

Program	Program NUCLEU PN 09 13 04 10
Project title (ENG):	Decision model based on the algorithm Analytical Hierarchy Process and the indicators types stated in ISO 14031:2013 and EMAS III for managing the environmental risk within the environmental management systems.
Project title (RO):	Model de decizie bazat pe algoritmul Analytical Hierarchy Process si tipurile de indicatori prevazuti de ISO 14031:2013 si EMAS III pentru gestionarea riscurilor de mediu in cadrul sistemelor de management de mediu.
Duration	2015
Team Leader	Senior Research Eng. Georgeta Madalina Arama
Summary (short description) ENG	<p>The project created a decision model based on the algorithm Analytical Hierarchy Process and use of type of indicators stated in ISO 14031:2013 and EMAS III for managing the environmental risk within environmental management systems.</p> <p>This new environmental decision instrument uses “ the principle of pair comparison” algorithm named AHP – agreed, accepted and used also in other areas than that of the environmental risk/environmental management – method that defines and <i>structure</i> hierarchical of the problem considering objectives/criteria/sub-criteria and the used procedure. It represents a decision support that can be automated and can be applied at the level of any type of organization.</p>
Summary (short description) RO	<p>Proiectul a condus la crearea unui model de decizie bazat pe algoritmul Analitical Hierarchy Process si folosirea tipului de indicatori prevazuti de ISO 14031:2013 si EMAS III pentru gestionarea riscurilor de mediu in cadrul sistemelor de management de mediu. Acest nou instrument de decizie de mediu foloseste „principiul comparatiilor pereche” algoritmul numit AHP - agreat, acceptat si folosit si in alte domenii decat cel al managementului de mediu/riscului de mediu – metoda de definire si structurare ierarhica a problemei considerand obiective/criterii/subcriterii si proceduri de utilizare. El reprezinta un suport de decizie ce poate fi automatizat si poate fi aplicat la nivelul oricarui tip de organizatie.</p>
Dissemination of results	
Conferences (platform, poster, abstract / full-paper	G.M. Arama, L.F. Pascu, D. Guta “ <i>Decision model based on Analytical Hierarchy process for managing the environmental risks within the Environmental Management Systems</i> ”, International Symposium “The Environment and The Industry” SIMI 2015 Bucharest 2015 October 29-30, p.118-123, ISSN-L1843-5831.