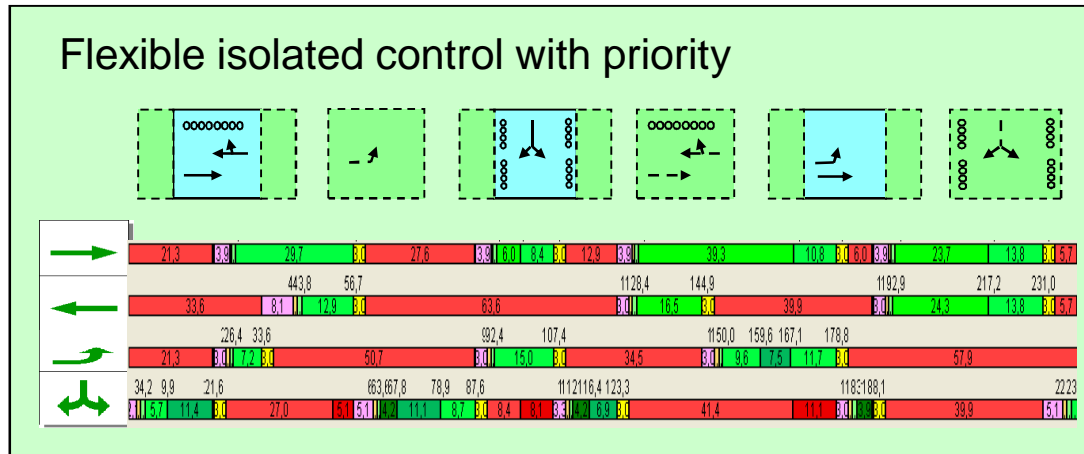


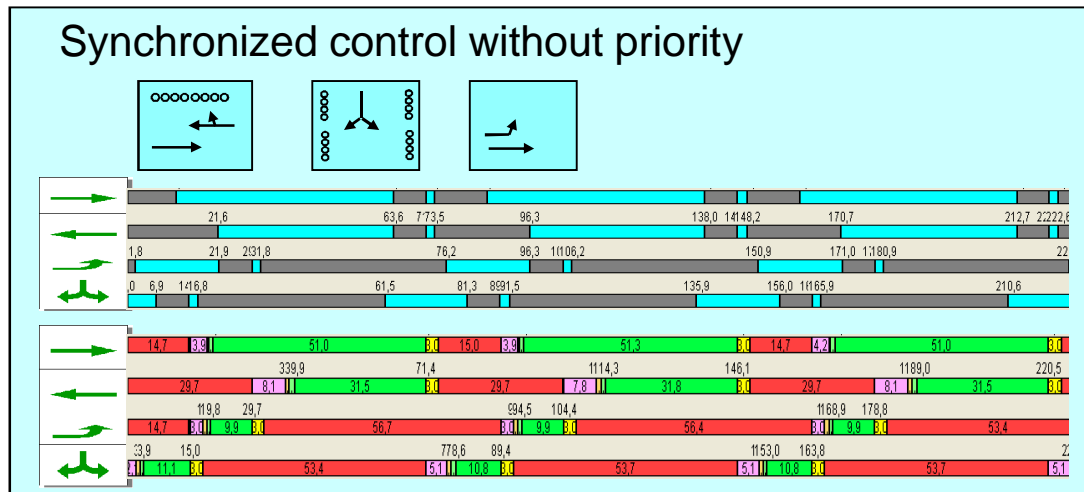
The SYVARI-control

A bus is approaching → isolated control with priority
 The bus has left the junction → synchronized control

A bus is approaching the junction



The bus has left the junction

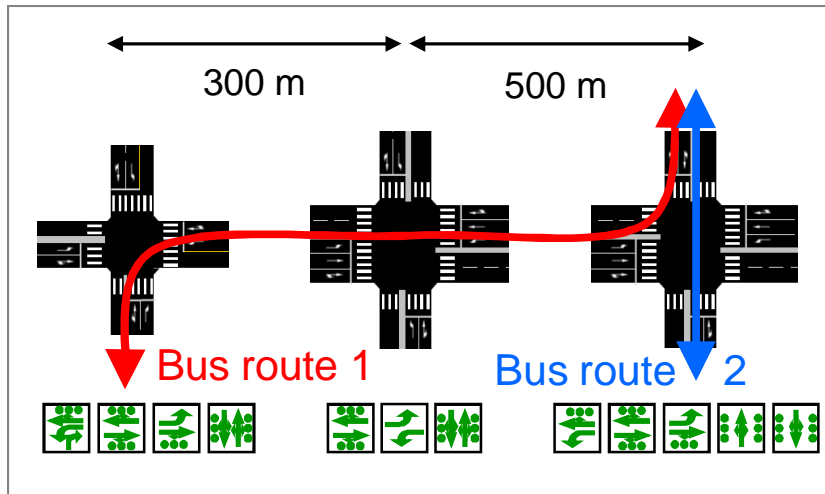


Network simulation results

Network of three junctions

Light and moderate traffic flows

Timings optimized by *SYNCHRO*



Two bus routes

- headways 5 and 15 minutes

Traffic flows

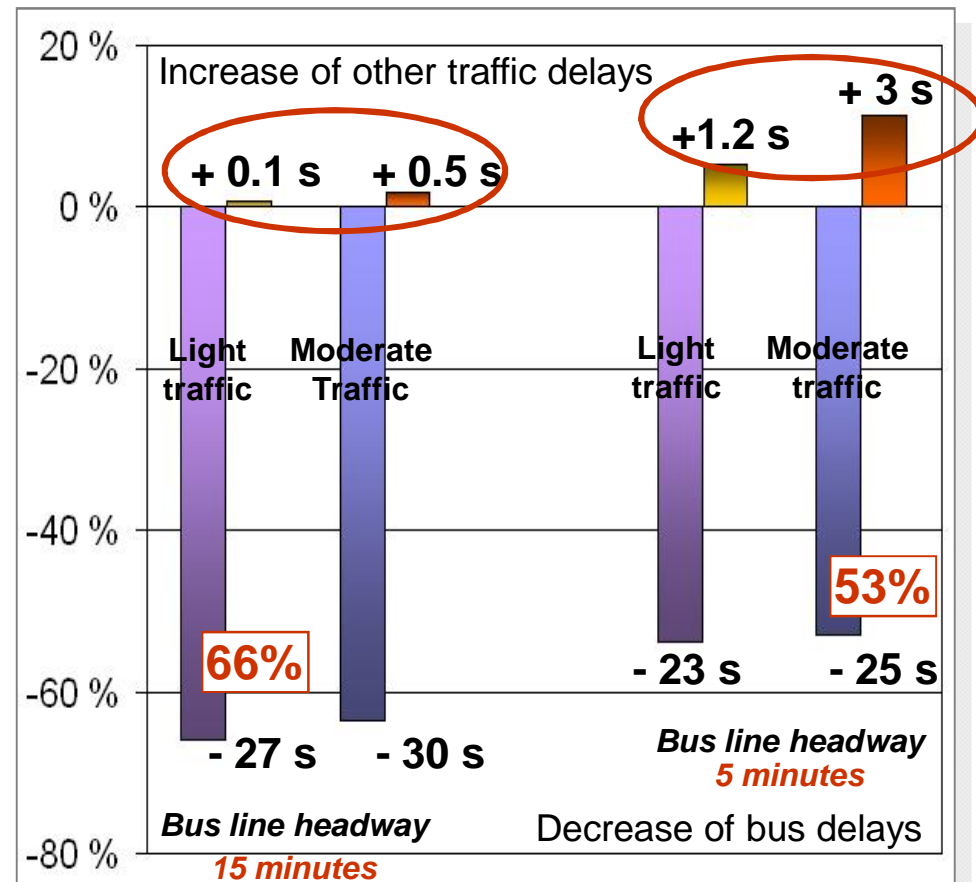
- light traffic
- moderate traffic

Full bus priority

- green extensions
- early greens
- extra stages
- stage rotations

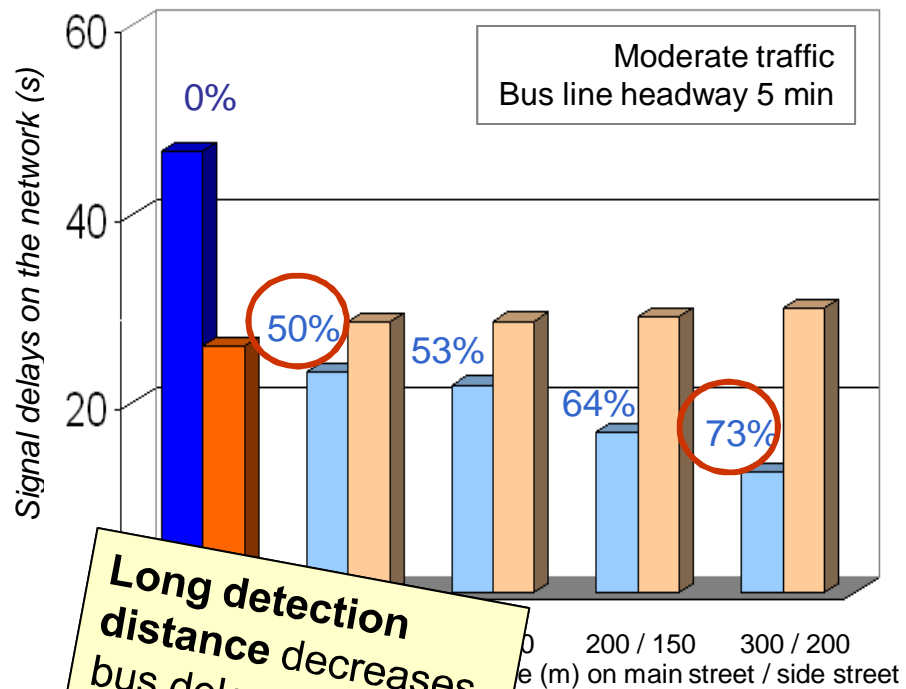
Simulation models

VISSIM and EC-1 signal controller



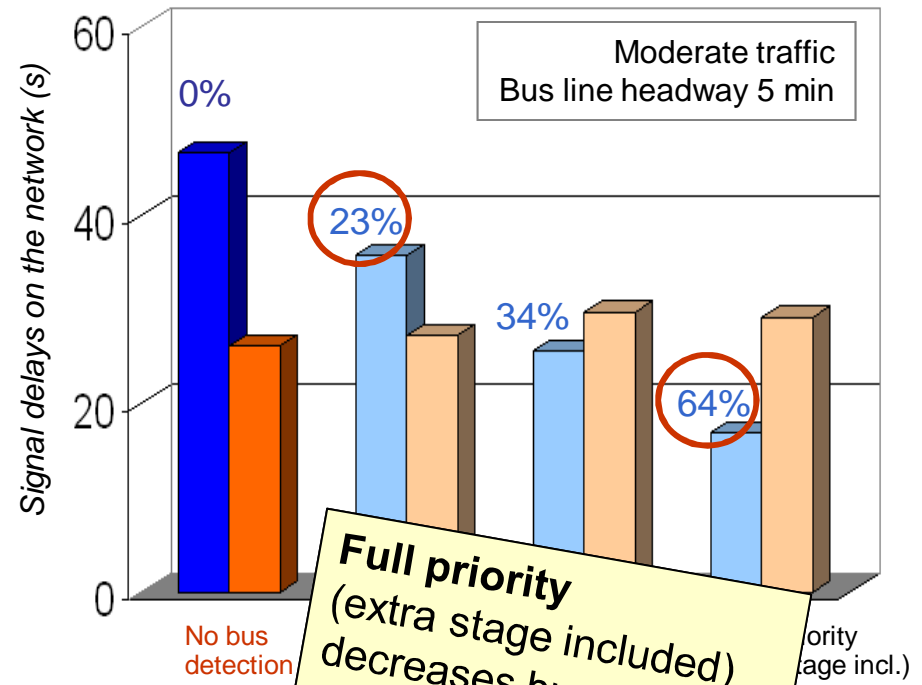
Special simulation results

Effect of the bus detection distance



Long detection distance decreases bus delays 1.5 times more than short detection distance

Effect of the priority functions



Full priority (extra stage included) decreases bus delays three times more than only the green extension

Delays of Public Transport
 Delays of other traffic

■ – no priority on P.T.
■ – no priority on P.T.
■ – with priority on P.T.
■ – with priority on P.T.