Mobile Networks: Responding To Public Concern with Good Policy and Communications

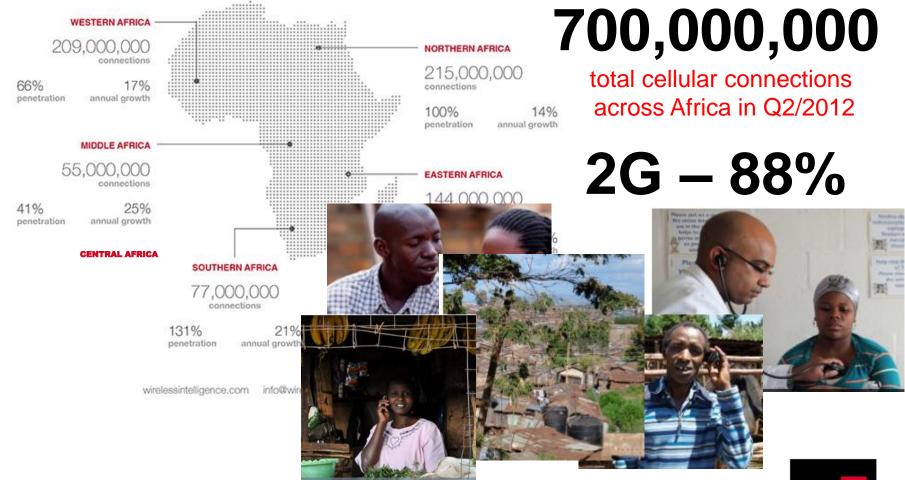
Jack Rowley, PhD, Senior Director Research & Sustainability GSM Association

First West African Conference on EMF Exposure and Health: "HARMONIZING EMF RISK COMMUNICATION AND EMF POLICY IN WEST AFRICA"

> Victoria Crown Plaza Hotel, Victoria Island, Lagos, Nigeria Wednesday, 27th and Thursday, 28th June 2012



Mobile Services Need Mobile Networks

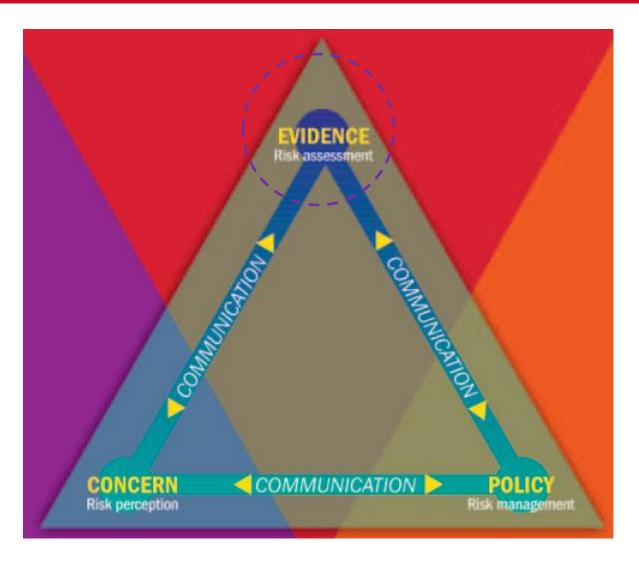


National infrastructure deployed locally.



Wireless Intelligence, 2012

Responding to EMF Issues

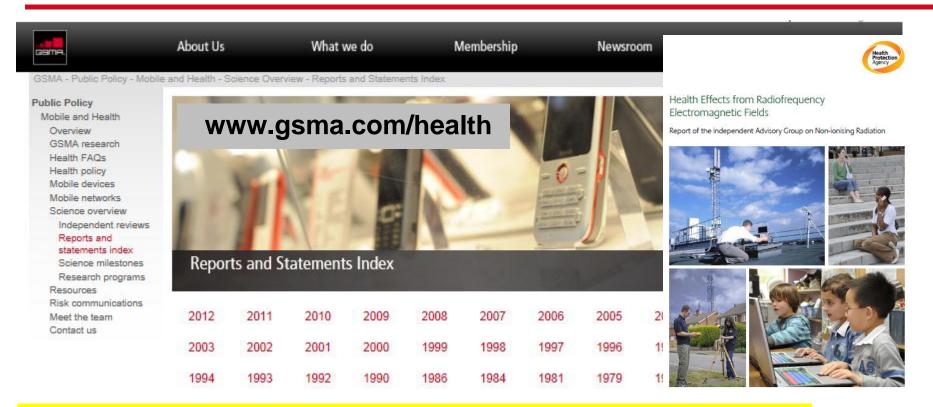


GSMA.

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World Health Organization, 2002

Evidence Subject to Regular Expert Review



'In summary, although a substantial amount of research has been conducted in this area, there is no convincing evidence that RF field exposure below guideline levels causes health effects in adults or children.'

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Health Protection Agency (UK), 2012

GSMA

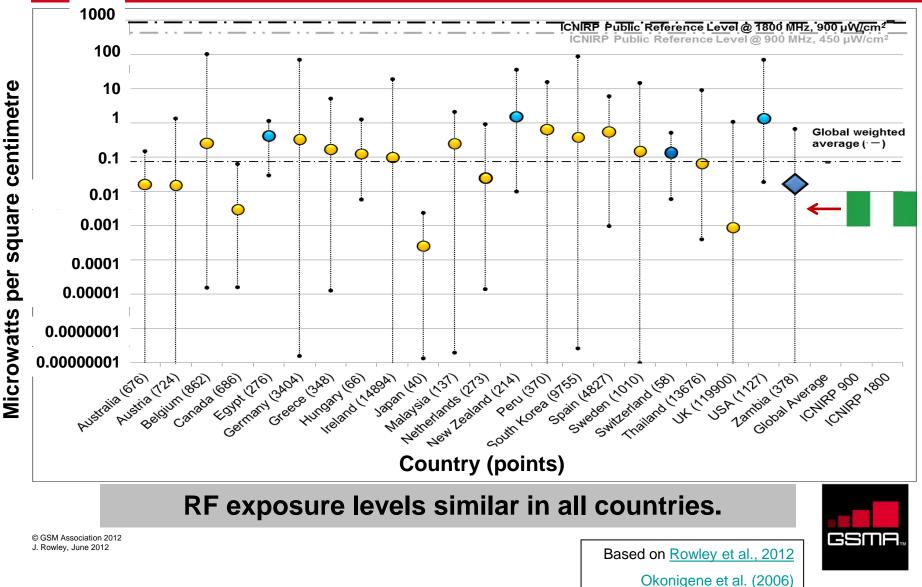
Mobile Networks Are Low Power

- More base stations provide:
 - More coverage.
 - More capacity.
 - Higher data rates.

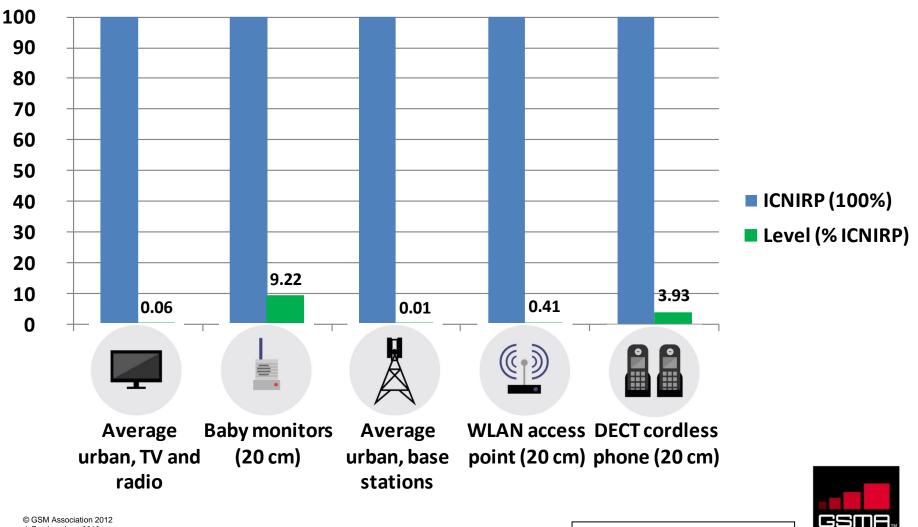




Exposure Similar Between Countries



Exposures Similar to Other Wireless Services



WHO - Wireless Networks (May 2006)



Media centre

Electromagnetic fields and public health

Base stations and wireless technologies

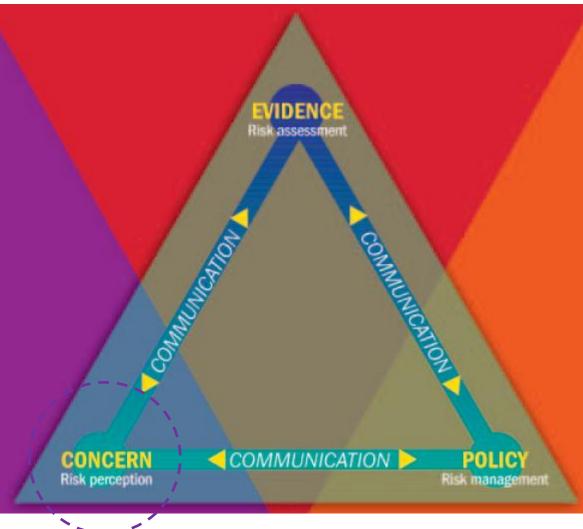
Fact sheet N °304 May 2006

- "…RF exposures from base stations…lower or comparable to RF exposures from radio or television broadcast transmitters."
- '...no adverse short- or long-term health effects have been shown to occur from the RF signals produced by base stations...'
- 'Considering the very low exposure levels and research results collected to date, there is no convincing scientific evidence that the weak RF signals from base stations and wireless networks cause adverse health effects.'





Responding to EMF Issues



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World Health Organization, 2002

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Public Concern About Mobile Communications

- Risk perception factors:
 - Perceived uncertainty and lack of knowledge.
 - Personal control versus imposed exposure.
 - Direct versus indirect benefits.
- Outrage.
- Science necessary not sufficient.





Importance of Risk Communication

Communication:

- When?
- Who?
- What?
- How?

'Unless an effective system of public information and communication among scientists, governments, the industry and the public is established, new EMF technologies will be mistrusted and feared.'

ESTABLISHING A DIALOGUE ON RISKS FROM ELECTROMAGNETIC FIELDS



Risk Communication Principles

- Trust.
- Perception.





- Listen.
- Culture..
- Information.

Risk Communication Guide for Mobile Phones and Base Stations

Practical guidance and support on good risk communications practice for the mobile industry



http://www.gsma.com/health



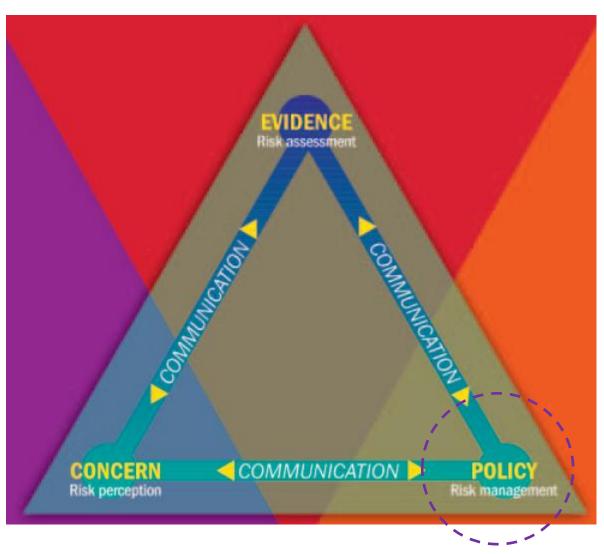
Good Practice Risk Communication

- Use 3 key messages, for example:
 - Complies with limits.
 - Levels are very low relative to limits.
 - No established health risks.
- Use simple language.
 - Minimise technical terms.

Use relevant images.



Responding to EMF Issues





World Health Organization, 2002

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Harmonise with International EMF Policy

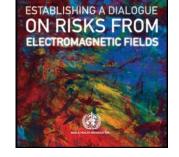


International Telecommunication Union



www.itu.int www.iec.ch

World Health Organization MODEL LEGISLATION FOR ELECTROMAGNETIC FIELDS PROTECTION



www.who.int/emf



www.icnirp.org



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National Policy for Mobile Networks

- Mobile networks are national infrastructure deployed locally.
- Consistent policy protects public and supports rollout.
- Comply with national RF exposure limits to address public concerns.

USA: 'No State or local government or instrumentality thereof may regulate the placement, construction, or modification of personal wireless service facilities on the basis of the environmental effects of radio frequency emissions to the extent that such facilities comply with the Commission's regulations concerning such emissions.'



- Mobile networks are national infrastructure deployed locally.
- Consistent policy protects public and supports rollout.
- Comply with national RF exposure limits to address public concerns.
 UK: 'if a proposed mobile phone base station meets the...ICNIRP guidelines...it should not be necessary for a local planning authority...to consider further the health aspects and concerns about them.'



- Mobile networks are national infrastructure deployed locally.
- Consistent policy protects public and supports rollout.
- Comply with national RF exposure limits to address public concerns.
- Mandatory decision period for site applications.

USA: 'shot clock' specifies 90 days for collocation applications and 150 days for other siting applications.

UK: 56 days for masts below 15 metres and some rooftop developments.



- Mobile networks are national infrastructure deployed locally.
- Consistent policy protects public and supports rollout.
- Comply with national RF exposure limits to address public concerns.
- Mandatory decision period for site applications.
- Simplify procedures for small antennas, low power and modifications.
 Ireland antennas smaller than 2 m on rooftops do not require permits.
 Italy sites less than 20 W transmit power do not require permits.
 Netherlands most upgrades are permit free.

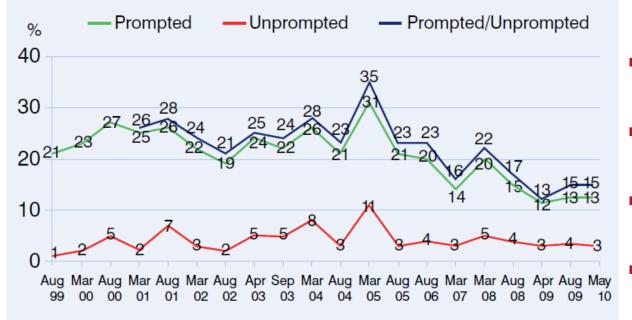


- Mobile networks are national infrastructure deployed locally.
- Consistent policy protects public and supports rollout.
- Comply with national RF exposure limits to address public concerns.
- Mandatory decision period for site applications.
- Simplify procedures for small antennas, low power and modifications.
- Allow site sharing where technically and commercially feasible.



Health Concerns

% mentioning handsets/masts as a concern



- International limits.
- National mast policy.
- Code of practice.
- Sample audits.
- Information.
 - Research support.

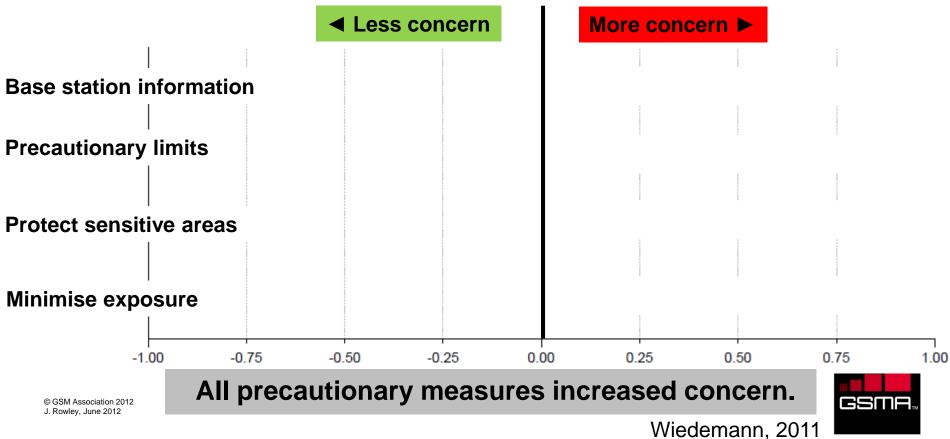


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Mobile Operators Association (UK), 2010.

Precautionary Measures = Increased Concern

- Study conducted in Australia, Brazil, India, Japan, Germany, The Netherlands, South Africa, UK and USA.
 - ICNIRP recommends limits, however, in some countries debate continues.



Established Risk



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http://www.michellehenry.fr/tel.htm



- Adopt evidence based RF policy harmonised with international recommendations to address concerns.
- Adopt a national policy for deployment of mobile network infrastructure that protects public and supports services.
- Communicate using trusted agencies and avoid policies that increase concern.



Thank You

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January 12 - GSMA Health & Environment Newsletter January 2012 Health & Environment Welcome to the GSMA Health & Environment Newsletter, This e-newsletter provides regular updates on developments on science and policy issues and GSMA activities related to mobile communications health and environmental issues. GSMR We welcome feedback on the content. GSMA - Public Policy - Mobile **Public Policy** Mobile and Health Mobile and Health **Campaign Overview GSMA** Research Health FAQs Health Policy Mobile Communications and Health Mobile Devices Femtocells and Health Mobile Networks Science Overview Resources Meet the Team Contact Us MOBILE & HEALTH MOBILE. GSMA