

# REȚELELE URBANE DE CANALIZARE ȘI PARADIGMA MULTICRITERIALĂ DE LUARE A DECIZIEI

## URBAN SEWERAGE NETWORKS AND THE MULTIPLE CRITERIA DECISION-MAKING PARADIGM

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**Abstract:** One of the most difficult task in urban wastewater world is the proper selection of the sewerage pipe material. It is a typical decision-making situation when multi-criteria analysis is recommended. The multiple criteria paradigm is seductive and promising, but may be nevertheless challenging. The paper describes how to apply a particular method of multi-criteria analysis for choosing the „best” sewerage pipe material, using a software tool developed in our Building Services Engineering Department. In this case, the ELECTRE 1 method, rather than providing a clear undisputable „winner”, is giving instead a good opportunity to examine in detail the most common types of sewer pipe materials used nowadays in municipal networks, pointing out their strengths and weaknesses.

**Keywords:** sewerage, pipe material, multi-criteria analysis, ELECTRE, decision.