1) General research activities related to EMF and health

- Evaluation of micronucleus (MN) and DNA damage by alkaline comet-assay in vitro of human lymphocytes exposure to intermediate frequency (IF) magnetic fields (NRDRR National Public Health Centre - National Research Directorete for Radiobiology and Radiohygiene).

- In vitro study on possible mechanisms of adaptive response (AR) induced by IF (NRDRR).

- Cellular response to co-exposure of radiofrequency (RF) and solar ultraviolet (UV) radiation in human in vitro skin model (SKIN-RF). French-Hungarian research project supported by ANSES (INERIS, NRDRR).

- Indoor RF exposure assessment in urban area conducted by personal RF exposimeter (NRDRR).

- Human cognitive and EEG studies on WiFi exposure and co-exposure to RF and caffeine (University of Pécs, NRDRR).

- Research on the aetiology of IEI-EMF: A multidisciplinary approach involving psychological, physiological, environmental and ecological momentary assessments (Eötvös Loránd University, Budapest, NRDRR).

- Investigation on the Extremely low frequency (ELF) stray magnetic fields of laboratory equipment (NRDRR).

- Measurement campaign and survey of public exposure to RF from mobile phone base stations in schools and kindergartens in Hungary (more than 300 sites). Data of measurements are available for the public on the webpage (National Media and Infocommunications Authority, NMHH).

- ELF-MF public exposure survey in the vicinity of transformer stations (NRDRR).

- Participation in the international TRANSEXPO project: Study of Childhood Leukaemia and Residences Adjacent to Transformer Stations. (NRIRR), Medical Univ. of Budapest.

- Joint to the COST BM1309 “European network for innovative uses of EMFs in medical applications” project (NRDRR, University of Pécs).

2) New policies and legislations regarding to EMF exposure

2.1 No new legislation released in the last year.

2.2 Planned initiatives:

The implementation process in order to put into national legislation of 2013/35/EU Directives has been started. The decree will be issued until end of June 2016. The legislation almost fully adopts the EU Directive.
3. Areas of public concern and national responses

3.1 The public concern is continuously permanent on the same level approximately for many years. The main issue is the mobile base stations.

3.2 The second topic of the public concerns is the electric power transformers. In Hungary the 10/04kV transformer stations are typically installed in the basement or ground floor of multi-storey apartment buildings. Magnetic fields up to several tens of µT have been measured in apartments or offices located close to transformers. Residents are concerned about the possible health effects of magnetic fields.

3.3 Spreading in the market the new devices (beds, mattress, pillow etc.) for PMF magnetic therapy distributed by SMEs with very low level scientific justification of therapeutic effects.

4) New public information activities


4.2 Information available for the public about the EMF exposure to RF at the homepage of the National Media and Infocommunications Authority (http://emirpub-prod.nmhh.hu/pubrendszer-web/eszmog/eszmogMeresek.jhtml)

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