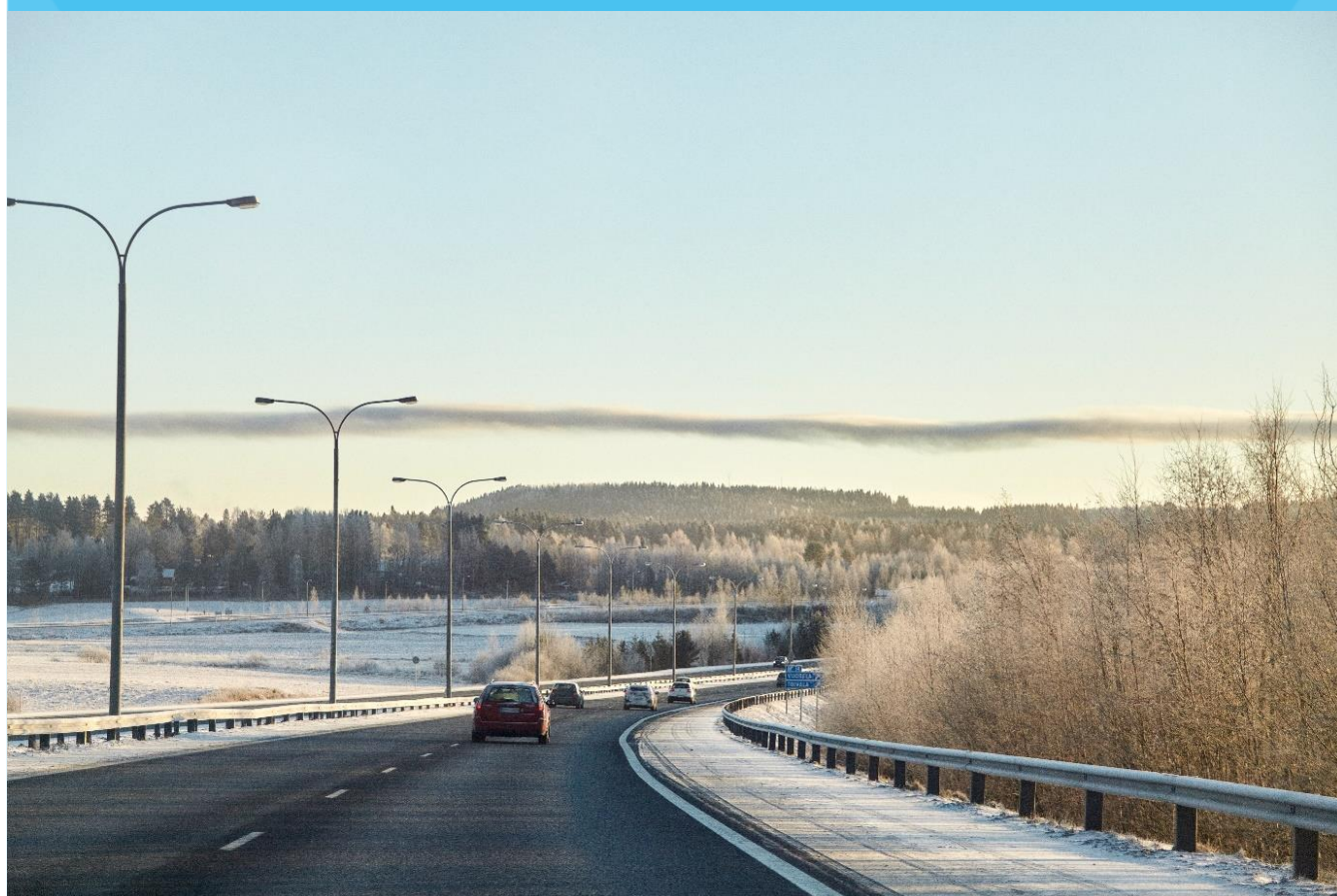




Väylävirasto

Digiroad

*Covering letter 1/2021
January 2021*



Digiroad Data Publication 1/2021

The Digiroad Publication 1/2021 includes road link geometry obtained from the National Land Survey Topographic Database in January 27th 2021.

- The road network includes construction projects taken into service at the end of 2020, such as the bypass lanes between Kuivaniemi – Simo and Viantienjoki – Maksniemi for the Valtatie 4 Oulu-Kemi improvement project and the improvement between Kello-Räinänperä.
- The road network has taken into account the merger of the city of Kankaanpää and the municipality of Honkajoki
- Concerning data objects of the road network: the data parallels the situation as it was in August 2020.
- Lane data: parallels the situation as it was in January 2021.
- In the description of the data document, the term walking and cycling lane has been used instead of light traffic lane.
- The Description of data document has been updated with the description of the traffic sign.
- The detachment areas have been updated when Kuhmoinen has moved to Pirkanmaa province and Iitti has moved to Päijät-Häme province. Removal Areas_and_Counties.xlsx (rrotusalueet_ja_kunnat.xlsx) file has been updated

Published data objects

The Digiroad publication 1/2021 includes the following data objects

- Road link
- Manoeuvre
- Public transport stop
- Traffic light
- Pedestrian crossing
- Traffic Sign
- Directional traffic sign
- Railway level crossing
- Barrier
- Speed limit
- Maximum allowed -restrictions
- Road work
- Road treatment class
- Parking restriction

- *Lit road*
- *Paved road*
- *Traffic volume*
- *Road affected by thawing*
- *Width*
- *Vehicle specific restriction*
- *Vehicle with hazardous load (VAK)*
- *Bus lane*
- *E-road number*
- *Exit number*
- *Speed limit during winter*
- *Forest road turnaround point (pilot phase)*
- *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 October 28th 2020.

The link ID (LINK_ID) by the Finnish Transport 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:

- 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 FTA)
- Carriageway number (based on road address network by FTA)
- Start and end distance from the beginning of the road part (based on road address network by FTA)
- Link ID
- MML-ID
- Last modified timestamp
- Direction of digitization in relation to the data provided by the National Land Survey
- Link status
- Data source
- 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 and 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 winter of 2021.

Questions? We are happy to help!

Digiroad Operator
info@digiroad.fi
Tel: +358 40 507 2301 (9 a.m. to 4 p.m.)
vayla.fi/digiroad