

ptv vision

PTV Vision – Tutorial
VISUM Basic Network



traffic mobility logistics.

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About this Tutorial

The present module is part of the tutorial on the PTV Vision product family by PTV AG. It is designed to facilitate the handling of these products for you – the users – explaining step by step the common proceeding concerning frequent demands of project work.

The tutorial unfolds its full usefulness together with your version-specific manual. In the tutorial you learn which decisions to make and which steps to take. The users manual provides you with information how to take the steps with the program version available.

The text is accompanied by an example referred to at specially indicated points by means of which we explain the proceeding. To enable you to follow the steps shown, this example, including other required data, has been stored in its various processing stages on the CD enclosed with the module. At the end of the main text you will find a list of all included data with reference to the text.

You may work through the tutorial using the data on the CD. If you want to make modifications and carry out the tutorial examples, we recommend making a copy of the complete CD contents in a directory on your computer. If you work with VISUM, first set the project directories on the enclosed folders entitled VISUM_NETWORKS for version files and ADDITIONAL_DATA for all other file types. The version files can be opened with VISUM version 9.33 and higher.

The editorial staff of the PTV Vision tutorials hope that you enjoy an interesting and instructive read!



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1.2 Network Detail and Hierarchy

The area modeled by the network model can be subdivided into three different parts:

- ▶ The **planning area** comprises the portion of the network in which the measures have to be analyzed.
- ▶ The **study area** comprises the portion of the network for which impacts of the measures have to be considered.
- ▶ The **outside area** comprises the interactions of the study area with the “rest of the world.”

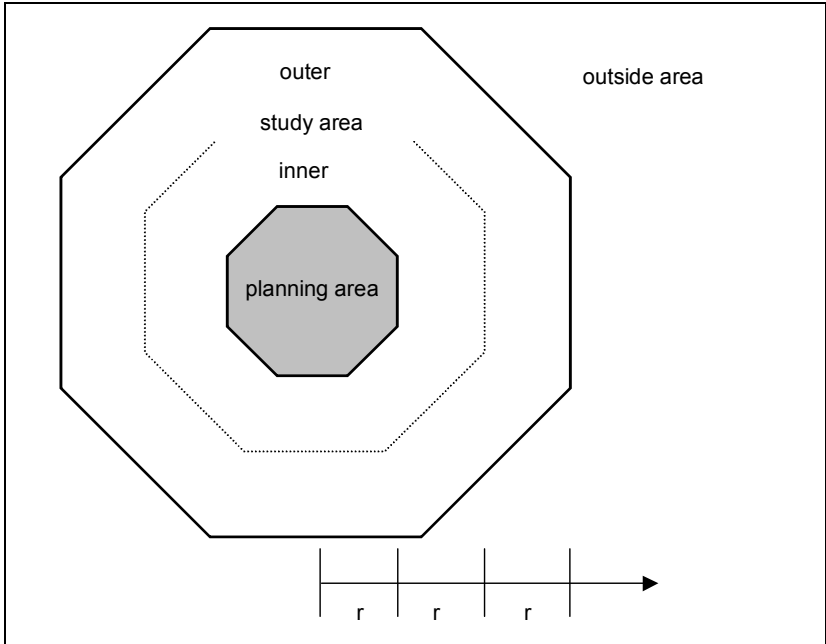


Figure 2: Planning area, study area, outside area

Based on this breakdown, approximately the same degree of detail (size of zones, road categories represented) should be defined within the study area. For the outer study area a lesser degree of detail may be sufficient. In the outside area, the network model only includes important major roads. The traffic zones are no longer area-covering, but represent cordon (external) zones, central places or even complete regions.

A traffic model designed to show the impacts of a measure on transport demand within a planning area requires a study area whose radius is approximately two or three times that of the planning area. For practical purposes study areas are orientated at the boundaries of districts or other administrative units.