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# ITU Arab Regional Workshop on Mobile Roaming: National & International Practices

27 to 29 of Oct, 2015 Sudan - Khartoum

## National and International Roaming : NTC Role and Challenges

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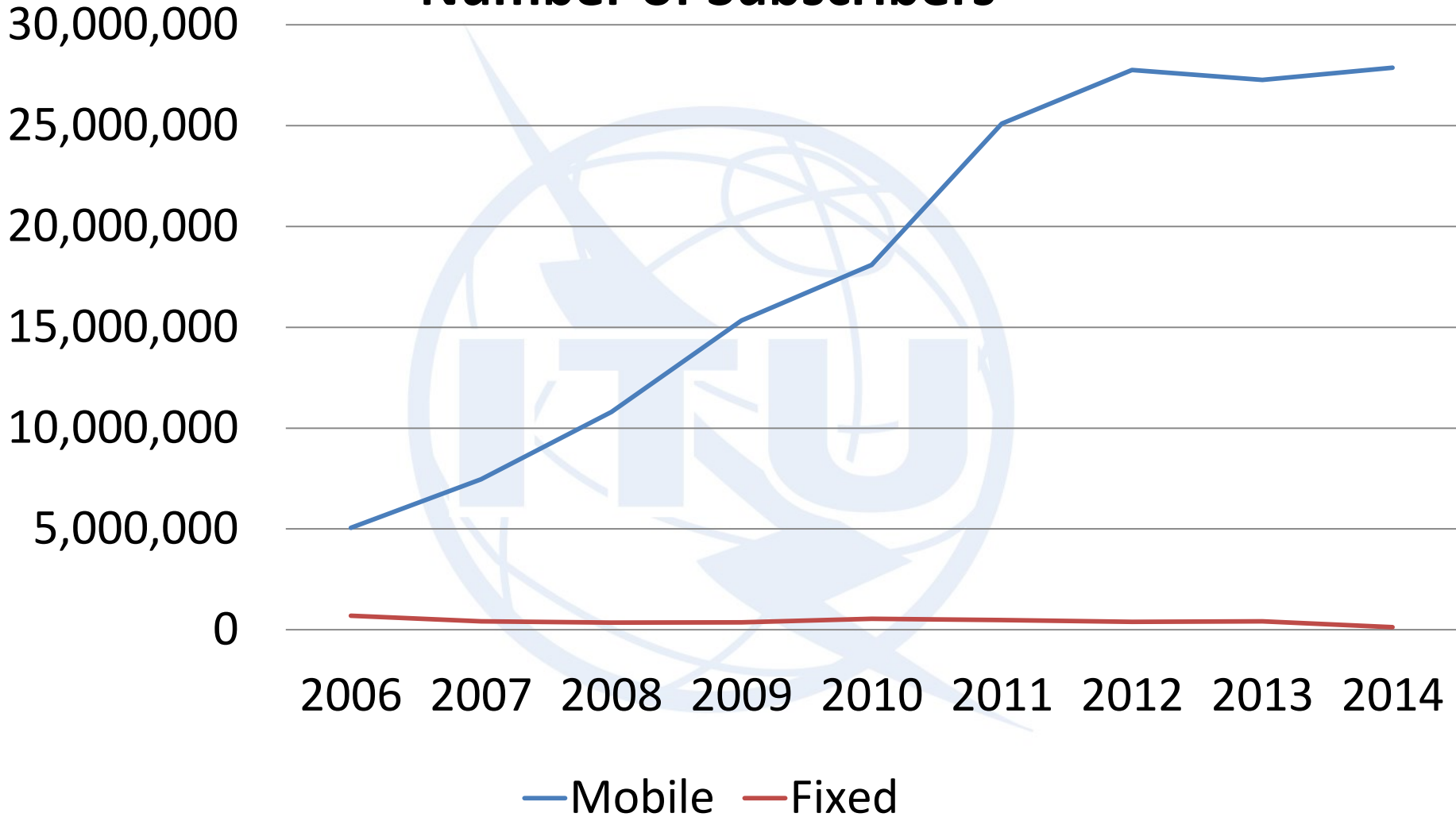
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# Telecom Sector

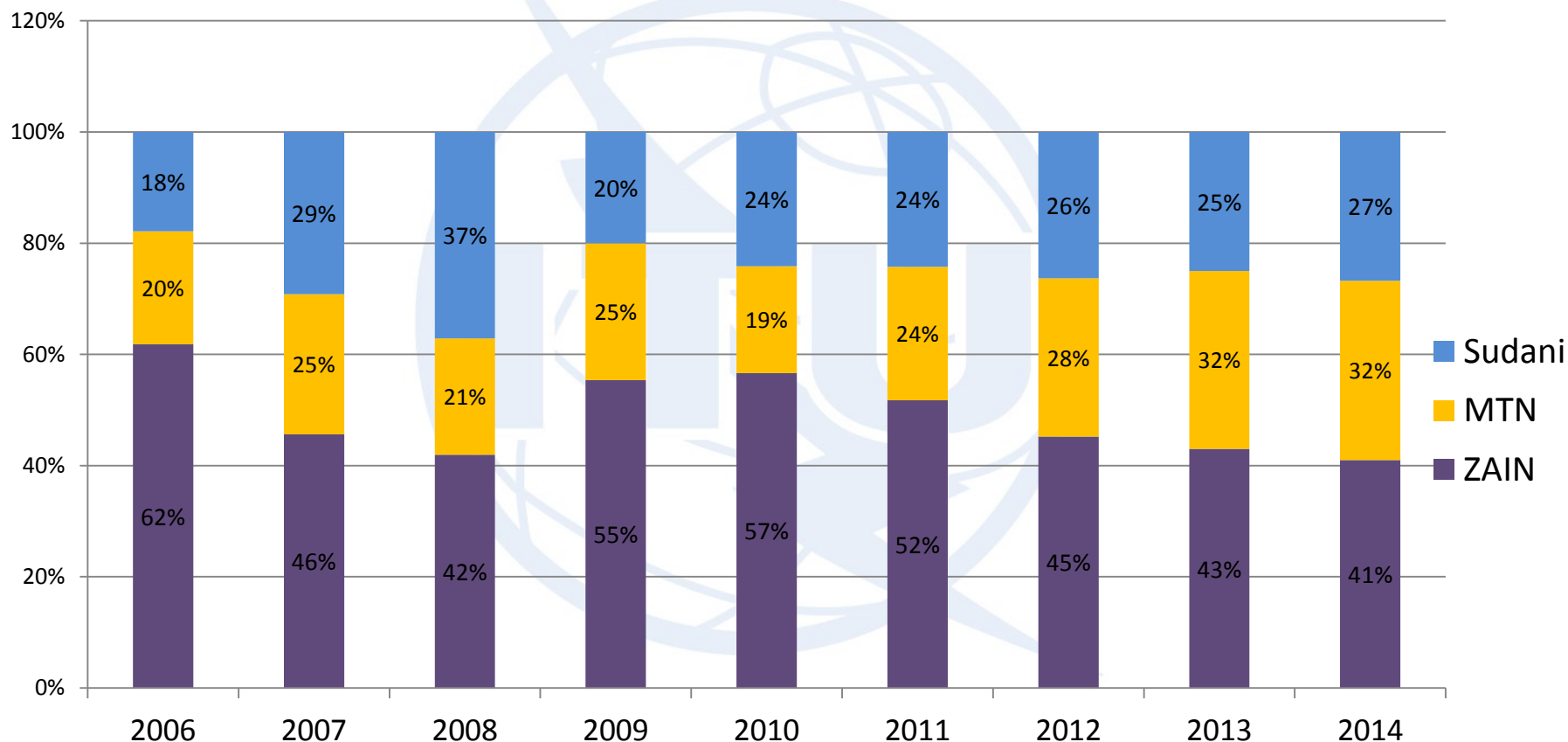
Entity	Role
Ministry of Telecommunication	Policies & Legislations
National Telecom. Corporation (NTC)	Regulatory functions
Operators & Service Providers	Operating & provision of services

NAME	DATE OF LICENSE	DATE OF COMMERCIAL OPERATION	TYPE OF SERVICE	LOGO
SUDATEL	April 93	February 94	fixed telephone services, WIRELESS CDMA+WIRE	
Canar	October 2004	April 2005	fixed telephone services, Limited Mobility, NGN, WILL /CDMA	
ZAIN	August 1996	Feb 1997	mobile cellular services 3G - GSM	
MTN	Nov 2003	Sept 2004	mobile cellular services 3G - GSM	
SUDANI	Feb 2005	Feb 2005	Mobile cellular services 3G GSM / CDMA	

# Number of Subscribers



# Mobile Market Share / Subscribers (%)

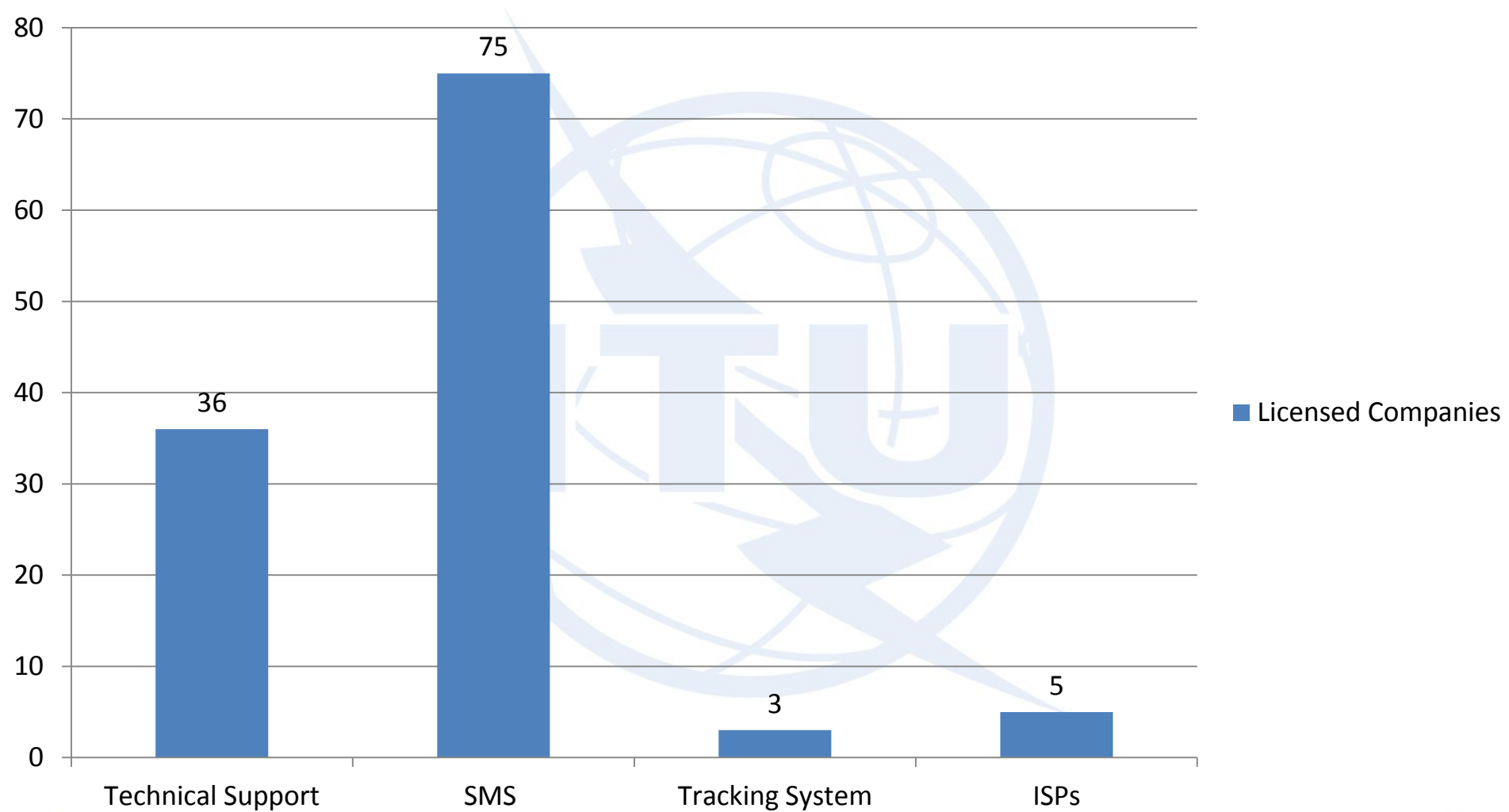


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# Telecom Market Indicators

- ❑ Mobile telephone subscriptions are greater than 27.8 millions with 71.7% penetration rate , and those using fixed telephone are less than 500,000 i.e. 1% penetration rate .
- ❑ Individuals using the internet per 100 inhabitants 24.6
- ❑ % of Households with a computer 14.
- ❑ % of Households with a Fixed Telephone 3.4 .
- ❑ Broadband internet subscribers are more than one million, the mobile broadband users are around 10.4 millions .
- ❑ Geographical coverage is %41.5.
- ❑ Population coverage is 84%.

# Telecom sector Cont'd,







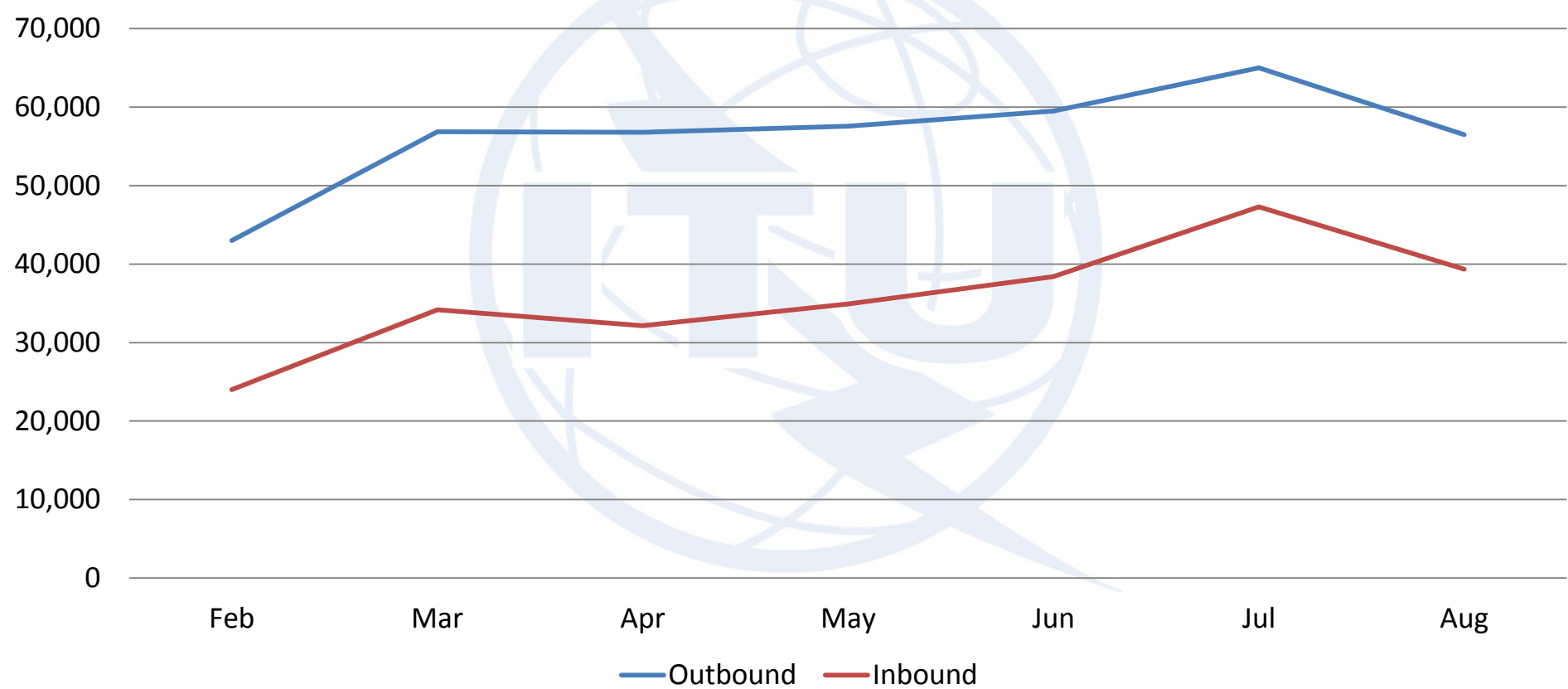
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# International Roaming

- ❑ NTC encourages operators to sign international agreements to provide international roaming service.
- ❑ The complexities of providing international roaming services present a barrier to a practicable regulatory solution.
- ❑ NTC regulates services pricing to ensure provision of affordable services to consumers.

# International Roaming Cont'd

## Outbound & Inbound Roamers 2015



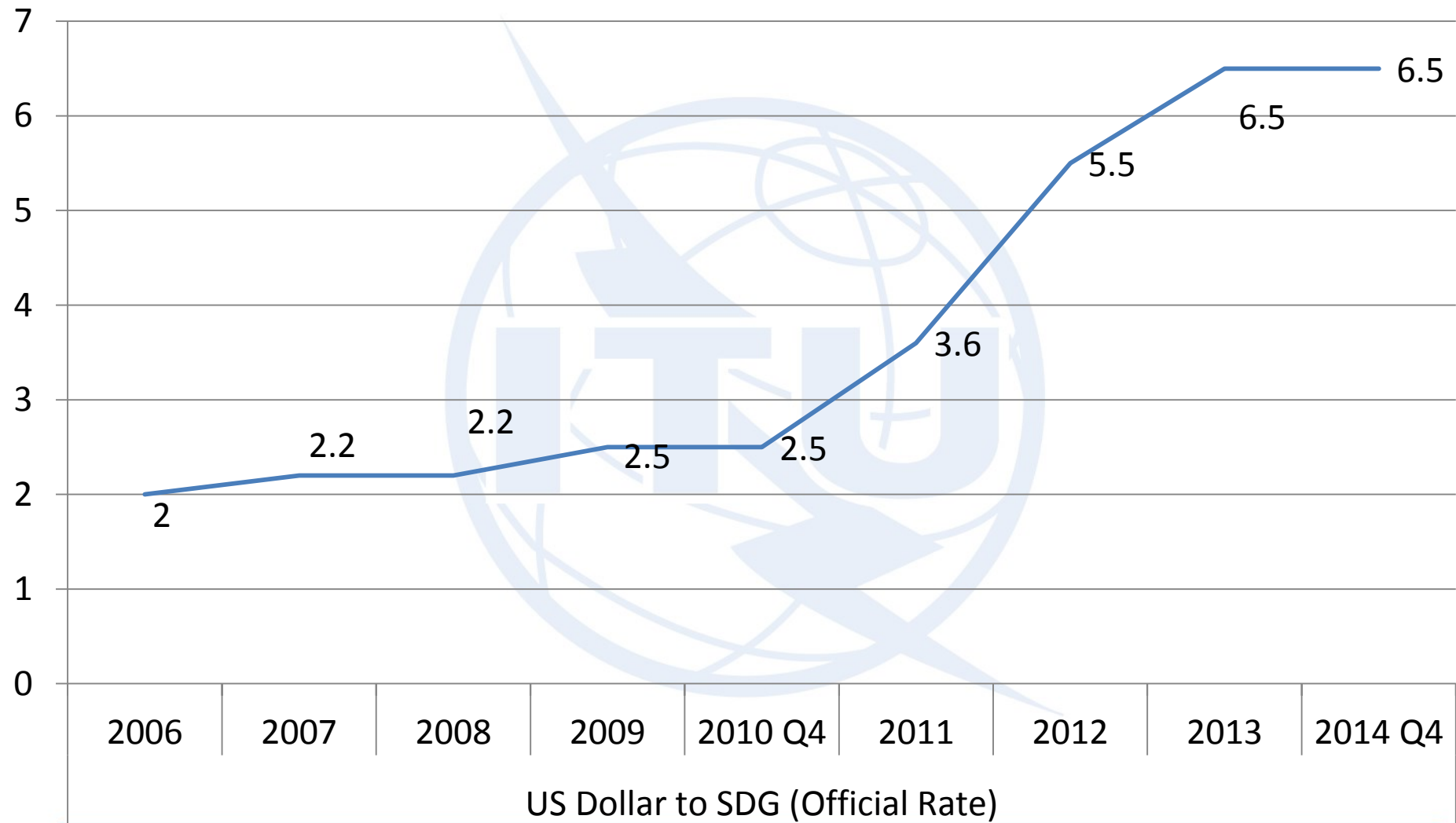
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# International Roaming Challenges

□ The biggest challenge is the economic situation, and sanctions imposed on Sudan that led to high inflation rate which is reflected in the international roaming wholesale prices .

□ High roaming service prices





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# International Roaming Cont'd

- NTC has imposed on all operators to use several methods of communication to ensure that all consumers are aware of the latest Roaming prices ,
  - Service providers must publish roaming offers on their websites.
  - Roamers must receive welcoming SMS.



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# National Roaming

- In order to achieve the goal of the regulatory authority regarding provisioning of telecommunication services in all part of Sudan,
  - NTC is trying to create a competitive markets with the latest technology , high quality and reliability of services.
  - Also guidelines for infrastructure sharing issued by NTC in 2012.

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# National Roaming Cont'd

- ❑ NTC prepared a consultation paper regarding providing National roaming.
- ❑ NTC will take into account this workshop recommendations.



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# National Roaming Goals

- NTC is studying national roaming services as one of infrastructure sharing options to determine its suitability of :
  - Deploying telecom. services in remote and rural areas.
  - Deploying new telecom technologies.
  - Reaching the optimum use of resources.
  - Providing an alternative for users of telecommunications services to reduce dual SIMs.



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**THANK YOU**

Open Discussion