

Application of Innovative Techniques in Multi Purpose Land Development

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ABSTRACT

The Netherlands is a densely populated country with an ever-increasing urbanisation. That is why it is important to preserve the natural values of the remaining rural area and at the same time create recreational areas for the urban population and regional and national infrastructure.

The Dutch government is able to create a multipurpose rural area by applying an active land development program. The Land Consolidation Act is the legal basis of this program. All kinds of problems in the rural area can be solved by land consolidation. Recent examples are the reallocation in a rural area because of a new high speed railroad, the reorganisation of farms as a result of farming diseases like BSE and foot and claw disease and the allocation of water basins to prevent floodings.

A special division of the Dutch Cadastre takes part in land consolidation projects, mainly by designing reallocation plans. Such a plan must contribute to the realisation of the public goals in a project like railroad construction etcetera. Within these public constraints the reallocation plan must lead to a fair distribution of parcels among the private land users.

The Dutch Cadastre uses flexible instruments for the land consolidation activities, such as the MapInfo GIS and the GIS related allocation design software Transfer. The application of modern techniques has led to a great improvement in efficiency, but also to a more objective design process.

The Dutch experience will hopefully be an inspiration for others in allocation design.

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