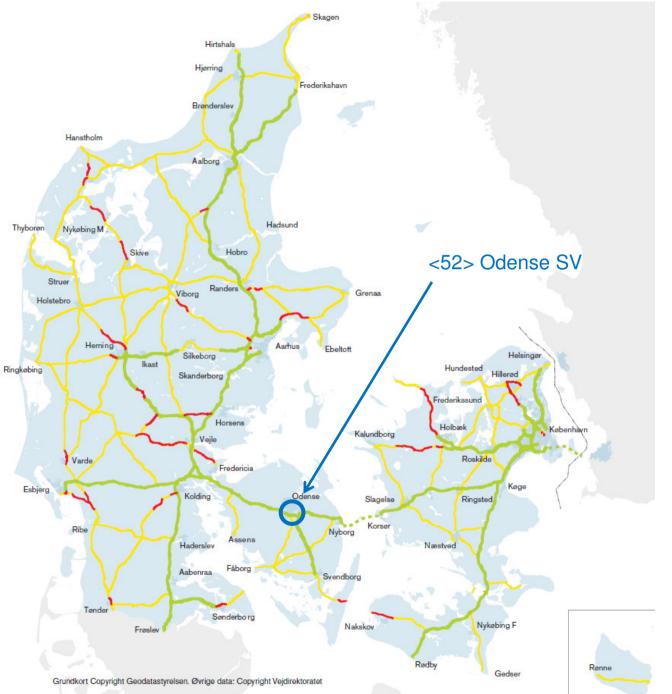
Diverging Diamond Interchange (DDI) in Odense, Denmark

Interchange 52, Odense SV on E20









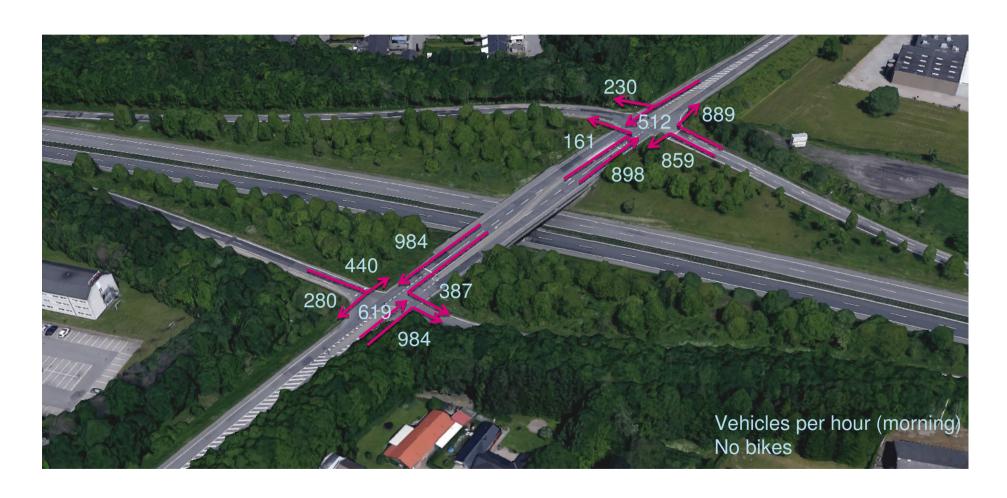
Existing diamond interchange Odense SV (from 1985)





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Assensvej Traffic forecast 2028

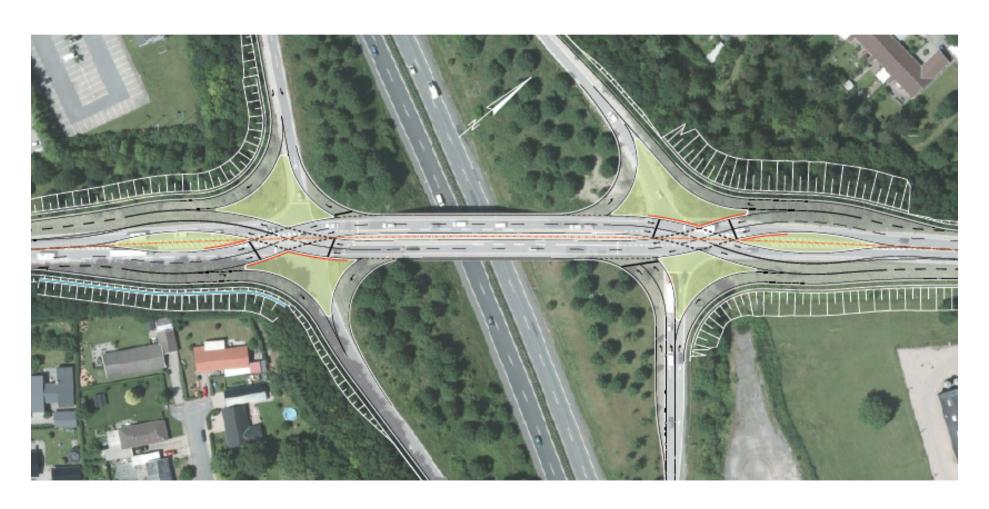




Original plan (additional lanes)



Alternative plan (DDI)



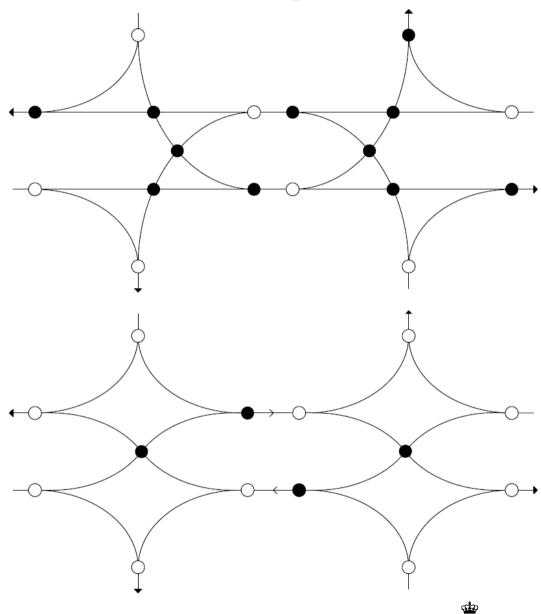
Conflict points

Original plan:

11 primary points of conflict

DDI:

4 primary points of conflict



Road safety and capacity in a DDI

Road safety:

- US evaluation (DDI in Springfield, Missouri)
 - 67 % reduction in injury crashes
 - 46 % reduction in all crashes

VISSIM traffic simulation:

- •30 % reduction in total travel time compared to the original plan
- •70 % reduction in total delay time compared to the original plan

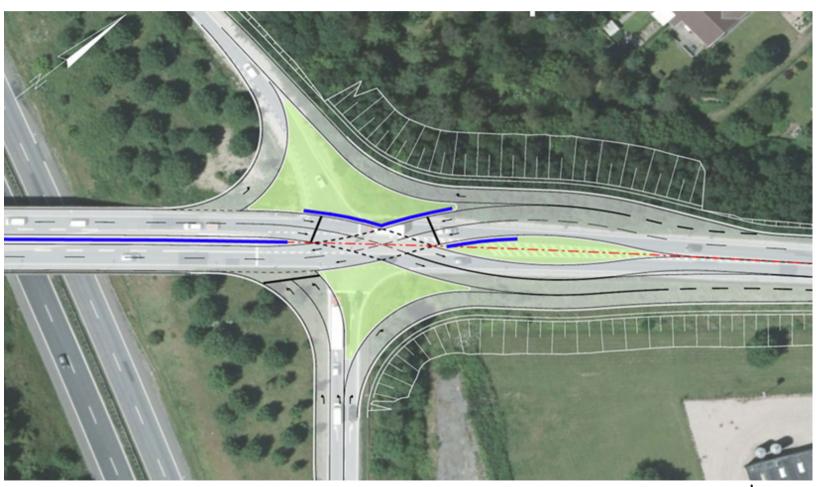
And not the least:

•The DDI removes the queue from the exit ramp out on the motorway



Challenges

- How to make the design self explaining
- How to make the road users familiar with the new design



Schedule

Detailed design
September 2015 – March 2016

• Tendering April – June 2016

• Construction July 2016 – June 2017

Estimated costs

26,4 million DKK (3,5 million EUR)



A second DDI in Aalborg?

