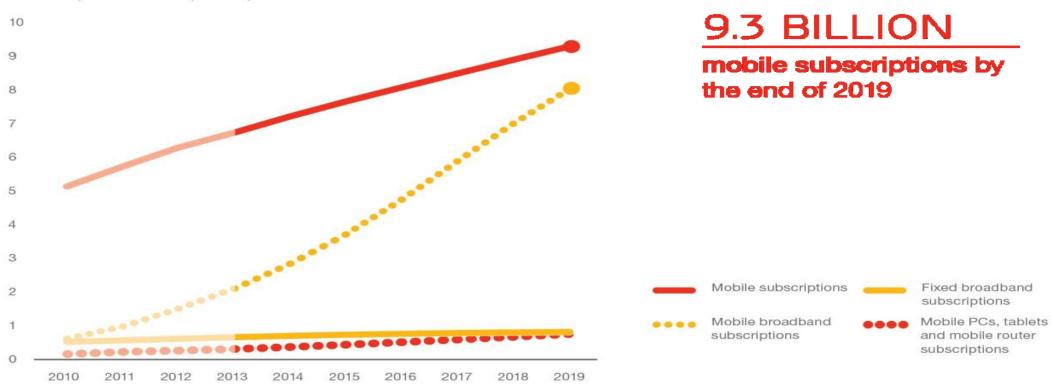


### FIXED AND MOBILE SUBSCRIPTIONS 2010-2019



#### Subscriptions/lines (billion)



Source: Ericsson (November 2013)

### POPULATION COVERAGE



Population coverage by technology, 2012 and 2019

~90%

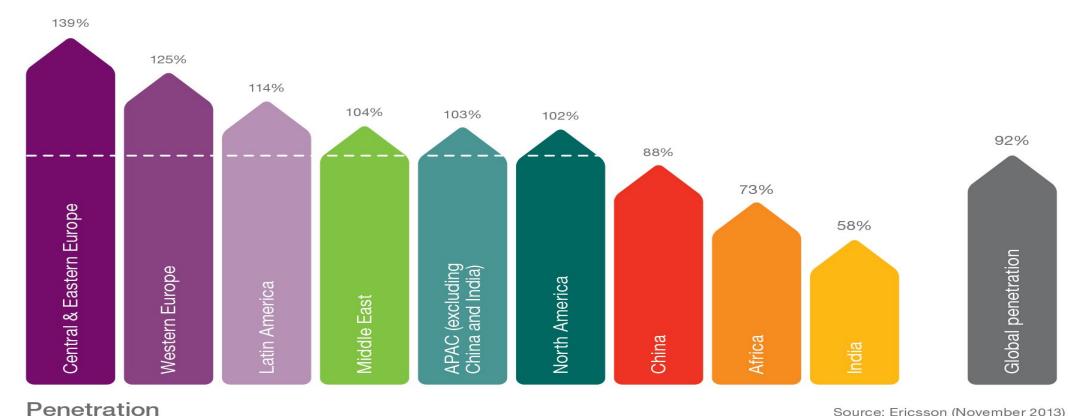
of the world's population will be covered by WCDMA/HSPA in 2019



- > Around 90% of world's population covered by WCDMA/HSPA in 2019
- > LTE network deployments continue in all regions of the world, as LTE population coverage doubled in 2012 compared to 2011 (10% vs. 5%)
- More than 65% of world's population covered by LTE in 2019

## MOBILE PENETRATION Q3 2013 -REGIONAL





Source: Ericsson (November 2013)

### HSPA DEVICES IN

#### LOW PRICE



Driven by local vendors in India & China

- > Typical Specs & Price
  - HSPA 7.2Mbps / 5.76Mbps
  - -3.5 inch screen, Dual SIM
  - Retail price \$48, wholesale <\$35</p>
- > Entry tier \$36-\$99 will be largest by volume in 2017



K-Touch W619

\$48

**Ultra-Low Tier** 



K-Touch W700

W900/2100

4.0" screen

\$65

Source: Strategy Analytics

## SPECTRUM USAGE PRINCIPLES



**Licensed Dedicated** 



mainstream approach for MBB about 350 MHz today

- Efficient for large area and population coverage (~85%)
- Predictable quality of service
- Reliable at high load at all times
- Affordability, Economies of scale, High valuations

**Unlicensed Spectrum** 

Wi-Fi main usage >500 MHz today

- Efficient for indoor / controlled environments and short ranges, typically indoor not wide area coverage
- Vast majority fixed line subscription extensions
- Unpredictable quality of service, unreliable at high load

Licensed / Authorized Shared complementary for MBB

- Fast unlocking of mobile spectrum
- Either-or usage between incumbent and licensee
- Predictable quality of service
- Protects incumbent, lends investment security

## HARMONIZED SPECTRUM



Harmonized spectrum is key for development of public MBB access as well as for industry to be able to successfully respond to national policy goals by providing standardized products and operated in licensed spectrum

- Economy of scale (based on a mass market)
- > Easy cross-border coordination
- Cross-border operation (between countries)
- Global roaming capabilities
- Interoperability choice and convenience
- Efficient use of spectrum (also in border areas)

economy of scale

Standards

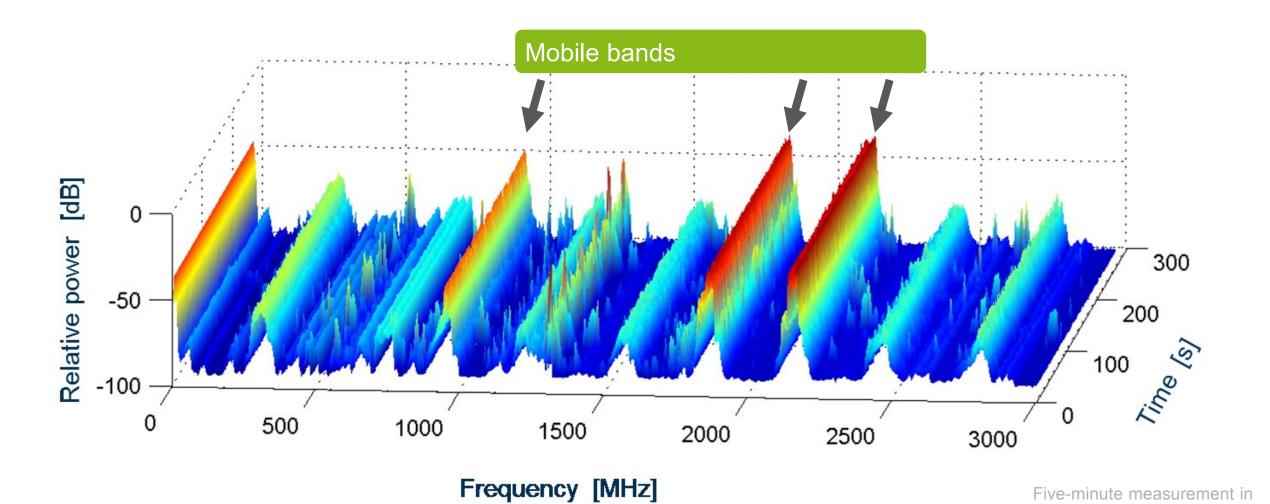
Providing affordable services and applications for all

## TYPICAL SPECTRUM UTILIZATION



(Feb 2009)

office environment, Kista, Stockholm, Sweden



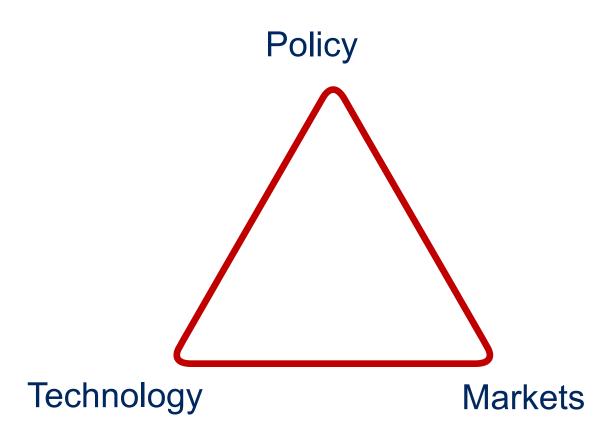
## THE TV UHF SPECTRUM



- > The band 700 MHz; a harmonized approach APT700 based
- Ongoing activities for mutual benefits for Mobile and TV broadcast in the range 470-698 MHz

## IMPLICATIONS FOR POLICY



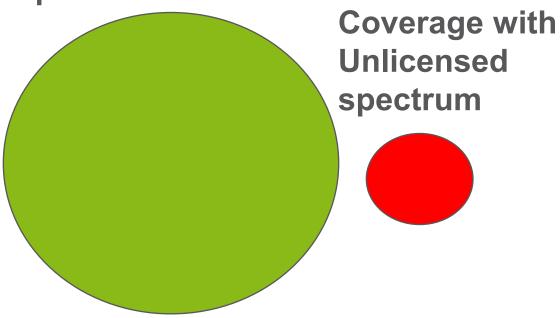


- To exploit scale (and scope), harmonize spectrum
- Policy players must seek to provide regulatory certainty, if Public Private Partnerships are to work
- Recognize & govern telecom as critical social infrastructure, not a mere vertical industry

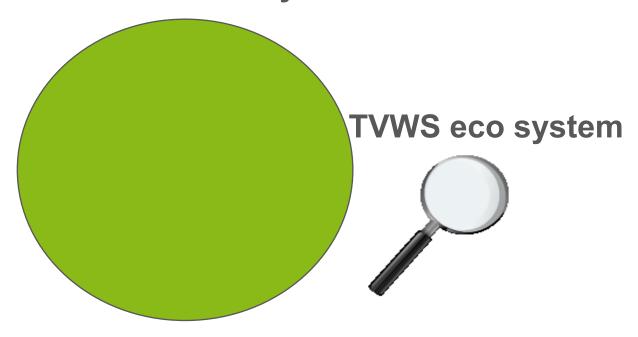
#### COVERAGE AND ECOSYSTEM



Coverage with Licensed spectrum



**HSPA/LTE** eco system







# **ERICSSON**