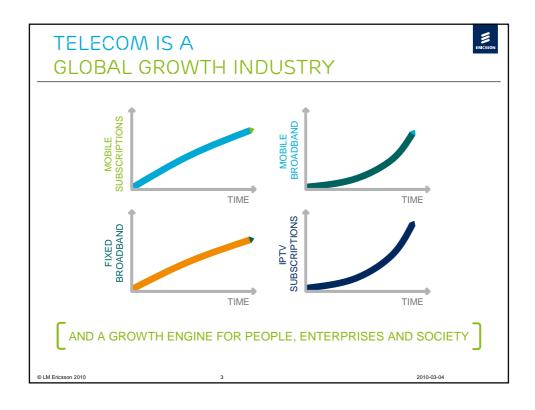
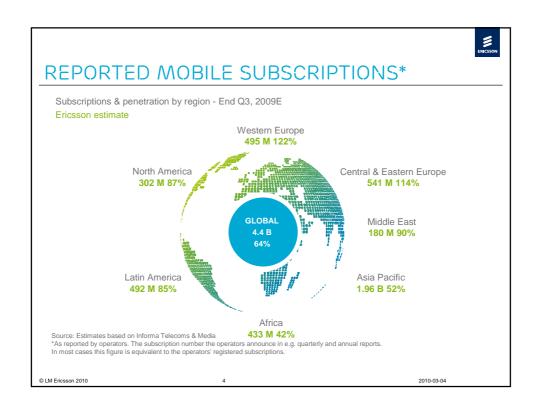
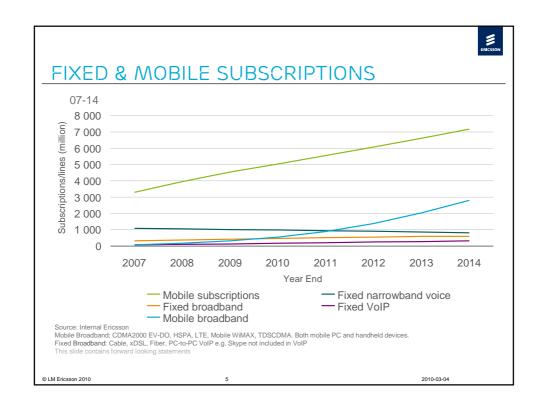


CONTENT BREAKING DOWN BARRIERS TOWARDS A DIGITAL DEMOCRACY CONCLUSION

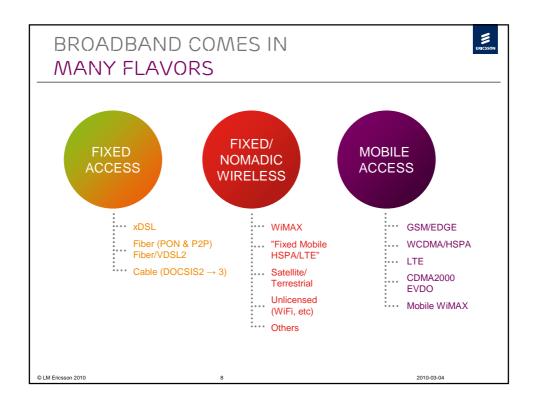


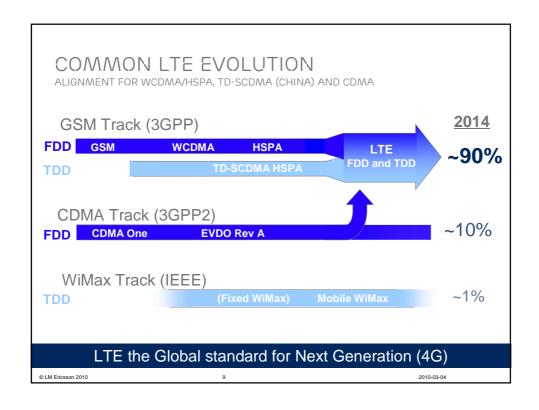


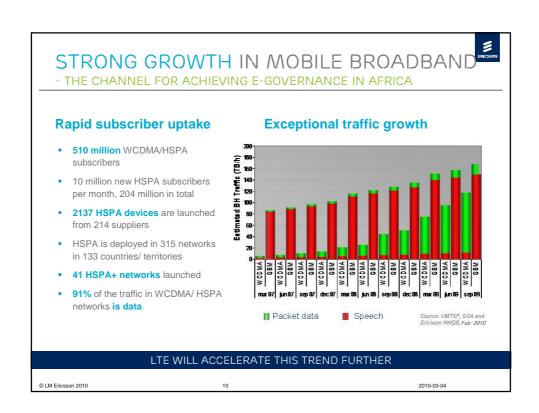












BREAKING DOWN BARRIERS

MAKING TELECOM AVAILABLE TO LOW INCOME HOUSEHOLDS

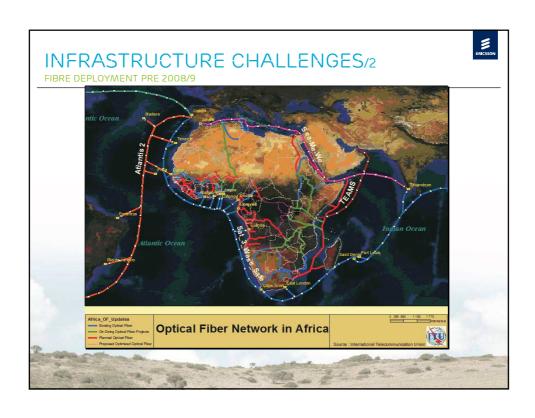
- > Infrastructure challenges
 - Dearth of basic infrastructure
 - Planning regulations
- Taxation
- Harmonised spectrum allocations
- Regulation



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INFRASTRUCTURE CHALLENGES Dearth of critical infrastructure Poor/underdeveloped road network Under-investment by incumbents Rollout required for Power; and Transmission networks Incessant vandalisation of fibre Competition, cost and connectivity







INFRASTRUCTURE CHALLENGES/4



TIME FOR A REVISED PLANNING POLICY

- › Administrative planning 'fees'
- Trained staff
- Firm timetables
- Clear National regulations
- Land registry
- > Single building permit
- > Streamline processes
- > Remove anomalous impediments
 - No local planning embargoes



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TAXATION



"In 10 short years, what was once an object of luxury and privilege...has become a basic necessity in Africa"

- Paul Kagame, President of Rwanda, in 2008 referring to the mobile phone
- Mobile communications benefit to an economy can be estimated to 8% of GDP
 Mckinsey
- > Removing all non-VAT taxes invariably lowers mobile prices

But in sub-Saharan Africa

- > 24 governments levy specific luxury taxes on mobile handsets
- > 8 governments levy specific luxury taxes on mobile usage (air time)
- > 25+ governments levy specific luxury taxes on ICT equipment
- If Social Welfare is enhanced by access to mobile, why is there import duty on network equipment?

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TAXATION/2

NEED FOR A RETHINK?

- > Taxing mobile phones as a luxury is no longer appropriate
- Mobile phones boost GDP, create jobs and are a vital part of the socioeconomic landscape in sub-Saharan Africa
- There is a need for Governments (in consultation with the industry and other experts) to analyse the impact of lowering and removing mobile specific taxes

AND

 African Governments are encouraged to change their taxation regimes accordingly

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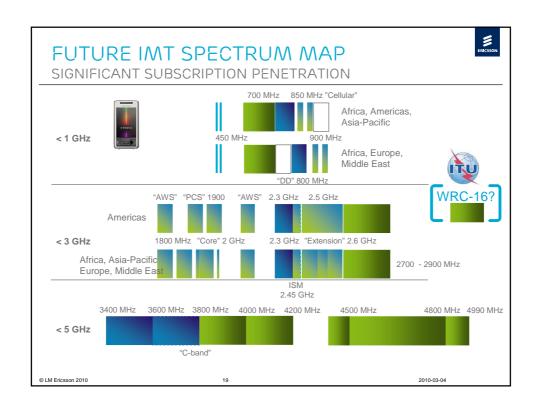
SPECTRUM

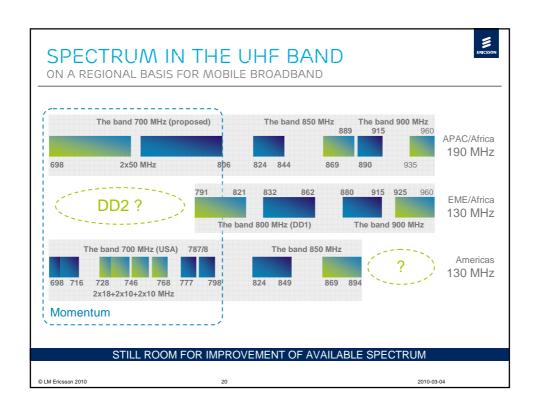
"Wireless carriers have been clamoring for more spectrum as their customers increasingly check e-mail, update Facebook and watch video on the go. Broadband services are already choking in some markets, and next-generation services will tax wireless networks even more. Although the potential of mobile broadband is limitless, its oxygen supply is not.

Spectrum — our airwaves — really is the oxygen of mobile broadband service. Without sufficient spectrum, we will starve mobile broadband of the nourishment it needs to thrive."

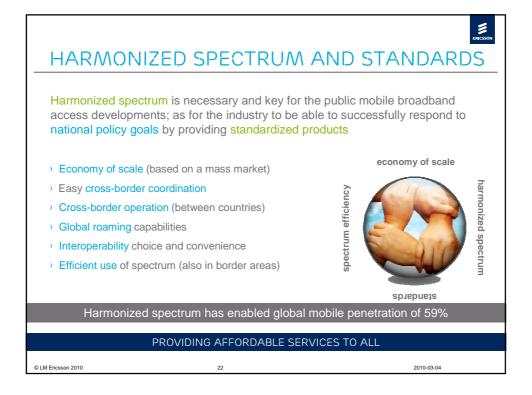
- FCC Chairman, **Julius Genachowski** in a speech at the New America Foundation, Washington

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IS THERE A ROLE FOR REGULATION?

- > Regulation can oil or throw sand into the motor
- > Regulation key to success, therefore...
- ...Continue liberalisation
- Adopt Holistic regulation and redefine markets based on realities
- > Spectrum allocation for broadband to all & everywhere
- Stimulate Interoperability
- › Help build sustainable society!
- "With technological convergence now blurring the lines between telephony, broadcasting, and online services, ICT regulators play a key role in fostering ongoing innovation and competition, enabling operators to adopt the latest, most powerful technologies, and ensuring consumers enjoy the very best range of services at the lowest possible prices"
 - ITU Secretary-General Dr Hamadoun Touré

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MOBILE BROADBAND CONNECTS THE UNCONNECTED



- MTN @ccess Internet café in South Africa
- Job searching and applications
- > Health and education information
- Launched HSPA in June 2006 and profitable after just two months
- Telstra provides broadband to remote areas in Australia using HSPA
- Also ethernet connections and fixed phone connections provided using HSPA
- 98% of pop covered in 10 months
- Up to 200 km distance from basestation



GROWTH FOR THE INDIVIDUAL AND FOR THE COUNTRY

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TRUE BROADBAND CONNECTIVITY TO INDIAN VILLAGES







- › E-learning: Long distance classes
- → E-Medicine: ECG, pulse rate, etc and video sent to main hospital → real-time diagonsis → doctor advising
- > E-Goverence: On-line government info to villagers
- Entertainment: Mobile TV, streaming, downloads of local movie clips, songs, etc.
- › Video Calling & Video conferencing
- Mobile-to-PC & PC-to-mobile video calls

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