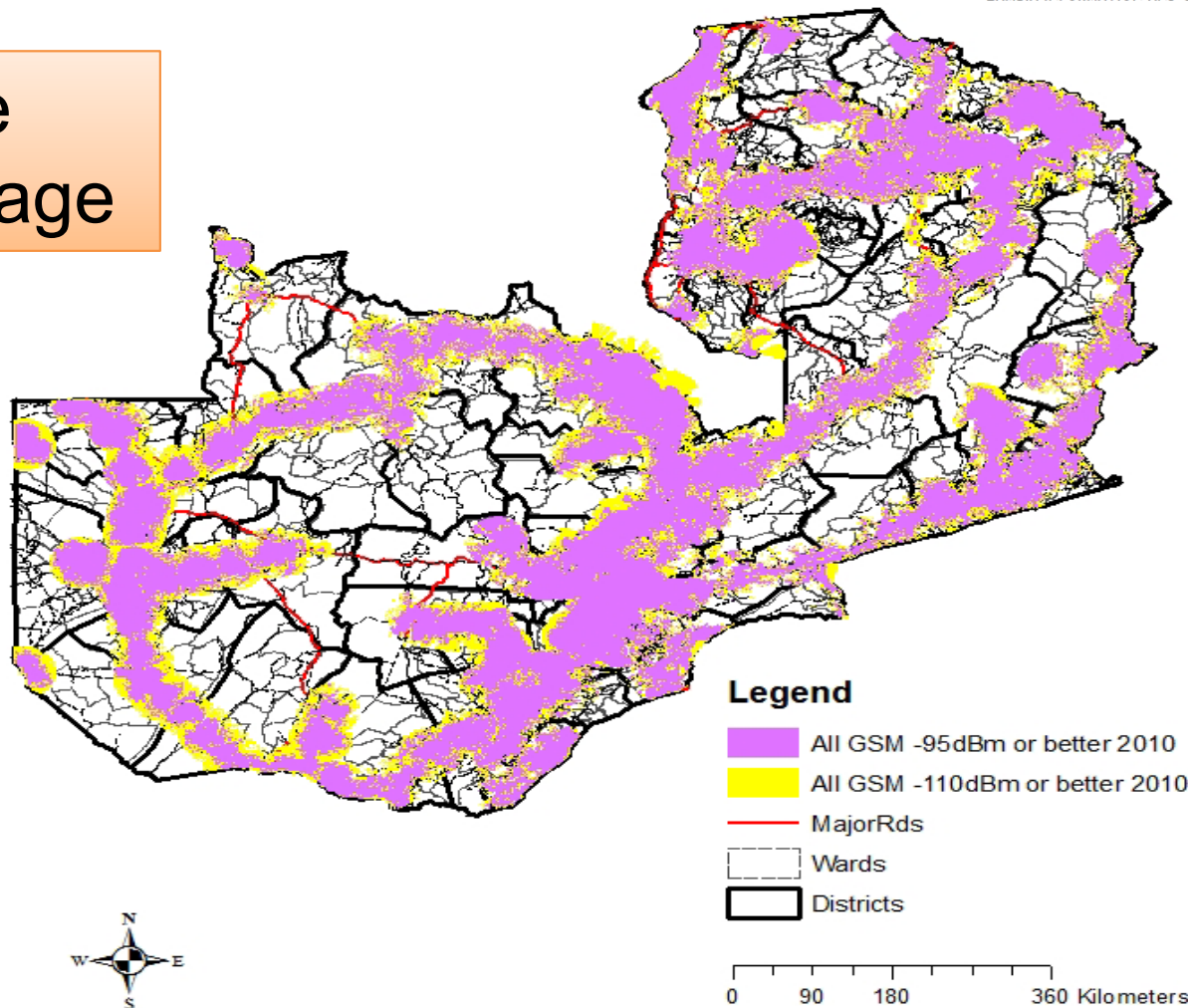
MOBILE TELEPHONY

MOBILE SUBSCRIPTION TRENDS



Sourced: Operators

Mobile Coverage

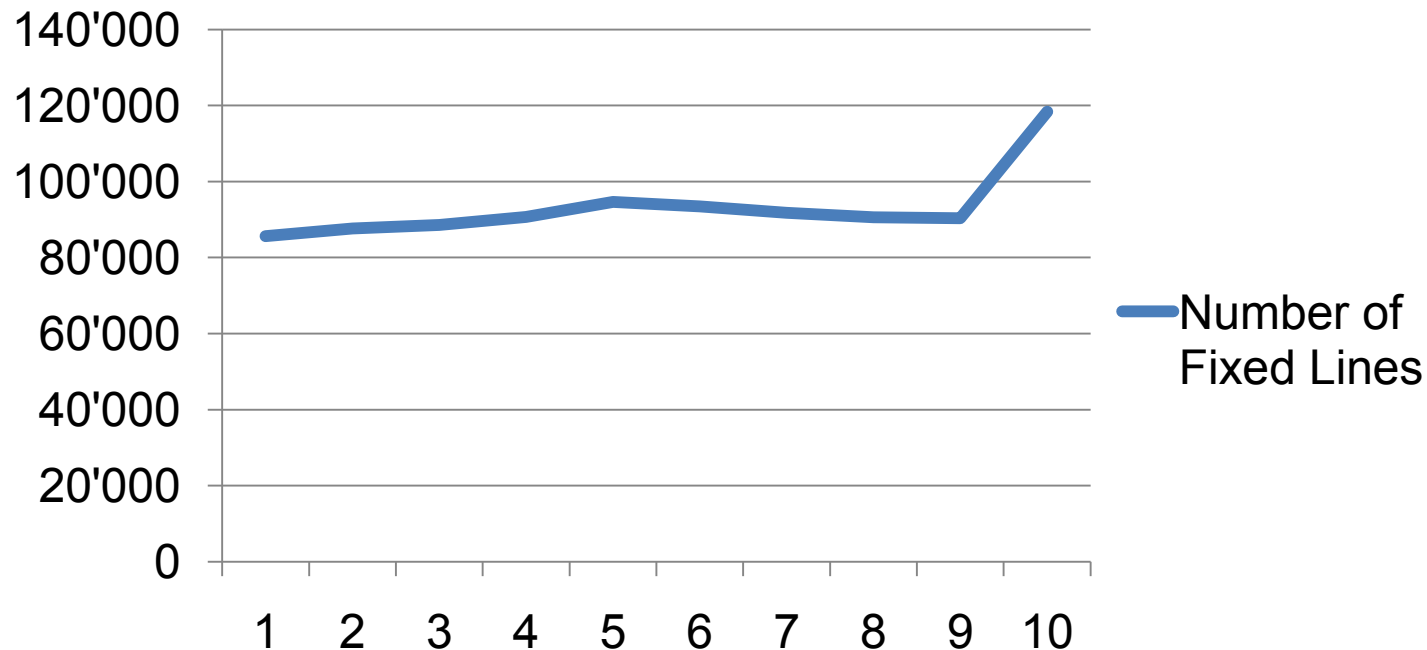


FIXED TELEPHONY

Year	Number of Fixed Lines	Per 100 Inhabitants	Growth Rate (%)
2001	85,680	0.849	2.83
2002	87,674	0.842	2.33
2003	88,561	1	1.01
2004	90,663	0.818	2.37
2005	94,665	0.827	4.41
2006	93,427	0.807	-1.31
2007	91,789	0.784	-1.75
2008	90,600	0.761	-1.29
2009	90,341	0.7	-0.28
2010	118,388	0.9	31

FIXED TELEPHONY

Number of Fixed Lines

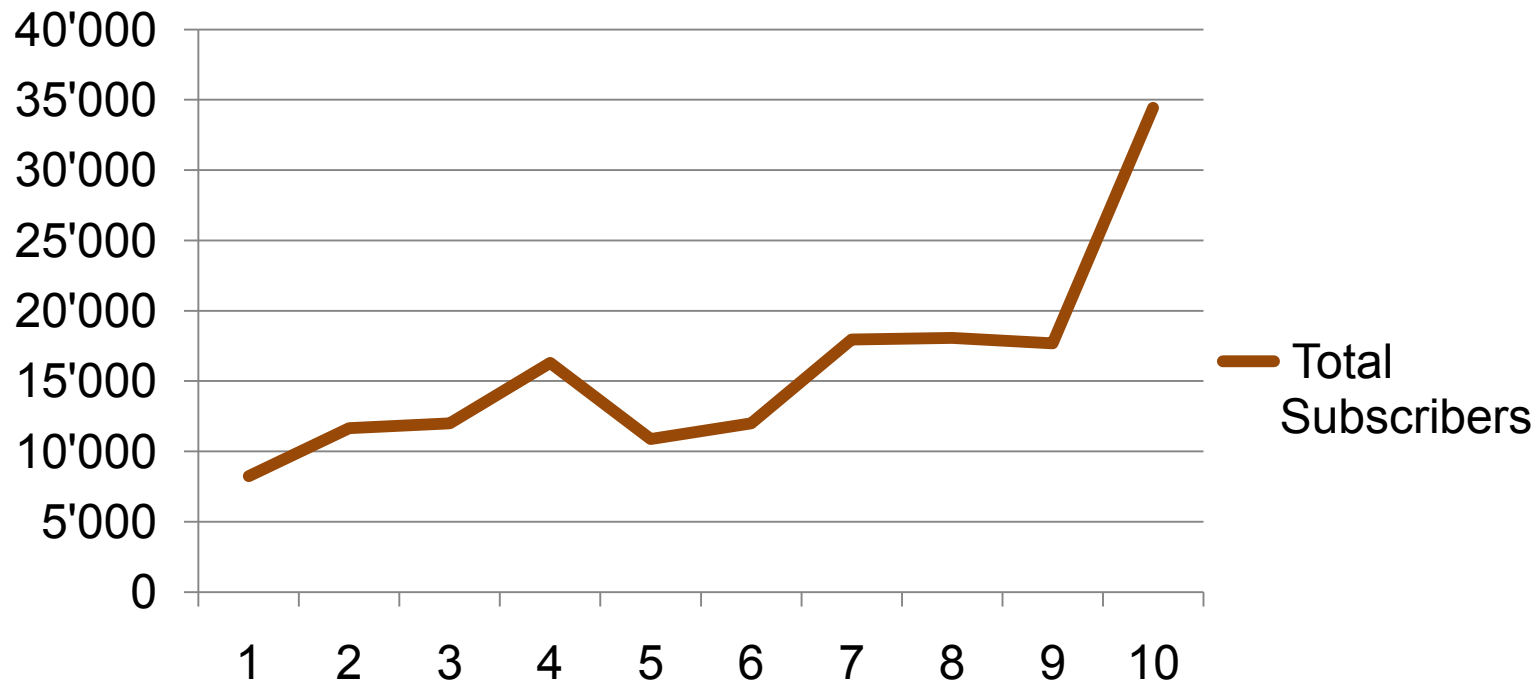


INTERNET SERVICE

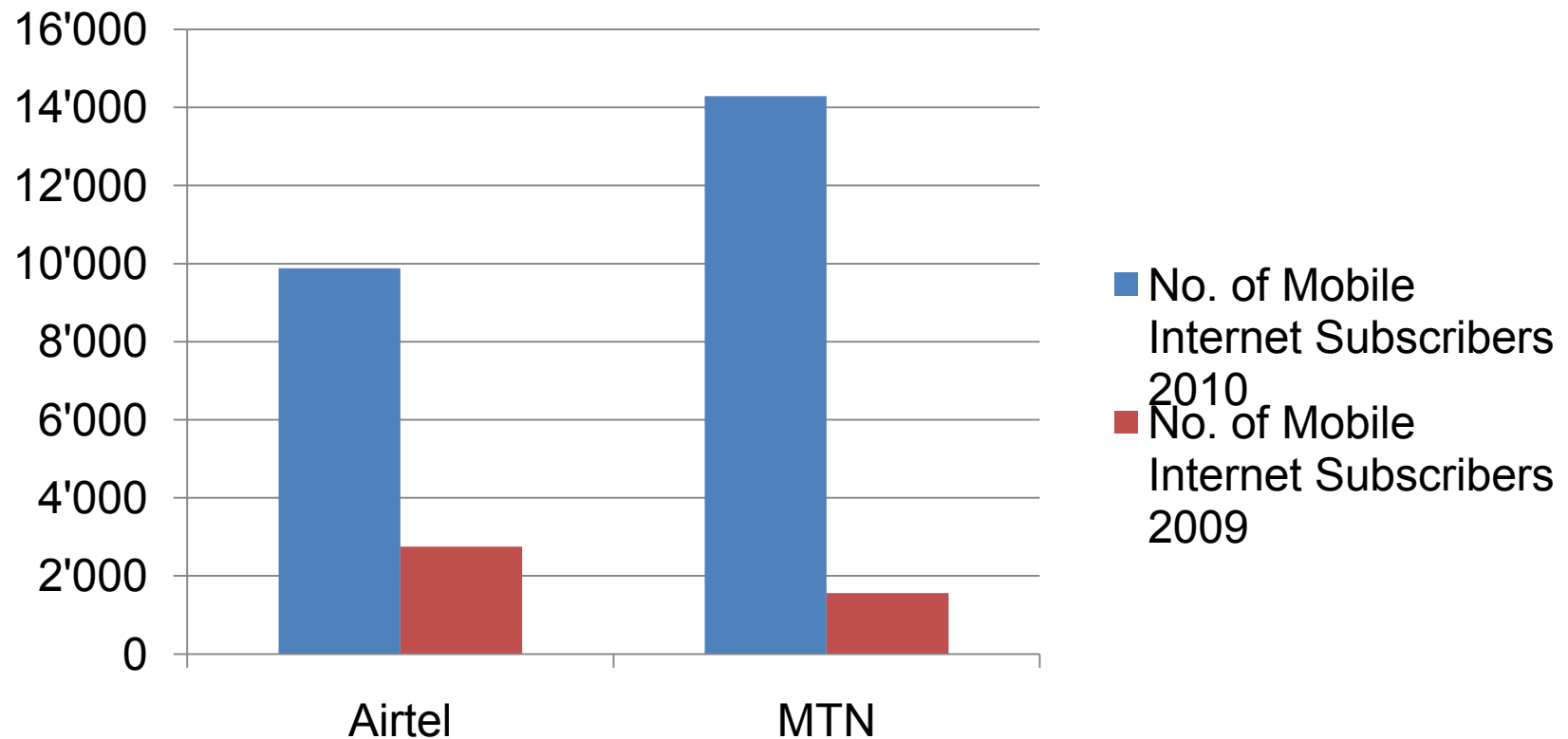
Year	Total Subscribers	Per 100 Inhabitants	Growth rate (%)
2001	8,248	0.082	
2002	11,647	0.112	41
2003	12,000	0.111	3
2004	16,288	0.147	36
2005	10,882	0.095	-33
2006	11,996	0.104	10
2007	17,946	0.153	49.6
2008	18,078	0.152	0.73
2009	17,672	0.137	-2.25
2010	34,436	0.264	94.86

INTERNET SERVICE

Total Subscribers



MOBILE INTERNET SERVICE



**2010 Statistics for Zambia and
Government Policy**

**Framework for ICT Regulation
in Zambia**

**Overview of the ICT Indicators
in Zambia**

Role of ZICTA in Promoting UA

**Universal Access Projects in
Zambia**

Way Forward and Challenges

**Digital Inclusion for the Least Developed
Countries: Innovation, Growth and
Sustainability**

Mandate

**ZICTA is mandated under the ICT Act No. 15 of 2009
to
promote widespread availability and usage of
electronic
communications networks and services through
out Zambia by encouraging the installation of
electronic
communications networks and provision of
electronic
communications services in un-served
and under-served communities**

2010 Statistics for Zambia

**Framework for ICT Regulation
in Zambia**

**Overview of the ICT Indicators
in Zambia**

Role of ZICTA in Promoting UA

**Universal Access Projects in
Zambia**

Way Forward and Challenges

**Digital Inclusion for the Least Developed
Countries: Innovation, Growth and
Sustainability**

MULTIPURPOSE TELECENTRES

9 telecentres were set up by ZICTA to be commercially run local communities

3 telecentres by Macha Linknet (an ICT sector NGO) using funding from ZICTA

ZICTA has funded the setting up of two ICT labs at National Assembly

CONNECTING SCHOOLS / UNIVERSITIES

ZICTA funded the connectivity of two public universities to the Zambia Research and Education Network (ZAMREN) national optic fibre backbone.

The third public university will be connected this year.

**2010 Statistics for Zambia and
Government Policy**

**Framework for ICT Regulation
in Zambia**

**Overview of the ICT Indicators
in Zambia**

Role of ZICTA in Promoting UA

**Universal Access Projects in
Zambia**

Way Forward and Challenges

**Digital Inclusion for the Least Developed
Countries: Innovation, Growth and
Sustainability**

Financial

- ❖ To reach the penetration levels that will enable us meet the challenges of illiteracy and lack of access to ICT
- ❖ For Universal Access in ICT services through e-Governance

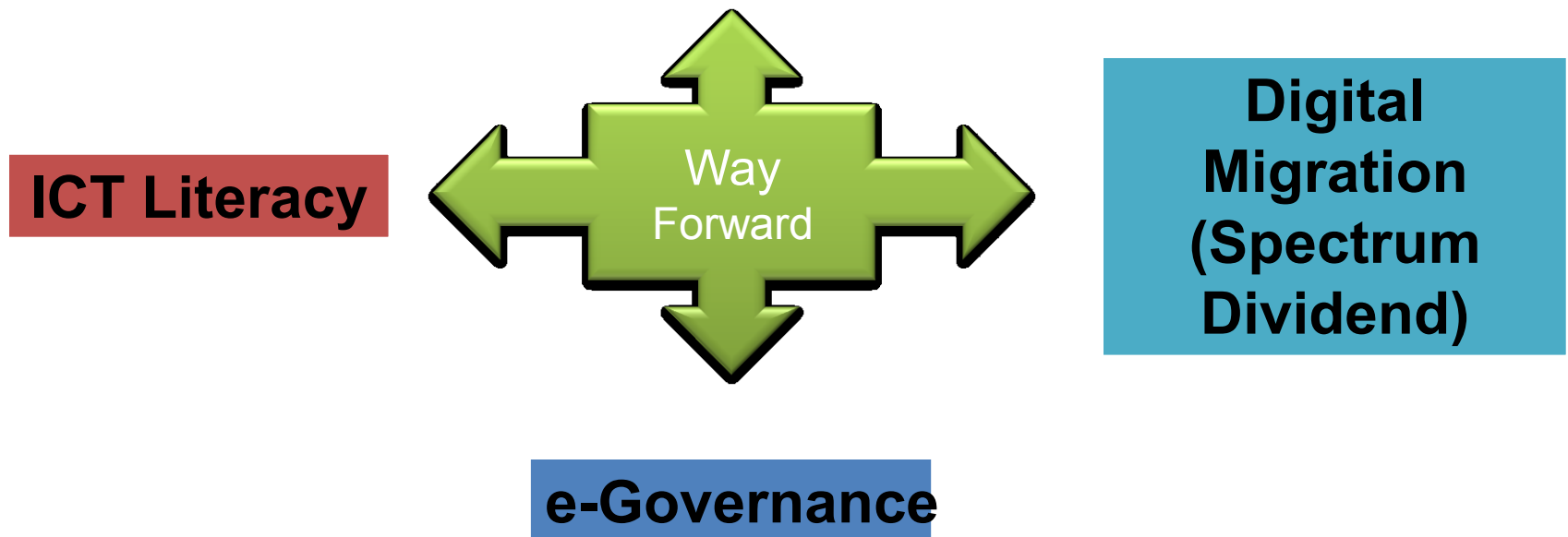
Geographical

- ❖ High inland transportation of imported goods is high
- ❖ Zambia's landmass is big making infrastructure development slow especially in rural areas
- ❖ Zambia rural areas are sparsely spread making universal delivery of services difficult

Social

- ❖ Need appropriate technological solutions illiterate populations

Infrastructure for Universal Access



Digital Inclusion for the Least Developed Countries: Innovation, Growth and Sustainability

Infrastructure to Stimulate Universal Access



The Government of Zambia has embarked on an ambitious project to construct Multipurpose Communication Towers across the rural parts of the country

Digital Migration and Spectrum Dividend



Digital Migration is expected to free up spectrum which is intended to be used to provide Broad Band ICT Services

Digital Inclusion for the Least Developed Countries: Innovation, Growth and Sustainability

e-Governance and ICT Content



The Government of Zambia is working on introducing e-Governance as vehicle to provide ICT Content

ICT Literacy through e-Learning



The Government of Zambia is encouraging e-Learning to assist combat ICT illiteracy

The End

.ICTA

ZAMBIA INFORMATION AND COMMUNICATIONS TECHNOLOGY AUTHORITY

Zambia is using ICT Innovations to achieve Economic Growth

**Digital Inclusion for the Least Developed
Countries: Innovation, Growth and
Sustainability**

THANK YOU

Digital Inclusion for the Least Developed
Countries: Innovation, Growth and
Sustainability