Cycling infrastructure data – what do we want to know

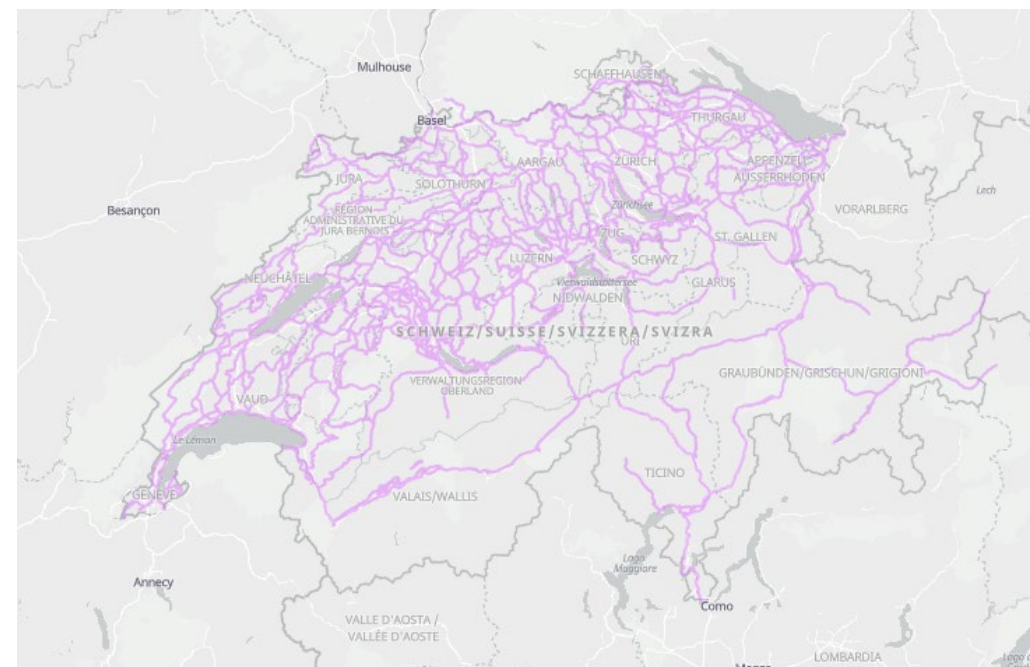WP.6, 75th session

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What do we want to know about the cycling infrastructure

for international networks

for national/regional networks

for urban networks

Some background

Cyclists and their needs

User category/volume	Up to 750 cyclists/day	500 – 3000 cyclists/day	More than 2000 cyclists/day
Regular	Basic cycle route (level 1)	Basic cycle route (level 1)	Main cycle route (level 2)
Occasional	Basic cycle route (level 1)	Main cycle route (level 2)	Cycle highway (level 3)
Demanding	Main cycle route (level 2)	Cycle highway (level 3)	Cycle highway (level 3)

Cyclists interaction with motorized traffic

|	Up to 30 km/h	31-50 km/h	51-65 km/h	70+ km/h
1-500 pcu/day	Mixed traffic (1, 2) Cycle street (2, 3)	Mixed traffic (1, 2) Cycle track (3)	Mixed traffic (1, 2) Cycle lane (2, 3) Cycle track (3)	Mixed traffic (1) Cycle lane (2) Cycle track (2, 3)
500-2000 pcu /day	Mixed traffic (1, 2) Cycle street (2, 3)	Mixed traffic (1) Cycle lane (2) Cycle track (3)	Mixed traffic (1) Cycle lane (1, 2) Cycle track (2, 3)	Mixed traffic (1) Cycle lane (1) Cycle track (1, 2, 3)
2000-4000 pcu/day	Mixed traffic (1, 2) Cycle lane (2) Cycle track (3)	Cycle lane (1, 2) Cycle track (2, 3)	Cycle lane (1, 2) Cycle track (2, 3)	Cycle lane (1) Cycle track (1, 2, 3)
4000-10000 pcu/day	Cycle lane (1, 2) Cycle track (1, 2, 3)	Cycle lane (1) Cycle track (2, 3)	Cycle lane (1) Cycle track (2, 3)	Cycle track
> 10000 pcu/day	Cycle lane (1) Cycle track (1, 2, 3)	Cycle track	Cycle track	Cycle track

Infrastructure parameters considering cyclists needs

Minimum width	Basic cycle route	Main cycle route	Cycle highway
One way cycle track	1.5 m	2.0 m	3.0 m
Two way cycle track	2.5 m (2.0 m?)	3.0 m	4.0 m
Cycle lane	1.5 m	2.0 m	2.25 m
One way cycle and pedestrian track	2.0 m	N/A	N/A
Two way cycle and pedestrian track	3.0 m	N/A	N/A
Cycle street	N/A	4.5 m	4.5 m

Some background

Agreed definitions (liner infrastructure)

- **Cycle track** (explanatory note for application of compulsory and non-compulsory cycle track)
- Cycle and pedestrian track
- Greenway
- **Cycle lane** (explanatory note on application of advisory and mandatory cycle lanes)
- Sharrows
- 2-1 road
- Mixed vehicle traffic
- Cycle street
- Street with contraflow cycling
- Bus-and-cycle lane
- Footpath with cycling allowed
- Specific service road
- Cycle route
- Cycle network
- Cycle highway
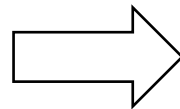
Agreed definitions (non-linear infrastructure)

- Cycle crossing
- Grade separate cycle crossing
- Advanced stop line
- Two-stage turn provision
- Cycle parking
- Traffic-light exemption for cyclists

Do we need to know all this?
    Possibly good to have (can be simplified)
        but
            data on the type of infrastructure is not sufficient

Type of infrastructure – what would be good to have?

Type of infrastructure

Infrastructure type	Infrastructure type (simplified)
Cycle track	Cycle track
Cycle and pedestrian track	On path shared with pedestrians
Footpath with cycling allowed	On path shared with pedestrians
Greenway	On path shared with pedestrians
Cycle lane	Cycle lane
Advisory cycle lane	Cycle lane
Bus-and-cycle lane	Bus-and-cycle lane
Cycle street	On road shared with vehicles (30km/h zone)
Street with contraflow cycling	On road shared with vehicles
Specific service road	On road shared with vehicles
Mixed traffic (other)	On road shared with vehicles

What else would be good to have?

exists? or only planned?

in either case what is the category?

User category/volume	Up to 750 cyclists/day	500 – 3000 cyclists/day	More than 2000 cyclists/day
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Demanding	Main cycle route (level 2)	Cycle highway (level 3)	Cycle highway (level 3)

surface type?

What else would be good to have?

Route category (planned)

Route category (target)	• cycle highway • main cycle route • basic cycle route Where Cycle highway is a route serving high volumes of cycle traffic and responding to the needs of the most demanding cyclists. Main cycle route is a route serving typically moderate cycle traffic volumes or high volumes for highly skilled cyclists only. At the same time is not responding fully to the needs of the most demanding cyclists. Basic cycle route is route advised for low cycle traffic volumes typically for use by highly skilled cyclists.

Route category (existing)

Route category (current)	Self-assessment of the current quality of infrastructure by the route administrator, with categories as below • cycle highway • main cycle route • basic cycle route • provisional itinerary – segment does not meet even basic cycle route requirements • public transport connection • planned itinerary – segment not physically rideable.

What else would be good to have?

Surface type

Type of surface	- asphalt/concrete - blocks/slabs - cobbles - stabilised gravel - gravel/dirt

Extended list of data type (for future consideration)

Data type
Route category (target)
Route category (current)
Infrastructure type
Infrastructure type (simplified)
Bidirectional
Width (typical)
Width (minimum) [4]
Surface (type) [3]
Surface (quality) [3]
Design speed
Minimum horizontal curve radii
Minimum stopping sight distance
Gradient (average)
Gradient (maximum)
Traffic volume
Traffic speed (V85) [3]
Traffic speed (posted limit) [3]
Speed cycles allowed
Wide carrier cycles allowed
Side-by-side cycling
Scenic route
EuroVelo route number(s)
EuroVelo signage
National signage
Notes