A Dynamic Model for Multi-Criteria Resource Allocation at the Finnish Road Administration

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Abstract: Resource allocation decisions in road management have far-reaching impacts on asset values and future service levels. We present an award-winning decision model to help senior managers at the Finnish Road Administration allocate limited appropriations among different kinds of road products. The model gives budget ranges for each product for a 30-year period, based on annual deterioration of asset values, use of incomplete preference information, and computation of optimal maintenance portfolios.

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