

# Spectrum 2.0

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> by Joe  
> GeekDinner 07/2009

# Context

Communications has a major impact on economic well being.

For every 1% increase in teledensity, GDP grows by 0.6%.

– ITU

“Broadcasting is about politics,  
telecommunications is about money.”

– Steve Song

# Context

## **More bits moving.**

Wider coverage.

Less expensive services.

More online citizens.

More online transactions.

# Context

**Spectrum can Help.**

But, think:

Efficient

Democratized

Shared

# Context

**Spectrum has gone from coal to  
GOLD.**

but, people still think about it in a 1920's way.

**Spectrum is a national resource.**

**It's expensive right?**

It is scarce?

# Context

We can use technology to help us use spectrum better:

- **OFDM / MIMO**
- **Cognitive Radio**
  - **Geo DB**

Technology moves faster than regulation.

# OSA

Open Spectrum Alliance

**WAPA, ISPA, TSF, 24.com, CC, CSIR..**

Audit, pricing.

2.6Ghz, 3.5Ghz, auctions.

Lite Licencing, 802.11y

TV guard bands, UHF VHF

# OpenBTS

## **OpenBTS and GNU Radio**

# Questions?

Contact Joe:

[www.swimgeek.com](http://www.swimgeek.com)

Join OSA:

[www.openspectrum.org.za](http://www.openspectrum.org.za)