

EM Radiation Research Trust operators association Conference, 8-9 September 2008



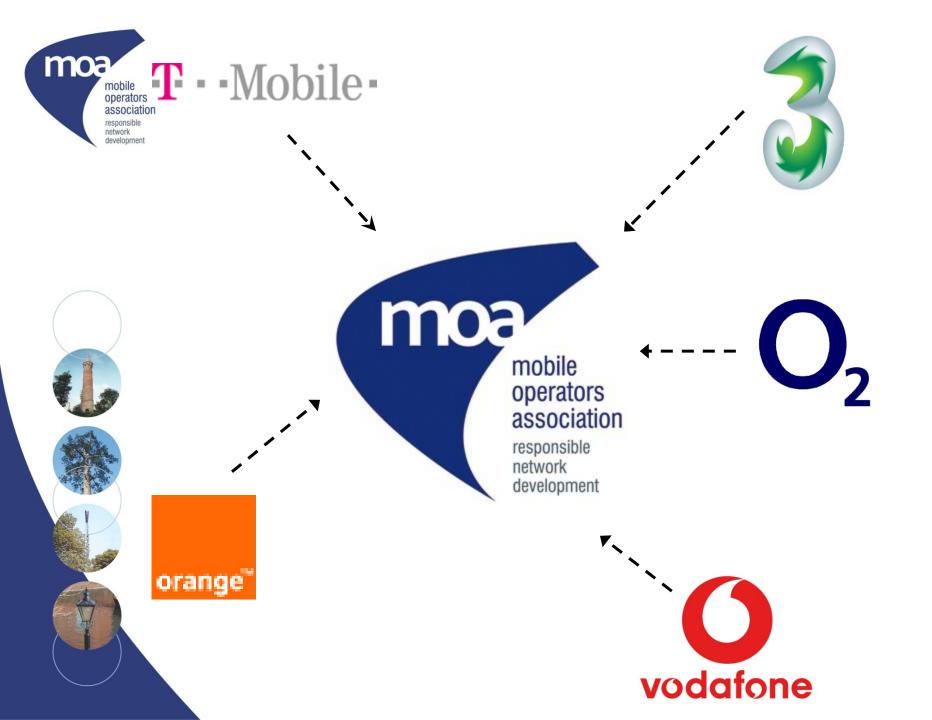
Electromagnetic Radiation and the Precautionary Approach

Precaution in the context of mobile phones and base stations – an industry perspective

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Outline

- Background to the precautionary principle
- When and how to apply the PP
- The PP in the UK political system
- The PP in the courts
- Precautionary approach to mobile telephony
- Risk perception and precaution
- MOA and the precautionary approach







Background

- Ongoing calls for the precautionary principle to apply to mobile phone use and radio base station siting
- No health hazard from mobile telephony has been established (30+ UK and international reviews published since 2000)
- Gaps in scientific knowledge narrowing but some still exist – ongoing research has been recommended by the review bodies
- Invoking PP needs more than mere suspicion
- Some evidence of a possible hazard is required – the key question is how much?







UK RF Scientific Reports

- IEGMP (Stewart) Report (2000)
- AGNIR Report (2003) (published 2004)
- NRPB Report (2004) (published 2005)
- MTHR Summary Report (2007)
- BMA Reviews (2001, 2005)
- Institution of Engineering and Technology (IET) Reviews (2006, 2008)







Defining the Precautionary Principle

- Several definitions have been suggested but a common theme runs through them
- Take action now to avoid future damage to the environment or human health
- In its extreme form the PP may mean a halt to all activity, it may also mean not very much action is warranted
- Key question for policymakers: "How much precaution is precaution?"
- When and how to apply the PP was addressed in 2000 by a Communication from the European Commission







When and how to apply PP (1)

- EC Communication (2000)
- First step formal risk assessment based on known science
- Hazard identification
- Hazard characterisation
- Appraisal of exposure
- Risk characterisation







When and how to apply PP (2)

EC criteria when implementing PP:

- Proportional
- 2. Non-discriminatory
- 3. Consistent with similar measures
- Cost/benefit analysis required
- Subject to ongoing review
- 6. Assign responsibility for ongoing review

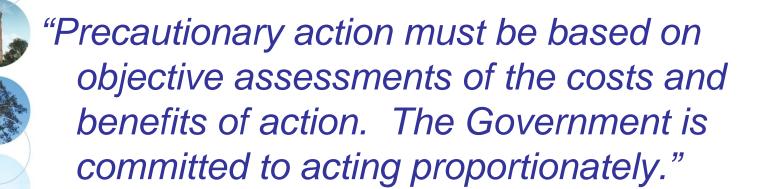






PP and the UK Government (1)

UKGovernment response to Royal Commission on Environmental Pollution, Defra (2000):





PP and the UK Government (2)

UK Government ILGRA Group (2002):

"There is good reason to believe that harmful effects may occur...and the level of scientific uncertainty about the consequences or likelihood of the risk is such that the best scientific advice cannot assess the risk with sufficient confidence to inform decision making."





PP and the UK Government (3)



- "The Precautionary Principle:
 - is narrower than "being cautionary";
 and
 - is not relevant unless scientific uncertainty is a significant factor and there is good reason to expect harmful effects."







PP and the UK Parliament

 House of Commons Select Committee on Science and Technology Report (2006)



"We believe it is best to use the term precautionary approach, but with a consistent explanation of the degree and nature of the risks, benefits and uncertainty and an explanation of the concept of proportionality."





The PP in the courts (1)

Pfizer Animal Health SA (European Court of First Instance, 2002)

"A preventive measure cannot properly be based on a purely hypothetical approach to the risk, founded on mere conjecture which has not been scientifically verified...A preventive measure may be taken only if the risk, although the reality and extent thereof have not been fully demonstrated by conclusive scientific evidence, appears nevertheless to be adequately backed up by the scientific data available at the time when the measure was taken."





The PP in the courts (2)



 "Whilst the Commission's exercise of public authority is rendered legitimate, pursuant to Article 155 of the EC Treaty (now Article 211 EC), by the European Parliament's political control, the members of SCAN, although they have scientific legitimacy, have neither democratic legitimacy nor political responsibilities. Scientific legitimacy is not a sufficient basis for the exercise of public authority." Pfizer



The PP in the courts (3)

- Shirley Primary School v Telecom Mobile Communications Limited (New Zealand Environment Court, 1999)
- Base station siting case school grounds
- Conflicting scientific evidence before court
- Court: no-one can guarantee zero risk
- Risk of adverse health effects from base station exposure judged to be very low
- Base station siting proposal allowed







The PP in the courts (4)

Telstra v Hornsby (NSW Land & Environment Court, 2006)

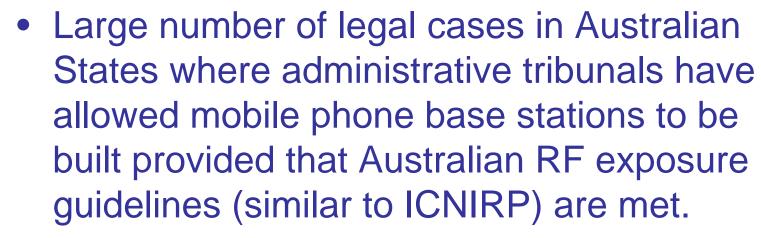
- Mobile phone base station siting case
- PP should not be used to avoid all risks
- "Zero risk" standard is inappropriate
- PP and preventative action cannot be based on a purely hypothetical approach
- Scientific verification of the likelihood of risk is required
- Precautionary response must be proportional

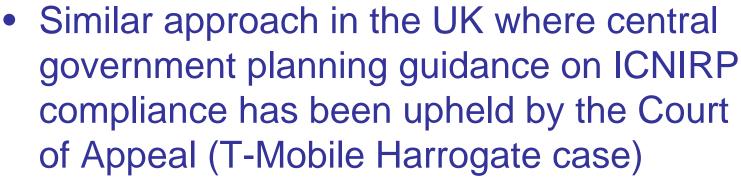






The PP in the courts (5)











A Precautionary Approach to Mobile Telephony in the UK

- "Precautionary Approach" rather than PP
- PA adopted by Stewart Report (2000)
- PA accepted by UK Government and UK mobile phone network operators (2000)
- PA endorsed by NRPB Report (2004)
- Stewart Report set out the detail of what it meant by a precautionary approach
- PA remains in place as appropriate public policy for mobile telephony in the UK







PA for mobile telephony in the UK- what does it entail? (1)

- Compliance with *ICNIRP guidelines* (move in 2000 from the 5X higher NRPB exposure guidelines)
- Operation of networks at lowest efficient power
- Agreed cross industry signage at base station sites
- Ofcom audit of radio base station RF emissions -500 + sites assessed and all well below ICNIRP RF public exposure guidelines
- "Sitefinder" database of all UK radio base stations (including Airwave and Network Rail sites) which is searchable by postcode or area on Ofcom website (http://www.ofcom.org.uk/sitefinder/)







PA for mobile telephony in the UK – what does it entail ? (2)

- Government/industry funded RF research (MTHR 1 & 2) independent Programme Management Committee (chaired by Professors William Stewart, Lawrie Challis, and David Coggon)
- Government/agency communication activities (DH/BERR/CLG, Ofcom, and HPA literature and websites)
- MOA/operator communication activities
 (website, fact sheets, e-letter, risk communication manual)
- Handset SAR information provided for customers by manufacturers in manuals and on websites







PA for mobile telephony in the UK – what does it entail ? (3)

- Mobile network operators' "Ten Commitments to best siting practice" (2001) (now in Government codes of best practice in England and Wales)
- All operators' network rollout plans sent by MOA to all 431 UK local planning authorities every autumn with offer of face to face meetings to discuss
- Use by all operators of MOA site selection and planning model based on traffic light rating
- Pre-application consultation (including schools and colleges) is a key part of site selection model
- Ongoing information seminars for LPA councillors and planning officers (200+ held since 2001)







Risk perception and precaution

- Research in Germany and the UK has suggested that adopting a precautionary approach may send out mixed messages on safety and alarm people (Wiedemann et al, 2005 and Barnett et al, 2006, 2008)
- This research needs to be considered by policymakers (Barnett et al, 2006)





Public Policy and the Precautionary Approach

- Science is international
- Public policy is national/regional/local
- National/regional/local cultural and other issues will influence public policy
- Public policy tools such as the PA may be subject to those influences and political approaches, eg. what works in Europe may not work in Asia or Africa







MOA and the Precautionary Approach

- MOA and its members are not opposed to a precautionary approach on RF health issues
- MOA accepted Stewart Report PA in 2000
- MOA and its members respond to advice and guidance from HPA, DH, and WHO
- MOA "Ten Commitments" published in 2001 are kept under review as part of that precautionary approach









Thank you for listening

Questions?



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