



# Broadband policies and challenges in Sudan

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# Introduction

- Broadband is an important key for economic and social growth.
- Broadband affordability and accessibility mainly lay on its price.
- Retail and wholesale prices are best determined by market forces provided that those markets are effectively competitive.
- Regulatory intervention in the setting of retail prices for broadband access should be avoided.
- In case of anti-competitive regulation is needed it is best applied as ex post competition regulation.
- Market demand side should be well considered as a crucial factor for better broadband adoption.

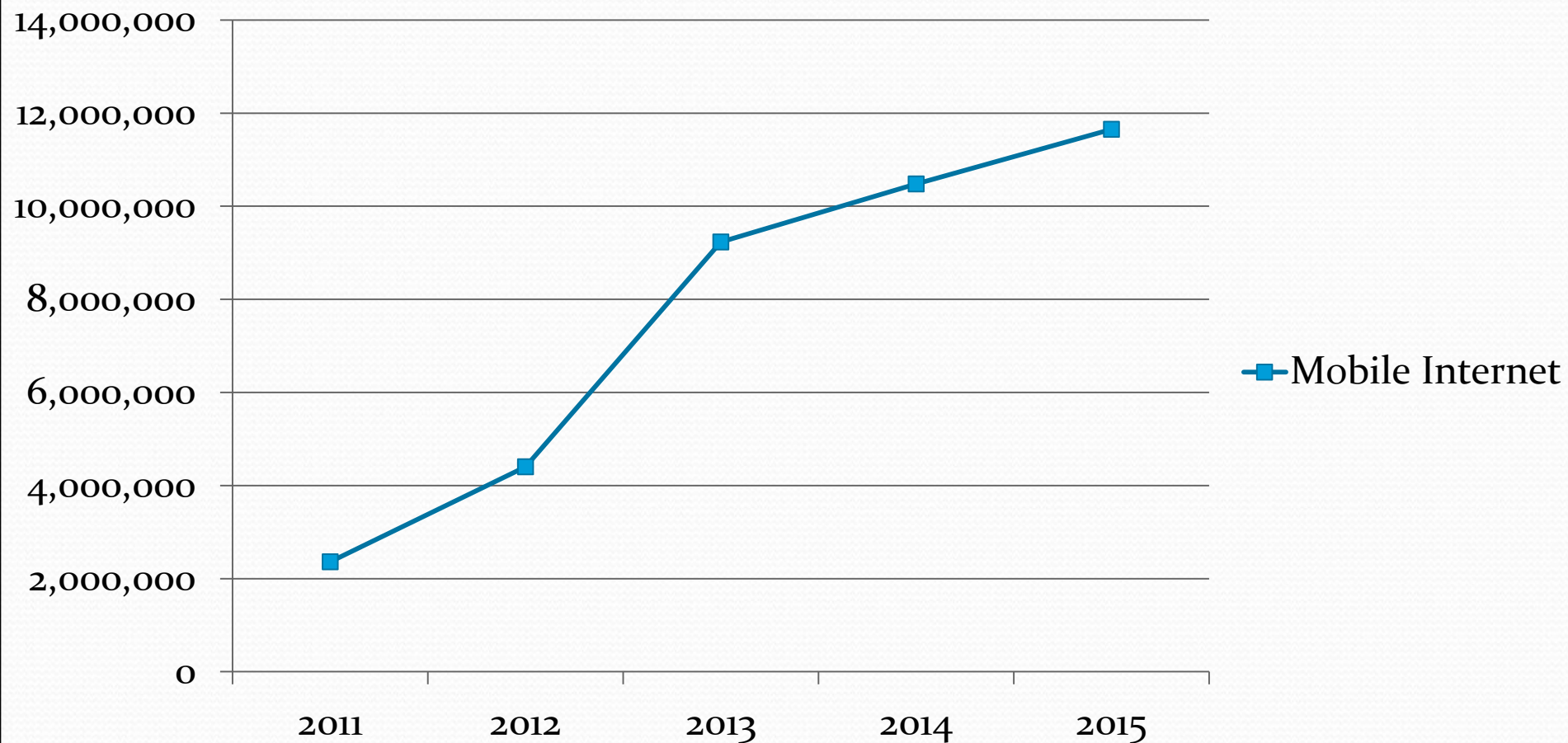


# Broadband In Sudan (Overview)

- Two fixed operators in Sudan (Canar and Sudatel), managing the main backbone network.
- Three mobile operators (MTN, Zain and Sudani, the mobile subsidiary of the Sudatel Group).
- Zain Launched 4G services on May 2016. NTC work to finalized issuing 4G licences for MTN and Sudani.

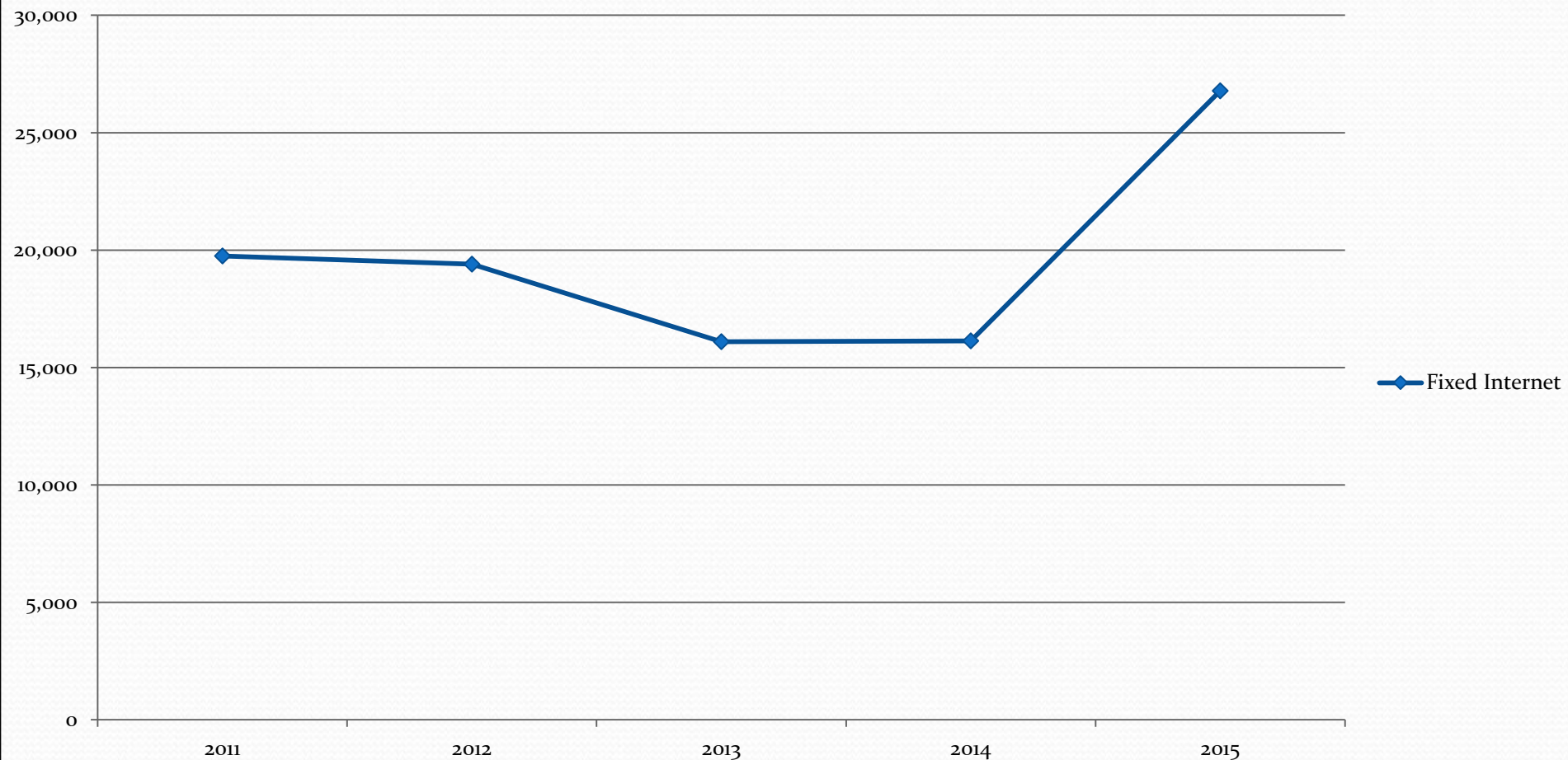
# Broadband In Sudan (Overview)

## Mobile Internet



# Broadband In Sudan (Overview)

## Fixed Internet





# Broadband In Sudan (Overview)



# Broadband Challenges in Sudan

- Not fully Liberalized Market.
- High wholesale prices.
- Access problems ( Last mile infrastructure).
- Demand side issues .



# Policies and Regulations

- In order to overcome broadband challenges has being working on:
  - Draw wholesale cost model for fiber use.
  - Add more players to Leased Line market(NEC Fiber Network)
  - Open access market for the private sectors.
  - More spectrum releasing and re-farming.
  - Infrastructure sharing.

# Required Action

- NTC has to encourage :
  - Innovation and small businesses in so as to stimulates the demand side.
  - Encourage local content in local language.
  - Accelerate the deployment of E-Gov.
  - Bridge E-Gap.
  - Ensure consumer privacy to maintain trust.

# Expectations

- According to Sudan Broadband Plan by 2020 Fixed Broadband services should covered:
  - All government and companies.
  - Hospitals.
  - Schools.





Thank You