



EMERSYS

NEWSLETTER

“Toward an integrated, joint cross-border detection system and harmonized rapid responses procedures to chemical, biological, radiological and nuclear emergencies”

Romania-Bulgaria Cross-border Cooperation Programme
2007-2013

EMERSYS PROJECT

MIS-ETC Code: 774, www.emersys.eu

Reminder: In the framework of Romania (RO)-Bulgaria(BG) Cross-border Cooperation Programme, “Horia Hulubei” National Institute for Research and Development in Physics and Nuclear Engineering (IFIN-HH), as project leader, in partnership with the General Inspectorate for Emergency Situations (IGSU)-RO, the General Directorate for Fire Safety and Civil Protection (GDFSCP)-BG and the Institute for Nuclear Research and Nuclear Energy (INRNE)-BG implement EMERSYS Project -“Toward an integrated, joint cross-border detection system and harmonized rapid responses procedures to chemical, biological, radiological and nuclear emergencies”, co-financed by the European Union from ERDF-European Regional Development Funds (for more details, please access the project web page, www.emersys.eu).

This project provides the financing of a special issue of the Romanian Journal of Physics (RJP), to be published in mid-2014, dedicated to the scientific activities within EMERSYS Project connected to: the simulation (accident /incident scenarios, modelling, organising and conducting exercises), prevention, detection, intervention and minimizing consequences in cases of chemical, biological, radiological and nuclear emergency, ecological rehabilitation of the affected areas, including lessons learned of all matters listed.

The project team cordially invites all members of the scientific and technical community from Romania and Bulgaria - “Horia Hulubei” National Institute for Research and Development in Physics and Nuclear Engineering (IFIN-HH), the General Inspectorate for Emergency Situations (IGSU), the General Directorate for Fire Safety and Civil Protection (DGSI) and the Institute for Nuclear Research and Nuclear Energy (INRNE) who wish to publish articles related with the project’s field to use this opportunity, following the requirements of scientific and editorial quality of the journal, necessary for the preparation of articles (for more details see: <http://www.nipne.ro/rjp/>).

Please inform the journal editors, when forwarding the article, regarding your agreement to have it published in the special issue dedicated to EMERSYS project.



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Other news:

1. The notice marking the revival of the public procurement procedure for lot 3 within EMERSYS Project was published on-line in January 2014:

- Notice no. 149037/28.01.2014: Contract title: "Workstations and software for the evaluation of risks and consequences of major industrial accidents involving dangerous substances". The notice was published in the Official Journal of the European Union and on the webpage www.e-licitatie.ro, where one can also access the documents necessary to the tenderers in order to participate in the public tender.

2. All EMERSYS project partners received advance funds for equipment procurement and they initiated all the related procedures. The work instructions and acceptance criteria for equipment resulting from public tender in December 2013 have been prepared. The chemical and biological detection equipment consisting of portable system for detection of volatile organic compounds, portable organic kit, portable detection system with electrochemical sensors, portable spectrometry system for ion mobility, infrared detector for detecting remote cloud chemical agents has been purchased. Following public tender for notice no.147353/18.10.2013: Contract title: "Equipment for radiological detection CBRN and decontamination mobile units" the following equipment has been purchased: portable kit for determining the radioactivity, portable multichannel analyser, data processing and communications platform, chemical and radiological buoying system, equipment for personal protection, decontamination full set with trailer, CBRN mobile unit. Specialists from IFIN-HH are working on acceptance tests, which will demonstrate that the equipment meet the requirements in accordance with the technical specifications.

3. In the period February 2-8 2014 Addendum no.2 to the Financing Contract of MIS ETC 774 initiated and coordinated by "Horia Hulubei" National Institute for Research and Development in Physics and Nuclear Engineering (IFIN-HH) and financed from European Regional Development Funds, as well as the state budgets of Romania and Bulgaria, was signed. For more details, visit the project's page www.emersys.eu.

4. At the beginning of March, 2014 the first-draft design of the joint Data and Information Exchange Platform (DIEX) for CBRN emergencies - outstanding as one of the core objectives of the project - was finalized in IFIN-HH. This phase included: (i) conceptualizing from the IT perspective the DIEX terms of reference, in accordance to EMERSYS objectives and the organization chart and information flow procedures enforced at the emergency inspectorate levels; (ii) the architectural and operational software design; (iii) aspects concerning computer security data, applications and communication channels; (iv) identification, selection and testing of different software solutions available for the effective development of the platform. The chosen solutions lead to the design of a flexible system that will be open to customization with a minimum effort, when the hardware and software equipment provided under the project will become available. The use, to the extent possible, of the existing hardware and software infrastructure already available with the emergency units was also considered. From the operational standpoint, DIEX may be seen as having a horizontal component (that will ease communication between regional inspectorates - for instance between the field teams and the IT team for the prediction of the evolution of emergency situations) and a vertical component (both communication between regional and national inspectorates and bilateral communication at the level of general inspectorates). Please note that, in order to avoid confusion, the entire inter-departmental communication shall be done vertically. All regional inspectorates shall have access to data, once sent "vertically".



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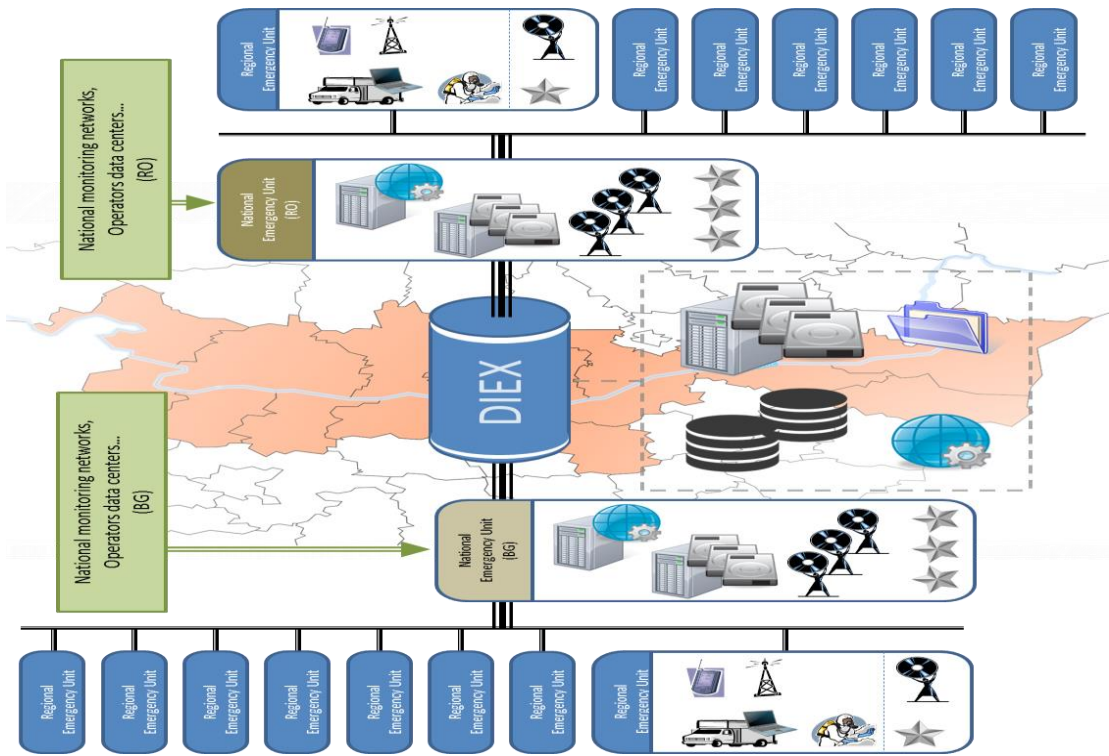
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It is provided that, during the actual implementation, DİEX will accommodate: data and information related to the event (classification, description and performance), information on actions / countermeasures taken or on-going, situation reports and actual measurements (from the field teams and/or national monitoring networks), relevant data for software simulation teams, simulation results. The spatial and temporal localization of data and information was also taken into account, thus facilitating the post-event analysis of the intervention capacity and identification of possible new requests or improvement of procedures and/or equipment.



Overview of DİEX Platform in the overall context of the EMERSYS Project

Project title:
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