



BIKEVALLEY

Cycle Highway Vision

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Cycling the fast lane

Bike Valley in a nutshell



- Network Organisation °2013 door Ridley, BioRacer, Lazer, Voxdale,...
- 70 members => FOCUS on INNOVATION
- BV Incubator with 10 companies
- BV RACE: Cycling Wind tunnel
- BV RIDE: Tourism, Mobility, eg CHIPS-project

CHIPS

Cycle Highway Vision

Environment – Dream – Success formula in 2030

Cycle Highway Vision 2030

ENVIRONMENT – DREAM – SUCCESS FORMULA

(1) ENVIRONMENT in 2030:

- By 2030 the demand for mobility products (cars, bike, public transport) will be much higher than in 2018 by the introduction of low-entry try self-driving transport modes and shared modes.
- Streets will contain a majority of electric cars since the introduction of zero or low-emission zones in major cities.
- Cars will be individual but also shared to guarantee immediate availability.
- E-bikes and Speedelecs are the main transport mode in cycling streets and cycle highways.

Cycle Highway Vision 2030

ENVIRONMENT – DREAM – SUCCESS FORMULA

(2) DREAM for 2030: see picture Antwerp

- Zero-emission zones in all cities
 - Healthy Cycling streets and Cycle Highways up to City Centers.
 - 60% of all people live within 3 kilometers of cycle highways
 - Cycle highways are the backbone of a broader cycling network
 - 80% of all Cycle Highways reach level 4 for the CH Assessment
- Criteria: speed, safety and uninterrupted character
- Cities have large Mobility HUBS at 2-15km from the City Center
 - Self-Driving Bikes circulating on CHs from Mobile HUBS to City Centers
 - Taxation system for mobility is SPACE and WEIGHT related.

Cycle Highway Vision 2030

ENVIRONMENT – DREAM – SUCCESS FORMULA

(3) SUCCESS FORMULA:

Cycle Highways are in 2030 the number one backbone of urban mobility since they have the least spatial impact and create healthier and more social cities.

USP's of CYCLE HIGHWAYS:

- LEAST SPACE: Throughput for the same street width: Cycle Highway = **4x Car Highway** and **Parking Space = 10x less !**
- EXTENDING the RANGE of CYCLING where journey-time is shorter than cars
- NOT COMPLICATED RESILIENT INFRASTRUCTURE leading to reliable journey-times

Cycle Highway Vision 2030

ENVIRONMENT – DREAM – SUCCESS FORMULA

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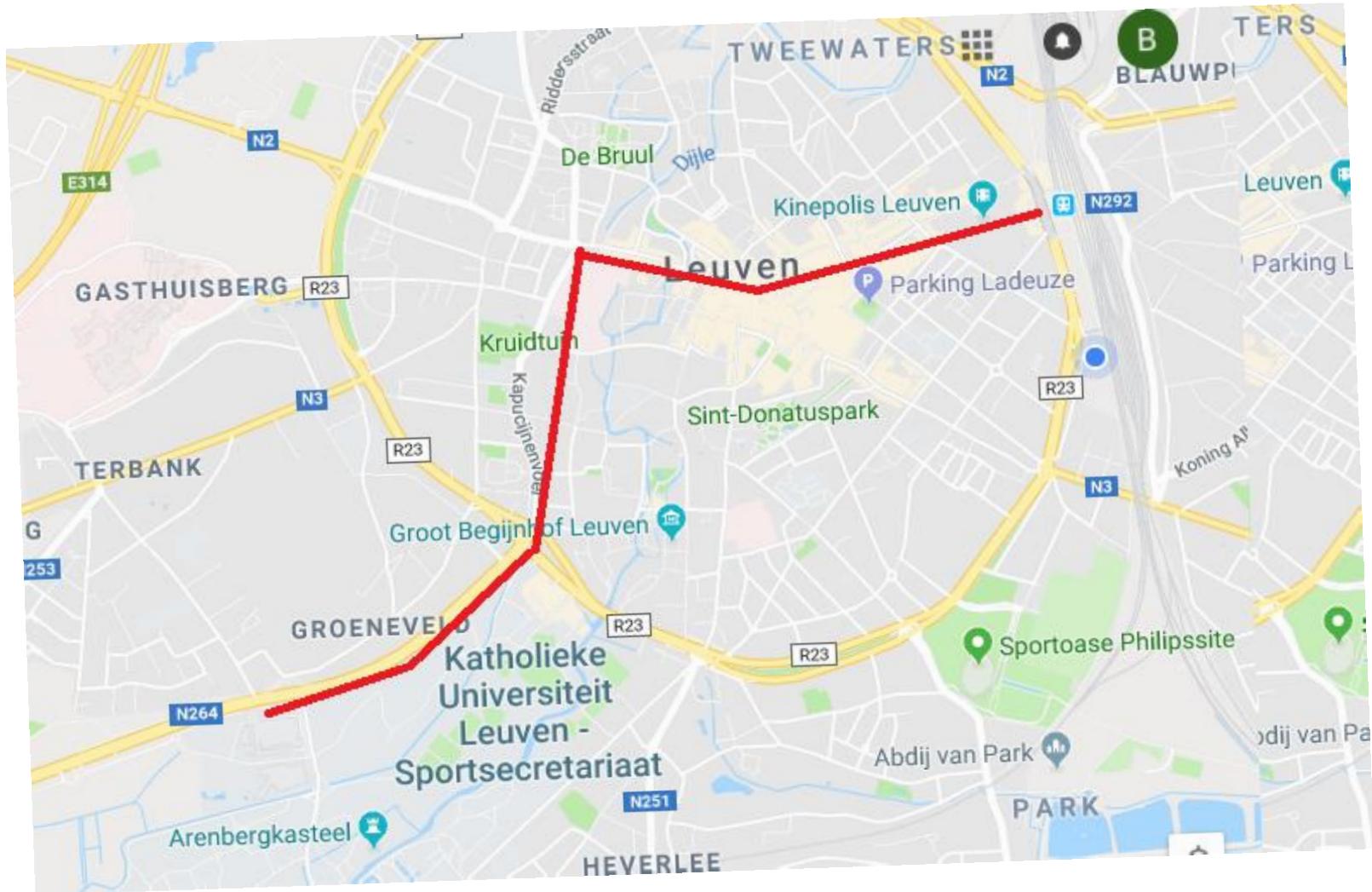
USP's of CYCLING:

- AFFORDABLE and DEMOCRATIC; most democratic mobility product; speedelec's price will decrease to less than 1500€
- LOWEST ENERGY and COST/km: no energy needed or f.e. 250W speedelec engine versus 50kW (electric) car engine: 200x efficiency
- HEALTHIER
- FLEXIBILITY; door-to-door, freedom (real freedom vs cocoon in SelfDrivingCar-SDC), close-to-nature
- RELIABLE JOURNEY-TIME

SELF-DRIVING BIKES (TRIKES)



CONNECTING IMEC – STATION LEUVEN



VISION ON SUSTAINABILITY

USE RE-USABLE COMPONENTS f.e. SKELLET => CO2 MIN 80% !



DISCUSSION:

How do you see cycle highways in 2030-2040?

- 1) The environment
- 2) Dream
- 3) Success formule

www.cyclehighways.eu

www.bikevalley.be



Questions ?