Swedish National Road Database (NVDB) and TN-ITS

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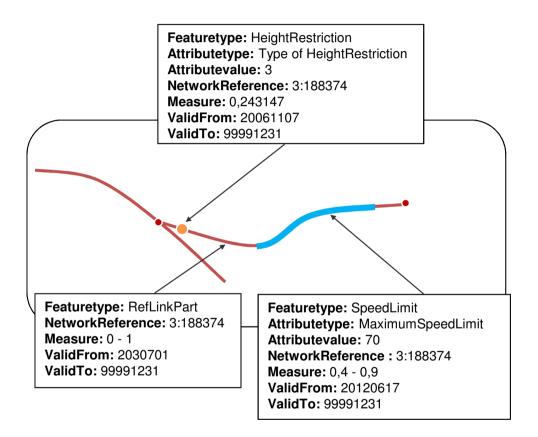
April 2016





NVDB road network and feature concept





Road network

Geometry and topology

Road features

Properties (e.g. Speed limit) for a section of road or physical objects connected to the road (e.g. road barrier)

Connection

Specifies where, on the road network, a feature is connected through linear referencing

Time

Specifies validity in time for network parts and features



NVDB – road transport network

Car network

mandatory

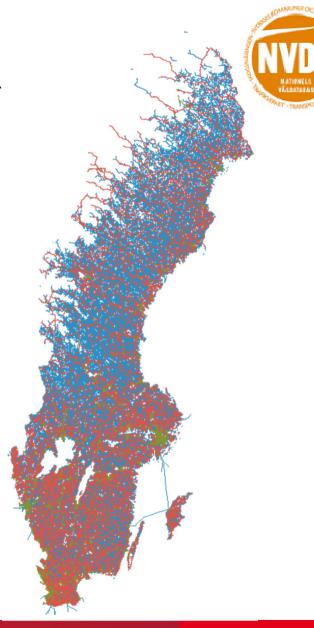
Bicycle network

mandatory from May 2015

Walk network

- voluntarily from 2015

Road authority networktype	CILL	Municipal	Private	Total length
Car	98 550 km	42 235 km	460 058 km	600 843 km
Bicycle	2 503 km	16 416 km	899 km	19 818 km
Walk	3 km	686 km	88 km	777 km
Total length	101 056 km	59 337 km	461 045 km	621 438 km
Total percent	16%	10%	74%	





NVDB data content



Road reference network

Road feature data

- Traffic regulations
- Administrative information
- Technical information
- Special information for forest roads











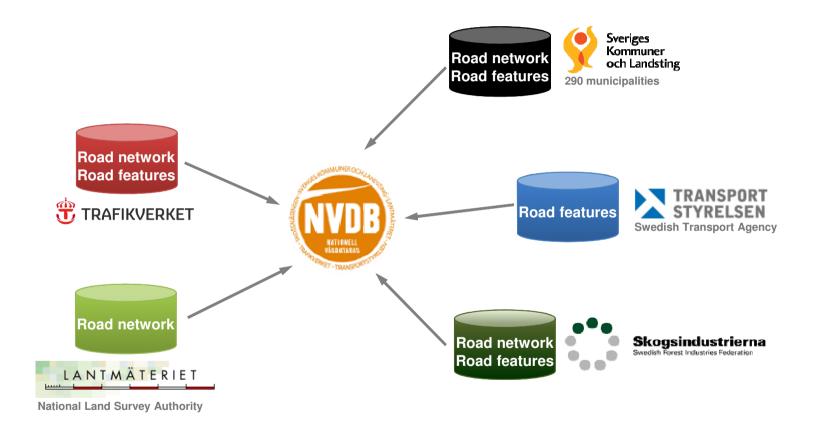








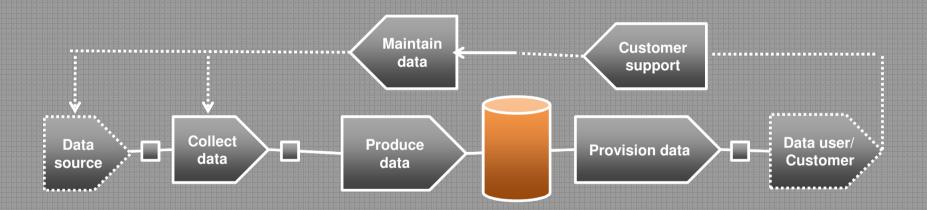
NVDB Data Collection





Process for quality assured provision of data



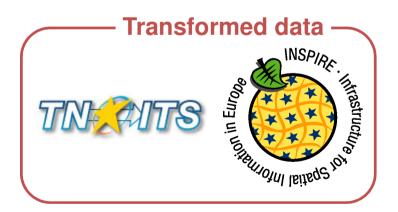


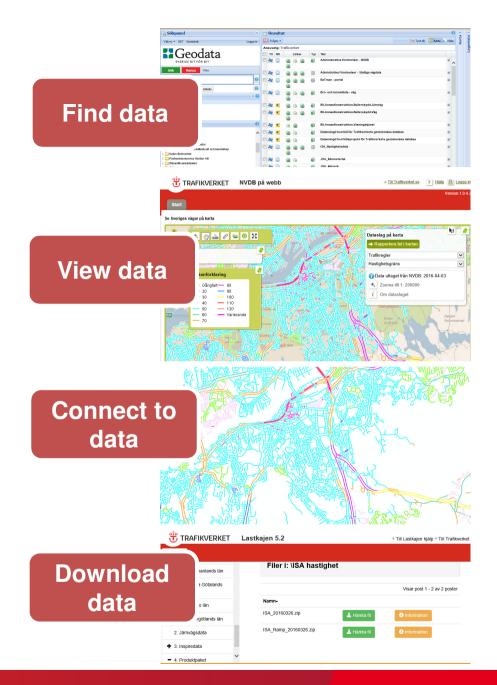
ISO 9001 Certification



Access to NVDB



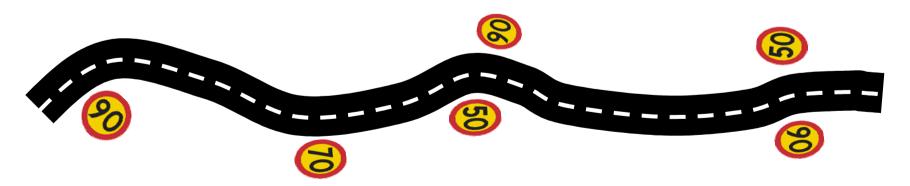






Intelligent Speed Assistance - ISA

- ISA is an in-vehicle system that supports drivers' compliance with the speed limit.
- The ISA system uses information on the position of the vehicle in a network in relation to the speed limit in force at that particular location.
- NVDB can provide ISA systems with valid speed limits through the Swedish ISA file.



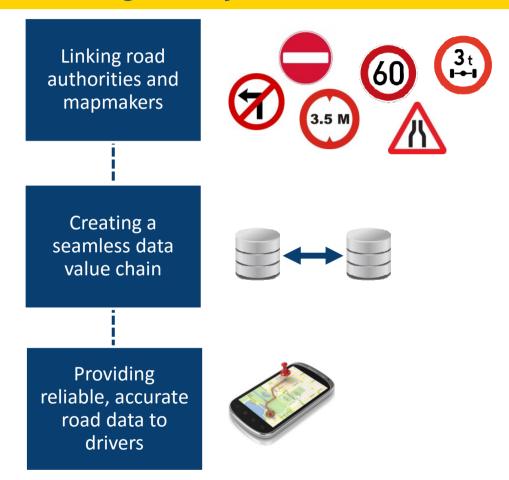








TN-ITS helps road users get fresh map data from the road operators to the vehicle's navigation systems









Standardisation

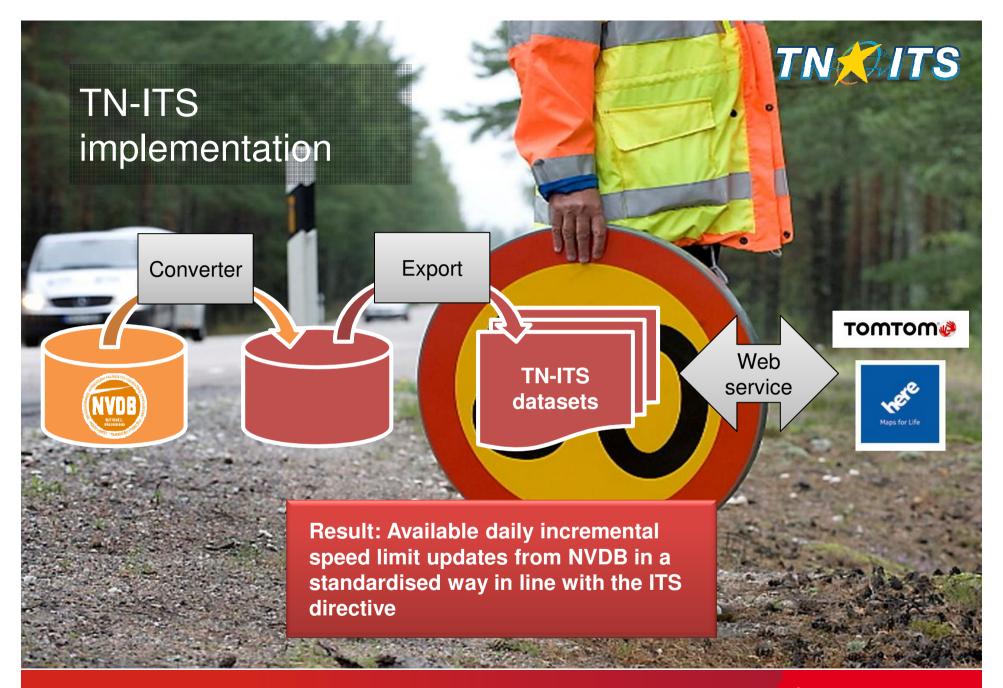
Define & maintain TN-ITS specifications in CEN/TC 278 WG7



Implementation

Provide guidelines, tools and services to support implementation in Belgium, Finland, France, Ireland, Norway, Sweden, and United Kingdom.







The transportation pilot



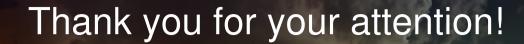












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