











source: RVR, Machbarkeitsstudie Radschnellweg Ruhr

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Why are we doing it?

By building the RS1 we achieve

- an increase in the share of cycling within transportation
- a reduction of traffic jams within the city centres and on motorway A 40 (B1)
- a reduction of journey times
- a rise in intermodal transportation: Connection with the public transport system
- the prevention of accidents
- noise reduction, reduction of emissions, climate protection
- an increase in quality of life
- health promotion
- an image benefit for the region (innovative profile)

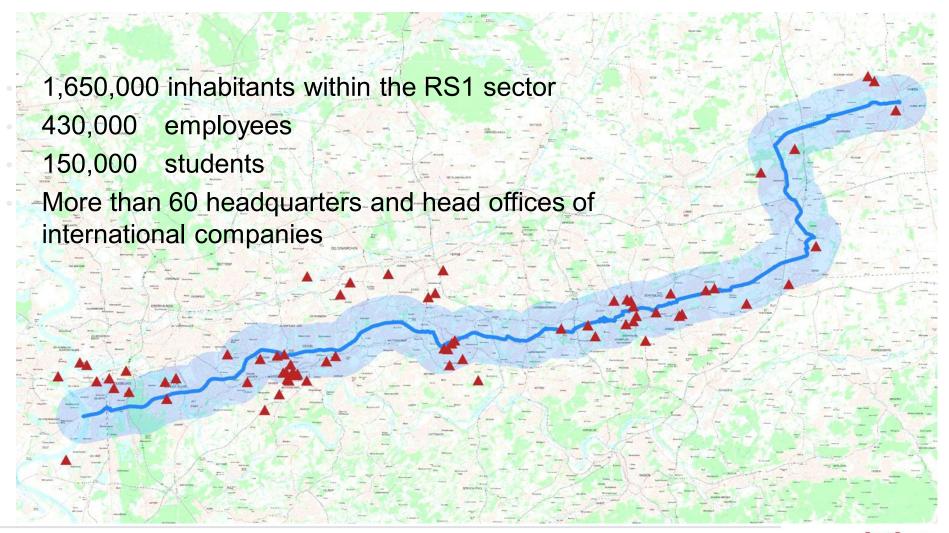








RS1 – Catchment Area



Frank Joneit Cycle Highway Ruhr (RS1)

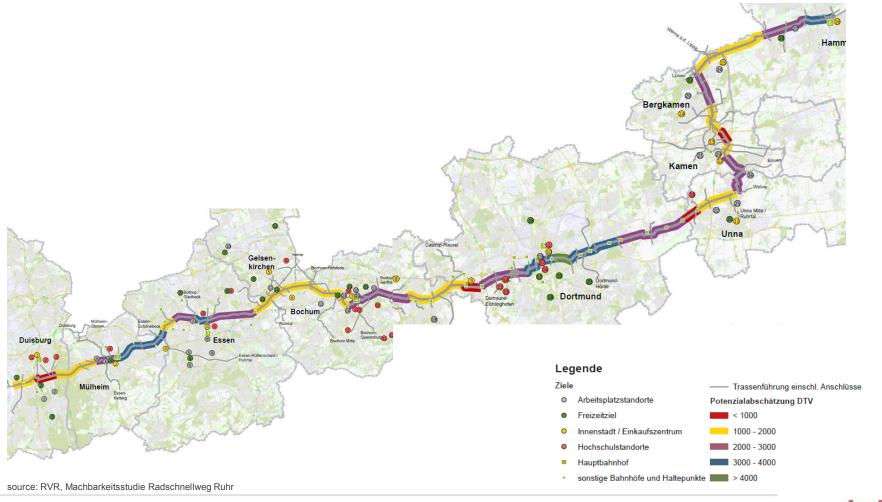
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Potentials and Destinations





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Estimated bike traffic on RS1



Number of cyclists on RS1 shifted from car per day	Passenger kilometers per day
52,460	401,122











Quality standards and signs

- directly, if possible straight-lined
- separation of cyclists and pedestrians
- 3 m wide in one line, 4 m wide in two lane traffic, seperated travel direction
- different infrastructures usable
- on the Cycle Highway cycling is the only or at least dominating mode of transport
- road layout meets the guidelines of German road traffic regulations (StVO)
- sign elements are standardized only a few but elementary rules
- signage is part of the design of the cycle highway







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Creation guidelines

A Compendium for planning and creation

related to different types of space



Gestaltung passend für Metrozonen



schaftszonen









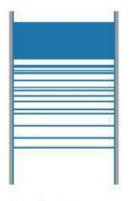




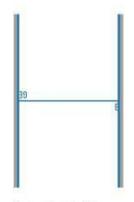




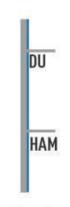
Creation guidelines



Anwendung einer Quermarkierung als aufmerksamkeitssteigerndes Element vor Konfliktbereichen und als Kennzeichnung von markanten Orten.



Kennzeichnung der Überschreitung von Stadtgrenzen



Kennzeichnung der Fernziele am Fahrbahnrand



Fahrbahnrand

Kennzeichnung der Nahziele am Fahrbahnrand







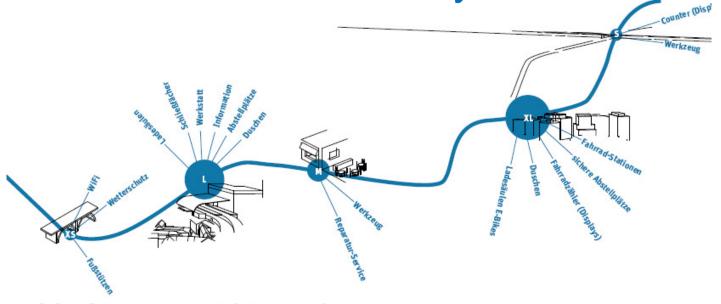








Service areas for the cyclist



Der Bau von Raststationen orientiert sich an der Streckensituation vor Ort.

XS Zwischenstopps Rast- und Aussichtspunkt

Quartiersschnittstellen

Multimodaler Knotenpunkt

Cycle-Lounges











Illumination



Lineare Führung

Lineare Führung über Leuchten an Seilaufhängungen zwischen Masten (durchgängiges Element)

Lichtpunkthöhe ca. 8,00m Abstand Masten ca. 60m



Mastleuchten

Klassische Wegebeleuchtung über Mastleuchten in LED-Technik

Lichtpunkthöhe ca. 8,00m Abstand Masten ca. 40m

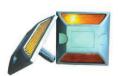
Beleuchtung Streckenabschnitte landscape



Markierung über reflektierende Elemente

Lineare Führung über Markierungsnägel mit reflektierenden Oberflächen die beim Licht der Fahrradleuchte die Wegeführung markieren.

Lichtpunkthöhe ca. 0,10m Abstand ca. 2m





Lineare Markierung über fluoreszierenden Farbauftrag

Beiderseitige lineare Markierung der Wegstrecke mittels Farbauftrag mit fluoreszierender Farbe. Diese Farben reflektieren das einwirkende Licht einer Fahrradleuchte, haben aber darüber hinaus auch eine selbstleuchtende Tagwirkung

Regionalverband Ruh



metropoleruhr



Mülheim an der Ruhr









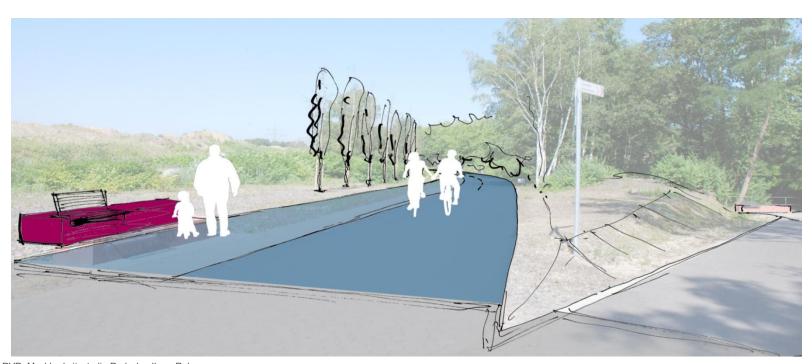






Essen

- route presently built as mixed traffic area
- seperation of cyclists and pedestrians necessary





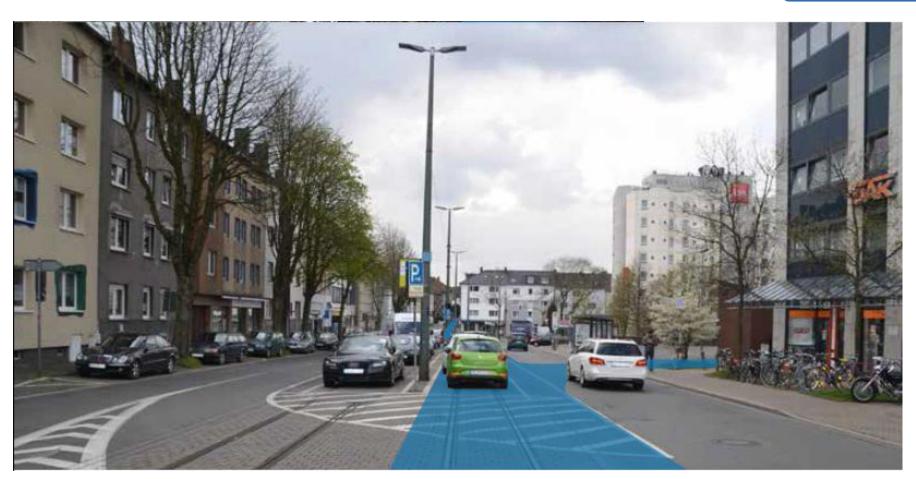








Bochum













Dortmund



source: RVR, Machbarkeitsstudie Radschnellweg Ruhr





Rtg. DO-City >>>







Bergkamen / Hamm

- Participation of the federal administration of shipping (WSV)
- Illumination practicable, furthermore usable as business way







metropoleruhr





Key data

92.4 % route on existing infrastructure

7.6 % new construction of infrastructure

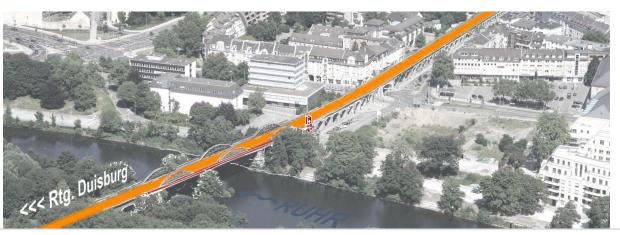
New construction: 7.7 km | 7.6 %

New construction on former railway lines: 32.2 km | 31.6 %

Rebuilding streets: 17.5 km | 17.3 %

Development of existing routes: 44.3 km | 43.5%

In total 101,7 km







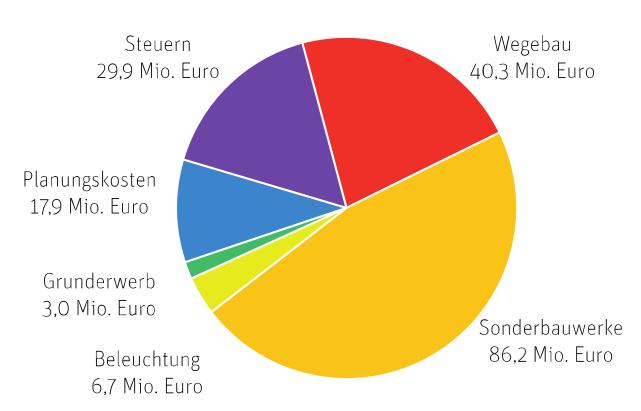






Costs

Total 184 Mio. €











Hamm

Bergkamer

Kamen

The benefits of RS1

- total length: 101 km
- costs: 184 millionen Euro
- the benefit is 4.8 times higher than the costs
- daily decrease of car use: 400,000 km
- annual reduction CO₂: 16,600 tons







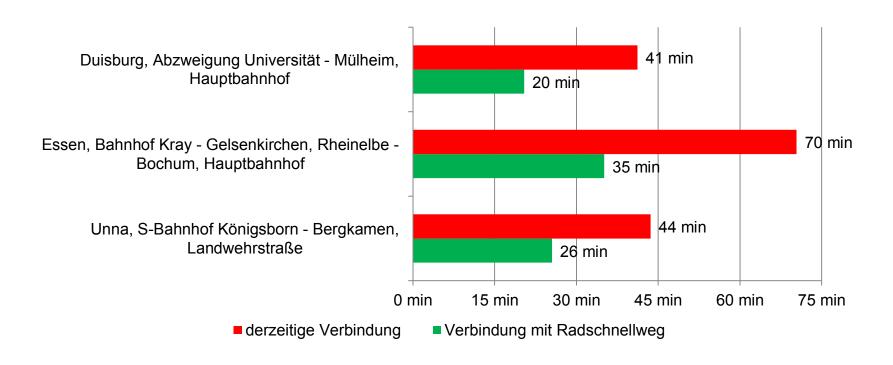






The quickest way through Ruhr...

Time savings for certain sections up to 50%



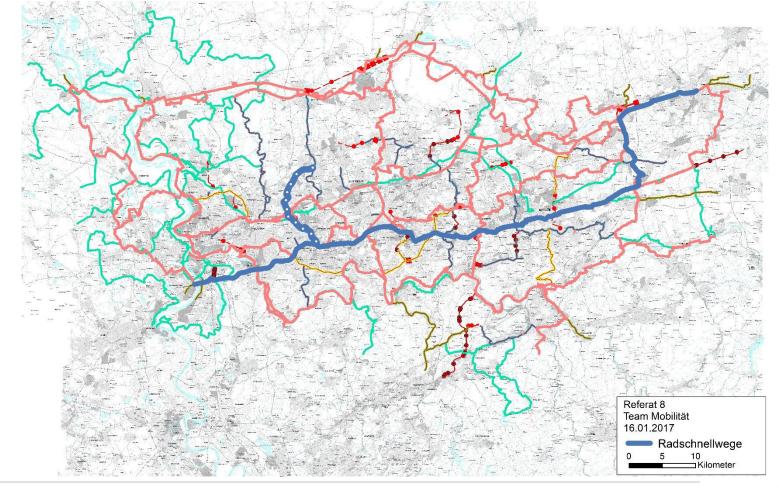








RS1 – The 1st Cycle Highway within a regional Network





source: RVR







More on the web: www.rs1.ruhr



Many thanks for your attention!



