STORIES FROM 1001 PATHS

(OVER DYBBØLSBRO)

Michael Szell, ITU, 2023-09-20
2022. CPH.
2022. CPH. BIKE.
2022. CPH. BIKE. DYBBØLSBRO. GREAT!
The Dybbølsbro intersection is infamous

Local Round-Up: City planners rethink problematic Fisketorvet junction – again!
We trained a detection algorithm for cyclists (YOLO)
11,553 cyclist trajectories, Wednesday 7:00-8:00
We separated trajectories into path-clusters

A

n=733

N→S

B

n=466

C

Mostly intended

N→S.1

n=29

E

Not intended • Uninterrupted travel

N→S.5

n=3

G

Not intended • Uninterrupted travel

N→S.12

n=56

D

Not intended • No queuing space

N→S.3

n=25

F

Not intended • Time savings

N→S.6

n=1

H

Not intended • Confusion

N→S.13
Only 64% are "mostly intended"
Cyclists prefer uninterrupted travel, which the intersection fails to provide.
TRANSPORT FINDINGS

Computational Desire Line Analysis of Cyclists on the Dybbølsbro Intersection in Copenhagen

Simon Martin Breum¹, Bojan Kostic¹, Michael Szell¹,²,³ a
The 2022 re-design

https://www.kk.dk/nyheder/ny-utraditionel-loesning-paa-vej-ved-dyboelsbro
Fixed issue: Diagonal lane provides uninterrupted N→S travel
New issue: S→W travel over diagonal
For pre/post analysis, we should re-run our study now
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The bigger issue..
DENMARK IS A CYCLING NATION

Cycling: 3bn DKK

New roads: 64bn DKK
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DENMARK IS A CYCLING NATION

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New roads: 64bn DKK
MAKE YOURSELF HEARD!

blivhoert.kk.dk
Our goal: Data-driven tools to help sustainable urban planning

Data-driven strategies for optimal bicycle network growth

Luis Guillermo Natera Ormaza, Federico Battiston, Gerardo Iriñez and Michael Szell

Growing urban bicycle networks

Michael Szell, Sayed Mian, Tyler Perman, Gurab Ghoshal and Roberta Sinatra

BikeDNA: A tool for bicycle infrastructure data and network assessment

Ane Rahbek Vierna, Anastassia Vybornova and Michael Szell

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Simon Martin Brøum, Bojan Kostić and Michael Szell