

# Digital Data Streets

The digital data street network Digital Data Streets (DDStreets) is based on the navigation databases of NAVTEQ or TomTom (formerly Tele Atlas); these are used in the leading navigation systems. DDStreets is suitable for routing but also for location planning. Digital Data Streets is available for Europe.

## Digital Data Streets – the all-round street network

In general the highly-precise databases of the Digital Data Streets are supplied on the basis of NAVTEQ. These databases are acquired on the basis of scale 1:2,000 to 1:25,000 maps and are completed through extensive field surveys. Thus a position accuracy of 5-10 m in urban areas and up to 25 m in the interurban area is achieved. If desired DDStreets can also be supplied on the basis of the TomTom (formerly Tele Atlas) data.

## Application areas

Overall the implementation possibilities for Digital Data Streets are extremely varied. In the GIS specification the data in geographic information systems is used for location planning and expansion as well as for planning of outdoor advertising and distribution of promotional literature. In addition individual raster maps on the basis of DDStreets are used successfully in many applications. For example this data can be used as a background map on the Internet or be printed out.

In the ROUTE specification the data is used by logistics companies and emergency response centers to professionalize routing, tracking and fleet management.

## Interurban and detail network

For GIS and ROUTE there is a distinction between two different levels of accuracy: The interurban network and the detail network.

The interurban network of the GIS specification includes all free-ways, highways, state highways, and regional roads as well as the main traffic streets within a place. In addition, in the ROUTE specification the streets are also

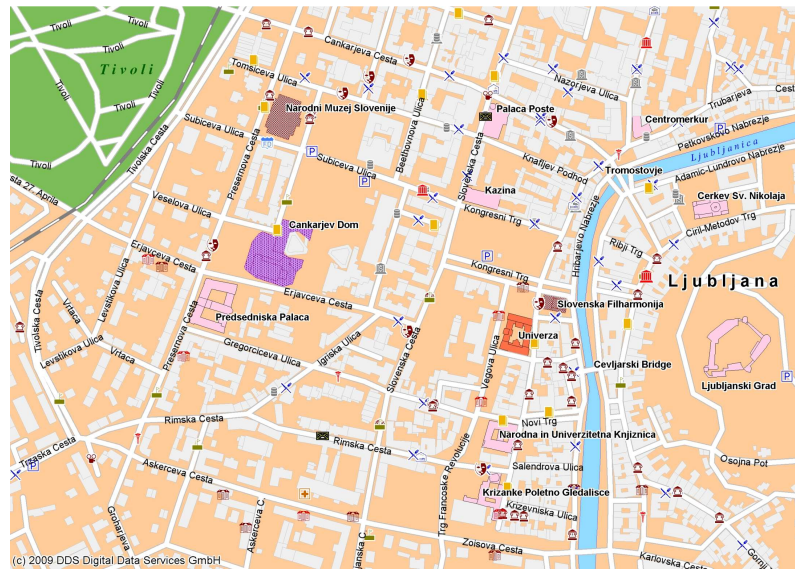


Fig. 1: Digital Data Streets - Ljubljana is the example

delivered with all routing relationships. Both specifications are supplemented with a gazeteer, populated areas and railway lines.

The corresponding part of the interurban network is always included in the detail networks. The detail networks contain approx 97% of all navigable streets and paths. In addition street index, place points, settled areas and railroad lines are also included. The GIS specification contains additional topographical layers such as bodies of water, public parks and green areas as well as numerous points of interest (POI). The ROUTE specification also includes the navigational relationships with all particulars for the detail network. The detail network is available for for at least 20 other European countries. These include all Western European countries such as the Czech Republic, Slovakia, Hungary, Slovenia and Poland. For the other countries the interurban network is full-coverage

and the detail network is captured in the urban centers.

## GIS specification

- Street network with street name, street category, character style, pedestrian areas
- Street index, place points
- Topographical layer: Populated areas, railways, airports, ferry lines, parking, industrial areas, bodies of water, green areas, public parks etc.
- Points of interest (POI): Railway stations, hotels, shopping centers, gas stations, restaurants etc.

## ROUTE specification

- See GIS, in addition street type, nodes and length, one-way streets, turning restrictions
- Street index, place points
- Topographical layer: Populated areas and railways

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- Temporally limited road blocks and roundabouts are available for an additional charge.

## House number ranges

The house number ranges (HNB=German abbreviation for Hausnummernbereiche) are available for the GIS and ROUTE specifications. In Germany virtually all municipalities are avai-

lable to the house number range number level.

## Available formats

Digital Data Streets is available in the formats MapInfo TAB, MIF/MID and ESRI Shapefile. Other formats are available on request.

## Update intervals

One to two updates a year can be delivered.

## Prices

Contact us for prices and more extensive information.