

Going Dutch - but keeping it real

**Internationale Konzepte zur Förderung des Radverkehrs
Radgipfel Graz, 28 März 2019
Stefan Bendiks**

ARTGINEERING

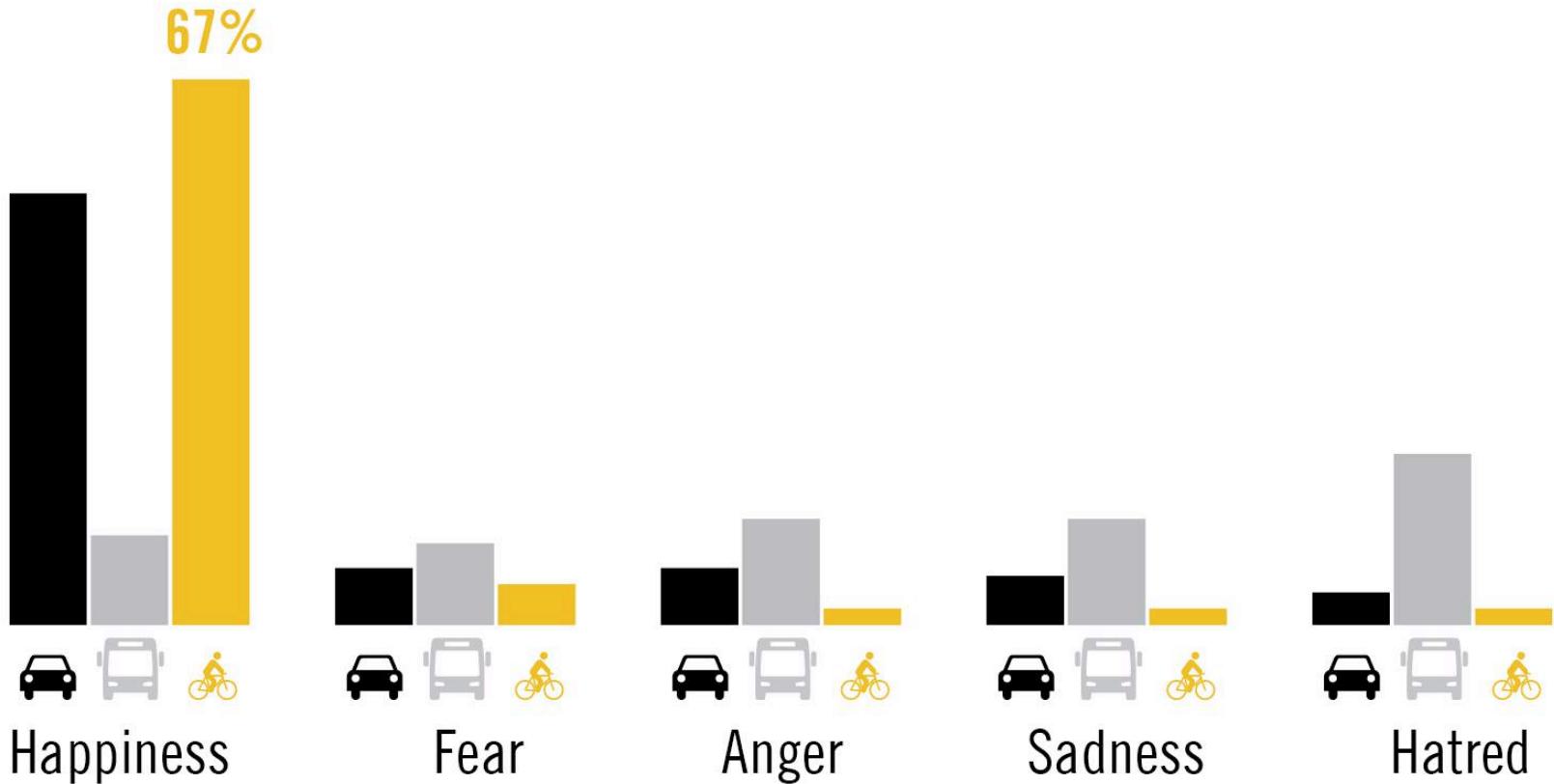
Arduinkaai 37 bus 23 B-1000 Brussels

**Tel: 0032.2.8803080
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Twitter: AG_cycleinfra**

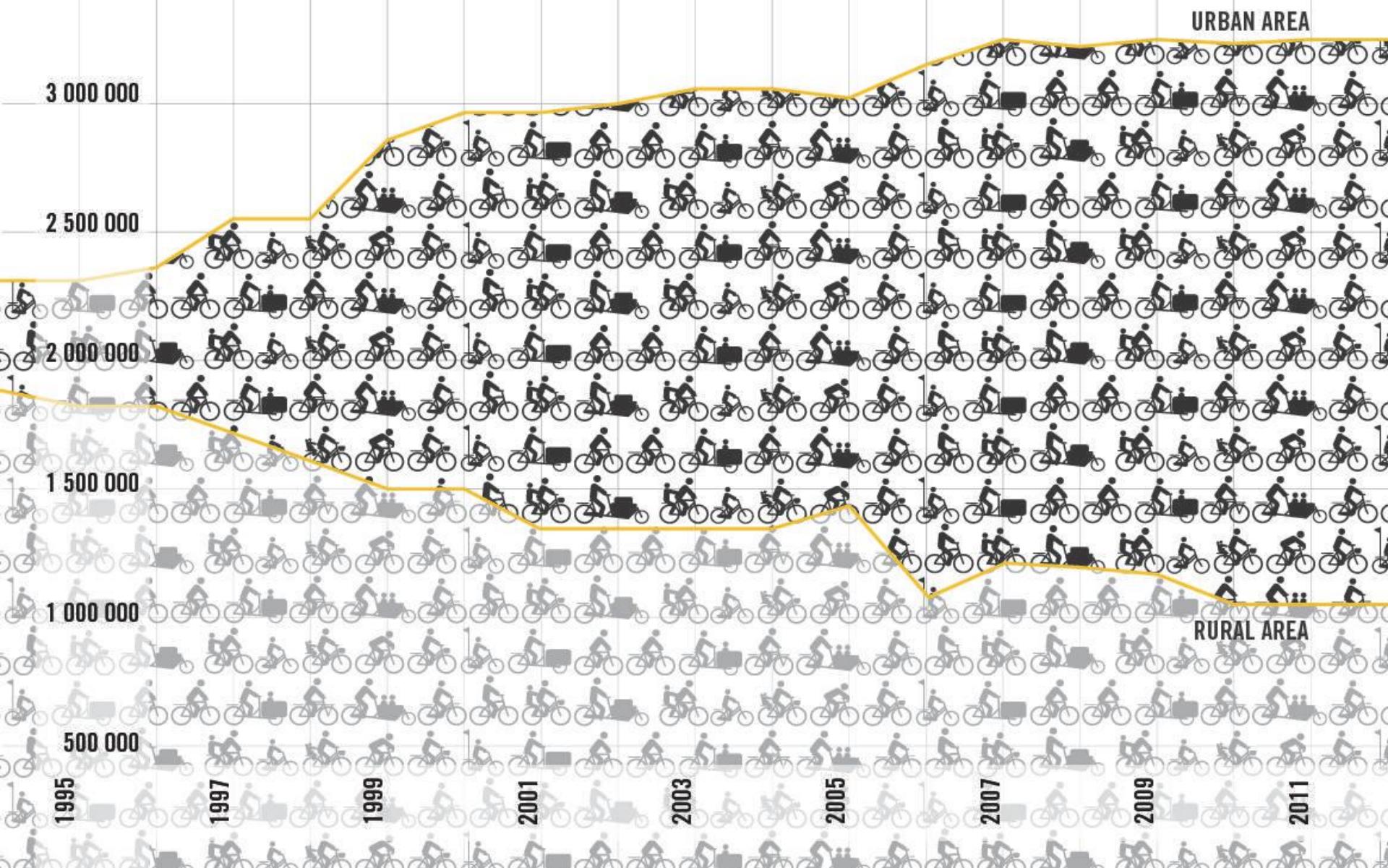
THE NETHERLANDS IS (STILL) THE NUMBER ONE CYCLING COUNTRY.

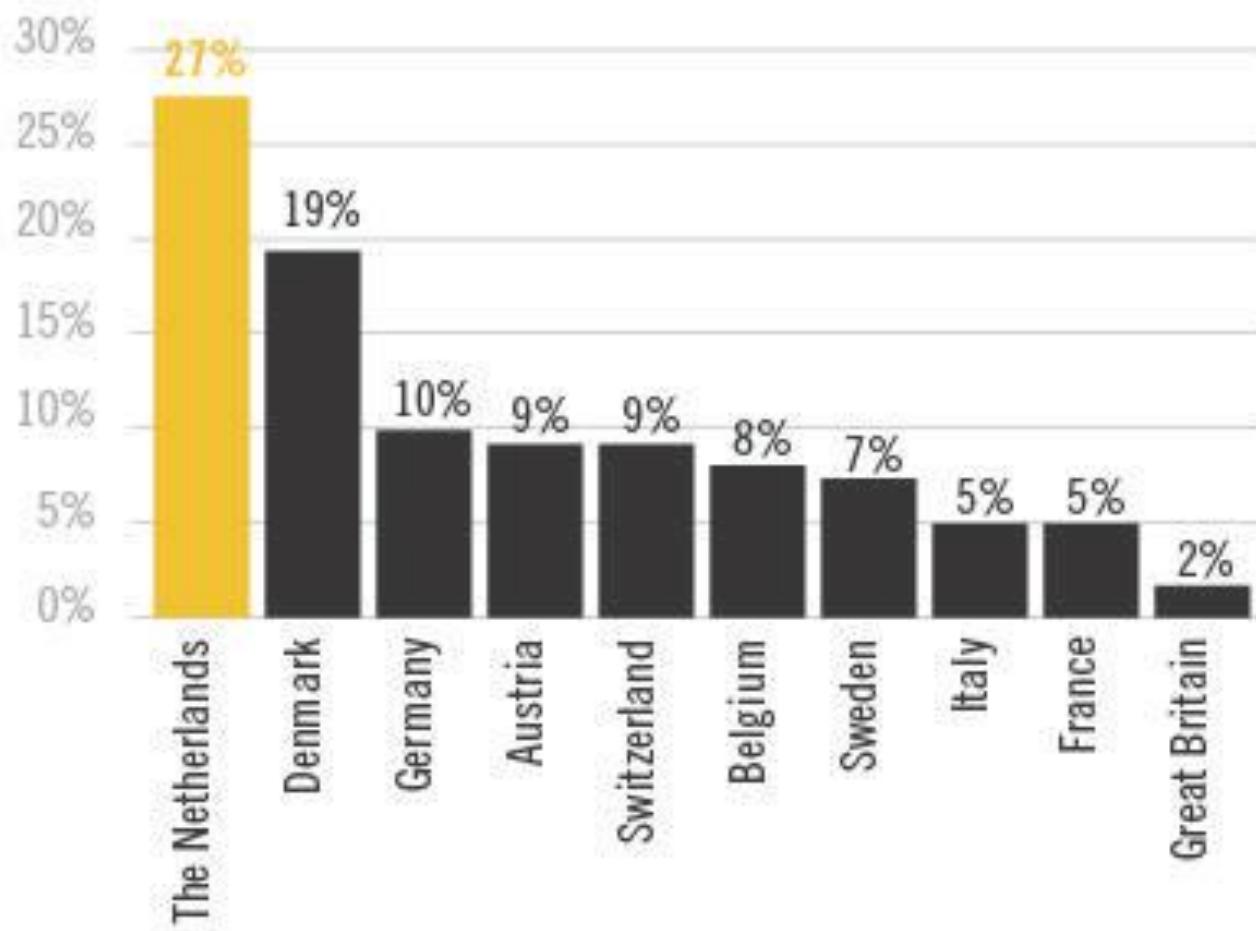


CYCLING MAKES YOU HAPPY.



THE AMOUNT OF URBAN CYCLISTS IS CONSISTENTLY GROWING.





Mode share cycling (2009)



Netherlands

Driver Satisfaction Index Score

Waze analyzed six key driving factors to create a single numerical score defining the most satisfying (10) and least satisfying (1) drives in the world.



Global Ranking:

1 / 38



Waze's Driver Satisfaction Index



,Dutch roundabout' Zwolle

Going Dutch?



Lüleburgaz - Cycling for a better city

Inclusive Bicycle Masterplan
Lüleburgaz, 2018-2019



Luleburgaz Bicycle Academy

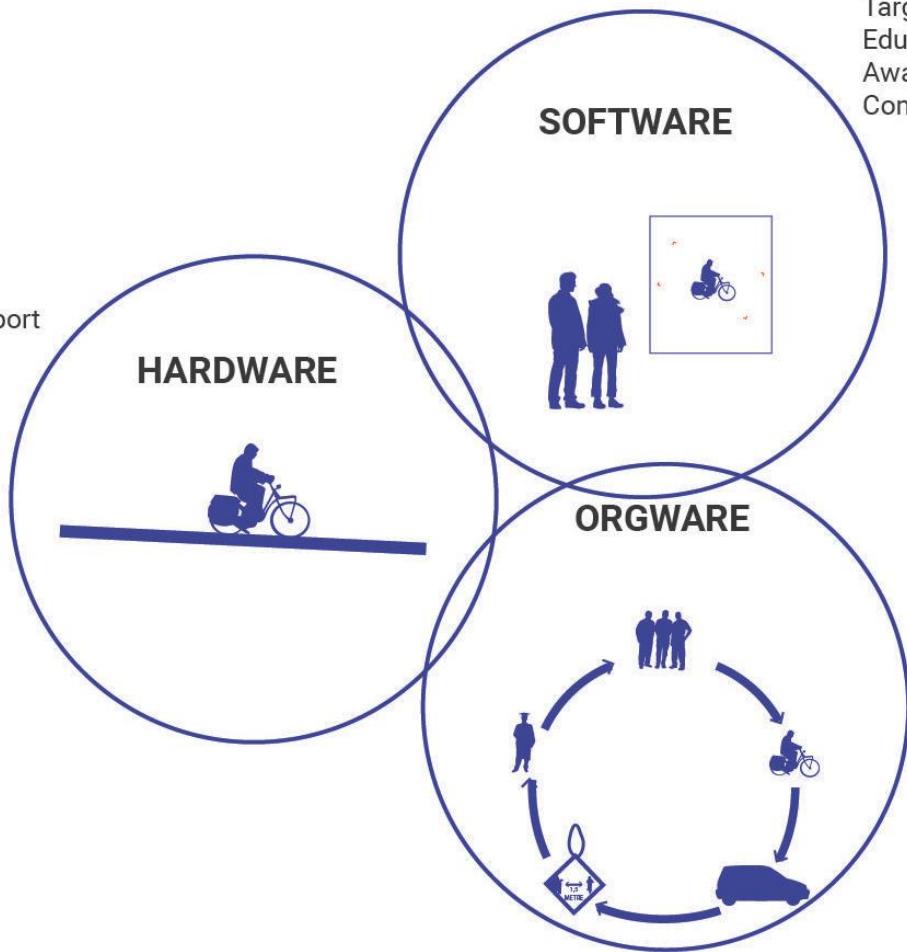


Istanbul metropolis with more than 1.000.000 inhabitants

Antalya towns with more than 100.000 inhabitants

HARDWARE

Bicycle parking
Save bicycle paths
Upgrading existing roads
Building new roads
Bicycle rental
Integration with Public Transport
Crossings with (main) roads



SOFTWARE

Role models / word-of-mouth
Bicycle-friendly-city image
Traffic signs and Information signs
Target groups / Front-runners
Education
Awareness
Communication

ORGWARE

Legislation (traffic regulations e.g. 1,5m law)
Rewarding cyclists (tax incentives)
Integration of relevant public stakeholders
Reinforcement (Fines, penalties, cameras)
National research and standards
Restrictions for some road users (trucks)

The 3 aspects of the inclusive bicycle masterplan



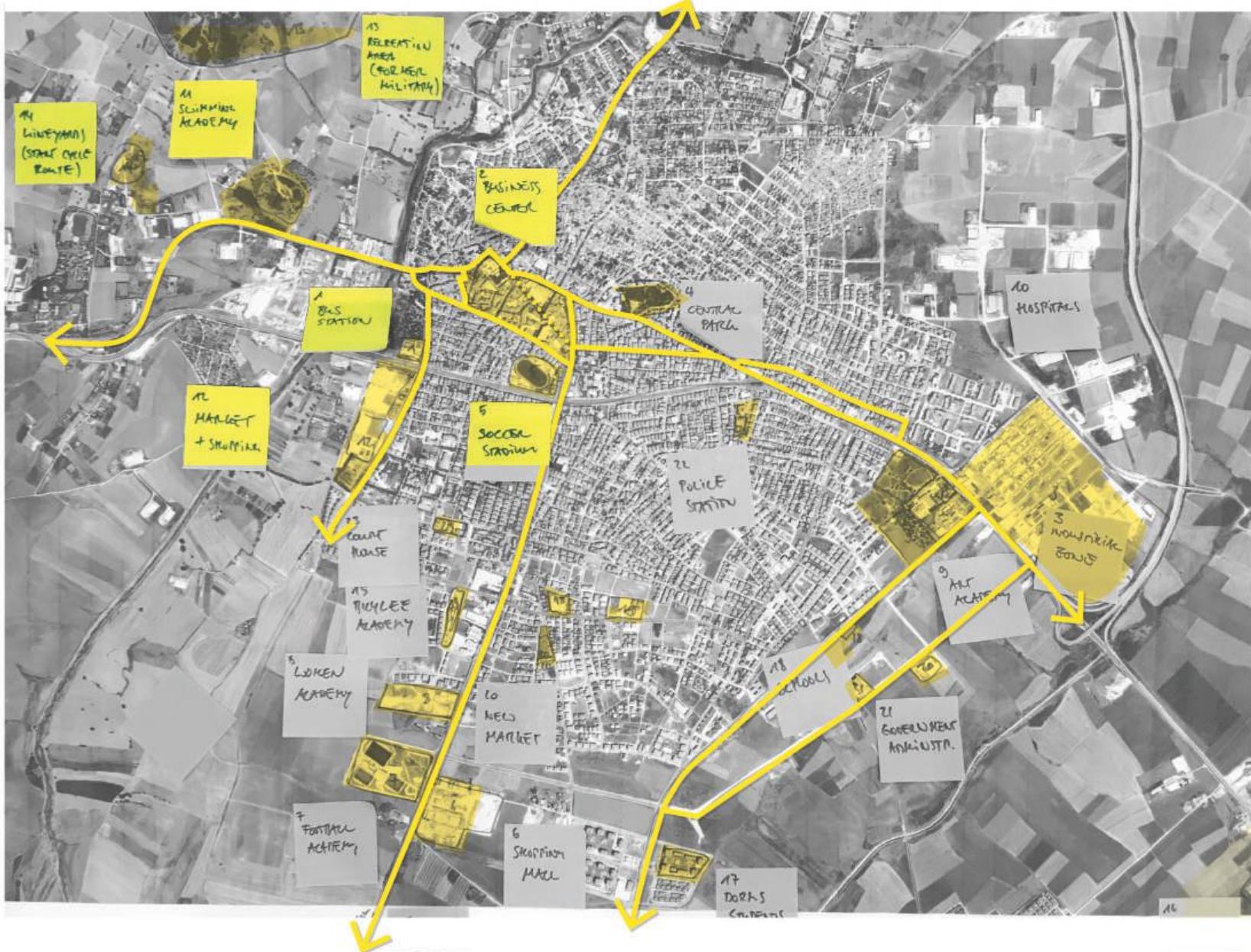
Orgware: Workshops, field trips, stakeholder dinners, alliances



Software: Flamboyant women bike ride



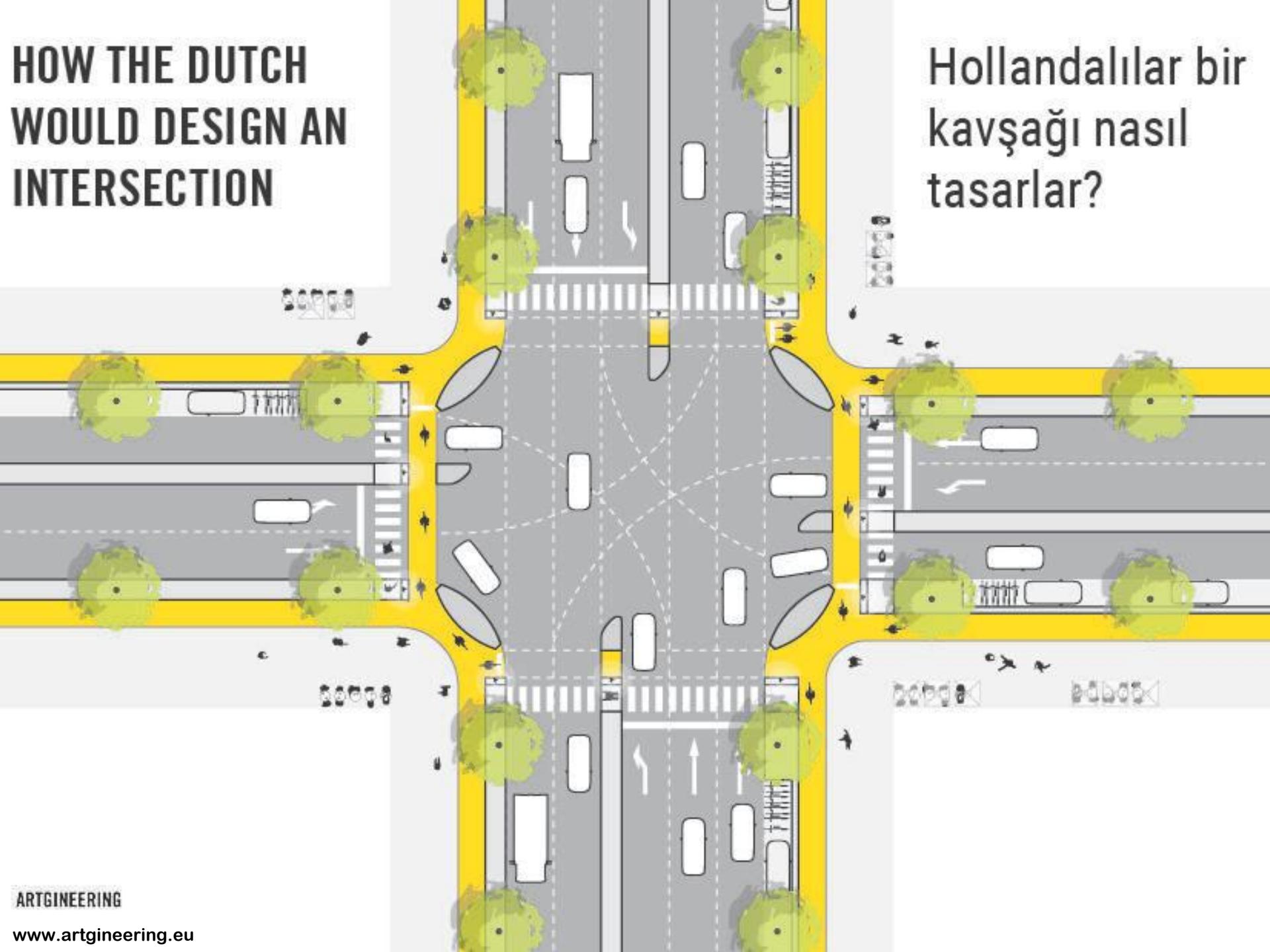
Software: Repair workshops at the bicycle academy



Hardware: Network

HOW THE DUTCH WOULD DESIGN AN INTERSECTION

Hollandalılar bir kavşağı nasıl tasarlar?



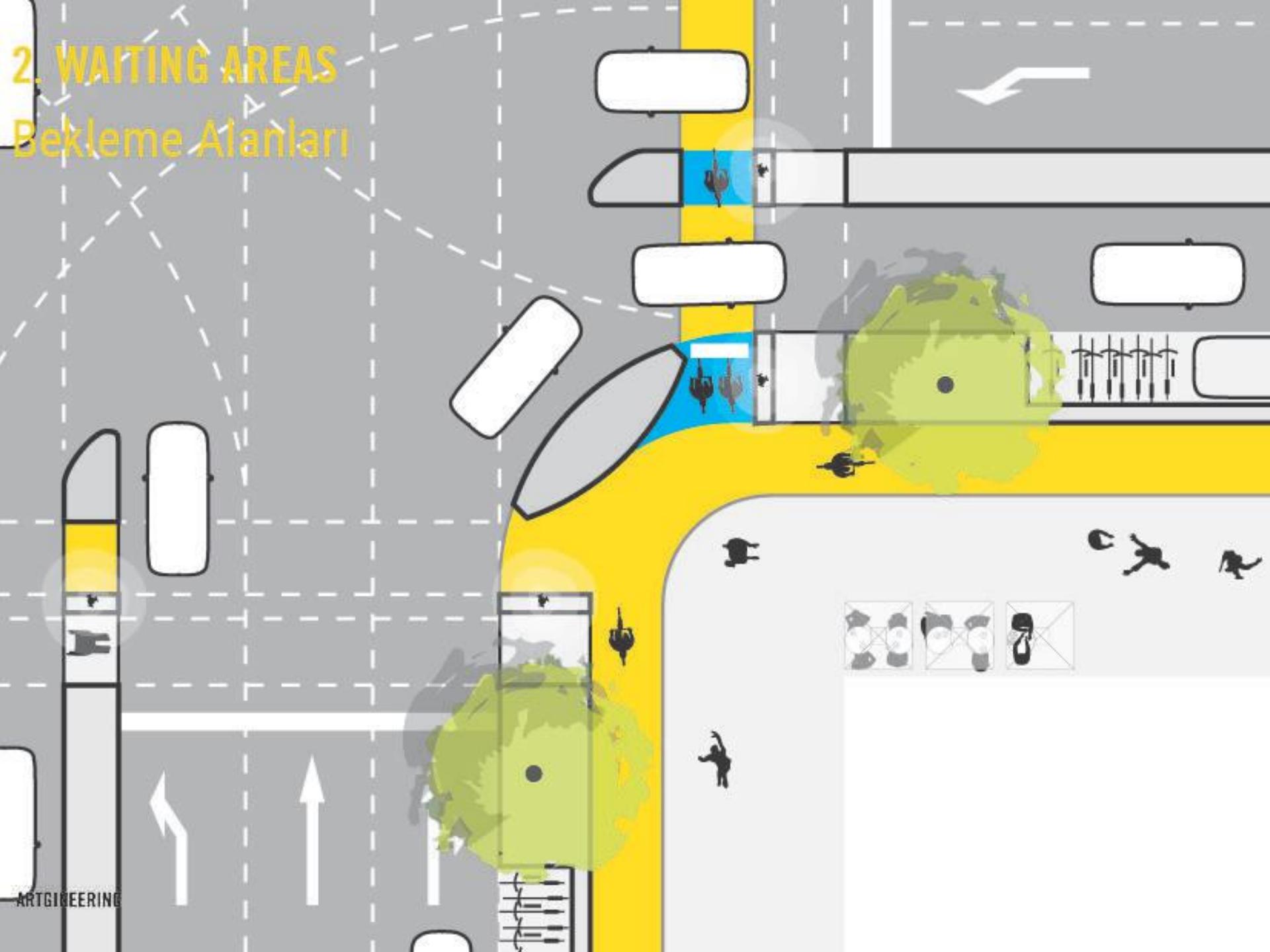
1. PROTECTIVE ISLANDS

Koruyucu Adalar



2. WAITING AREAS

Bekleme Alanları



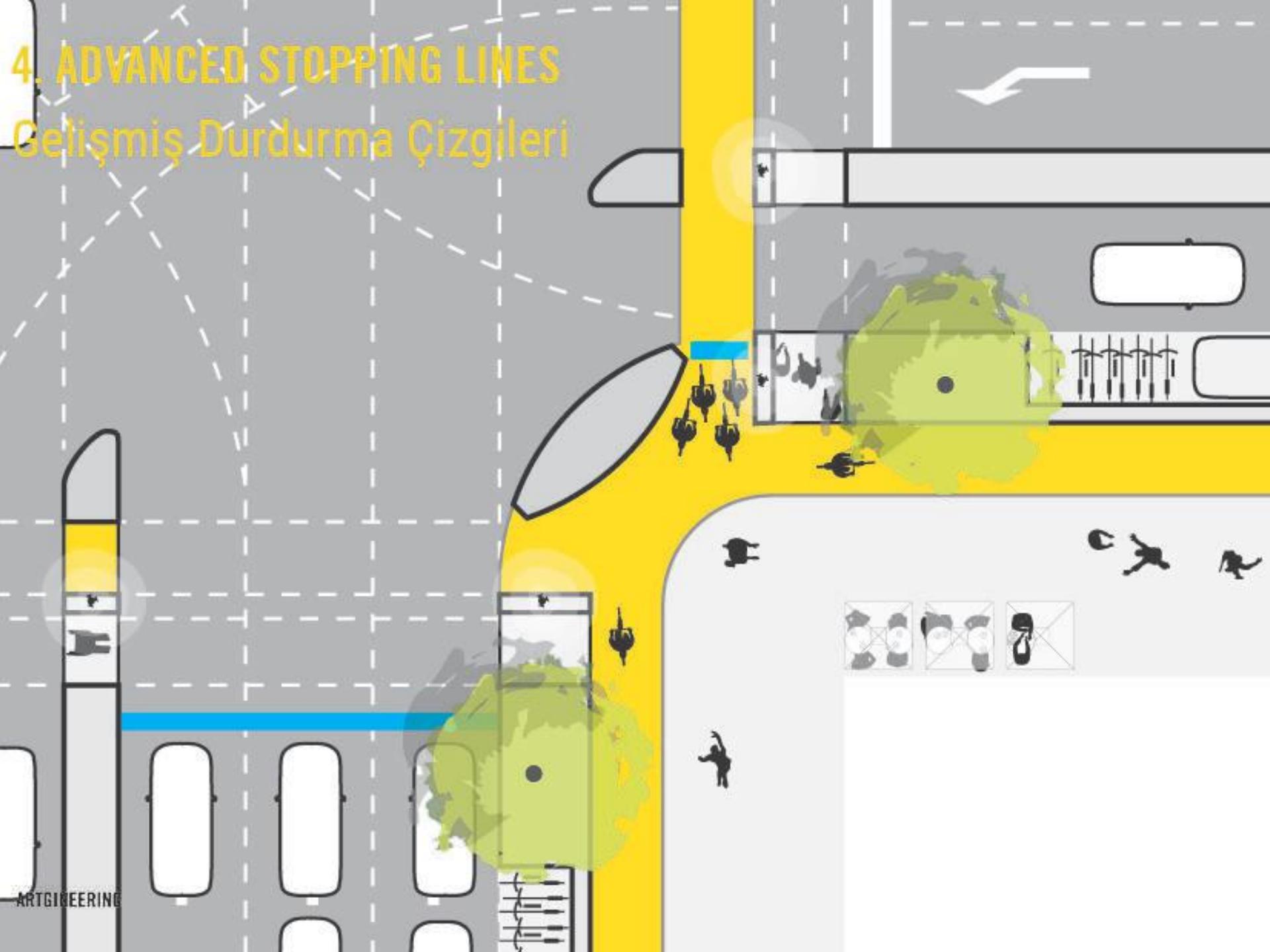
3. SHIFTING OF THE CYCLE PATH

Bisiklet Yolunun Değiştirilmesi
path shifting



4. ADVANCED STOPPING LINES

Gelişmiş Durdurma Çizgileri



FOR WHOM ONE SHOULD DESIGN CYCLE INFRASTRUCTURE?

Bisiklet altyapısı kimin için tasarlanamalı?

60%

"Interested but concerned"

"Meraklı ama endişeli"



33%

"No way. No how."

"Kesinlikle hayır"



6,5%

"Enthused and confident"

"Coşkulu ve kendinden emin"



0,5%

"Strong and fearless."

"Güçlü ve korkusuz"



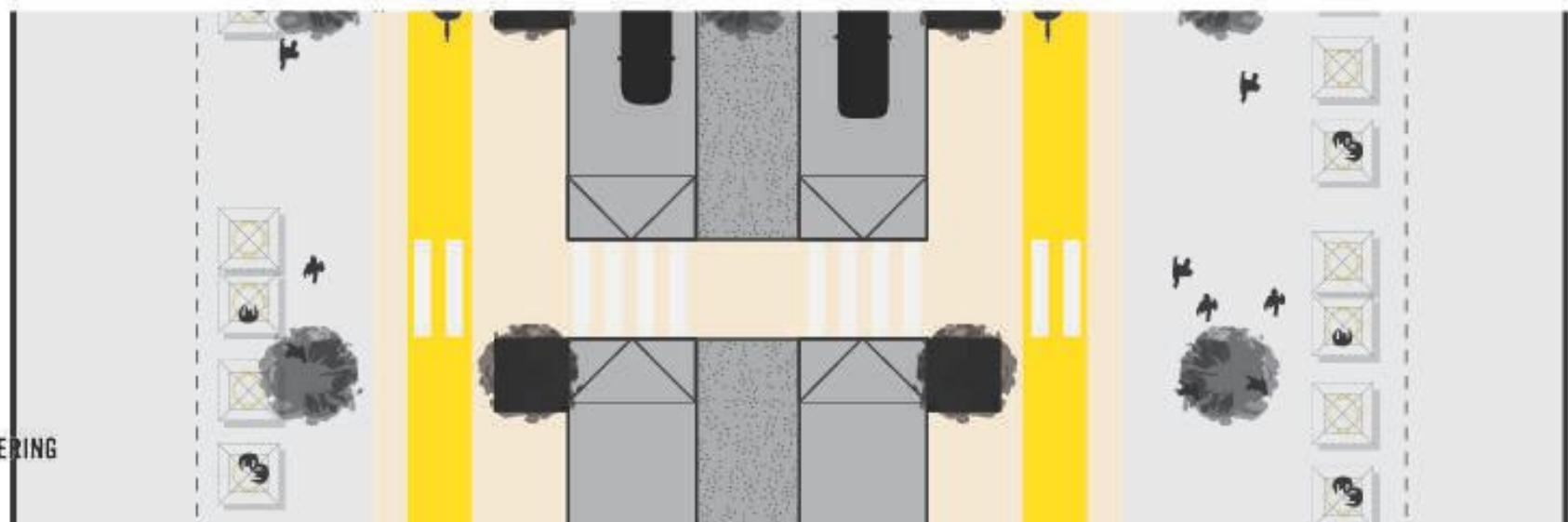
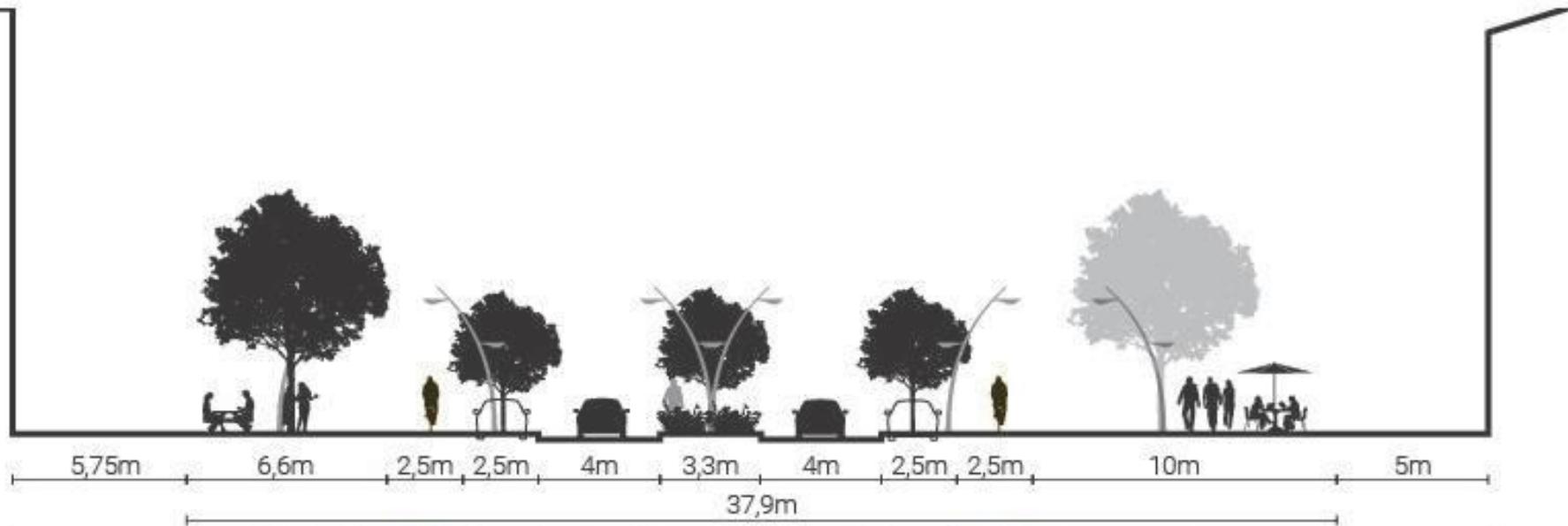
WHAT A SHARED SPACE AT THE TRAIN STATION COULD LOOK LIKE

Tren istasyonundaki bir ortak alan nasıl olurdu?

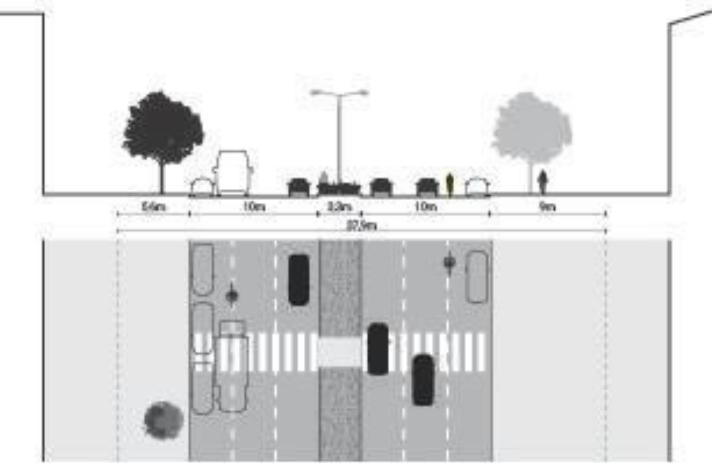


WHAT A FORMER URBAN HIGHWAY COULD LOOK LIKE

Eski bir otoyol neye benzer?



Existing situation - D-100 Karayolu- Murat Hüdavendigar Caddesi



Lüleburgaz bisiklete biniyor
Cycling for a better city



ARTGINEERING

NOVUSENS

SUSTAINABLE SOLUTIONS

CREATIVE INDUSTRIES FUNDS

www.artgineering.eu



Testing of the bicycle friendly road profile in a mock-up

Stefan Bendiks
ARTGINEERING

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Twitter: AG_cycleinfra

Sustainable Urban Mobility Plans as Drivers for Cycling Boom

Lea Rikato Ružić, PNZ consulting, designing Ltd.



Cycling in Slovenia

- Modal share: 4,5% in Slovenia, 11% in Ljubljana, 5% in Maribor
- Growing cycling tourism and recreational cycling
- First cycling infrastructure guidelines in 2000
- Silo approach, patchy development of network
- Lack of vision & funds
- Cycling strategies still rare



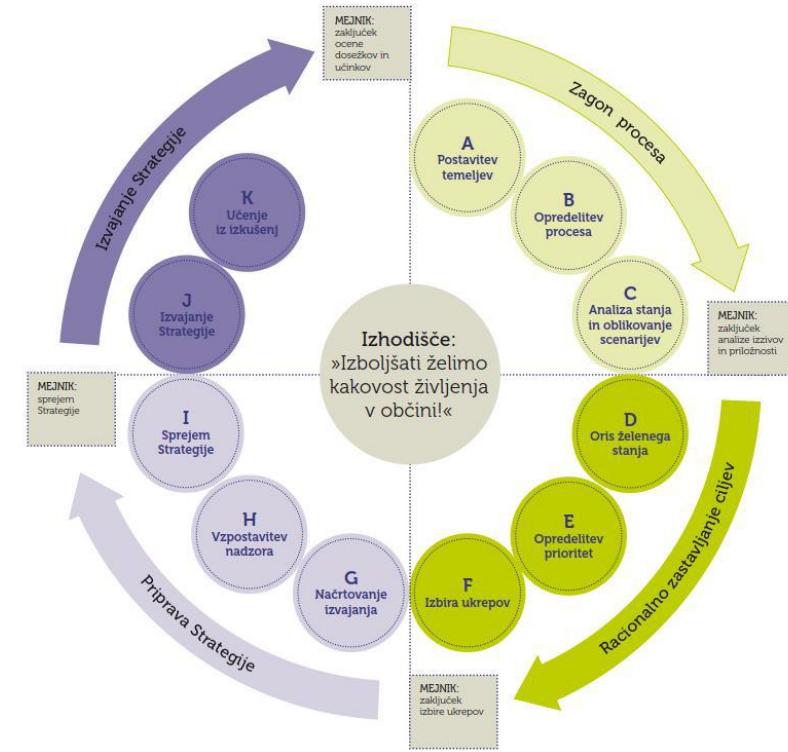
Enter SUMPs

- Sustainable Urban Mobility Plans - long-term strategy for the future development of transport and mobility infrastructure and services in the urban area
- First one in 2012 in EU project
- Since 2017: >70 local authorities with a SUMP



How did that happen?

- Ministry of Infrastructure, new office for sustainable mobility
- SUMP guidelines in 2012
- EU Cohesion Funds (2014-2020) for developing SUMPs in 2015
- 3,75 mio EUR
- Minimal standards + compliance with SUMP guidelines
- Any local authority with urban area(s) eligible



Role of cycling in SUMPs

- Cycling typically one of the pillars
- Strong focus on cycling
- SUMPs locally based, harder to influence national rail or bus system
- Short distances in Slovenian relatively flat towns
- Big potential for mobility and tourism
- Relatively cheap



STRATEŠKI STEBRI
3. IZKORIŠČANJE DANOSTI
ZA KOLESARJENJE

Kolesarjenje je poleg zdravega načina rekreativne tudi vrsta prometa, ki ne onesnažuje okolja, ne povzroča hrupa, ne potrebuje goriv in zmanjšuje težave s parkiranjem. Z vidika porabe prostora in denarja je kolesarjenje zelo učinkovito, v urbanih naseljih pa omogoča celo najhitrejši, in najučinkovitejše premogovanje krajskih razdalj. Zaradi omenjenih razlogov (gospodarskih, ekoloških, turističnih in rekreacijskih) se zmanjšuje vključevanje v prometni sistem in lot alternativnega mobilnega prometu dobitva daje večjo vlogo in pomen.

IZZIVI

Klub ugodnih geografskih danostim in investicijam v zadnjih letih v izboljševanju razmer možnosti kolesarjenja že niso le v novi SUMP-u, ampak že v mestnem planu, predvsem kar 50 konfliktnih točk za kolesarje, pri večini gre za prekinitve in manjkanjo povezave kolesarskih poti. Povezave z zaledjem so pomajajoče oziroma neobstoječe, na primer proti Solkanu ali Kromberku, še bolj pa proti drugim naseljem vzhodno od Nova Gorice. Naselja, kot so Šempas, Ozeljan, Osek, Vittovje, s kolesom skoraj niso dostopna oziroma le po veliko daljših lokalnih cestah in poteh. Državno kolesarsko omrežje je zasnovano in se počasi izgrajuje, vendar je še vedno v začetnih fazah razvoja. Slabšo razvite so tudi povezave med mestnimi območji in območji ter zapopotenimi, upiranimi in storbenimi območji. Najslabše je poskrbljeno za varnost najmlajših kolesarjev, saj večina zornovnih žič v mestu ni dosegljiva po kolesarski poti.

Promanjkanje kolesarskih parkirišč je edino tokrat v stanovanjskih območjih kot tudi ob zgradbah javnih in zasednih storitev.

Nismo pravega podatka o deležu kolesarjev, saj se glede na vse različne mesta precej razlikujejo. Na primer, v Ljubljani podatki državne statistike kažejo, da je delež uporabe kolesa 10-odstotek, glede na popis leta 2002 23,5-odstotek (skupaj s hodo) ter glede na anketo v sklopu CPS 20-odstotek. Stotje kolesarjev na večini mest znaša sredšča mesta je pokazalo, da gre večinoma za rekreacijske kolesarje, manj za tiste, ki kolo uporabljajo kot prevozno sredstvo.

Kaj ste nam sporočili:

Očitani so najbolj razvedkovani s sklenjenjem koleksandrske omrežja (52 odstotkov), pomanjkanjem kolesarskih parkirišč (61 odstotkov) in pomanjkljivo osvetljenoščijo poti (53 odstotkov). Približno 81 odstotkov anketiranih meni, da je pomembno imeti več površin za mestne kolesarje, 64 odstotkov jih meni, da je pomembno imeti več parkirnih površin za kolesa, 55 odstotkov, kar je pomembno imeti sistem za izposojo koles, 74 odstotkov pa jih meni, da je pomembno umirjati promet.

Prometna varnost kolesarjev se ne izboljšuje enako kot skupna prometna varnost, saj se število prometnih nesreč ne zmanjšuje. V zadnjih letih je bilo nameščenih več parkirnih površin za mestne kolesarje, na leto, kar je potrebno kot v začetku tisočletja. Eden pomembnejših razlogov je zagotovo tudi povečanje števila kolesarjev, a vseeno moramo stremeti k zmanjšanju števila nesreč. Še veliko možnosti za izboljšanje je v



Impact on funds

- SUMPs condition to bid for funds for measure implementation
- 250 mio EUR for cycling measures (2018-2023) tied to SUMPs
- =25 EUR per person per year
- Biggest financial injection ever
- First systematic investment in cycling

Operation	Mio EUR	Source
Call for Tenders Ministry of Infrastructure	13,1*	CF, National participation, Beneficiaries cofounding
ITI Mechanism ERDF	35,6*	ERDF, National participation, Beneficiaries cofounding
Regional Development Agreements	194*	ERDF, National participation, Beneficiaries cofounding
Call for Tenders Ministry of Environment	10,2*	Climate Change Adoption Fund, SIA
Slovenian Infrastructure Agency	37,0	National budget
Total	289,8	

*SUMP as condition for bidding

Impact on quality – current state



Impact on quality - future

- New Cycle Friendly Infrastructure Guidelines
- Not legally binding but mandatory when bidding for funds
- More ambitious and higher quality than the formal guidelines
- Cycling as part of overall mobility system, not on its own – other pillars in SUMPs supporting traffic calming, parking policy, integration with PT, quality of urban realm, soft measures etc.

REPUBLIKA SLOVENIJA
MINISTRSTVO ZA INFRASTRUKTURU

EVROPSKA UNIJA
VRHOPAČI STRUKTURNI IN INVESTICIJSKI SLODNI
NALOŽBA V VAŠO PRIHODNOST

Kolesarjem prijazna
infrastruktura

Smernice za umeščanje kolesarske
infrastrukture v urbanih območjih



Finally, impact on cycling levels?

- Measures/projects are being implemented
- No real results yet
- However – clearly a strategic and financial boost for local authorities
- National government supporting higher quality infrastructure
- Positioning cycling into wider urban mobility agenda



Thank you!

Lea Rikato Ružić

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Fix the mix



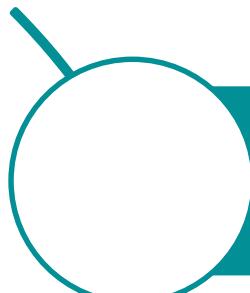


Gent



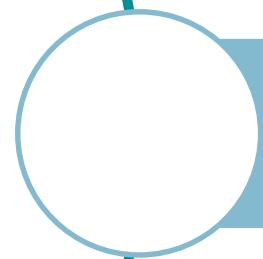
Hasselt

Working together



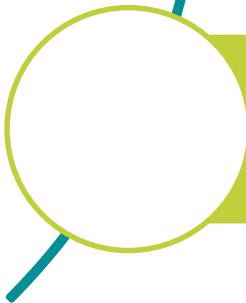
Expertmeetings

- Eindhoven & Atelier Building master



Local governments, cities and towns

- 5 provincial meetings



Talking

- Conversations, thinking together, finding solutions

Residential area

Mixed area

City / town centre

MIX community

Good place to be



Nice cycling without
cycling lanes

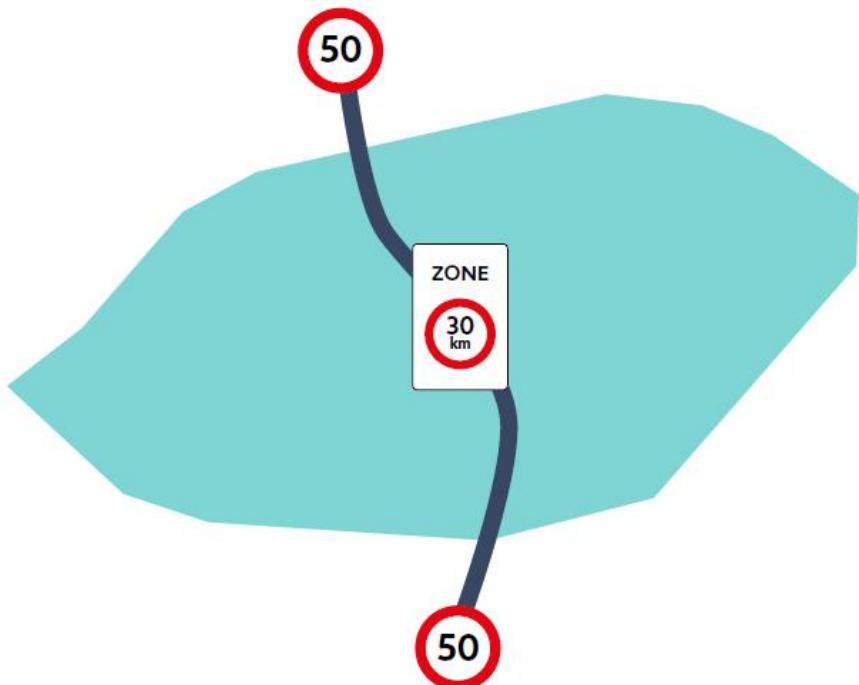
1. Low car-traffic volume and low speed



1. Low car-traffic volume and low speed



1. Low-car traffic volume and low speed



2. Obvious cycle friendly



Poorten



Highly cycleable
Cycling streets

3. Space to meet&greet



4. Nearby services



Mixed
Nearby
Fine mazed

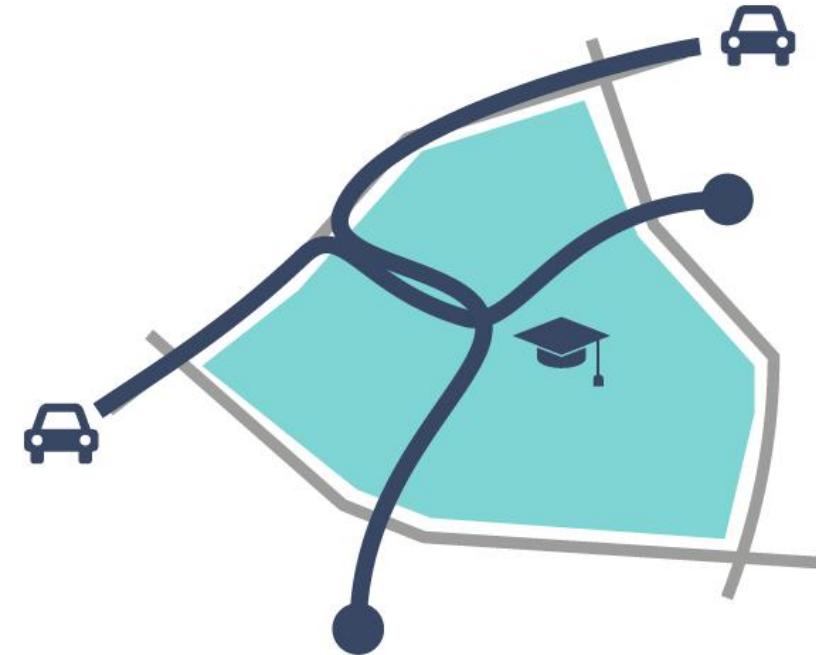
Connected

Eindhoven

5. Connecting networks



5. Connecting networks



Ketenverplaatsingen: twee auto's rijden om door de wijk langs de school



Auto's gaan meteen naar de verbindingsweg
Kinderen stappen en fietsen zelfstandig naar school door de autoluwe wijk

Now let's fix the mix

Basic principles

Set boundaries on living areas
Mix where possible, separate if needed.

Core measures

Introduce a low traffic circulation plan with clear gateways, one-way roads and filters.

Transform in a 30km/h zone.

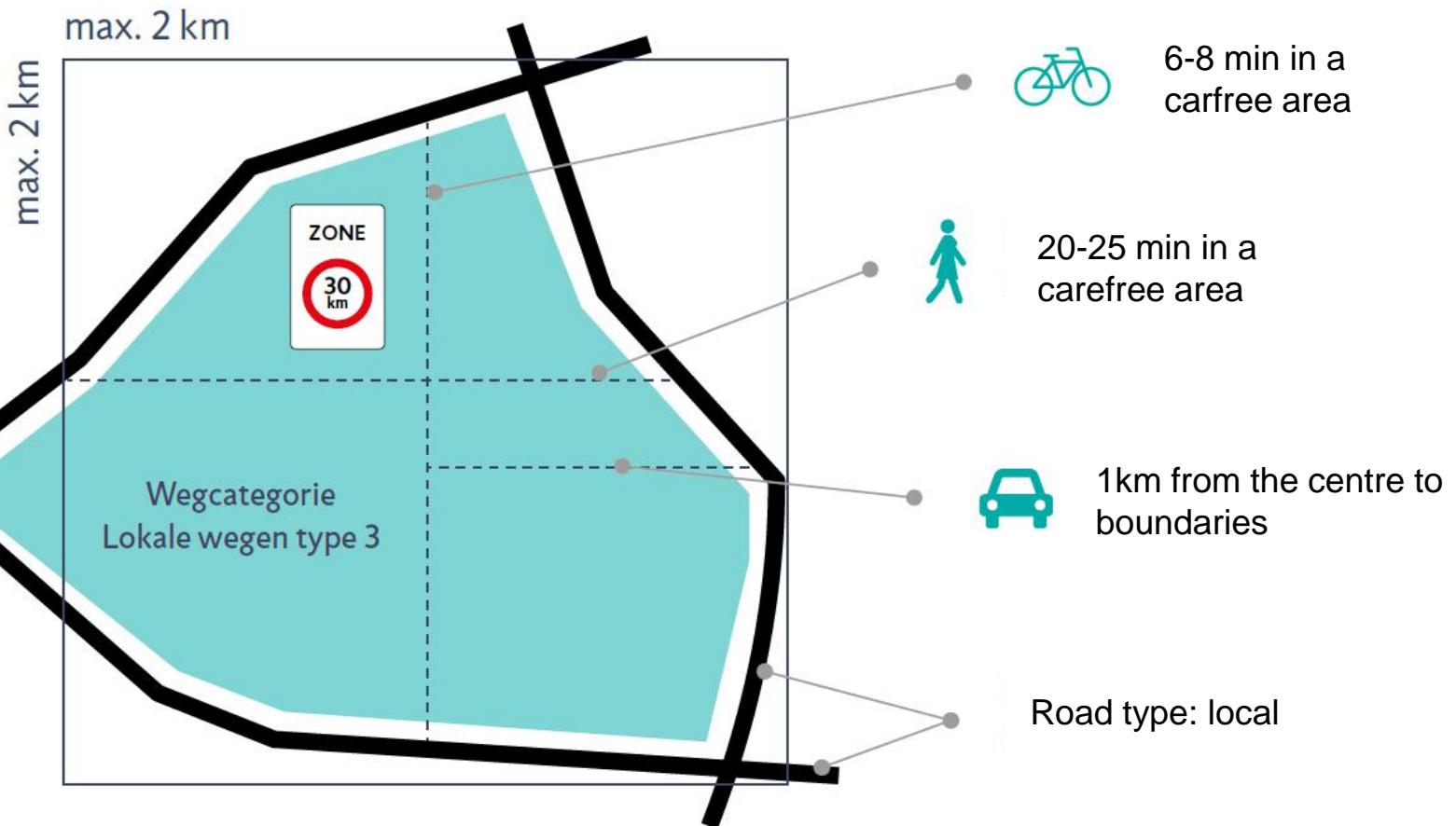
Gains

Link with measures from other policy areas to increase the gains and positive effects



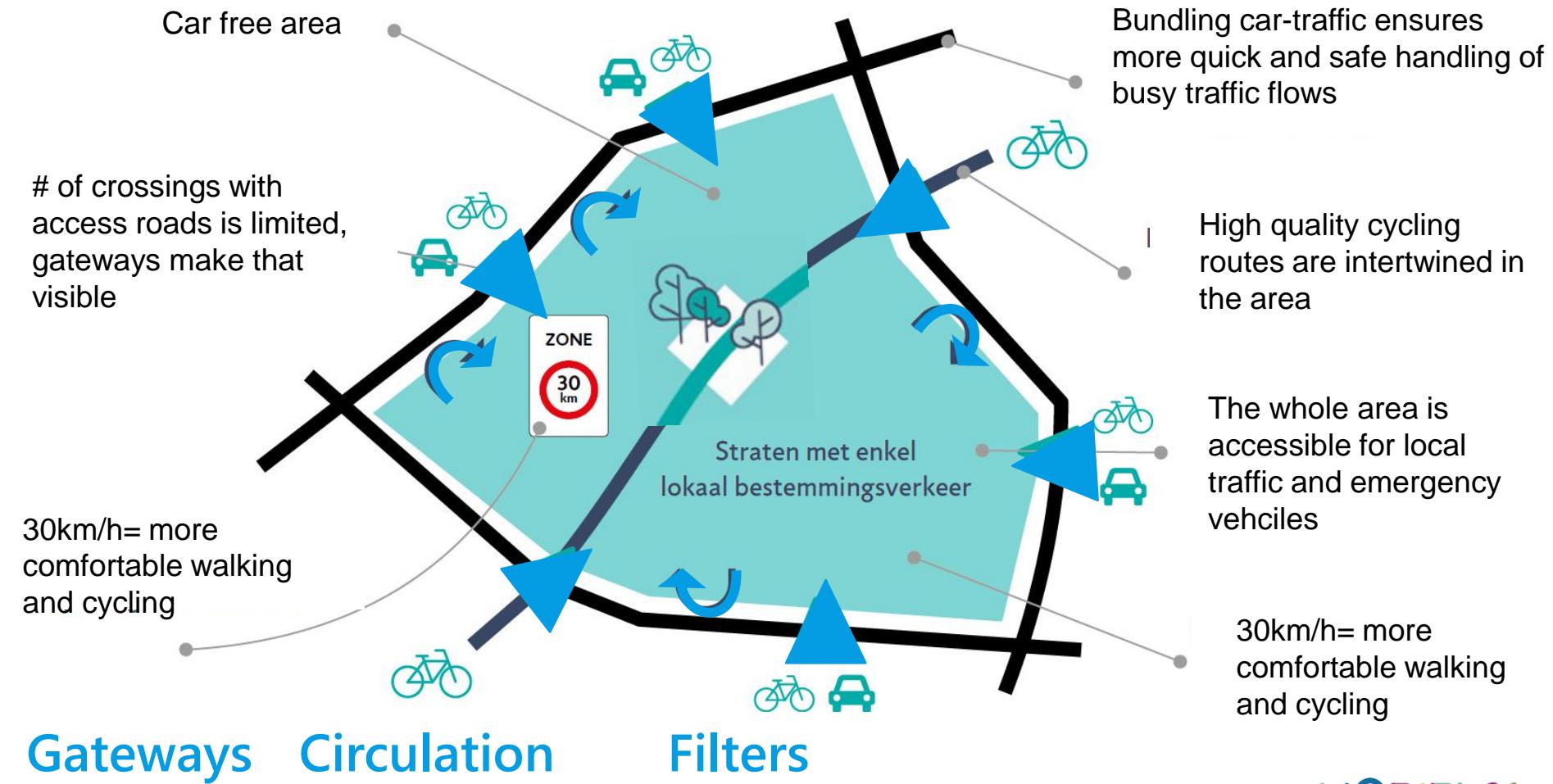
Basic principle 1

Set boundaries on your living areas

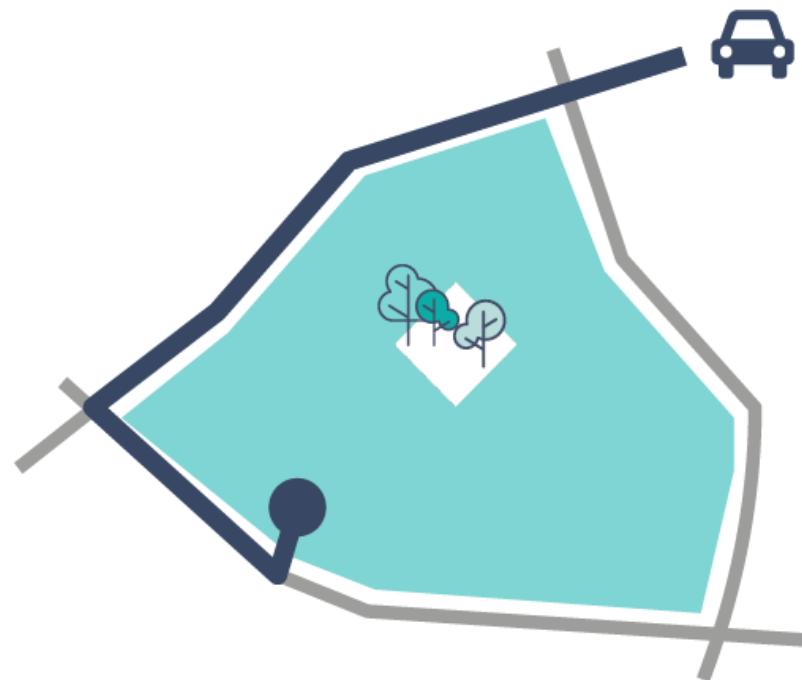
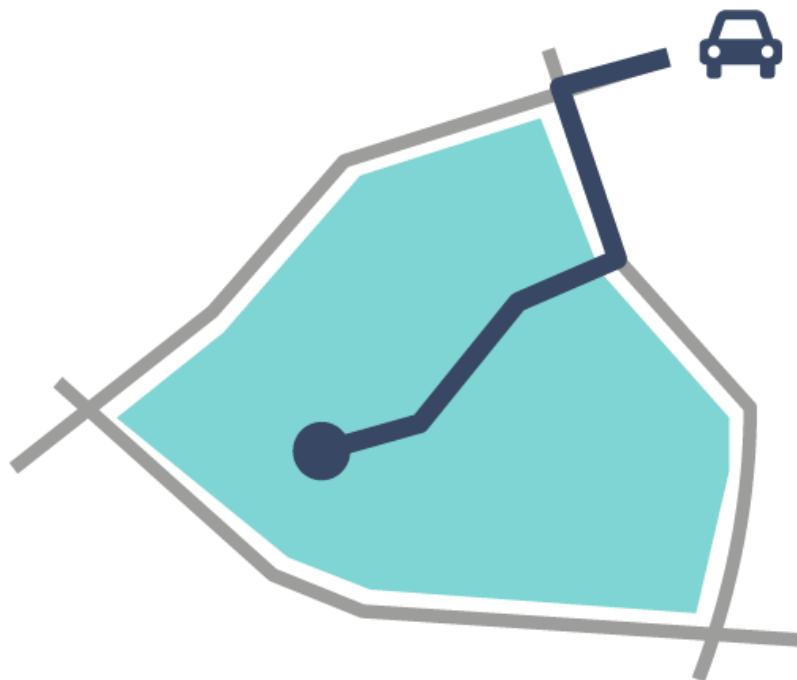


Core measure 1&2

Traffic circulation plan & 30km/h



Traffic circulation

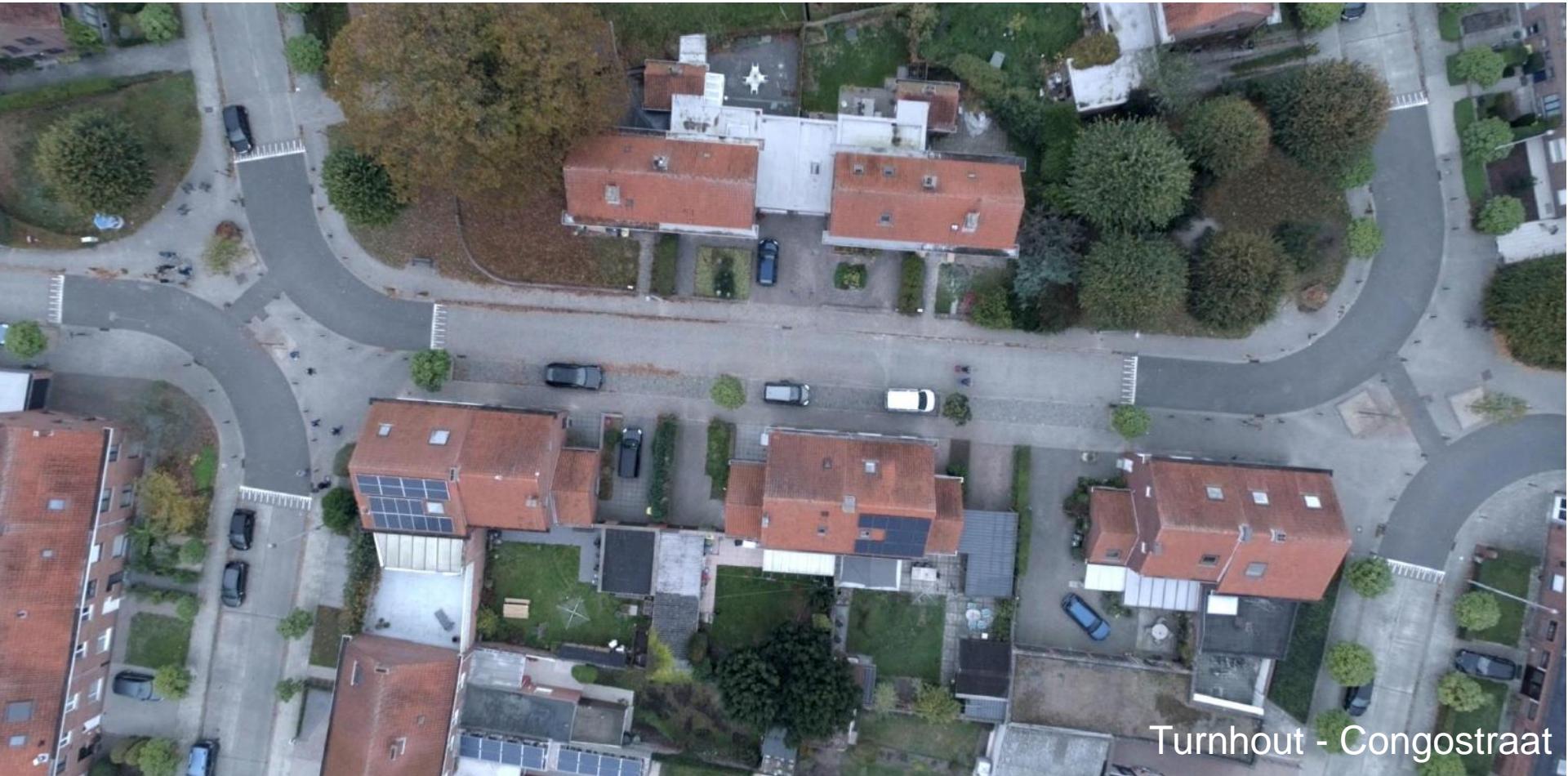


Traffic circulation



A local detour only has limited impact on the longer trajectory for which cars are build and used

Traffic circulation



Turnhout - Congostraat

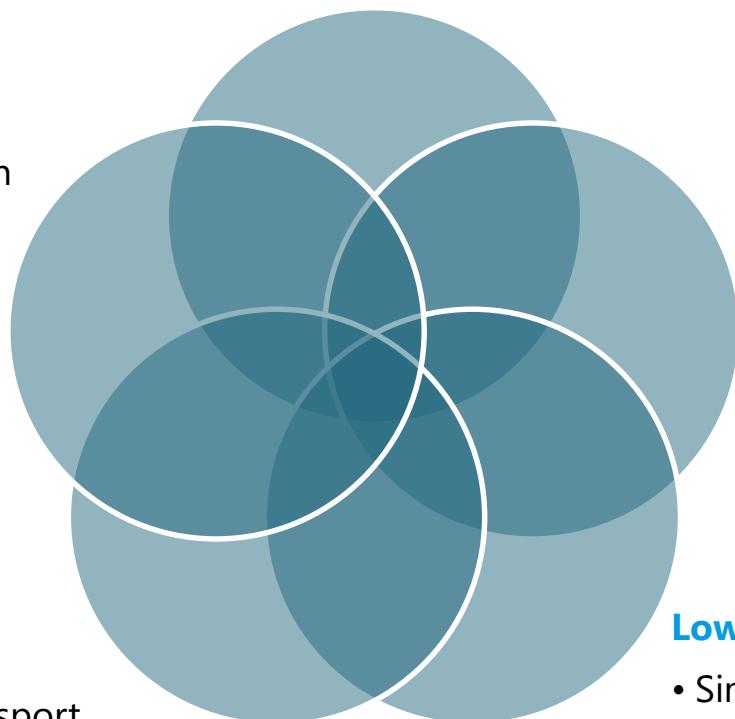
Mobility gains

Traffic safety

- Uniformity = clear and understandable
- Structured & credible

Living quality

- Less pollution and congestion
- More space for social interaction



Accessible

- Social inclusion and transport autonomy

Sustainable mobility

- More walking and cycling
- Mobility services

Lower costs

- Simple measures
- Less (expensive) cycling lanes needed

Social & community gains

Environment & climate

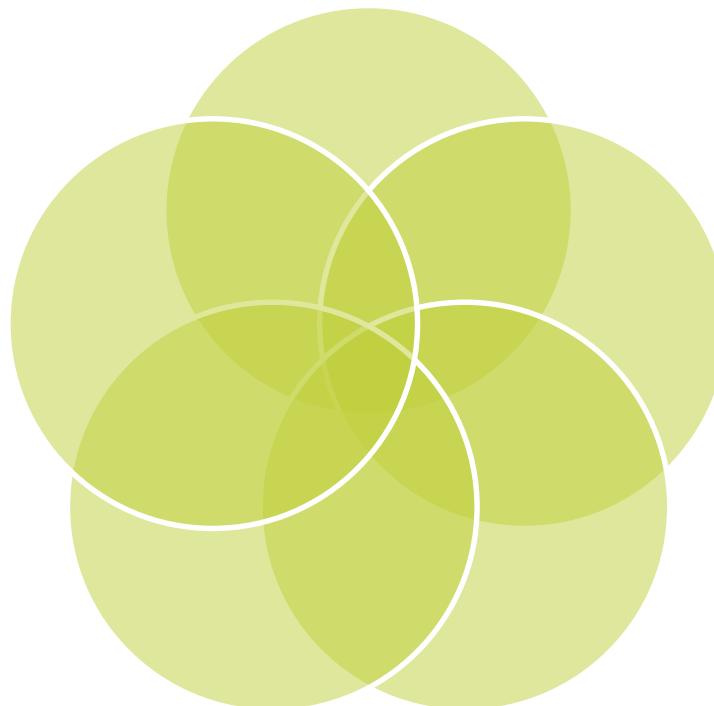
- Less energy use
- More green, less concrete

Public space

- More space to live
- More space to play

Health

- Healthier lifestyles
- Improved air quality



Social interactions

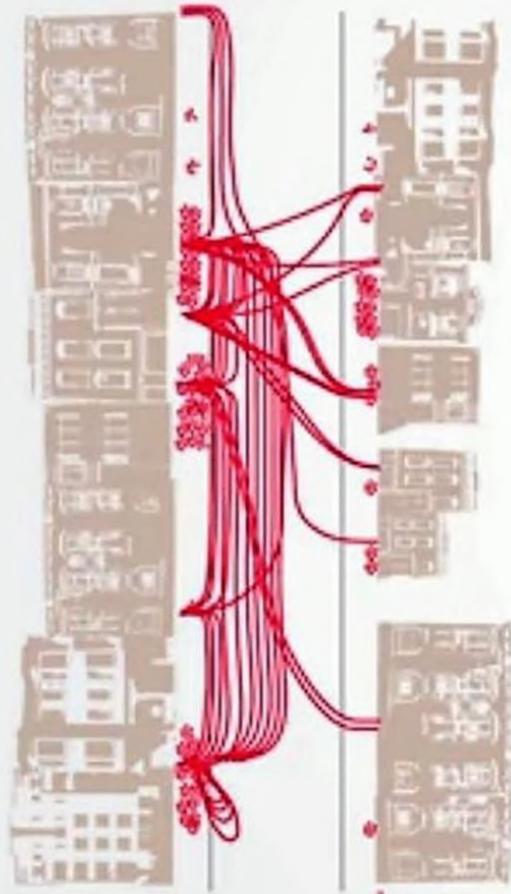
- More interactions
- Increased social safety

Attractive

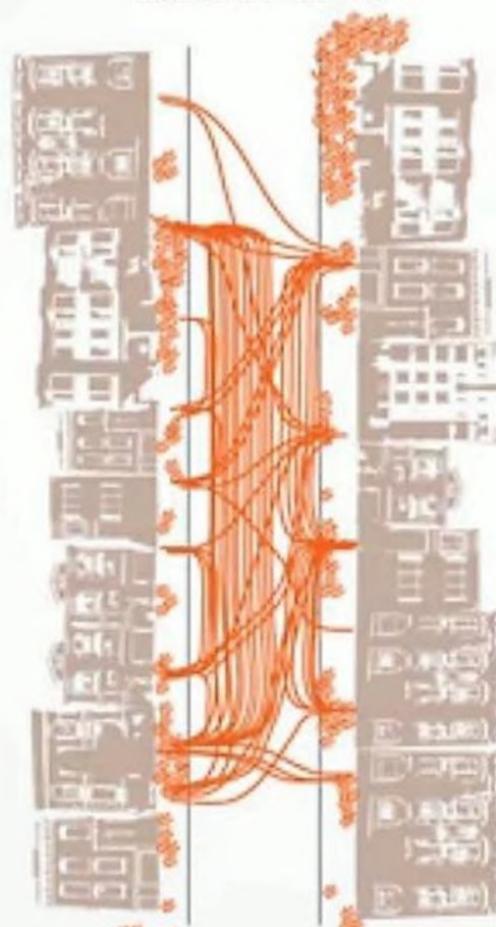
- More families living in the city
- Attractive for retail

Social Interactions on Three Streets - Neighboring and Visiting

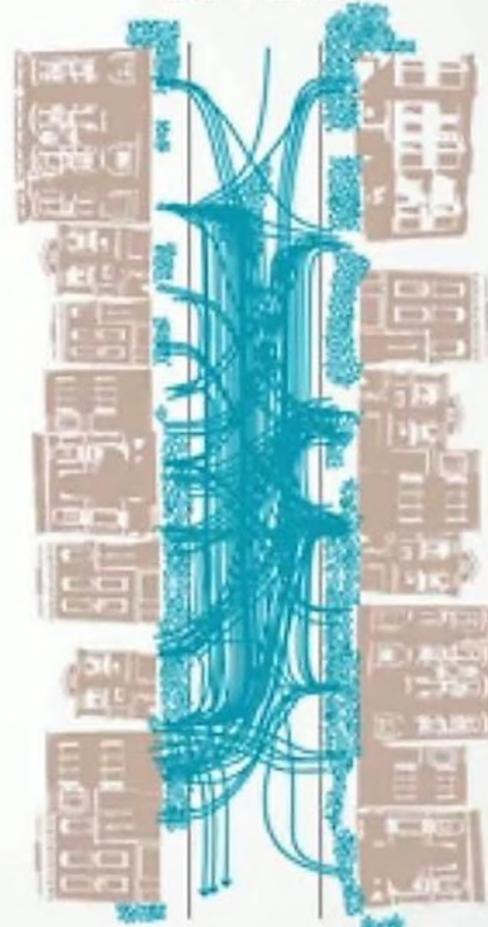
HEAVY TRAFFIC



MODERATE TRAFFIC

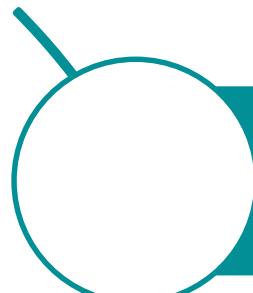


LIGHT TRAFFIC



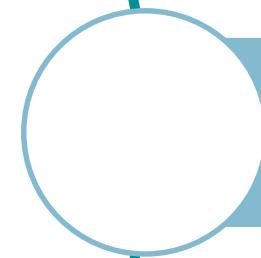
— Where people have friends
△ Where people gather

Building together



MIX the space

- From street to area



MIX policy domains

- Share ownership



MIX participation and co-creation

- Talking, thinking and doing in partnership

Stay in touch!

Fix the mix, offered to you by



Thank you for your attention, let's stay in touch!

Elke.Bossaert@mobiel21.be
www.mobiel21.be

Civic Tech für Veloinfrastruktur

Let's make our Streets
Bikeable

Hannes Heller, Österreichischer Radgipfel 2019, 28.05.2019



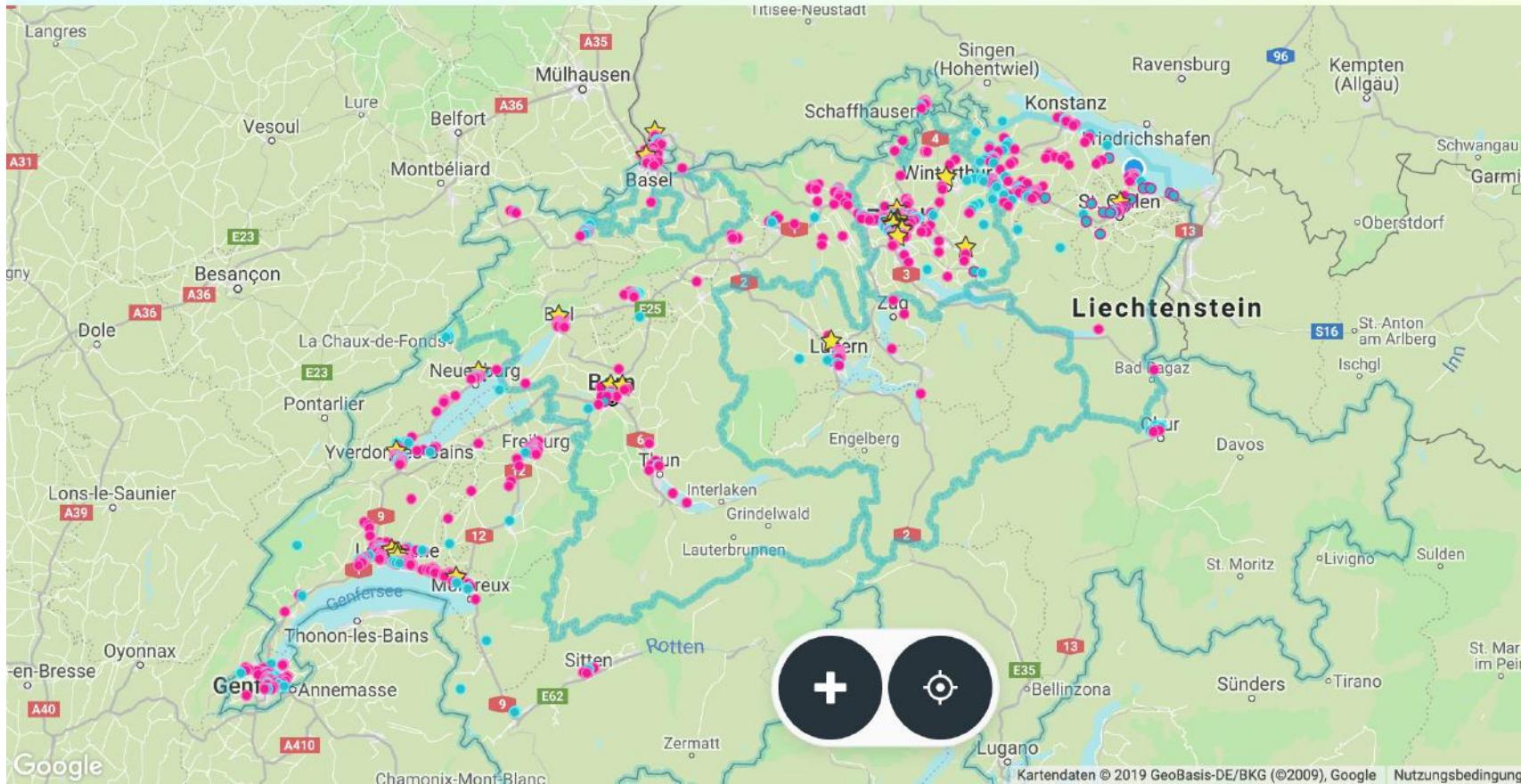




bikeable.ch

- Mär '16 Idee
- Jan '17 Start Umsetzung
- Feb '17 Verein
- Apr '17 Crowdfunding
- Sep '17 Vollversion
- Jun '18 Mehrsprachigkeit
- Jun '18 Partnerschaft Pro Velo CH
- Dez '18 Partnerschaft Clemo.ch
- Mai '19 Launch iOS App

The screenshot shows a map interface with street names like Feldstrasse, Schoneggstrasse, Stihallenstrasse, Rolandstrasse, Militärstrasse, Langstrasse, Lagerstrasse, Europaallee, Hölzerstrasse, Anwandstrasse, Le Migros engelhof, Langstrasse, and Badenerstrasse. A specific location is highlighted with a red dot and a callout box containing the text "VOLL NÖD OK!!!!". Below the box is a small image of a street scene at an intersection. The callout box also contains the text "Hohlstrasse 17" and "Wieso hier kein grünes Licht für Velofahrer?". At the bottom of the screen, there are navigation buttons for "KARTE" and "ALLE BEITRÄGE", along with other standard mobile UI elements.



Bikeable Team



Marc Gschwend



Nora Gailer

Seraina Manser



Elise Acheson

Samuel Alder



Luca Naterop

Tobias Wildi



Alexandros
Coutsicos

Hannes Heller

Civic Tech - Einführung

- “Civic technologies” are tools we use to create, support, or serve public good. (*Civic Hall*)
- Civic Technology steht für technische Konzepte (insbesondere aus dem Bereich der Informationstechnik), die Engagement und Beteiligung von Bürgerinnen und Bürgern fördern. Schwerpunktbereiche bilden dabei die Schaffung von Kommunikationsplattformen, die Verbesserung öffentlicher Infrastrukturen und Technik-zentrische Verbesserungen des Allgemeinwohls. (*Wikipedia*)

Typen:

- Projektpartizipation
- Leitbildpartizipation
- Offene Partizipation
- Mark-A-Spot
- Bürgerhaushalt

Beispiele:

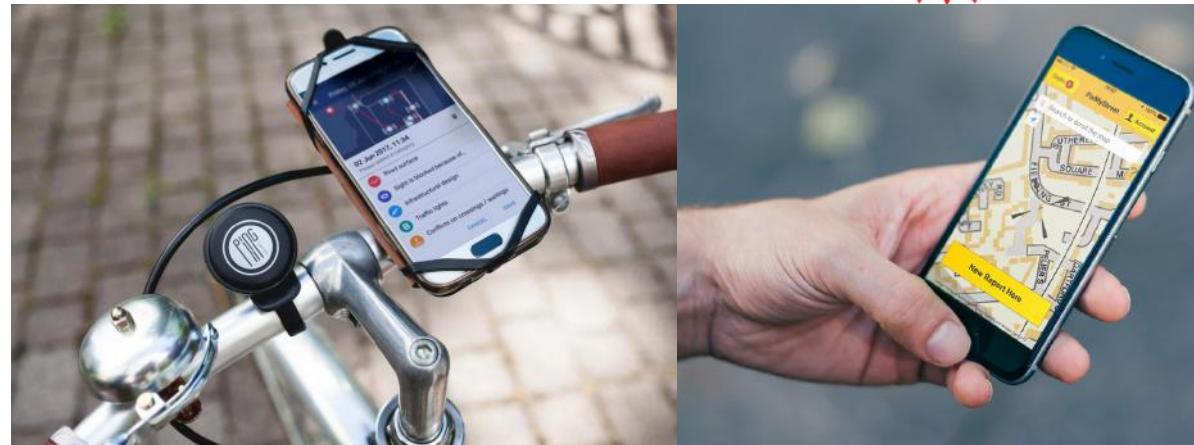
- Leserbriefe
- Kommentarspalte
- Informationsabende
- Workshops
- Soziale Medien
- Petitionsplattformen





Civic Tech: Mark-A-Spot

- Züriwieneu
- Fixmystreet.org
- Nextzürich
- Velophone
- Wheelmap.org
- Ping! If you care
- RADar!



Bildquellen: bikecitizens.org / fixmystreet.org / zuerichwieneu.ch

STAKEHOLDERMAP AM BEISPIEL VON BIKEABLE.CH



Chancen

- Verbesserungen erzielen
 - Druck erhöhen
 - Bewusstsein fördern
 - Austausch & Vernetzung
- Beteiligung ermöglichen
- Kreis der Beteiligten erweitern
 - Zentralisierung
 - Zeitlich und räumlich
 - Zugangshürden abbauen
- Kommunikation zwischen Experten und Laien
 - Unzugenügende Visualisierungsinstrumente

Risiken / Hürden

- Aufwand
- Anzahl Kanäle
- Erwartungshaltung
- Informationsqualität
- Missbrauch
- Komplexität
- Politischer Druck vs. Werkzeug





Tools

- Social Media Integration
- Emaildienste
 - Kommentare
 - Spots auf Interessensgebiet
 - Periodizität nach Wunsch
- Kommentarfunktion
 - Statusupdate
 - Verlinkung
 - Weitere Informationen
 - Fragen & Antworten
- iFrame
 - Einbindung auf anderen Webseiten
 - Filterung möglich
 - Nutzung für Referenzen



● Geplant

- Notification-Center
- #-Tags (Kategorisierung)
- Personalisierte Interessensgebiete
- Android App

Beispiel



Courlis
1.8.2018

Route de Sullens 2, 1030 Bussigny, Suisse

Vaud

Foto hochladen







Besten Dank für Ihre
Aufmerksamkeit!

Kontakt:
hannes@bikeable.ch

Quellen:

Neuhaus, Fabian, Matthias Drilling, and Hans-Jörg Stark.
"ATLAS ePartizipation: demokratische Stadtentwicklung." (2015).

