



RISK ASSESSMENT AND MANAGEMENT - TOOLS FOR SUSTAINABLE DEVELOPMENT

Maria Gavrilescu

*"Gh. Asachi" Technical University of Iasi, Department of Environmental Engineering
Mangeron Street 71A, 6600, Iasi, Romania, e-mail: mgav@ch.tuiasi.ro*

Abstract

The environment is a complex set of relationships and interactions between organizations and other elements. Managing risk come from within and acts to change the organization and its responses to changes in the environment.

The necessary practice to develop and implement the sustainable development indicators imposes actions such as planning; managers anticipate the inherent risks in their activity and setup methods to mitigate and control the effects of these risks. This paper focuses on some aspects regarding risk assessment and management as an integral system viewed as a part of good management practices and sustainable development. Risk assessment and management are described as continuous processes that encompass steps, which identify hazards and risks, analyze risk and its impact and prioritize it. Also, it is argued that this complex process develops and implements risk mitigation or acceptance policies, ensures that risk information is communicated to all parts involved in risk-based decision making, in management of environmental problems and risk management planning and control. These will lead to a risk management system able to provide the tools to determine the probability of an event occurrence, the impact on the program and the cost of preventing measures. This way, it is highlighted that understanding risk and the practice of risk management is a central issue of management for today and tomorrow.

Keywords: hazard, environment, risk analysis, risk assessment, sustainability
