



**MOBYCON**

PLAN • DESIGN • LEARN

# TAMING THE ARTERIAL

How to build safe, low speed, high volume streets



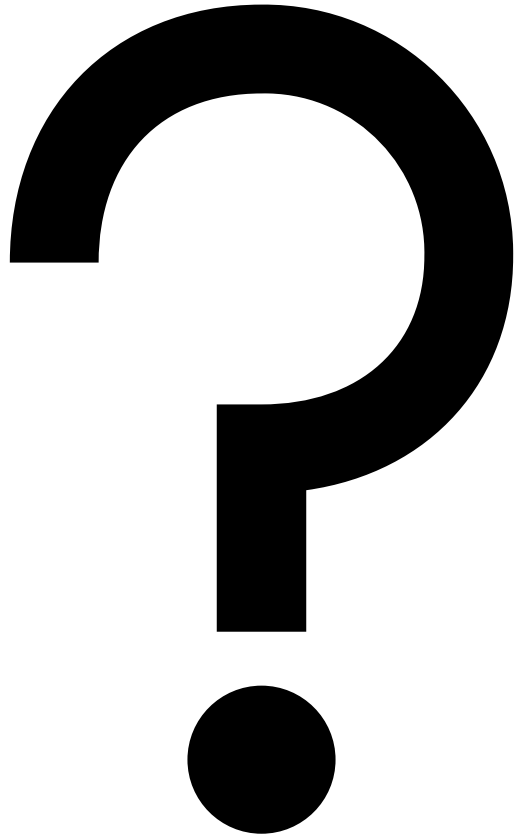
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## WE NEED TO INNOVATE!

- Engineers need to think outside the design manual
- We need to bring back human-centred design
- Think of how a human behaves in our street environment.





## NEW TOOL

- Low speed-High capacity street
- Separated cycle infrastructure
- Fewer emissions
- More green space
- Water infiltration
- Parking





## SLOW AND STEADY

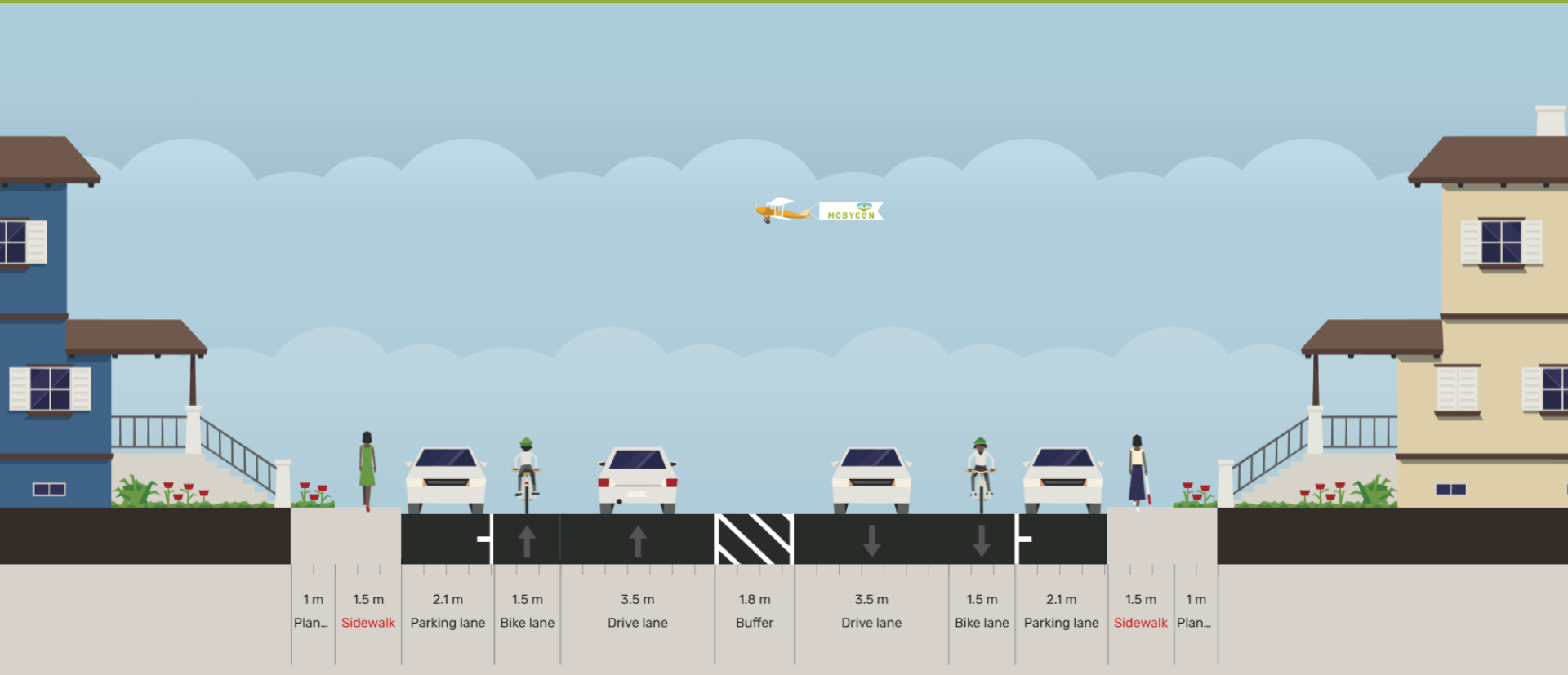
- A narrow arterial.
- Priority street @ 40 km/h
- No overtaking
- Wide median strip
- Slow speed at intersections
- Separated bicycle facilities



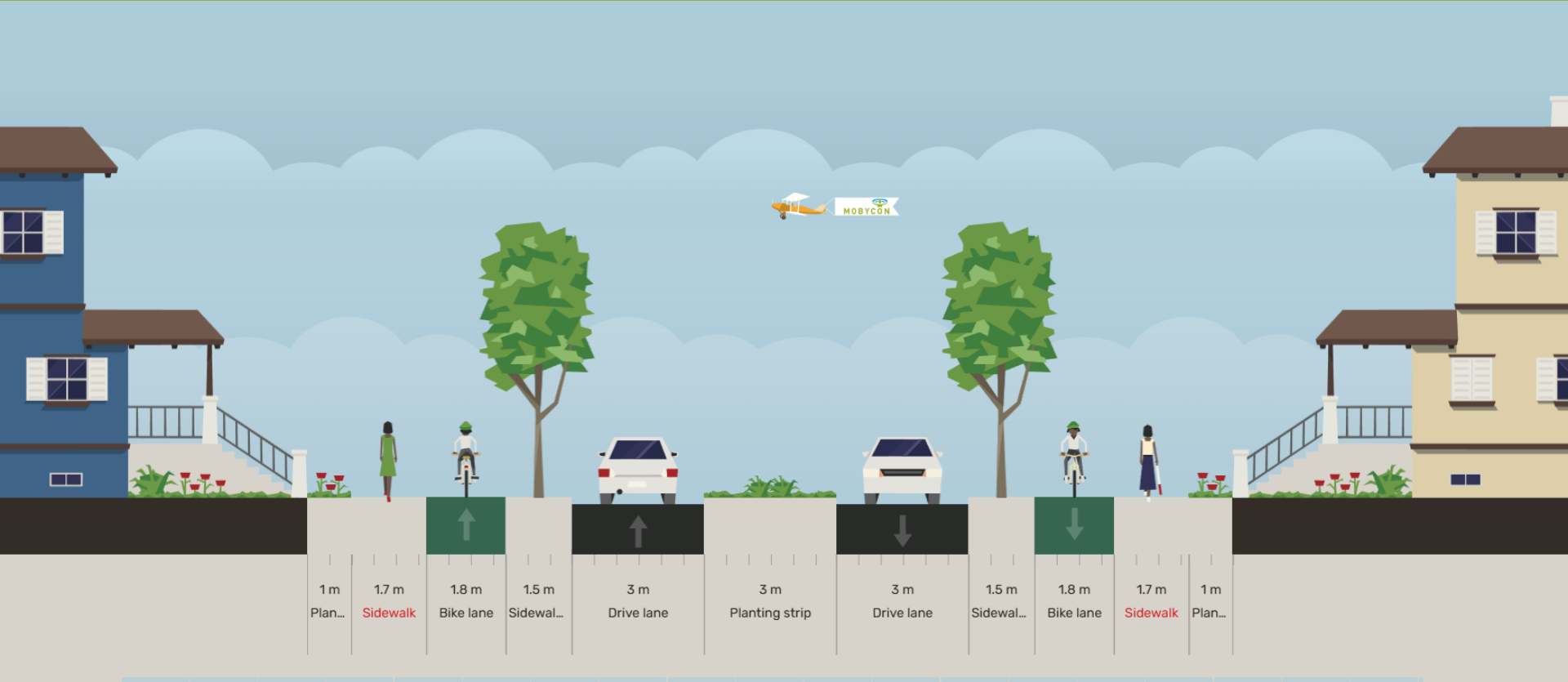
WIDTH IS EVERYTHING!



# CROSS SECTION



# TRANSFORMATION



## FUNCTIONAL ELEMENTS

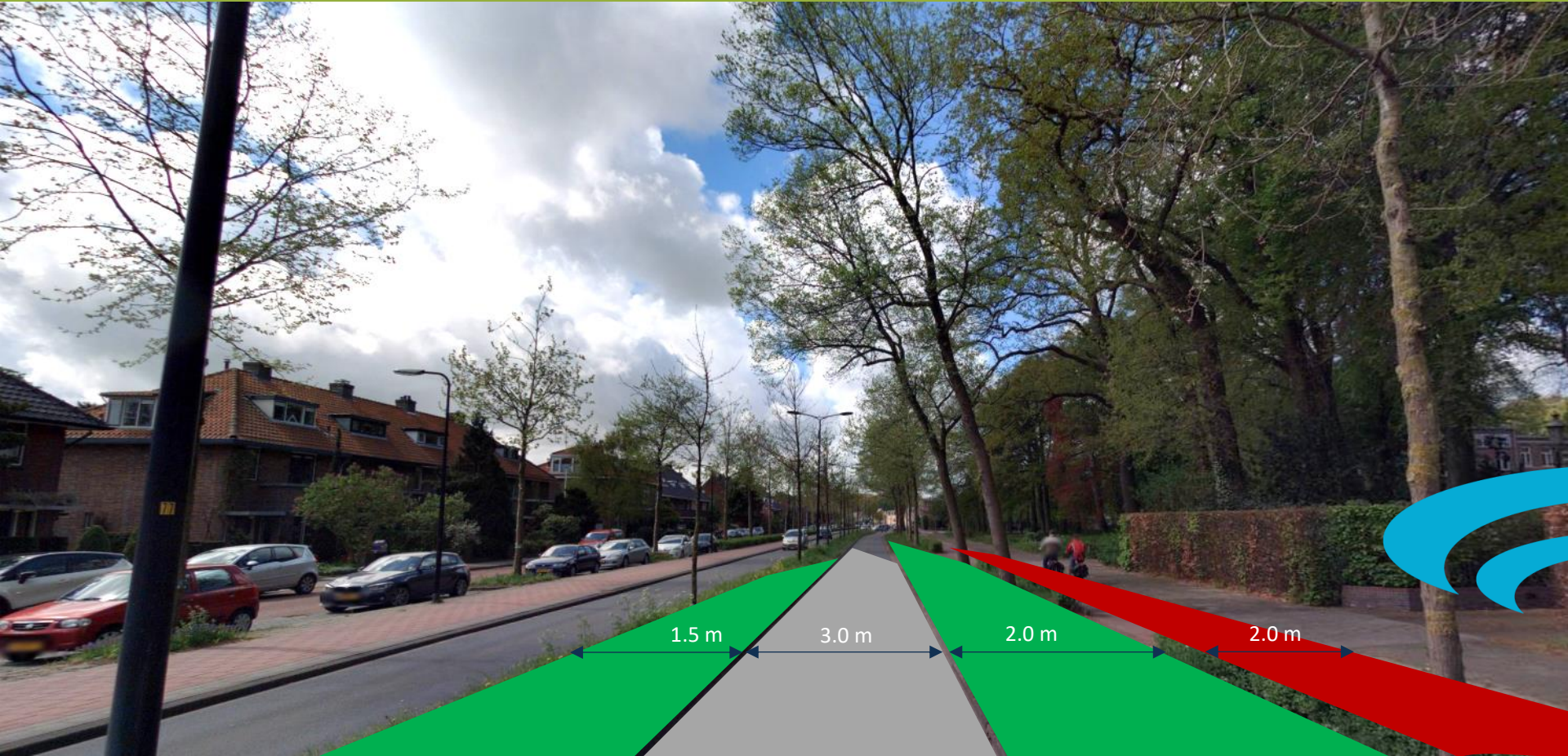
- Design speed 40 km/h
- Narrow drive lanes (3.0 m)
- Planted median
- Traffic calming at intersections
- Priority street
- No traffic lights(!)



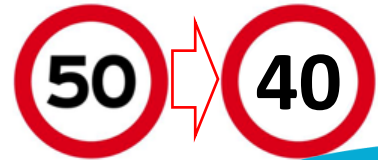
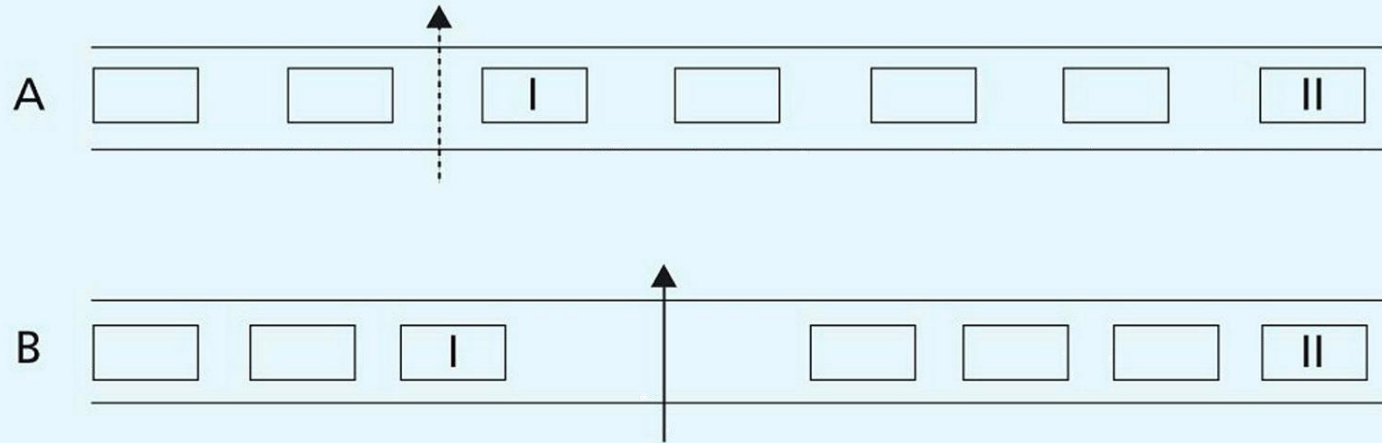
# DESIGN ELEMENTS



# DESIGN ELEMENTS



# GAPS IN TRAFFIC



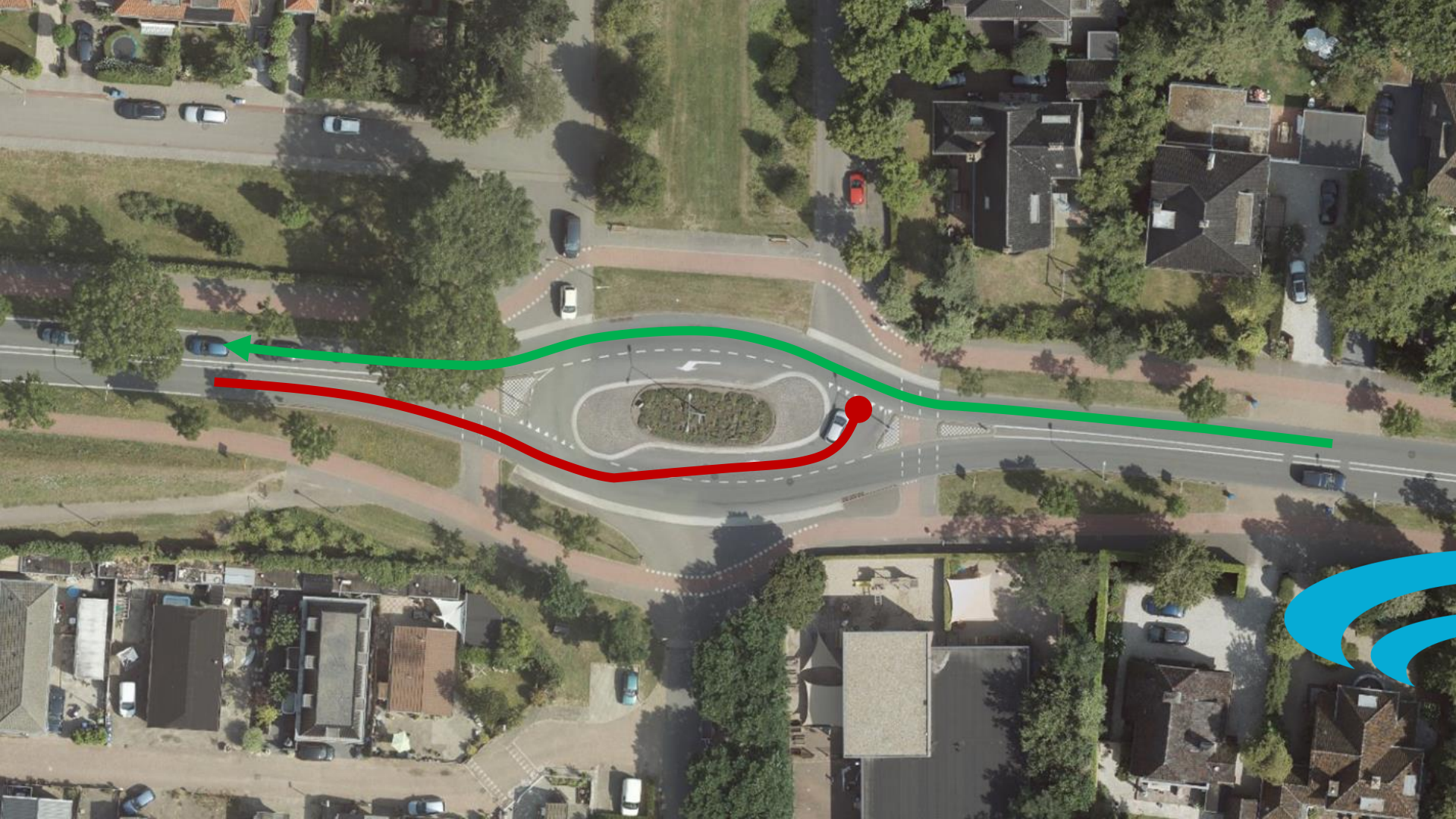
# INTERSECTIONS

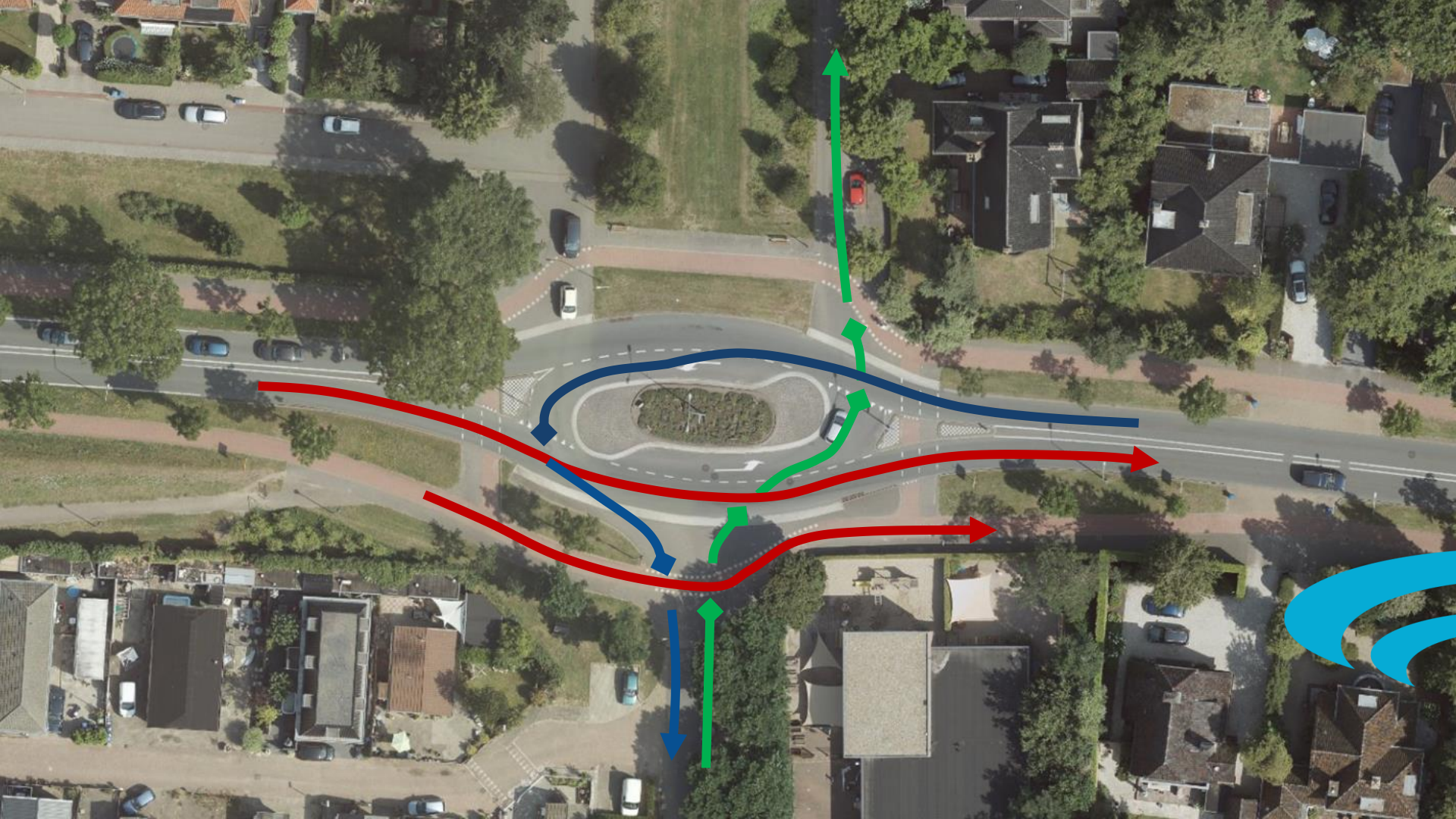






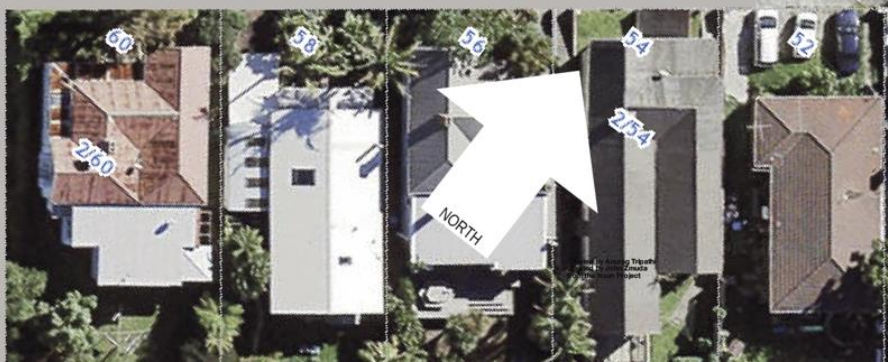
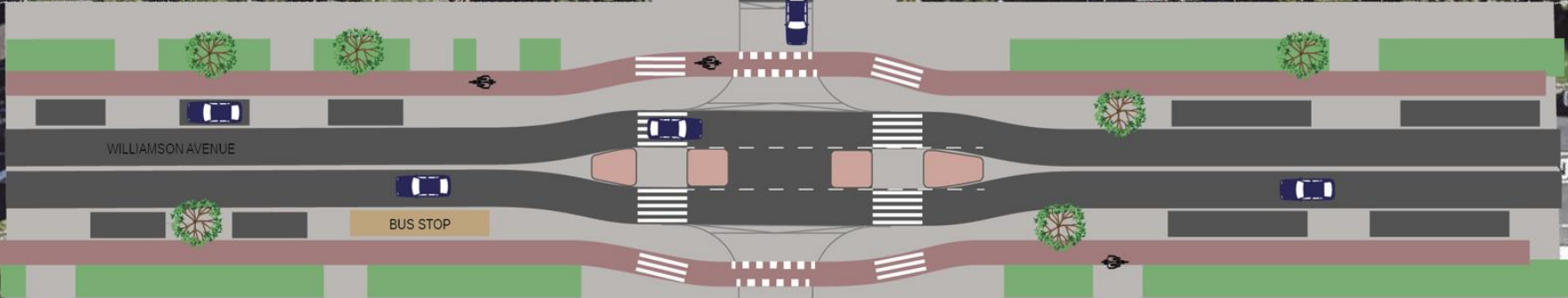
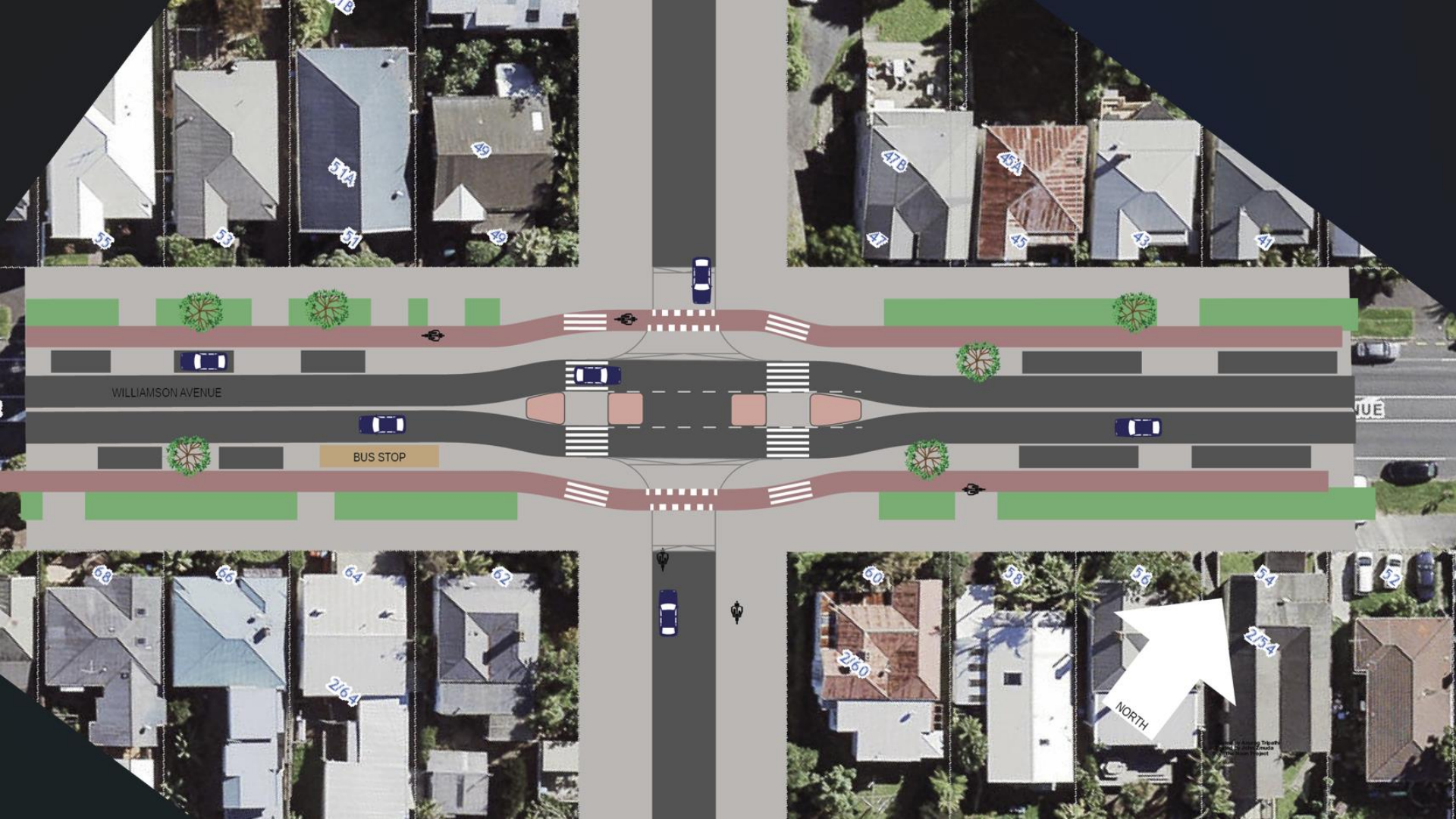














## CONSIDERATIONS

- Driveways
- Emergency services
- Parking
- Public transport
- Cycling/pedestrians





## DOWNSIDES

- No priority for bicycles or pedestrians
- More space used by intersections
- Significant bend-out for bicycles
- Requires good upstream management of flow



## Lennart Nout

Director – Mobycon Pacific

Auckland | Aotearoa

[l.nout@mobycon.com](mailto:l.nout@mobycon.com)

[INFO@MOBYCON.COM](mailto:INFO@MOBYCON.COM) . [WWW.MOBYCON.COM](http://WWW.MOBYCON.COM)

