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Temporal scale efficiency in DEA panel data estimations. An application to the solid waste disposal service in Spain

DIEGO PRIOR , Gemma Perez-Lopez , Jose L. Zafra-Gomez

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HIGHLIGHTS

- We propose new method for calculating time-invariant and time-variant scale inefficiency using DEA panel data
- This approach that allows us to analyse the evolution of scale inefficiency over a period of time
- The proposed methodology is applied to the waste collection service to determine which form of management maximises returns to scale

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