MODELLING THE DEMOGRAPHIC IMPACT OF A NEW FACTORY

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The paper developes a Dynamic Model of the Demographic evolution of a non industrialized area, where a big and important factory is built to industrialize the zone. The time horizon is the year 2 000. The dynamic model has one hundred twenty five variables which represents a very disaggregated model of its kind. The model studies different classes of population (ages, sex, jobs, ...) and projects them, and their interplations, for the period. The modelling methodollogy used has been the Forrester systems dynamics. The model has been actualy applied to forecast the demographic evolution as a small town in the Spanish mediterranean coast where a big metallurgical works is now going to be built.