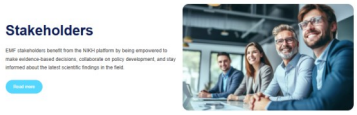
Newsletter 5
December 2025

NextGEM

Next Generation Integrated Sensing and Analytical System for Monitoring and Assessing Radiofrequency Electromagnetic Field Exposure and Health

The NIKH was released: check it out!



The release of the **NextGEM Innovation and Knowledge Hub** (NIKH) represents an important milestone in NextGEM's progress.

NIKH is designed to provide comprehensive access to scientific knowledge on radiofrequency electromagnetic field (RF-EMF) exposure and its potential impacts on health. It serves as a trusted environment for European regulatory authorities, the scientific community, industry stakeholders, and citizens, offering a standardized way to store, manage, and assess project outcomes, while ensuring compliance with FAIR (Findable, Accessible, Interoperable, Reusable) data principles.

Click here to find out all about the NIKH

NextGEM wins International Awards

The NextGEM project received international recognition last summer, with two research teams winning prestigious awards at major scientific conferences.

Honourable Mention Award at IEEE IWEM 2025

Ruben Otin received an Honourable Mention Award for the paper *Computational Human Skin Model for 5G Electromagnetic Field Exposure Studies* at the IWEM 2025. The institutions that participated in this paper were: CIMNE, UCAS and HUJI.

Alexandre Legros Award at BioEM 2025

At the BioEM 2025, Joshua Ziegler received the Alexandre Legros Award for a study named *Umbrella review of RF-EMF exposure from Far-Field Sources and Cancer in Humans.* The institutions that participated in this research were: IMBEI, BFS, RIVM, FORTH and IARC.

Click here to learn more about these awards

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NextGEM held its last Project Meeting

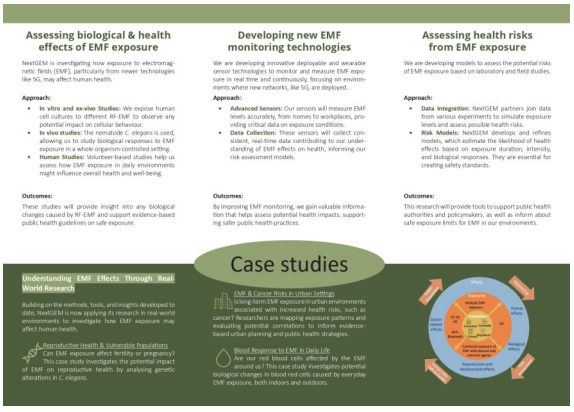
NextGEM partners held the 8th Project Meeting in Budapest (Hungary) on 15-16 October 2025. Representatives of all 22 institutions gathered for the last meeting of the project, which is coming to an end in 2026.

Most of the research lines have finished in the last months or are nearing the end. In this meeting, partners put together the results, most of which are to be used for the last part of the project, the Case Studios, which are:

- Reproductive Health & Vulnerable Populations
- EMF & Cancer Risks in Urban Settings
- Blood Response to EMF in Daily Life

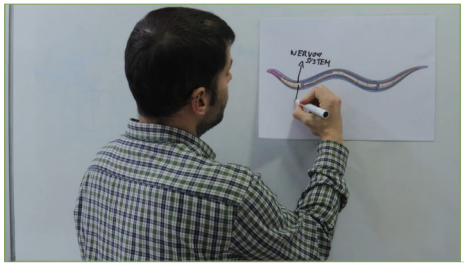
New NextGEM flyer: From Research to Impact

Check out the last NextGEM flyer, in a triptych format. In this leaflet, we provide an overview of the workflow the consortium follows to dive into the question whether EMF have any effect on human health.

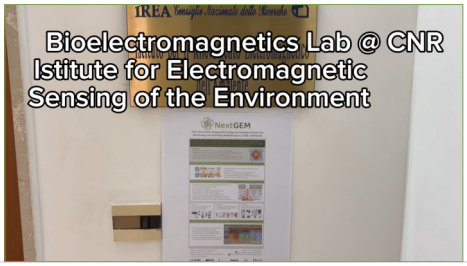


Check out our YouTube channel

[Using *C.elegans* to assess biological effects of EMF]



[Exploring CNR's bioelectromagnetics laboratory]



[Visit of the ISSeP premises housing the exposure system for human tests]

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Public deliverables

Deliverable 1.11 - **Common dissemination and communication strategy for the cluster**, September 2022.

Deliverable 1.12 - **Cluster web portal and visual identity**, May 2024.

Deliverable 1.13 - **Cluster brochure**, August 2023.

Deliverable 1.15 - **Scientific strategy of the cluster**, September 2022.

Deliverable 1.18 - **Stakeholder list**, May 2024.

Deliverable 2.1 - **EMF value drivers towards stakeholders needs on real case studies**, December 2022.

Deliverable 2.2 - **EMF Technologies and new exposure patterns**, April 2024.

Deliverable 2.3 - **Health risks, citizen's concerns and international guidelines**, August 2023.

Deliverable 2.5 - **NextGEM architectural framework**, February 2024.

Deliverable 3.5 - **EMF sensing technologies and measuring equipment**, March 2024.

Deliverable 3.6 - **Development of modelling approaches to assess internal and external exposure**, September 2024.

Deliverable 3.7 - **Development of innovative self-monitoring tools and methodologies**, October 2024.

Deliverable 3.8 - **Analysis of 5G architecture modelling and mapping**, January 2025.

Deliverable 4.5 - **Biochemical and biophysical mechanisms in EMF**, September 2024.

Deliverable 4.7 - **Technical report on the results on dosimetry**, November 2024.

Deliverable 4.8 - ***In vitro* and *in vivo* investigations**, May 2025.

Deliverable 5.1 - **Definition methodology on umbrella reviews of epidemiological studies**, September 2023.

Deliverable 5.2 - **Umbrella review of RF-EMF exposure from far-field sources and cancer in humans**, December 2024.

Deliverable 5.7 - **Identification of exposure protocols for a harmonized data collection**, April 2025.

Deliverable 5.8 - **Development of risk assessment models and RA tool**, May 2025.

Deliverable 6.6 - **Development of tools, dashboard and mobile app**, December 2024.

Deliverable 6.7 - **Network provisioning and links with EU health data space**, February 2025.

Deliverable 6.8 - **Trustworthy data management and compliance with ethics and legal aspects**, April 2025.

Deliverable 8.1 - **Project website and social media presence**, July 2022.

Deliverable 8.2 - **Dissemination and communication plan**, March 2023.

Funded by the European Union under Grant Agreement Number 101016567. Views and opinions expressed are however those of the author(s) only and do not necessarily reflect those of the European Union or the European Health and Digital Executive Agency. Neither the European Union nor the granting authority can be held responsible for them.