The Danish rail net operator, Rail Net Denmark, has through the past years built up an Asset Management system, containing a certain percentile of all the company’s assets. This paper contains an elaborate overview on how to strengthen the system seen from a decision-support perspective. The focus is to apply a modified project ranking methodology: Asset Management System Priority Module (AMS-PM), which is a practical tool for assessing and ranking various project proposals in a straightforward manner. The methodology is set-out by a multi-criteria approach where weights are applied ultimately resulting in priority indices for the state-of-repair data. This paper is disposed as follows; firstly, a description of the Asset Management system is set-up including an overview of the state-of-repair data and the case study. Secondly, is the AMS-PM software model implemented through an exploratory case study and finally conclusions and a perspective are given.