

04.06.2025

Bikeability

von der Bewertung einzelner Segmente
bis zu Routinganwendungen
für Alltagsradler:innen und Touristen

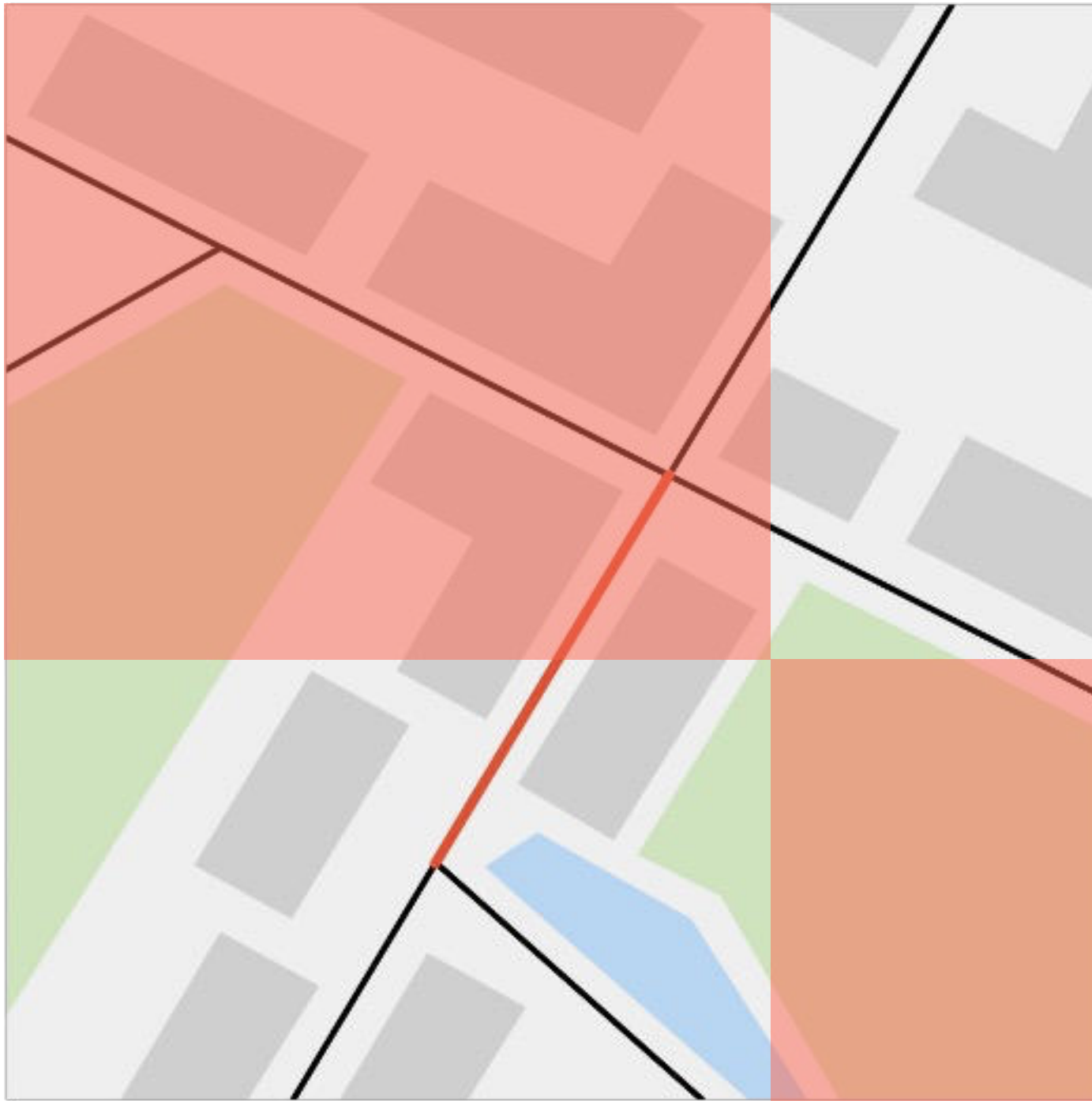
Robin Wendel

Mobility Lab, Fachbereich Geoinformatik
Paris Lodron Universität Salzburg





Verschiedene Definitionen für *Bikeability*



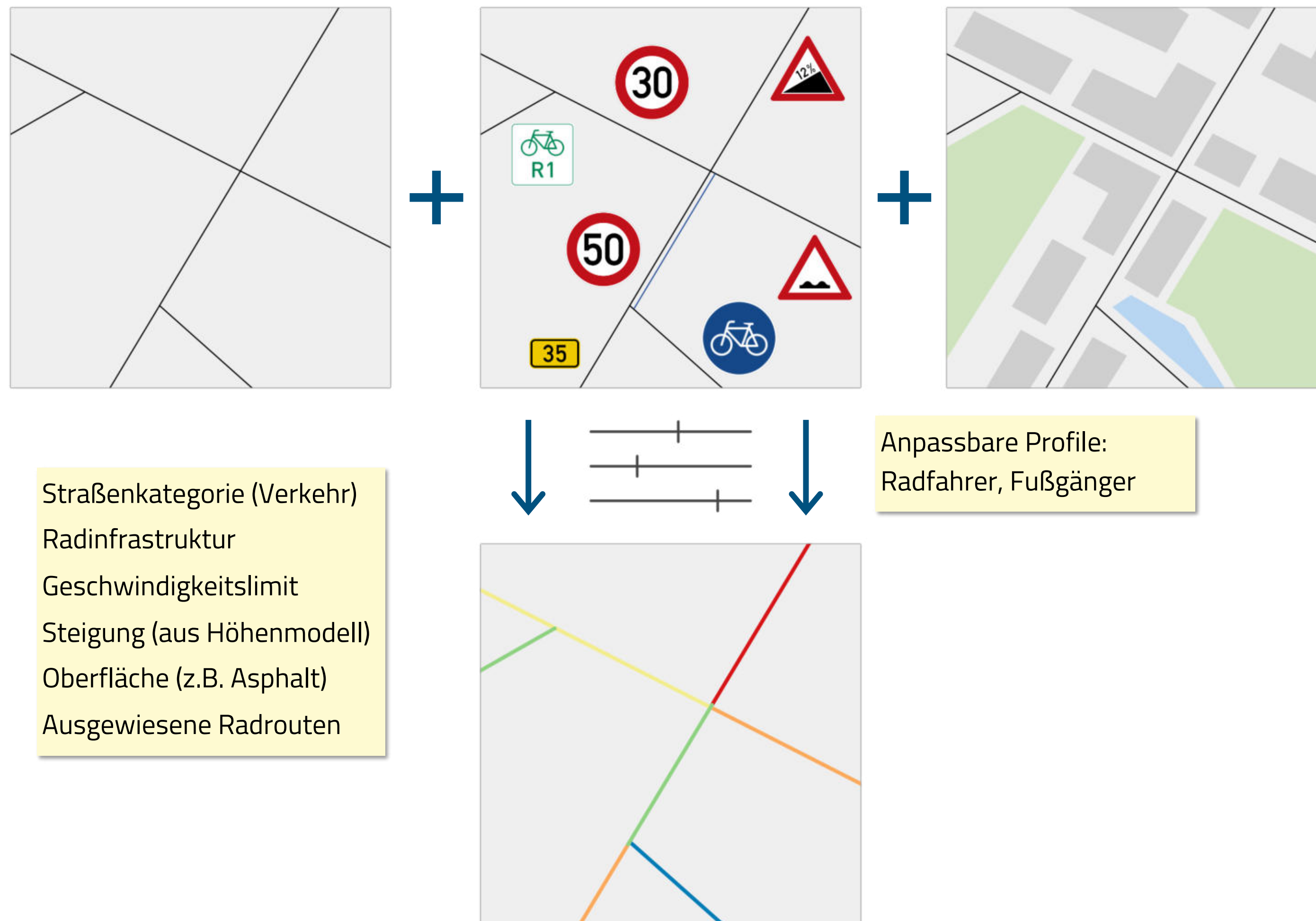
- Auf Ebene von Straßensegmenten <> je Gebiet (z.B. Stadtviertel, Gemeinde,...) bzw. Raster-Zelle
(z.B. [Arellana et al., 2020](#) <> [Wysling & Purves, 2022](#))
- Berücksichtigung von Radverkehrsnachfrage, Erreichbarkeit von Einrichtungen
(z.B. [Hardinghaus et al., 2021](#))
- Beschreibend (rasterbasiert): Infrastruktur und Umgebung (z.B. [Tijana et al., 2023](#))
- Messbare Aspekte <> individuelle Wahrnehmungen (z.B. [Porter et al., 2019](#) <> [z.B. Wesener et al., 2021](#))

Segmentbasierte Eignung



Bikeability / Walkability:
*Eignung von Wegsegmenten
für Rad- / Fußmobilität*

Bikeability basierend auf Open Data



- Grundlage: OpenStreetMap
- Fokus: Alltägliche Wege
- Anpassbar und erweiterbar



Environment

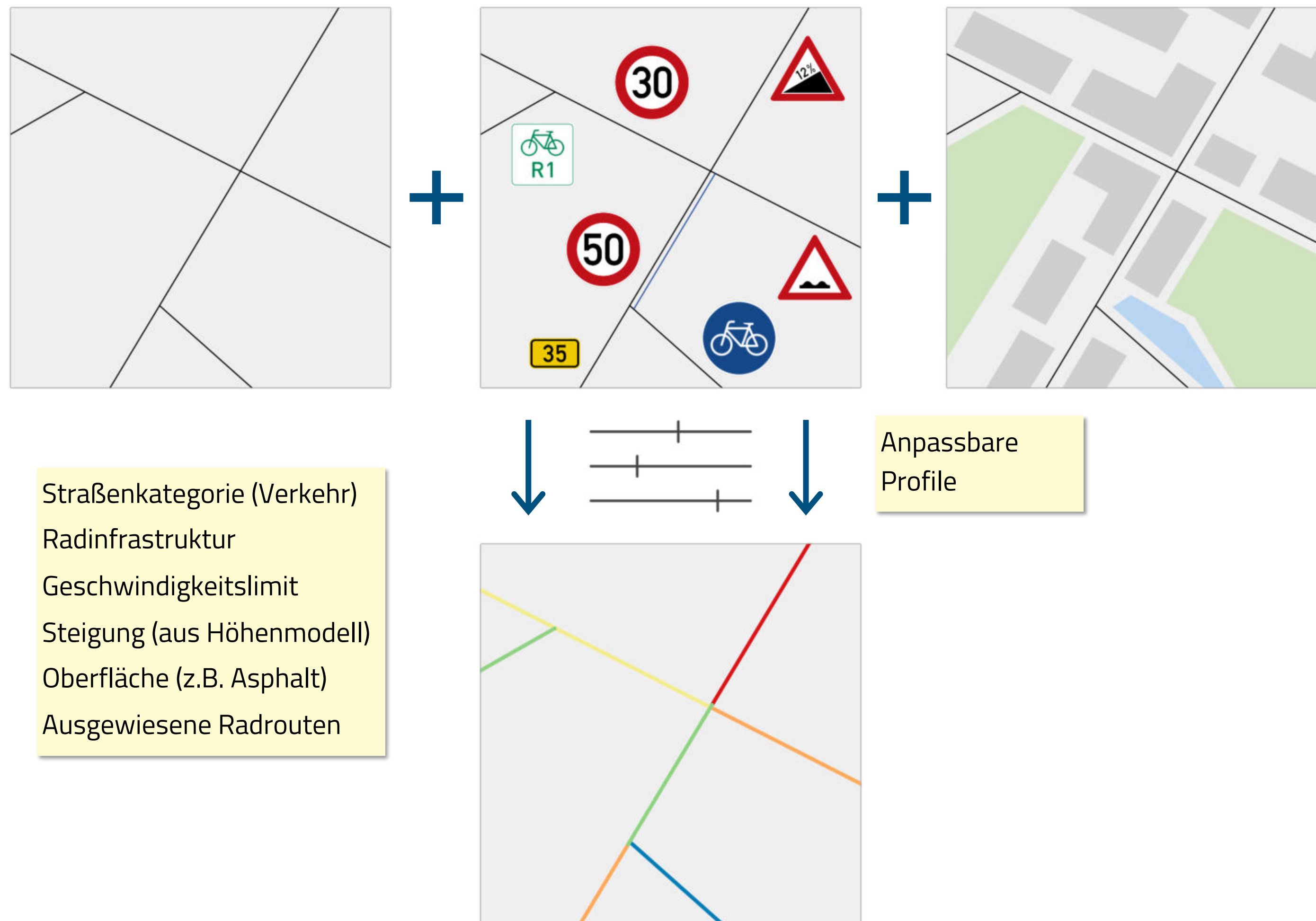


Comfort



Safety

Implementierung: NetAScore

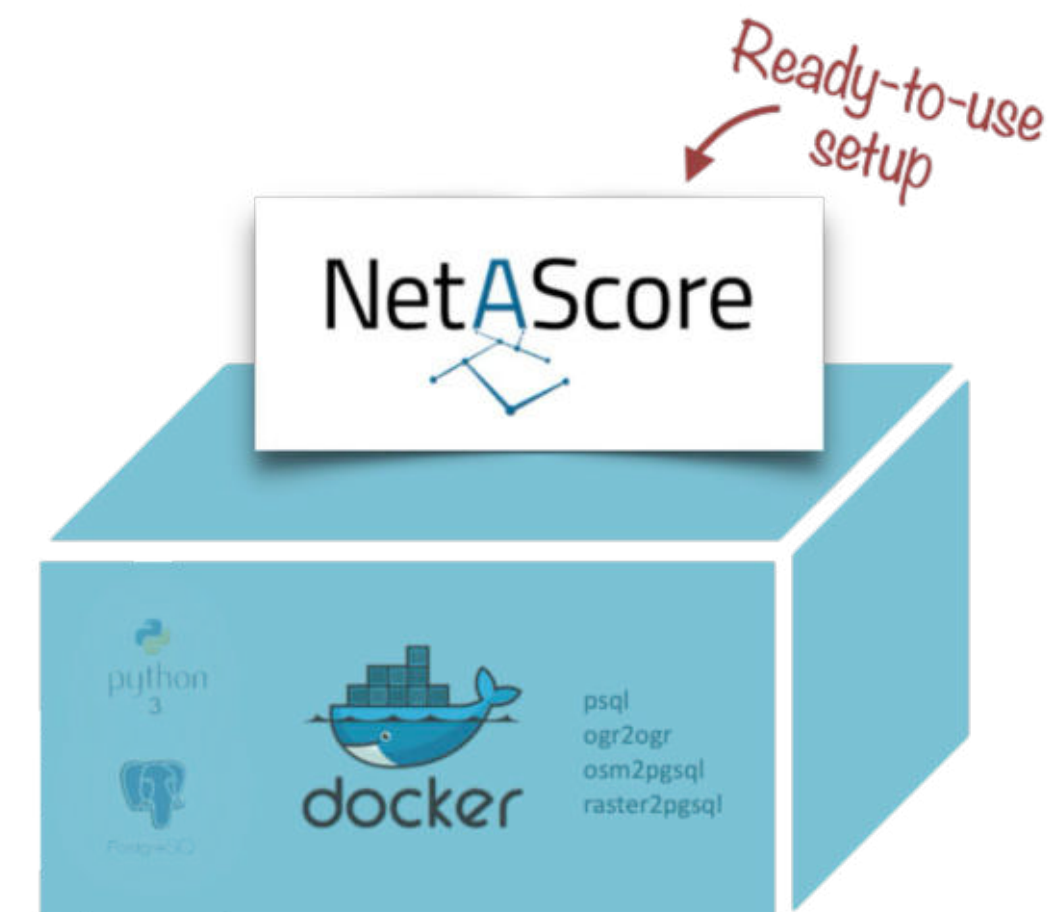


Open Source Software

NetAScore



mobilitylab.zgis.at/nas



Ergebnisse

Bikeability für Salzburg

```
version: 1.1

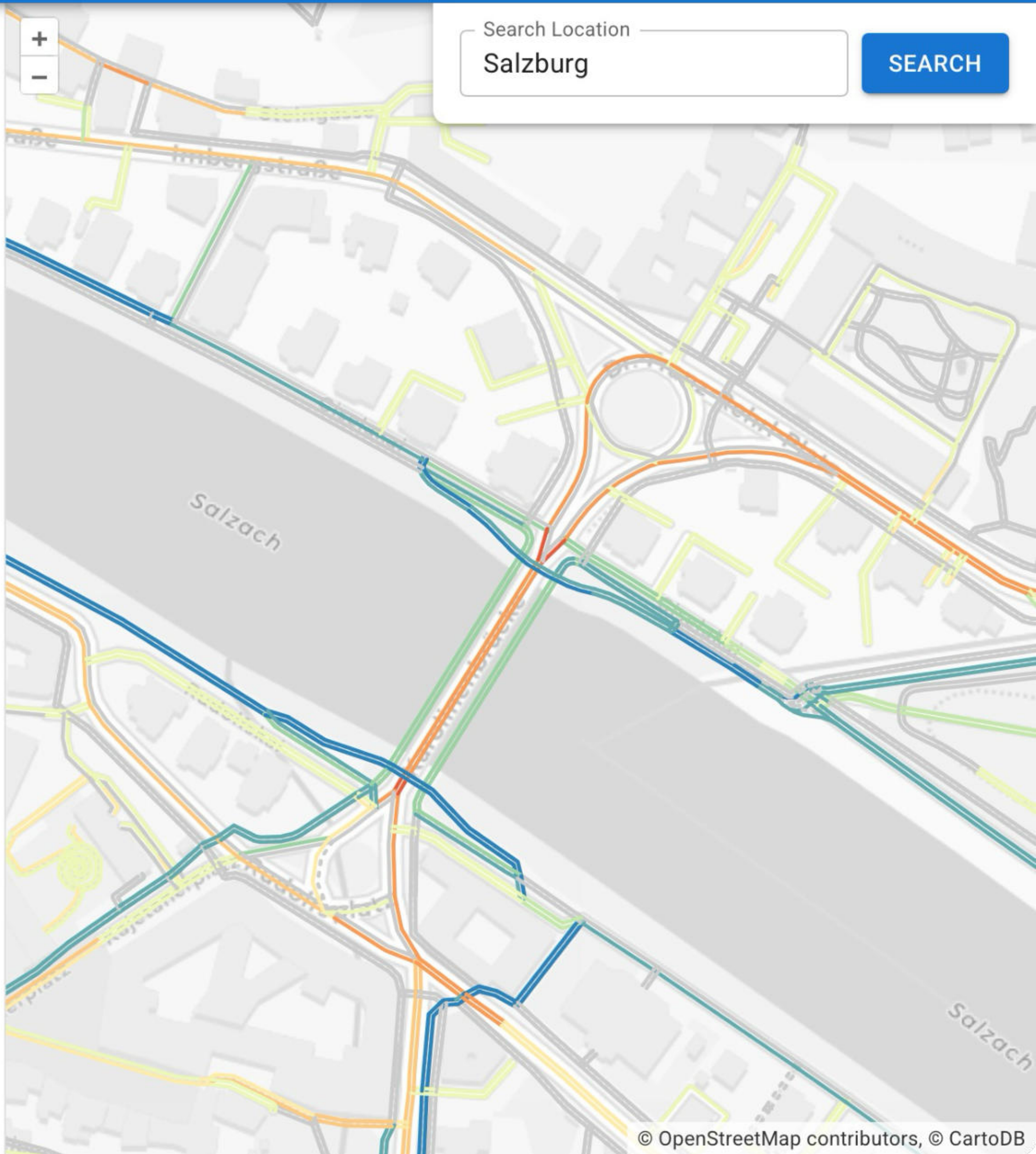
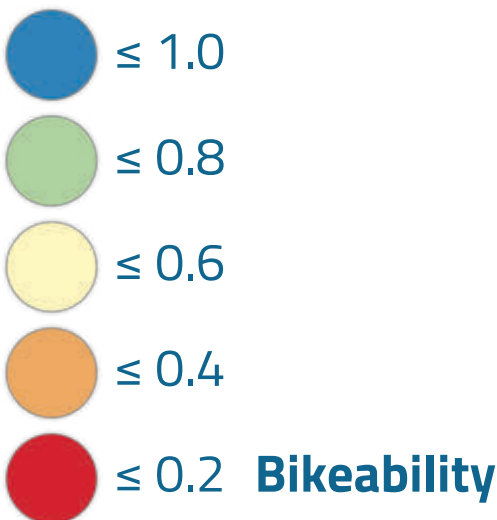
weights:
  bicycle_infrastructure: 0.2
  pedestrian_infrastructure: NULL
  designated_route: 0.1
  road_category: 0.3
  max_speed: 0.1
  max_speed_greatest: NULL
  parking: 0.1
  pavement: 0.1
  width: NULL
  gradient: 0.1
  number_lanes: NULL
  facilities: NULL
  crossings: NULL
  buildings: NULL
  greenness: NULL
  water: NULL
  sights: NULL
  noise: NULL
```

NetAScore Demos

Profile  Default 

NETWORK ROUTE RASTER ACCESS

Bicycle Infrastructure	<div><div></div></div>	0.20
Pedestrian Infrastructure	<div><div></div></div>	0.00
Designated Route	<div><div></div></div>	0.10
Road Category (Bicycle)	<div><div></div></div>	0.30
Road Category (Pedestrian)	<div><div></div></div>	0.00
Max Speed (Bicycle)	<div><div></div></div>	0.10
Max Speed (Pedestrian)	<div><div></div></div>	0.00
Parking	<div><div></div></div>	0.10
Pavement	<div><div></div></div>	0.10
Width	<div><div></div></div>	0.00
Gradient (Bicycle)	<div><div></div></div>	0.10
Gradient (Pedestrian)	<div><div></div></div>	0.00
Number Lanes	<div><div></div></div>	0.00
Facilities	<div><div></div></div>	0.00
Crossings	<div><div></div></div>	0.00
Buildings	<div><div></div></div>	0.00
Greenness	<div><div></div></div>	0.00
Water	<div><div></div></div>	0.00
Sights	<div><div></div></div>	0.00
Noise	<div><div></div></div>	0.00



© OpenStreetMap contributors, © CartoDB