



ICNIRP 7th International NIR Workshop
Edinburgh, United Kingdom, 9-11 May 2012



The Dutch research programme **Electromagnetic Fields & Health**

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*7th ICNIRP NIR Workshop
Edinburgh, UK, 9-11 May 2012*



ZonMw mission



The Netherlands Organisation for Health Research and Development

Progress requires research and development.

ZonMw funds health research and stimulates use of the knowledge developed to help improve health and health care.



ICNIRP 7th International NIR Workshop

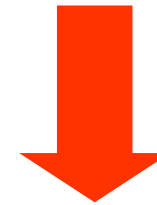
Edinburgh, United Kingdom, 9-11 May 2012



The Netherlands



Electromagnetic Fields & Health



- Ministries responsible for
- Infrastructure and the Environment
 - Health, Welfare and Sport
 - Economic Affairs, Agriculture and Innovation



Electromagnetic Fields & Health in the Netherlands

Ministries of

- Infrastructure and the Environment
- Health, Welfare and Sport
- Economic Affairs, Agriculture and Innovation

Scientific advise

Health Council of the Netherlands

- Since 2000 permanent committee
Electromagnetic Fields
- Multidisciplinary group
 - Epidemiology, biology, medicine, physics.
 - Advisors of ministries

Proposals for research into health
effects of electromagnetic fields
(0 Hz - 300 GHz)



to:
the State Secretary of Housing, Spatial Planning and the Environment
the Minister of Economic Affairs
the Minister of Health, Welfare and Sport
the State Secretary of Social Affairs and Employment

No. 2006/118, The Hague, May 30, 2006



History of programme EMF&H

- 2003 First request Dutch government to Health Council Netherlands for advise on EMF&H research
- 2004 Parliament request for research programme on EMF&H
- 2006 HCN: Proposals for research into health effects of electromagnetic fields (0 Hz - 300 GHz)
- 2006 Initiation of ZonMw programme Electromagnetic Fields and Health



Goal of programme EMF&H

- To enhance the Dutch scientific knowledge infrastructure in the field of EMF (0-300 GHz) and health
- To help clarify possible positive and negative health effects associated with EMF exposure

Financer: Ministry of Infrastructure and the Environment
Budget: € 16.6 million (~ \$ 24.2 million)
Time: 2006 - 2014



Programme features

- Connection to international research effort:
international committee and call for collaborations
- Focus on three research areas:
biology, technology and epidemiology
- Various types of grants:
basic, technological, multidisciplinary, practically oriented, cohort, international and chairs
- Special call for chairs:
professors are to take centre stage in 3 research areas



Chairs under EMF&H programme

Chair “Epidemiology of Health Effects from exposure of EMF”

- Prof. dr. ir. Hans Kromhout (Utrecht)

Chair “EMF&H biology”

- Prof. dr. Roland Kanaar (Erasmus MC)

Chairs “EMF&H technology/physics”

- Prof. dr. ing. Gerard van Rhoon (Erasmus MC)
- Prof. dr. ir. Peter Zwamborn (TU/e (and TNO))



Granted projects

Basic research

Lidy van Kemenade (WUR)
Daniëlle Timmermans (VUMC)
Remco Westerink (UU)
Lidy van Kemenade (WUR)
Nico van den Berg (UMCU)

Technological research

Jan Lagendijk (UMCM)
John Bolte (RIVM)
Gerard van Rhoon (EMC)

Multidisciplinary research

Ronald de Groot (UMCN)
Irene van Kamp (RIVM)
John Voskamp (WU)
Hans Kromhout (UU)

Diagnostic tool for Electro Sensitivity

Final decision expected soon

Practically-Oriented research

Daniëlle Timmermans (VUMC)
Christian Bröer (UvA)
Christian Bröer (UvA)
Anke Huss (UU) Rik Bogers (RIVM)

Chairs in epidemiology, technology and biology

Hans Kromhout (UU)
Zwamborn (TNO) & Van Rhoon (EMC)
Roland Kanaar (EMC)

Cohort study

Hans Kromhout (UU)

International exchange & collaboration

Hans Kromhout (UU)
And 20 smaller international projects



Knowledge platform EMF

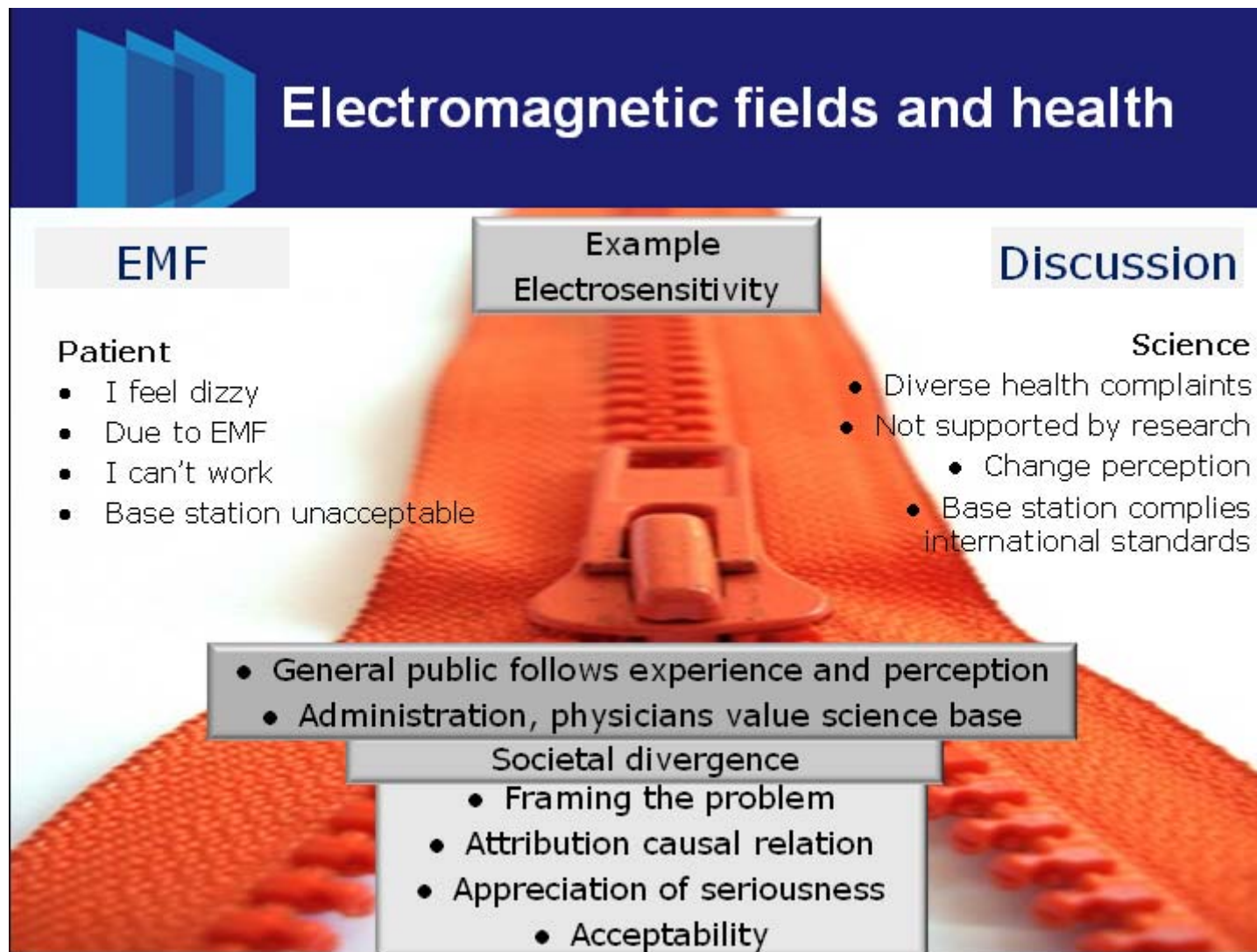
Cooperation between RIVM, TNO, KEMA, GGD'en, Agentschap Telecom en ZonMw

Goal is to inform citizens and (semi-)professionals about national en international scientific information in the field of EMF

Focus group consists of organisations that stand up for the interests of groups that deal with issues of EMF

Info: www.kennisplatform.nl

Presentation KP



Electromagnetic fields and health

EMF	Example Electrosensitivity	Discussion
Patient <ul style="list-style-type: none">• I feel dizzy• Due to EMF• I can't work• Base station unacceptable		Science <ul style="list-style-type: none">• Diverse health complaints• Not supported by research<ul style="list-style-type: none">• Change perception• Base station complies international standards
<ul style="list-style-type: none">• General public follows experience and perception• Administration, physicians value science base		
Societal divergence <ul style="list-style-type: none">• Framing the problem• Attribution causal relation• Appreciation of seriousness<ul style="list-style-type: none">• Acceptability		



Dutch Knowledge Platform on electromagnetic fields and health

Science

Dutch Knowledge Platform on EMF

Science
Forum

Board
Directors

Communication
Forum

Participants
Knowledge
Platform

National Sounding Board
on EMF

Society

- Enabling people to form their own opinion based upon reliable information;
- Enabling societal discussions based upon professional interpretations of scientific research and understandable opinions.



Dutch Knowledge Platform on EMF

Participating Organisations:

- **Knowledge centres:** RIVM, TNO and KEMA
- **Knowledge communication:**
Agentschap Telecom, the GGDs (DPHS)
- **Knowledge production:** ZonMw

Chair: Rombouts, Mayor 's-Hertogenbosch

The Netherlands Health Council is advisor

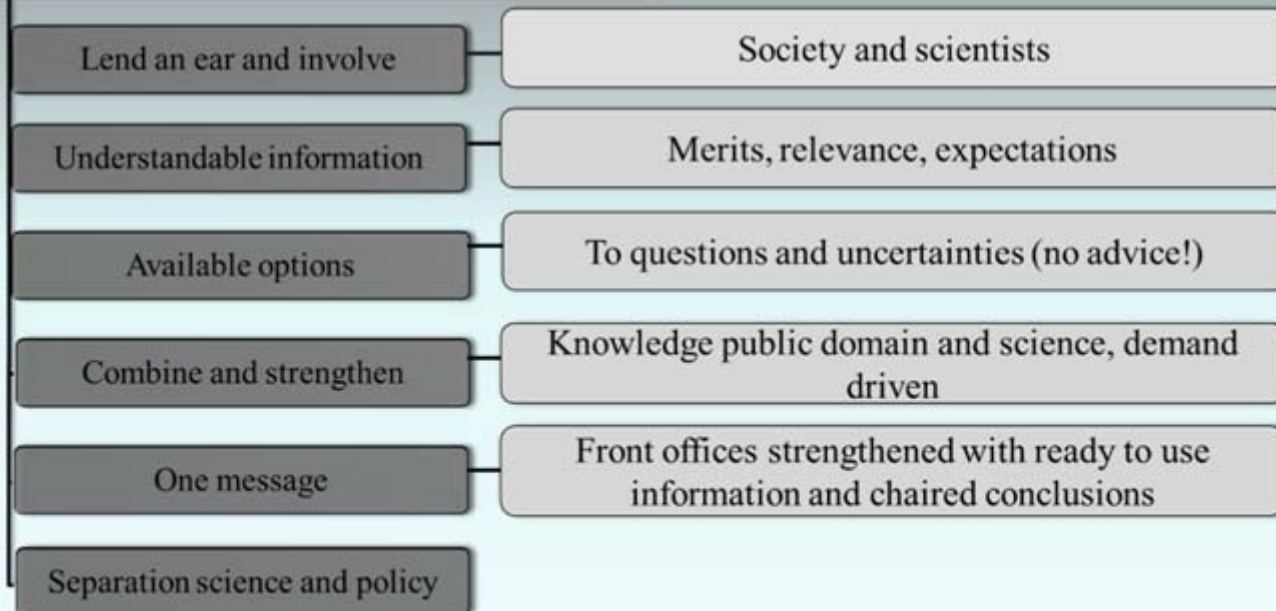
Independent organization hosted by RIVM, installed by Ministers:

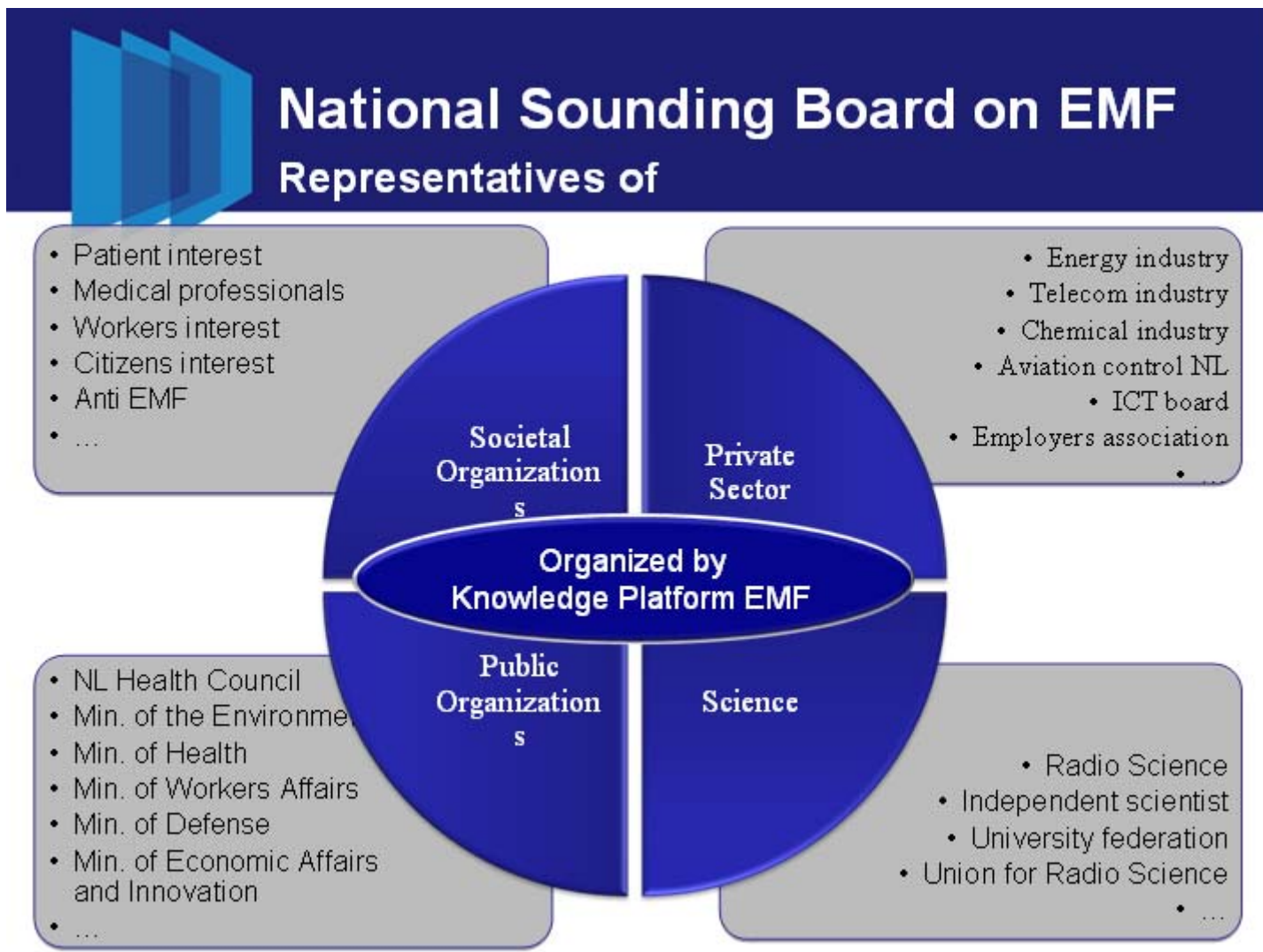
- Infrastructure and the Environment
- Economic Affairs, Agriculture and Innovation
- Social Affairs and Employment



Dutch Knowledge Platform on EMF

Honest Knowledge broker

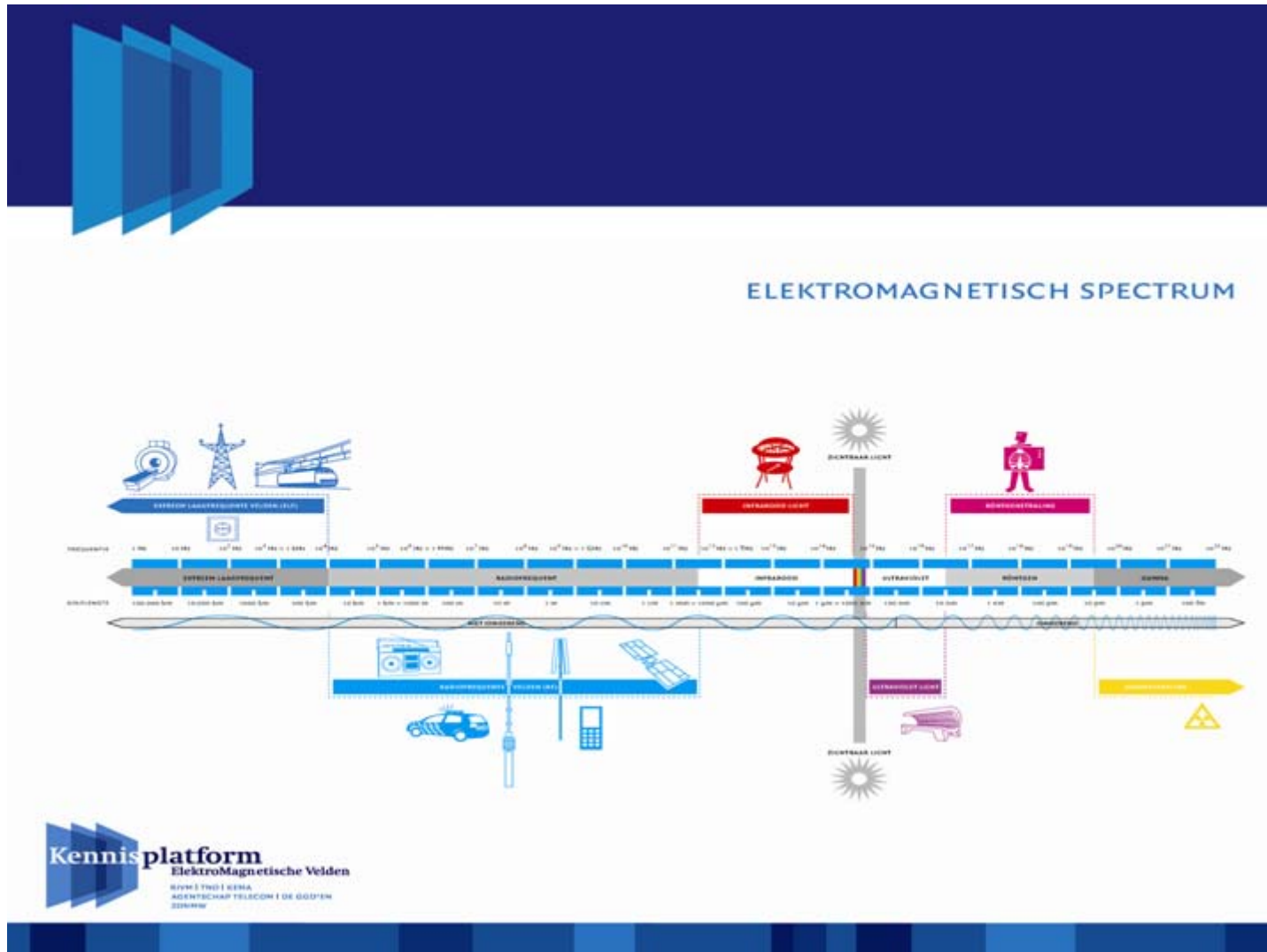






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Knowledge Platform EMF&H

Aim is to help the public understand and assess the value of scientific studies on EMF

Cooperation between RIVM, TNO, KEMA, GGD'en, Agentschap Telecom en ZonMw

Focus group consists of organisations that stand up for the interests of groups that deal with issues of EMF

Communications on results of projects and program itself in close collaboration with the Knowledge Platform EMF



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Kennisplatform
ElektroMagnetische Velden
RIVM | TNO | KEHA
AGENTSCHAP TELECOM | DE GGDF | EN
ZONMw

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Kennisplatform Elektromagnetische Velden

Het Kennisplatform EMV bundelt kennis op het gebied van elektromagnetische velden met als doel wetenschappelijke informatie over het onderwerp te duiden en beschikbaar te maken.

Actueel

9-06-2011
Verhagen steunt plan Tennet om huizen in de zakelijke rechtstrook van de 220 en 380 kV hoogspanningslijnen uit te kopen en 110/150 kV te verkabelen.
Er is veel media- en Twitter-aandacht voor een brief van minister Verhagen van EL&I aan de Tweede Kamer. In de brief steunt Verhagen het plan van Tennet om woningen in de zakelijke rechtstrook van de 220 en 380 kV hoogspanningslijnen uit te kopen en knelpunten bij bestaande 110 en 150 kV lijnen op te lossen door ze ondergronds te brengen.
[Lees het complete bericht](#) →

07-06-2011
Eerste indruk: Raad van Europa adviseert om blootstelling aan EMV te verlagen.
De Raad van Europa heeft op 27 mei een rapport aangenomen waarin zij oproept om de blootstelling aan EMV te verlagen. Verder wordt geadviseerd om op scholen de voorkeur te geven aan bedraad internet en het stellen van regels voor het gebruik van mobiele telefonie. In het aangenomen rapport wordt niet meer opgeroepen tot het verbieden van mobiele telefoons en draadloze toepassingen op scholen.
[Lees het complete bericht](#) →

01-06-2011
Eerste indruk: WHO/IARC: beperkte aanwijzingen voor relatie hersentumoren en gebruik mobiele telefoon
De Internationale Commissie voor Kankeronderzoek (IARC) van de Wereldgezondheidsorganisatie (WHO) meldt op 31 mei 2011 in een persbericht 1 dat de zendsignalen van mobiele telefoons mogelijk kankerverwekkend zijn. Volgens de WHO...
[Lees het complete bericht](#) →

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Maatschappij laat stem horen
Maatschappelijke organisaties laten hun stem horen over elektromagnetische velden
[Klankbordgroep EMV →](#)

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