
Technical Paper**Conversion of Matrices Between Two Entirely Different Zone Systems Employing Emme/2**

5 June 1998

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1. Introduction

A situation may arise where matrix data from one zone system needs to be converted into an entirely different zone system. For example, matrices developed for a Ward-based zone system may need to be transferred into a traffic-zone structure. The method for converting matrices between the different zone systems is complicated where no common zone boundaries exist. In this situation, aggregations and disaggregations are not clean; one zone of the 'parent' zone system may straddle over several zones in the required zone system.

This paper will demonstrate, by simplified example, a method for converting matrices between two entirely different zone systems, where no common zone boundaries exist. The paper contextualises this process by considering two zone systems of the same study area:

- a 5x5 'PARENT' zone system (which contains the matrix data to be converted), and
- a 3x3 'TARGET' zone system, (which is the zone system required).

Section 2 of this paper outlines the methodology for more common matrix conversions:

- from a detailed zone system to an aggregate zone system, and
- from an aggregate zone system to a detailed zone system.

The paper continues, in Section 3, to explain the theoretical process behind the conversion of matrices between zone systems where no common boundaries exist. Section 4 then outlines the procedure for undertaking this process within Emme/2.