

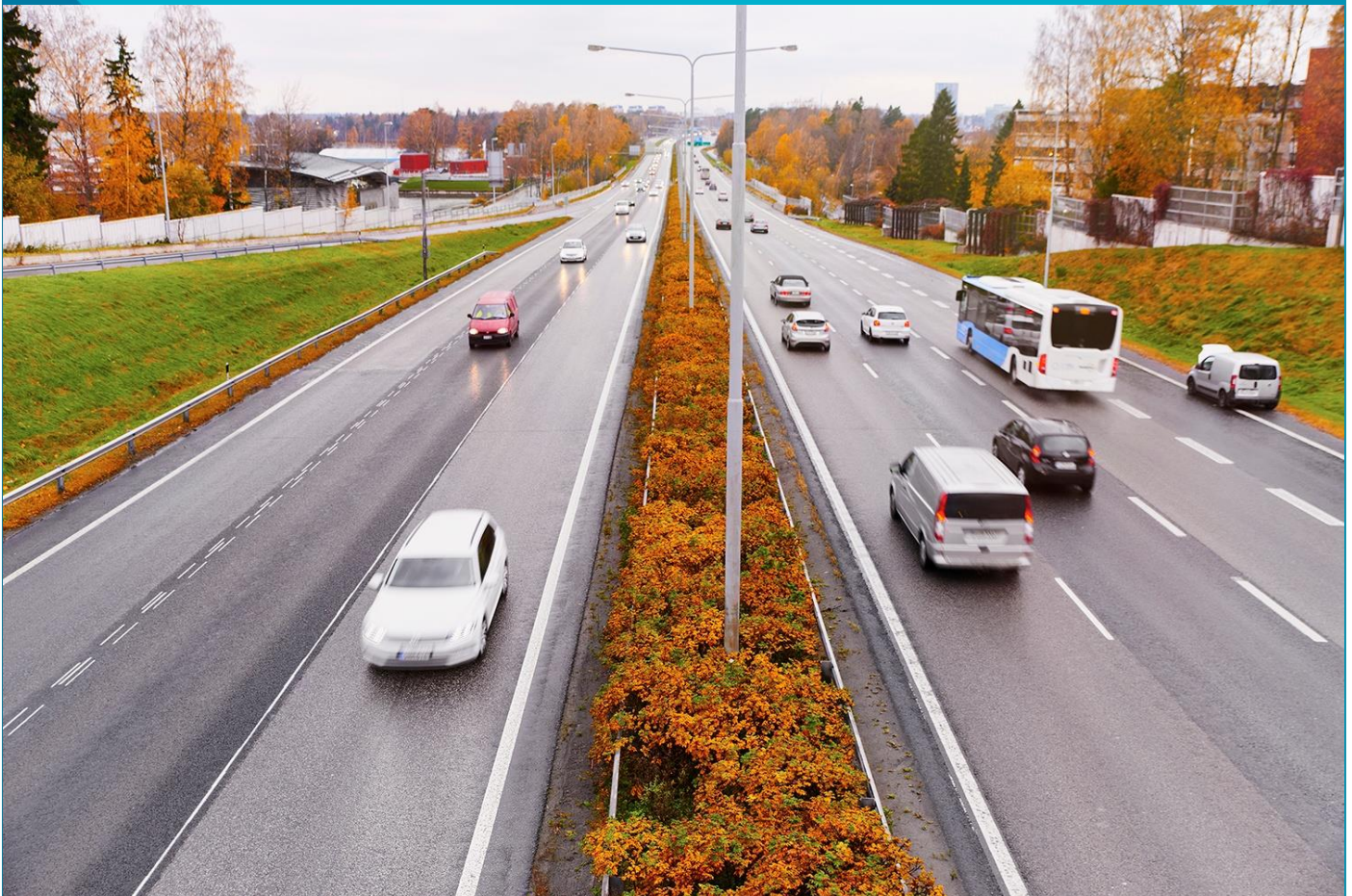


Väylävirasto  
Trafikledsverket

*Finnish Transport Infrastructure Agency  
Publications*

# Digiroad

*Covering letter  
4/2021  
September 2021*



*Picture: Digiroad*  
*E-publication(pdf) ([www.vayla.fi/digiroad](http://www.vayla.fi/digiroad))*

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## Digiroad Data Publication 4/2021

The Digiroad Publication 4/2021 includes road link geometry obtained from the National Land Survey Topographic Database in September 15<sup>th</sup> 2021.

- **Non-geometric traffic signs, traffic lights, obstacle structures, guardrails, level crossings** have been attached back to the geometry and are now back in Digiroad. With regard to traffic signs, the work focused on roads and private road network.
- **Railway level crossings** have been updated using the Finnish Transport Infrastructure Agency's level crossing service.
- **Obstacle structures** have been updated using the obstacle structures in the Topographic database.
- **European road numbers** have been updated.
- **Road turn restrictions** have been updated based on no-turn traffic signs.
- For the **road network**, the data type data correspond to the situation in July 2021 for the following data types: mass, height and width restrictions, illuminated road, paved road, road width and crossings.
- For the **street network**, the data types correspond to the situation in september 2021.
- The field names and data types in the **Turn Restriction** Restriction\_Link table have been updated to match the description of the data types.
- **Detachment areas** have been updated to reflect current provinces.

## Published data objects

The Digiroad publication 4/2021 includes the following data objects

- *Vehicle-specific restriction*
- *barrier structure*
- *European road number*
- *treatment class*
- *public transport lane*
- *public transport stop*
- *cirrhosis*
- *turn restriction*
- *Width*
- *traffic sign*
- *traffic volume*
- *traffic light*
- *subscription number*
- *speed limit*
- *information board*
- *parking ban*
- *paved road*
- *level crossing*
- *protective road*
- *Maximum allowed restrictions*
- *winter speed limit*

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- road link
- road work
- Transport of Dangerous Goods (VAK) restriction
- illuminated roads
- Service
  - Culvert
  - Customs
  - Frontier crossing
  - Rest area
  - Airport
  - Ferry terminal
  - Taxi stand
  - Bus station
  - Railway station
  - Parking area
  - Car shipping terminal
  - Coach or lorry parking
  - Parking building

## Data Structure

The datasets are delivered in zip-files including:

- All data, excluding public transport bus stops, are divided according to the extraction areas in Esri shape files.
- Public transport bus stops, covering the whole area of Finland in a single Esri shape file.
- Data in GeoPackage format.

The coordinate system is ETRS-TM35FIN (EPSG: 3067).

All the directions of digitizing in the road links have been unified according to the cardinal directions. The starting point of a road link is always the southern end point of the link. However, the starting point of a link in the fully East-West direction is the western endpoint. Due to the unification of the directions of digitizing, the first house number on the right and left side may be larger than the final house number on the right and left side.

Furthermore, changes in speed limits and maximum allowed restrictions are available via TN-ITS API. More information on TN-ITS is available at the Digiroad website.

This publication does not include separate quality reports.

## Road Link Data

The geometry is obtained from the National Land Survey of Finland with a time stamp of June 9th 2021.

The link ID (LINK\_ID) by the Finnish Transport Infrastructure Agency will be used as a unique road link ID. The MML-ID will continue to be published as part of the attribute data of the road links.

The Road link is the linear reference for dynamic segmentation.

The road links include the following attribute data:

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- Data source
- Functional class
- Direction of traffic flow
- Road link type
- Administrative class
- Bridge, Underpass or Tunnel
- Location and elevation precision
- Start/End M value
- Road name in Finnish
- Road name in Swedish
- Road name in Sami
- First and last house number on right and left
- Municipal number
- Road number and a number of the part of a road (based on road address network by FTIA)
- Carriageway number (based on road address network by FTIA)
- Start and end distance from the beginning of the road part (based on road address network by FTIA)
- Link ID
- MML-ID
- Last modified timestamp
- Direction of digitization in relation to the data provided by the National Land Survey
- Link status

Road classification from the Topographic database (slightly different from Digiroad's own classification in which some of the Topographic database classes have been combined).

Tracks (by the National Land Survey) is included in the new geometry. The functional class of the track and the road link type are both marked as "track" (= "polku" in Finnish).

## **Digiroad R ja Digiroad K**

The differences between various data types are described in the Description of Data Objects document chapter 3.5. Description of Data Objects document is attached in the data publication.

## **Next publication**

The estimated timetable for the next Digiroad publication is in the November of 2021.

## **Questions? We are happy to help!**

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