

EconWorld2019@Seville

Organized Industrial Zones Efficiency Evaluation Considering Economic Factors

Mehtap Dursun¹, Nazli Goker¹¹Galatasaray University, Turkey

ABSTRACT

Organized industrial zones (OIZs) object to orient private sector investments to specific regions to augment existing investment incentives. They began to be established and supported by the Turkish government since 1960s and actually, there are one or more OIZs in all cities of Turkey (except Artvin). The average occupancy rate (Number of Assigned Parcels/Number of Parcels) of the Turkey's OIZs is 68% and cannot be said to be a high rate. On the other hand, the rate of parcels in production (Number of Parcels in Production/Number of Parcels) is lower and only 43%. Considering these ratios, it is an issue to be questioned whether the OIZs reach the desired level of activity. In this study, the efficiencies of OIZs located in the Aegean Region of Turkey is evaluated considering economic factors such as "employment", "net sales (TL)", "research and development expenditures (\$)", and "export volume (\$)". The evaluation is conducted employing a data envelopment analysis (DEA) based common weight decision model, which is a powerful method to measure the relative efficiencies of decision making units.

KEYWORDS Data Envelopment Analysis; Decision support systems; Economic factors; Organized industrial zones; Performance evaluation

JEL C6