

Mobile Communications: Addressing Concerns About Radio Signals

Jack Rowley, PhD,
Senior Director Research & Sustainability
GSM Association

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The GSMA in numbers

MEMBERSHIP



800

mobile operators in
over **220** countries



230 associate
members

PRESENCE



Offices in
9 countries
serving every region



Staff based in
26 countries
representing
36 nationalities

MOBILE REACH



6.6
billion
mobile
connections



3.2 billion
individual subscribers



Introduction

The mobile revolution

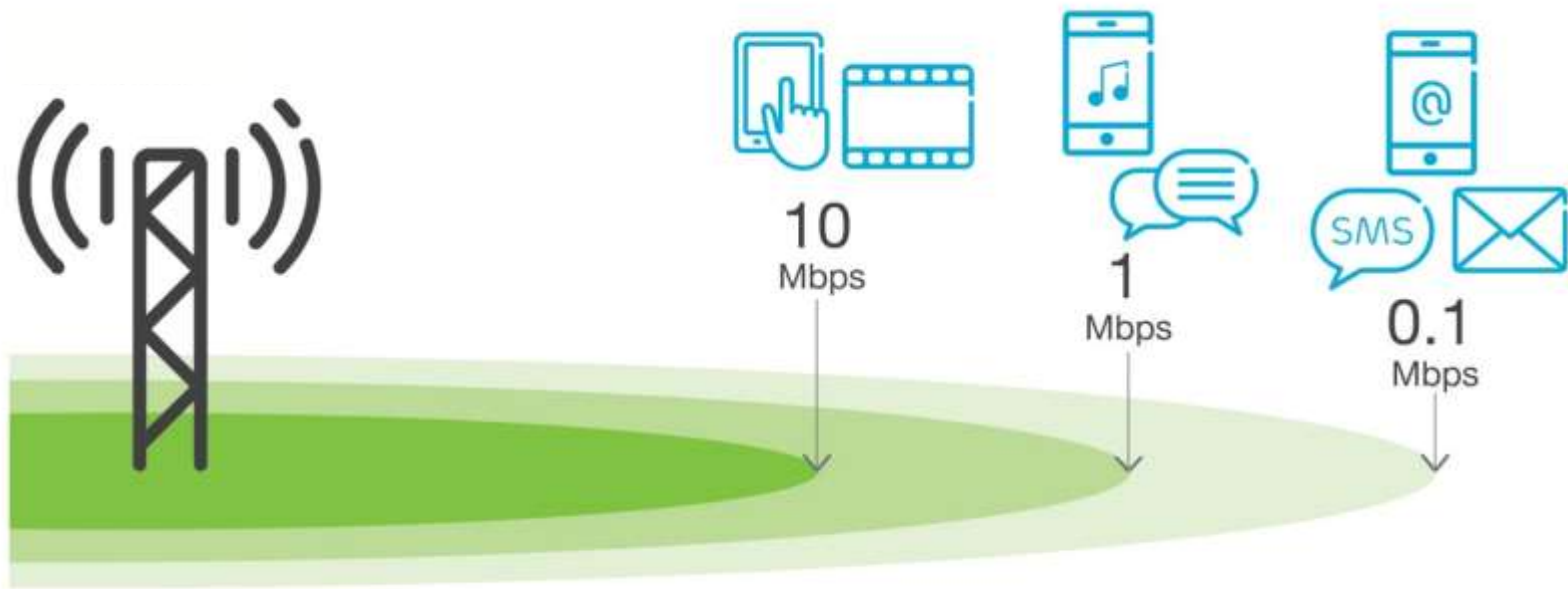


Mobile phones need nearby antenna sites

- Phones are low power devices
- Adaptive power control reduces interference and extends talk-time
- Higher data rates



Higher-speed data services require antennas



Ericsson Mobility Report, June 2013

History and context



Risk perception
Research
Other impacts
Outrage

1993 – cancer claim

Litigation

Media

Public interest

Barrier to deployment



Arbitrary
Radio Frequency
exposure limits:
Impact on 4G network deployment

CASE STUDIES
BRUSSELS, ITALY, LITHUANIA,
PARIS AND POLAND

- Less efficient siting
- Barrier to new services
- Delays

FIG. 1 MAP EXAMPLE OF HOW SAME/ LARGER AREAS CAN BE COVERED WITH A SMALLER NUMBER OF BASE STATIONS WITH EC RECOMMENDED EMF EXPOSURE LIMITS (RED) VERSUS RESTRICTIVE LIMITS (PURPLE)



<http://www.gsma.com/health>

Associated issues



10 July, 2012 11:22AM AEST

State Government says smart meters are safe

By Rhiana Whitson (ABC Gippsland)



Wi-Fi-equipped schools pose 'potential health and safety risk': union

BY LINDA NGUYEN, POSTMEDIA NEWS FEBRUARY 13, 2012 COMMENTS (6)



Cheap, dangerous and banned

The market for Chinese knock-off phones is being closed down amid health risk claims and worries about security, reports [Nader Habib](#)