



Gemeente Amsterdam

Amsterdam Bike City

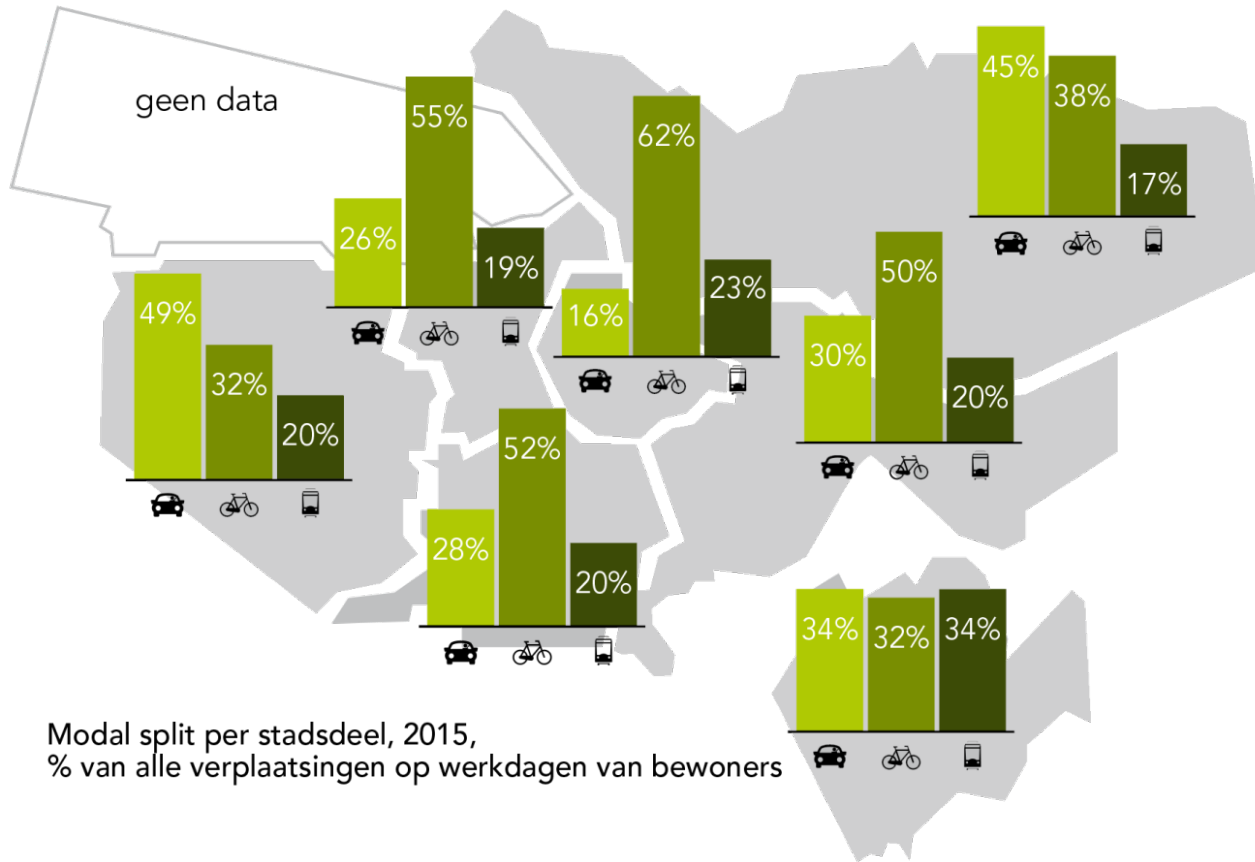
Junction Design in a compact city



Kees Vernooij
Sjoerd Linders



Modal split (car-bike-public transport)





Sustainable traffic system



30 km/hour

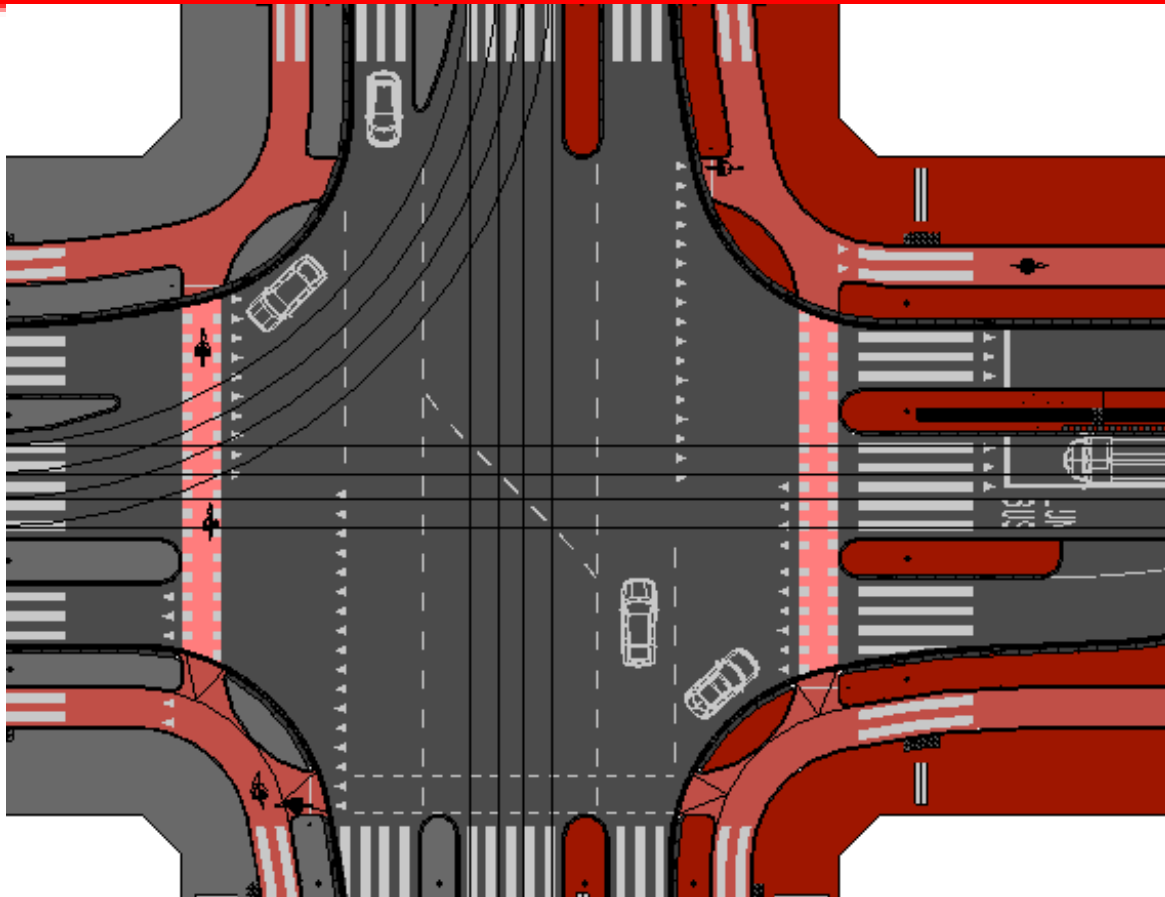


50 km/hour

<https://maps.amsterdam.nl/30km/?LANG=nl>

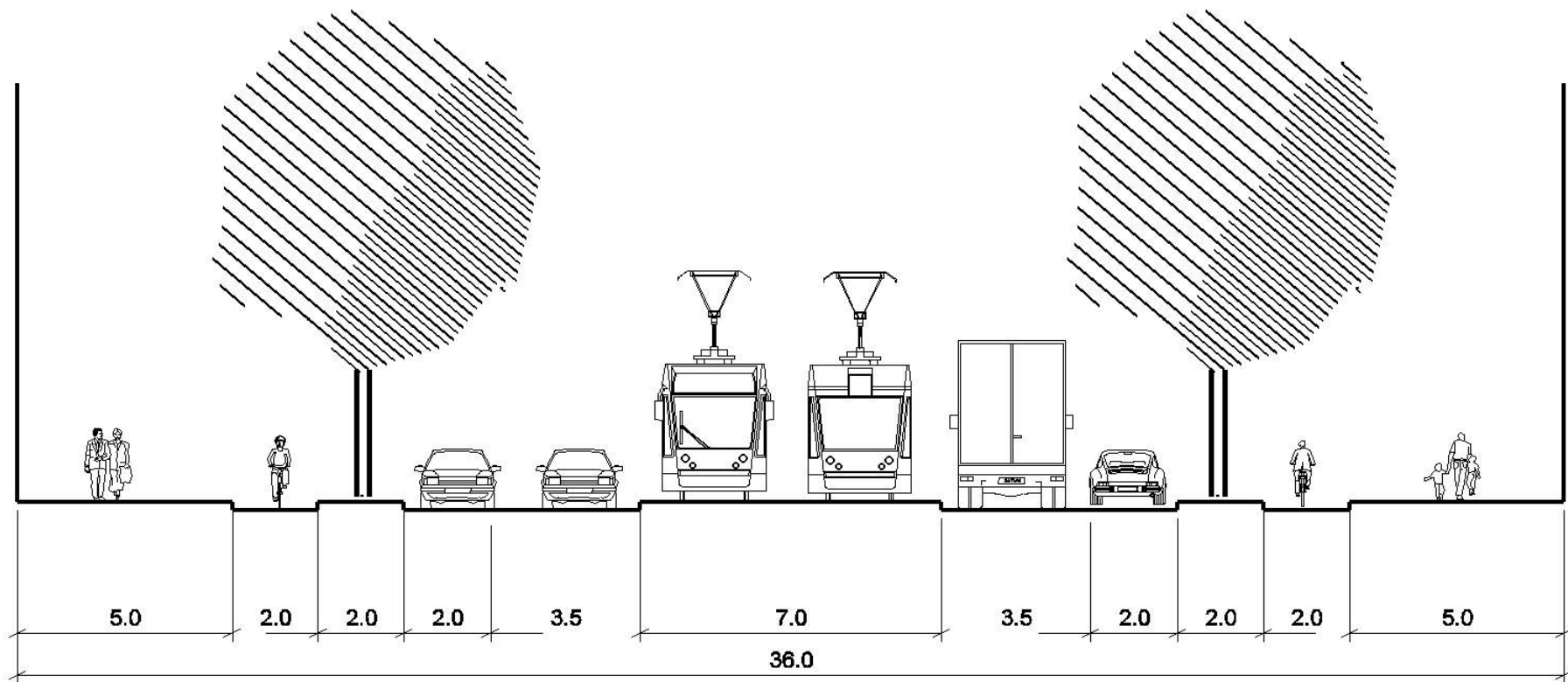


Sustainable traffic system



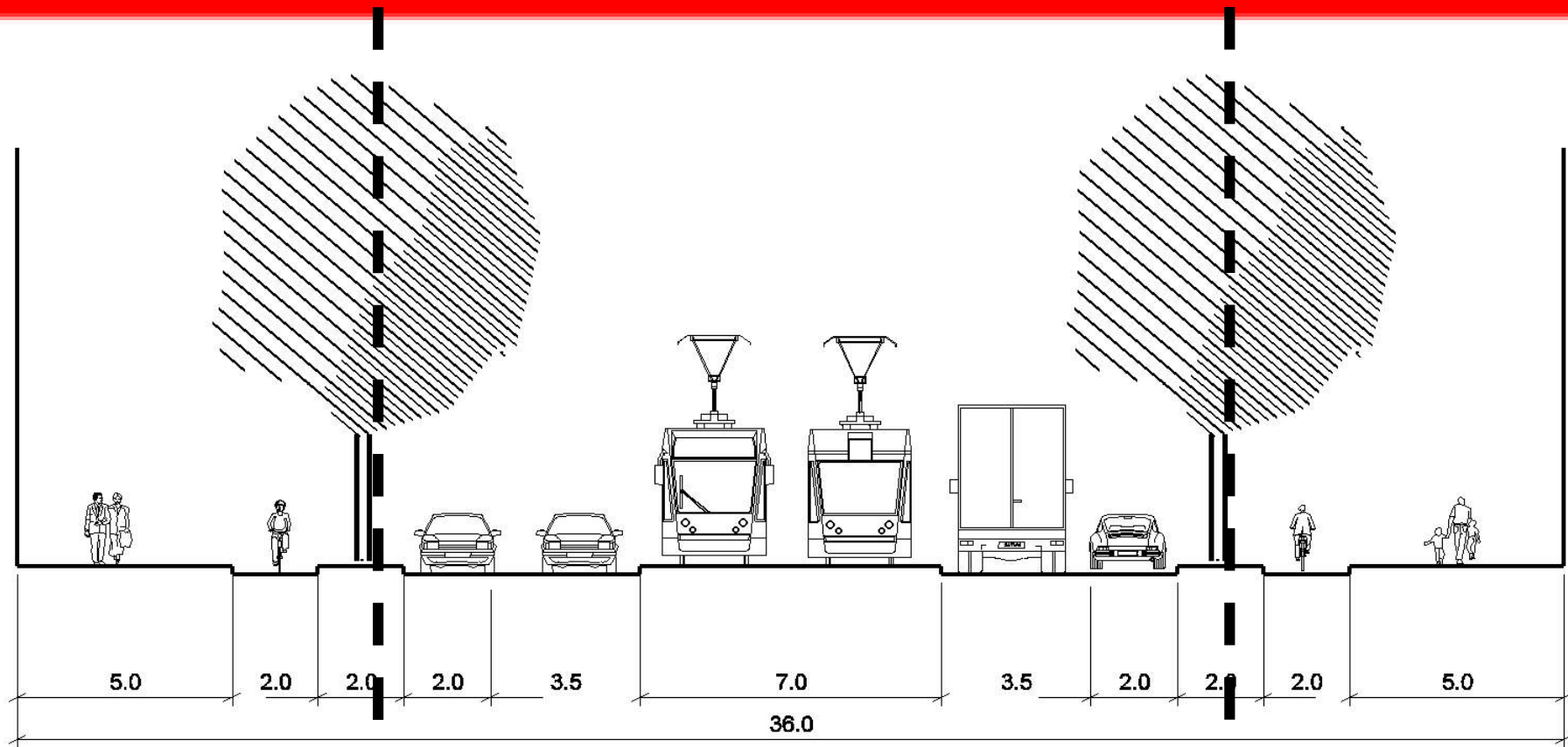


Ideal situation





Is not enough if street is max. 20 m wide





Conflicts



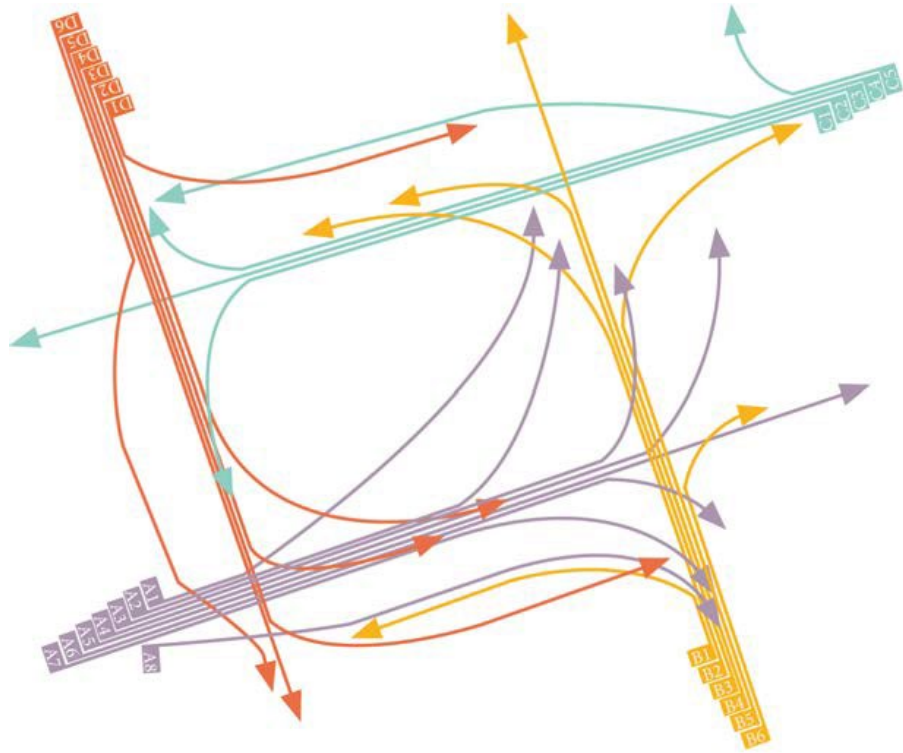
Congestion



From 2014 - new way of intersection design

- **Bicycle traffic jams**
- **Political will to work on capacity & flow**
- **More analytical before (and after)**
- **Design sessions**
- **To increase flow & capacity for bicyclists, while not disturbing other modes**

Analyses of desire lines & volumes



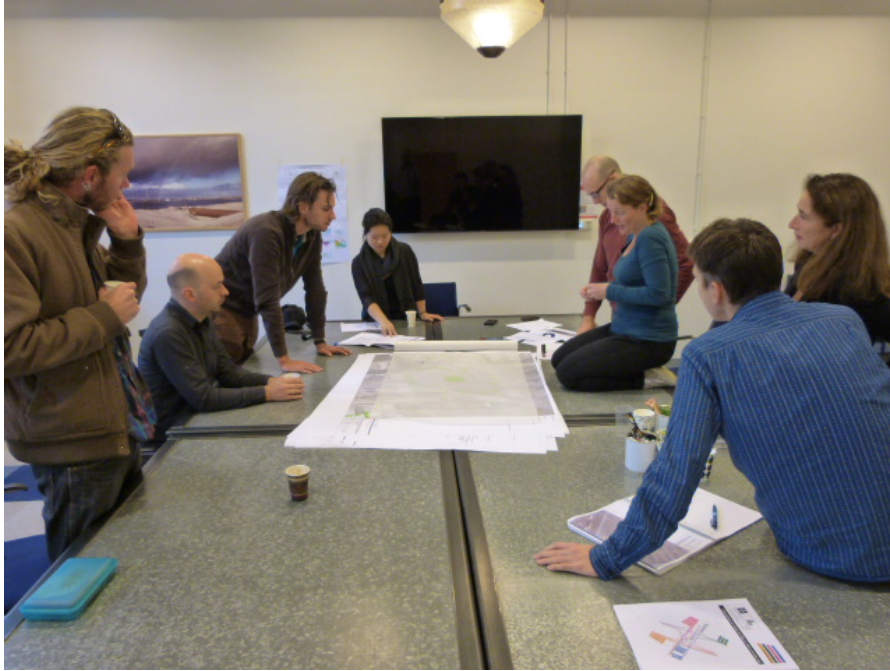
Choreography of an intersection



Film footage to analyse behavior

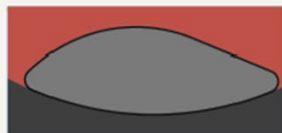


Design sessions of junctions

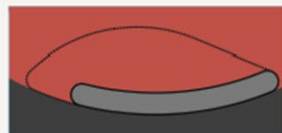




Small measures



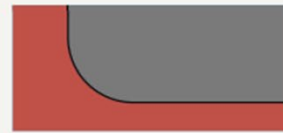
6a-b



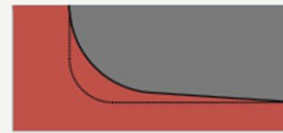
6c-d



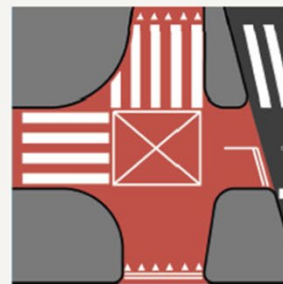
6e-f



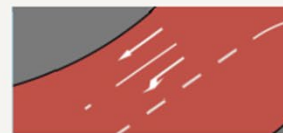
6g-h



6i-j



6k-l



TOOLBOX FIETSVRIENDELIJKE KRUISPUNTEN IN AMSTERDAM

MAATREGELEN TER VERBETERING
VAN CAPACITEIT EN DOORSTROMING
OP (GEREGELDE) KRUISPUNTEN

RVE RUIMTE & DUURZAAMHEID
OPSTELLER: K. VERNOOIJ



UPDATE TOOLBOX FIETSVRIENDELIJKE KRUISPUNTEN IN AMSTERDAM
CONCEPT - versie februari 2017

1

Toolbox Bike friendly Junctions

- Checklist of measures to improve capacity & flow on traffic regulated crossings
- Every optimization is customization, every junction needs different approach
- Living document
- All in combination with measures in traffic lights program

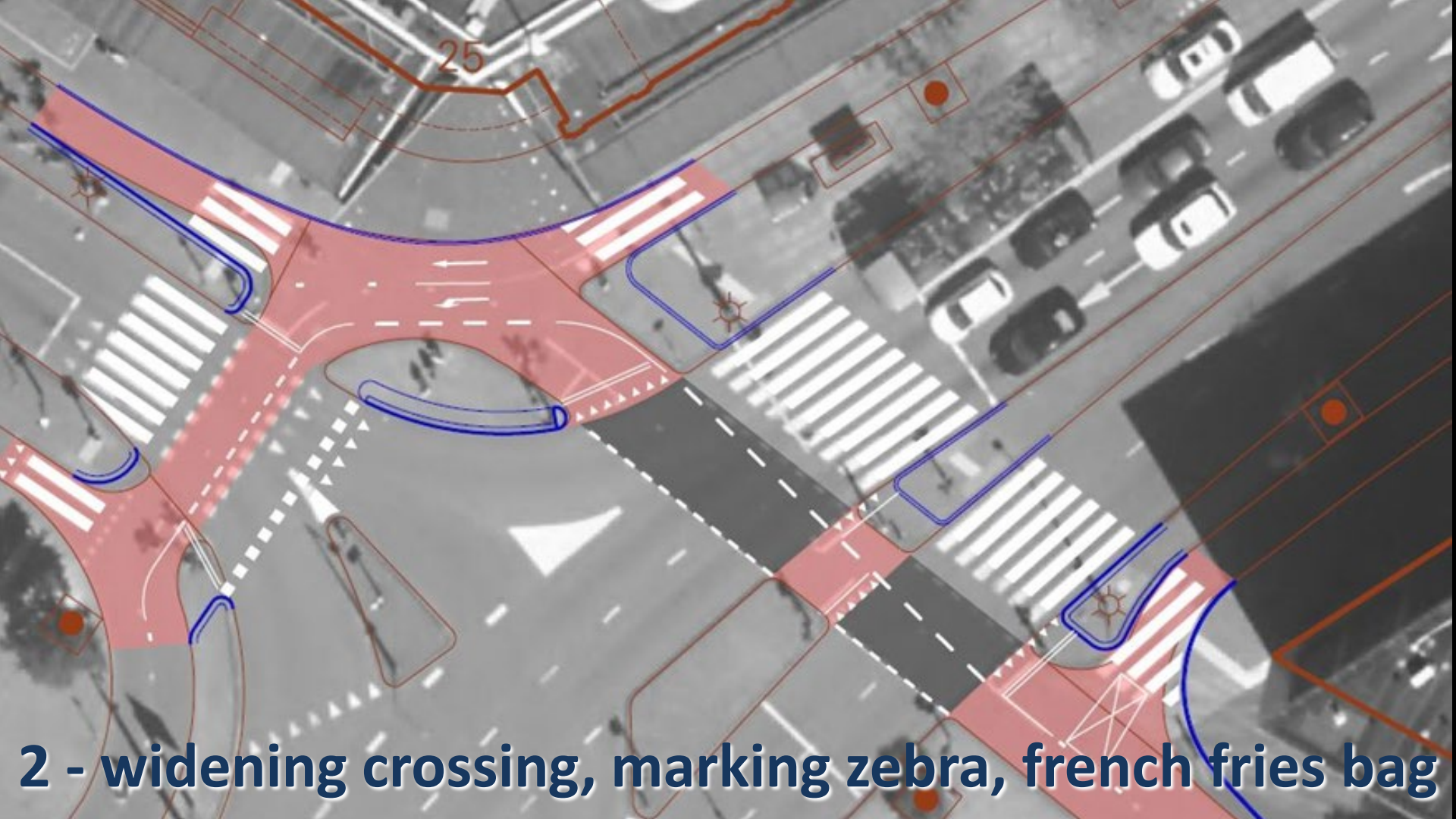




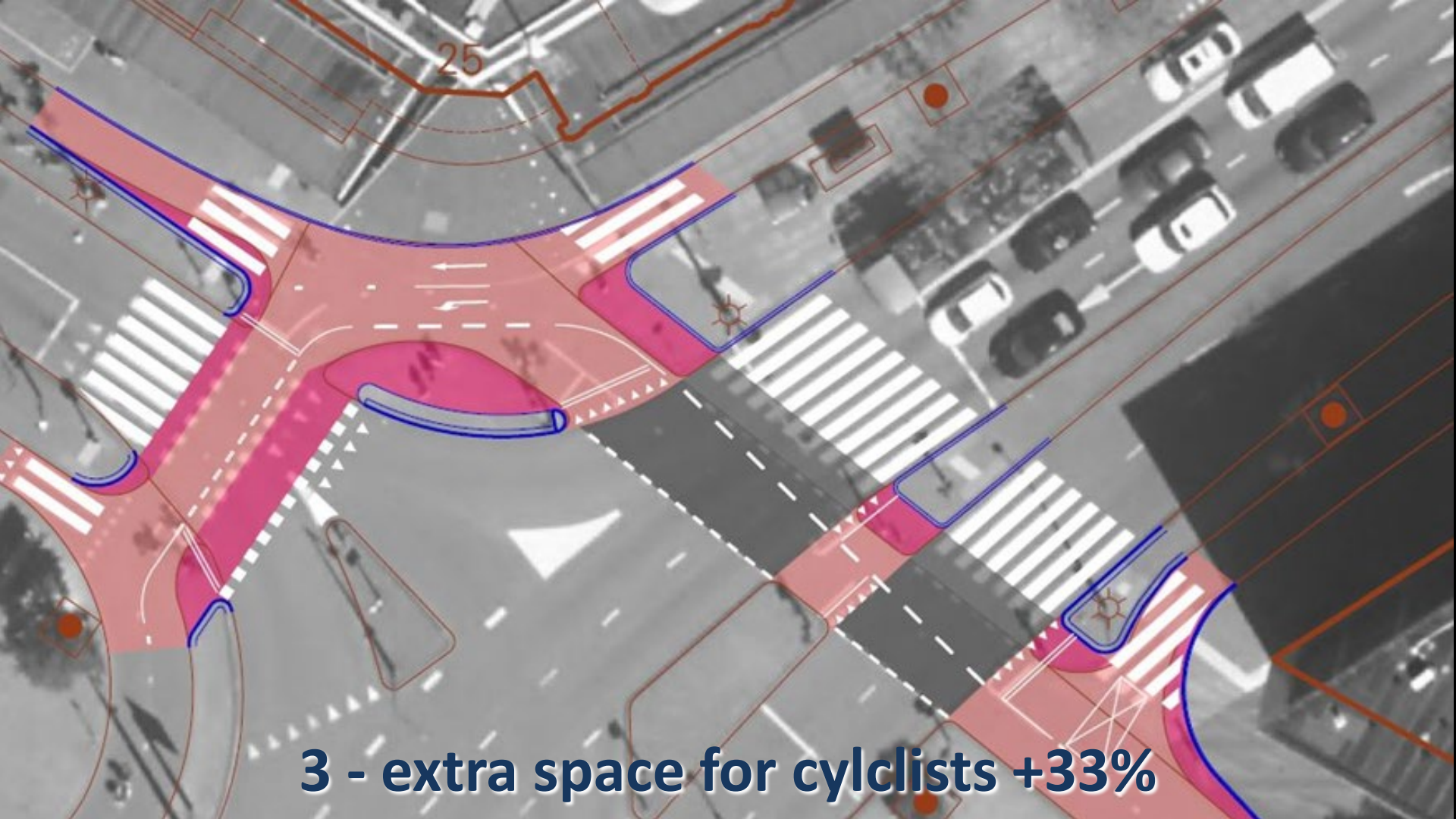
0 - Start (limited space for cyclists)



1 – reduce island (“banana”), adjust curve radius



2 - widening crossing, marking zebra, french fries bag



3 - extra space for cyclists +33%



Practise:

Mr. Visserplein

[vimeo](#)



Results



More capacity for waiting cyclists

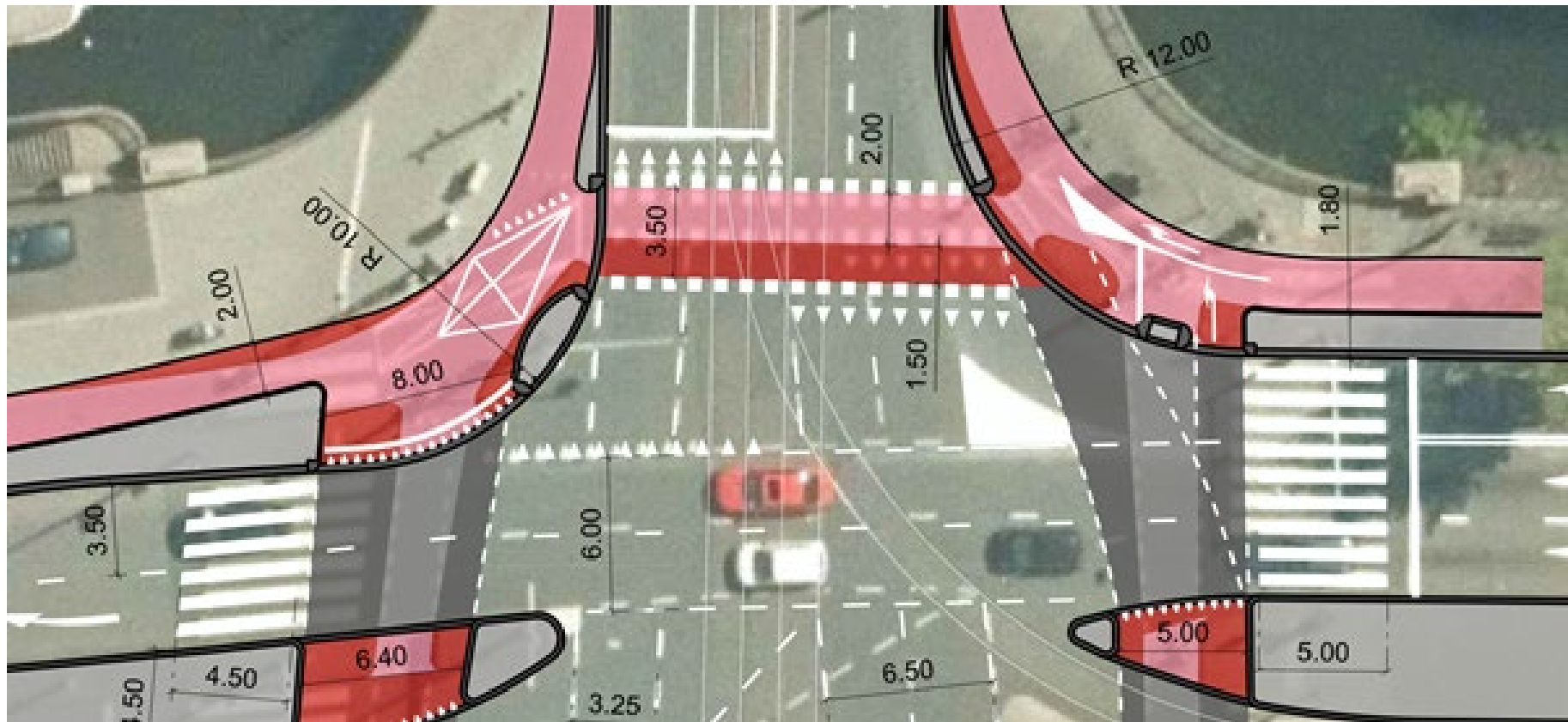
More and faster flow of cycle traffic
on crossing

Found it in 'lost' space

Behaviour translated into the design



Difficulty: the left turn & signal control





Difficulty: the left turn & signal control





All sorts of cyclists way back then....





All sorts of cyclists... revisited



Last improvements -> next step?



Future junction design for cyclists

Frederiksplein

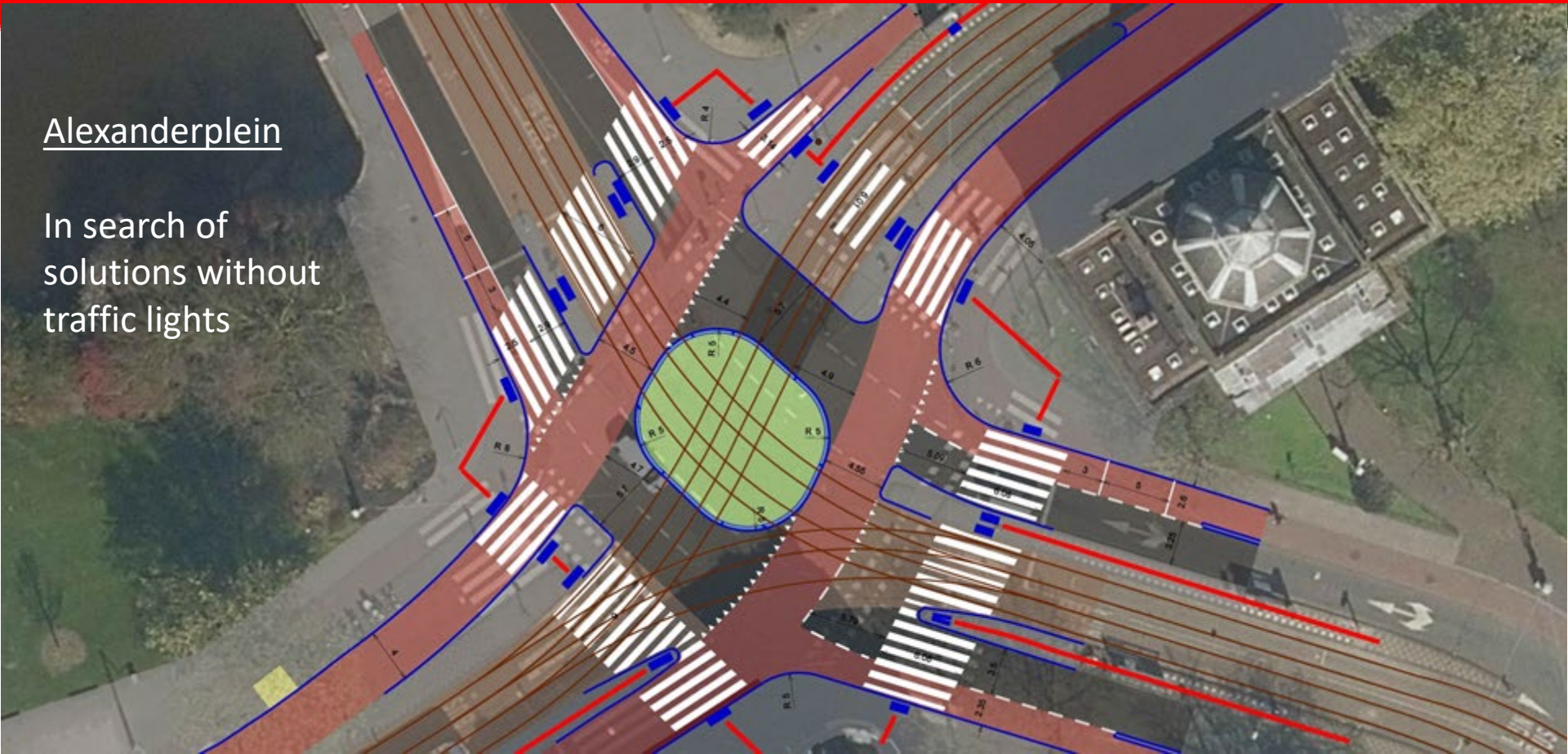
Possible 8 oneway-bicycle street lanes coming together at 1 junction...



Future junction design for cyclists

Alexanderplein

In search of solutions without traffic lights



Internetlinks

02 | 2018

Giving way to cyclists

met Nederlandse samenvatting
Fietsters voorrang

Plan Amsterdam



Cyclists the lifeblood of Amsterdam

Bicycle Mayor: 'proud of our cycling culture'

Cycle-friendly design in the compact city



Ontwerpen naar gebruik (toolbox fietsvriendelijke kruispunten)

Algemeen Mr. Visserplein Berlagebrug Dageraadsbrug

Algemeen

Het is dringen op het fietspad. Vooral in de grote steden moeten ontwerpers steeds creatiever met de beperkte ruimte omgaan. Is er nog ruimte te vinden? en zo ja wat levert dat dan op voor de fiets?



NEW Storymap! Work in progress...