

WHO-Workshop on Guiding Public Health Policy
in Areas of Scientific Uncertainty
Ottawa, 11 – 13 July 2005

Precautionary Options for

- siting of mobile phone-antennas**
- mobile phone users**

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P M I

NON PROFIT ASSOCIATION - MEMBER OF:

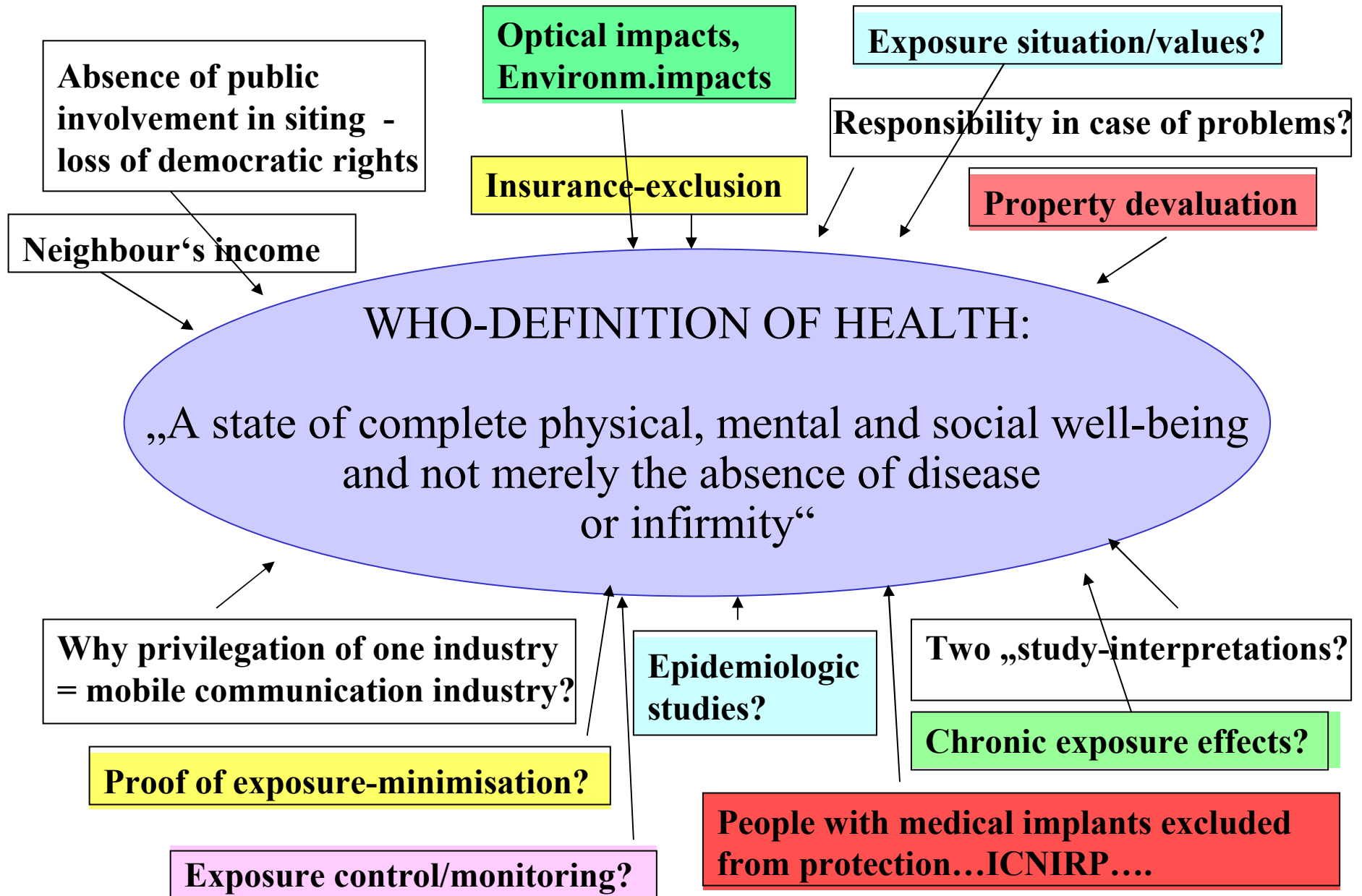
- **AUSTRIAN ENVIRONMENT UMBRELLA ASSOCIATION**
(member of EUROPEAN ENVIRONMENT BUREAU BRUXELLES)
- **AUSTRIAN EMF-STANDARD SETTING COMMITTEE**
- **WHO-EU-PREC. PRINCIPLE-WORKING GROUP (Feb. 2003)**
- **BIOELECTROMAGNETICS SOCIETY BEMS**

Siting of Mobile Phone antennas:

concern in general public

due to

- lower standards?
- other reasons?



ICNIRP-RECOMMENDATIONS 1998....

.... also RAISE FEARS AND MISTRUST:

- SEEM TO CHANGE SECURITY-FACTORS
DEPENDING ON THE INDUSTRIAL
BUT NOT ON THE SCIENTIFIC REQUIREMENTS
- DEFINE BASIC LIMITS THAT CANNOT BE
MEASURED UNDER REAL-LIFE CONDITIONS
- **DEFINE EVERYONE AS WORKER INSTEAD OF
THOSE WHO ARE PROFESSIONALLY EXPOSED,
DIFFERENCE WITH OTHER AGENTS:::**

POSSIBLE OPTIONS:

DIFFERENT LIMITS FOR CHRONIC LONG-TERM EXPOSURE ?

e.g. Italy for areas where people are more than 4 hours

THIS GARANTEES

the use / compliance for mobile-phones = short-term-
exposure!

SOMETHING SIMILAR SHOULD BE

→ **DONE BY ICNIRP...**

→ **RECOMMENDED BY WHO....**

ITALY:

Based on

- the Constitution art. 32
- the Precautionary Principle art.174 – Treaty of Amsterdam/EC
- science: „documento congiunto“ ISS-ISPEL

DM 381/1998 art.4, comma 1:

MINIMIZATION „as low as possible to guarantee the service“

Law no. 36/2001 art.8, comma 6:

for the population and the workers

Decree July 2003:

Attention level / Quality goal: 6 V/m

....promote technological innovation and „reconstruction“.....

ALARA - ALATA

**LOW EXPOSURE-LEVELS FROM BTS
ARE
TECHNICALLY AND FINANCIALLY
ACHIEVABLE:**

- MEASUREMENTS AND MONITORING IN ITALY
- 3-YEAR MEASUREMENTS IN STYRIA-AUSTRIA
- DIFFERENT LOCAL AGREEMENTS
e.g. Salzburg 2000 1 mW/m², PARIS 2 V/m, etc.

CONSENS WITH CITIZENS IS POSSIBLE

e.g.

→ ROUND TABLES IN SALZBURG/AUSTRIA
FOR 2 YEARS
(PUBLIC RELATION AWARD 1998)

→ ROUND TABLES IN VENICE

→ OTHER LOCAL ROUND TABLES WITH
PARTICIPATION- AND MINIMIZATION-
SOLUTIONS (PARIS....)

**....MEASURES RAISED ACCEPTANCE OF MOBILE
PHONE INFRASTRUCTURE + WELLBEING**

**EXPOSURE-MINIMIZATION
IS POSSIBLE
e.g. BY „INTELLIGENT SITING“**

e.g.

BAKOM - SWISS FEDERAL OFFICE OF COMMUNICATIONS

USED RF-CALCULATION-SOFTWARE in 2001/2002
TO COMPUTE RF-FIELDS EXPOSURE-SITUATION IN
SALZBURG/AUSTRIA

WITH EMF-SIMULATION-SOFTWARE

IT IS POSSIBLE TO

- **SIMULATE RF-EXPOSURE**
- **CALCULATE EXISTING EXPOSURE**
- **PREDICT FIELD
DISTRIBUTION/EXPOSURE OF SITES**

WITH GREAT ACCURACY –**RAISES TRUST!**

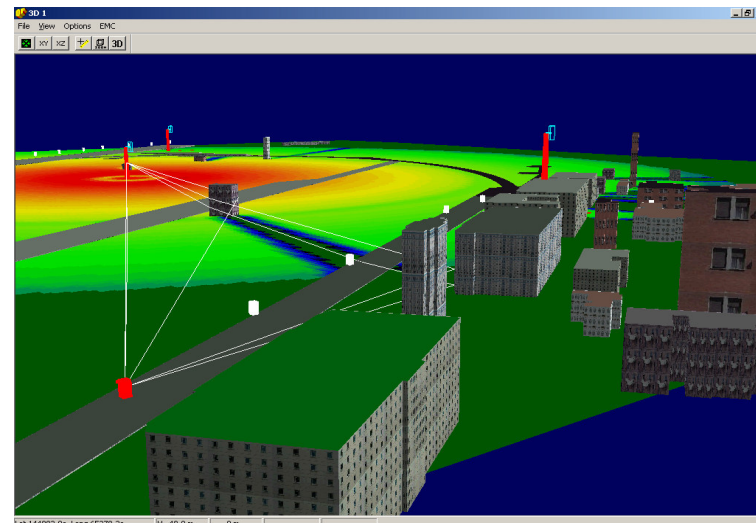
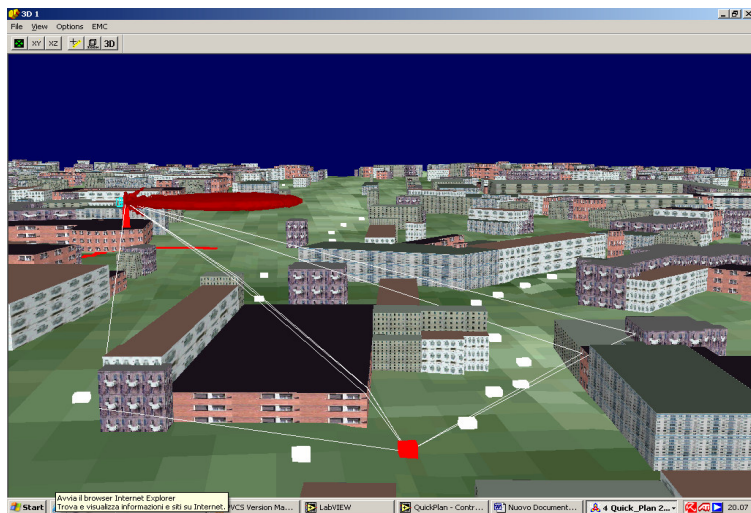
BAKOM-PUBLICATION 2002:

SALZBURG-3D SIMULATION WITH „QUICK_PLAN™“

CAN BE USED

- FOR NET-PLANNING
- TO DETERMINATE PLANNING-OPTIONS FOR EXPOSURE-MINIMISATION
- EVALUATE THE EXPOSURE SITUATION IN URBAN AREA
- PUBLIC-INFORMATION ABOUT EXPOSURE (INTERNET)
- FACILITATES COMMUNICATION BETWEEN PUBLIC, PROVIDERS AND LOCAL AUTHORITIES
- MAKES CLEAR THAT EXPOSURE-MINIMISATION CANNOT BE REACHED JUST AVOIDING BTS ON SCHOOLS, KINDERGARDENS WHILE SITED ON RESIDENTIAL HOMES

„QUICK_PLAN™“



PRECAUTIONARY OPTIONS FOR MOBILE PHONE-USE:

e.g.

- **GOOD VISIBLE PUBLICATION OF SAR-VALUES ON MOBILE PHONES**
- **TECHNICAL INNOVATIONS TO MINIMIZE EXPOSURE?**
- **IS SAR THE „RIGHT VALUE?**
- **RECOMMENDATION TO USE HANDSFREEKITS**
- **DISCOURAGE THE USE OF MOBILE PHONES BY CHILDREN**
- **PROBLEM OF MOBILE PHONE ADVERTISEMENT FOR CHILDREN'S USE**
- **CASE-STUDIES MUST INCLUDE OTHER AGENTS WITH MAY SYNERGISTICALLY AFFECT HUMAN HEALTH**

PP-MEASURES FOR BTS-SITINGTO REACH CONSENSUS PROVIDERS-LOCAL AUTHORITIES-PUBLIC

- 1. EXPOSURE-MINIMISATION TO THE MINIMUM NEEDED BY THE INDUSTRY TO MAINTAIN THE QUALITY OF THE SERVICE – AS QUALITY CRITERION**
- 2. PUBLIC- AND LOCAL-AUTHORITY-INVOLVEMENT IN SITING**
3. INFORMATION ABOUT EXISTING AND EXPECTED EXPOSURE-VALUES / COMPUTER-SIMULATION, INCL.EXISTING HF-EMF SOURCES.
- 4. EXPOSURE-CONTROL - 24h-MONITORING**
5. TAKING ACCOUNT OF THE LOCAL-HEALTH-SITUATION
- 6. CONSIDERATION OF DIFFERENT SITING-OPTIONS**
7. OPEN-MINDED DISCUSSION ABOUT DIFFERENT TECHNICAL SOLUTIONS (MICROCELLS, FLAT-STRIPS,)
- 8. PUBLICATION OF EXPOSURE-DATAS VIA INTERNET**
- 9. PUBLIC AND NATIONAL DATABASE**
- 10. COLLECT CITIZENS-REPORTS ABOUT WELLBEING-PROBLEMS**
- 11. SOLVE THE INSURANCE-PROBLEM**

THANK YOU!

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