



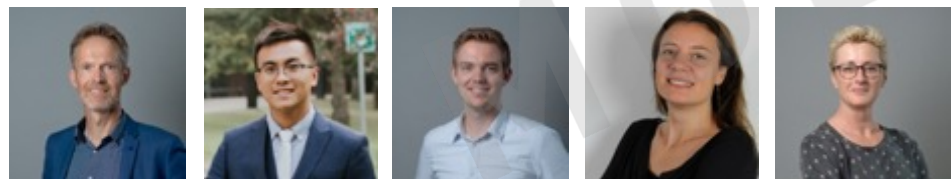
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FUNDAMENTALS OF PROTECTED INTERSECTIONS

21 JANUARY 2020

Lennart Nout – Manager of International Strategy



WE HELP THE WORLD BE LESS
DEPENDENT ON THE CAR





Safe Intersection Design
Protected Intersections

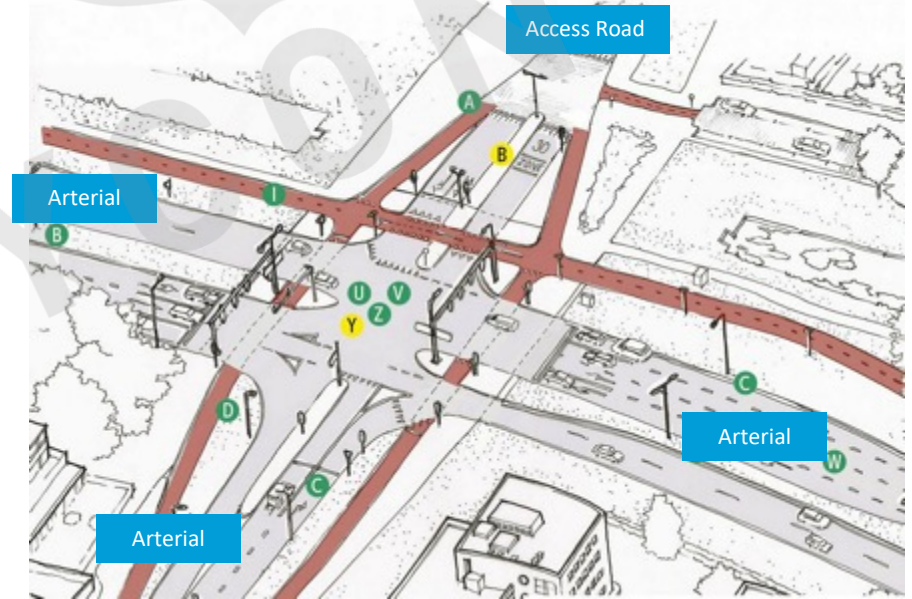
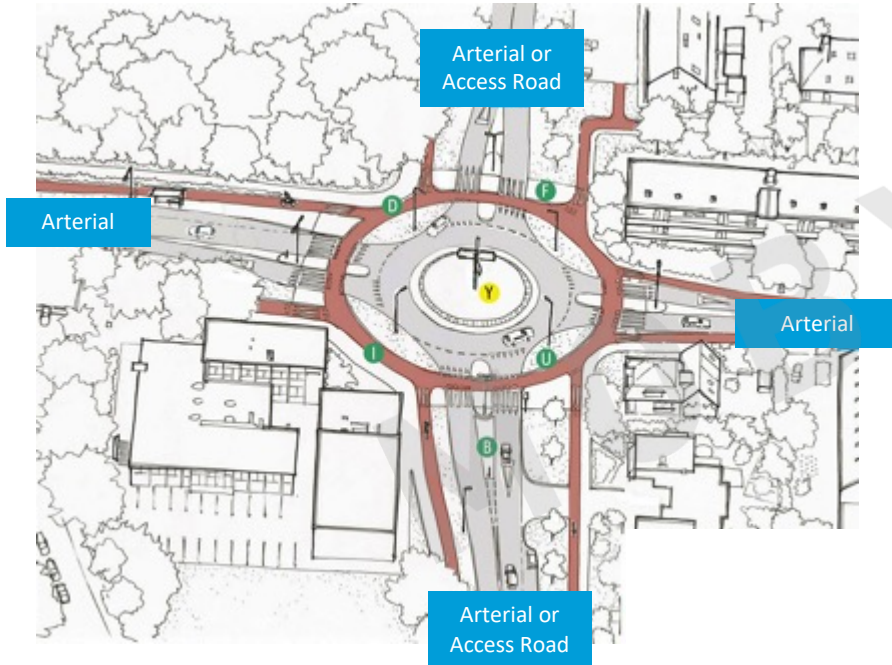
INTERSECTION OF TWO ACCESS ROADS



INTERSECTION OF ACCESS AND ARTERIAL ROAD



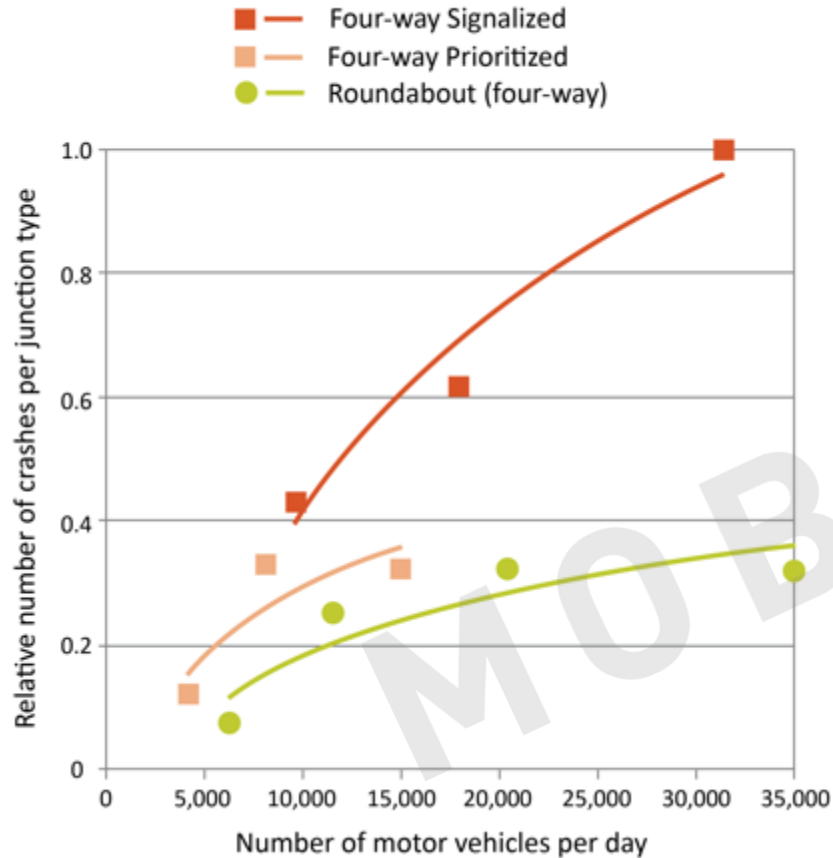
INTERSECTION OF TWO ARTERIAL ROADS



TRAFFIC LIGHTS ARE
PROVEN TO BE THE
LEAST SAFE JUNCTION
OPTION

TRAFFIC LIGHTS ARE
A **TRAFFIC**
MANAGEMENT TOOL.
NOT A *SAFETY* TOOL.

UNSAFE LEVELS PER JUNCTION TYPE



SAFETY FIRST?

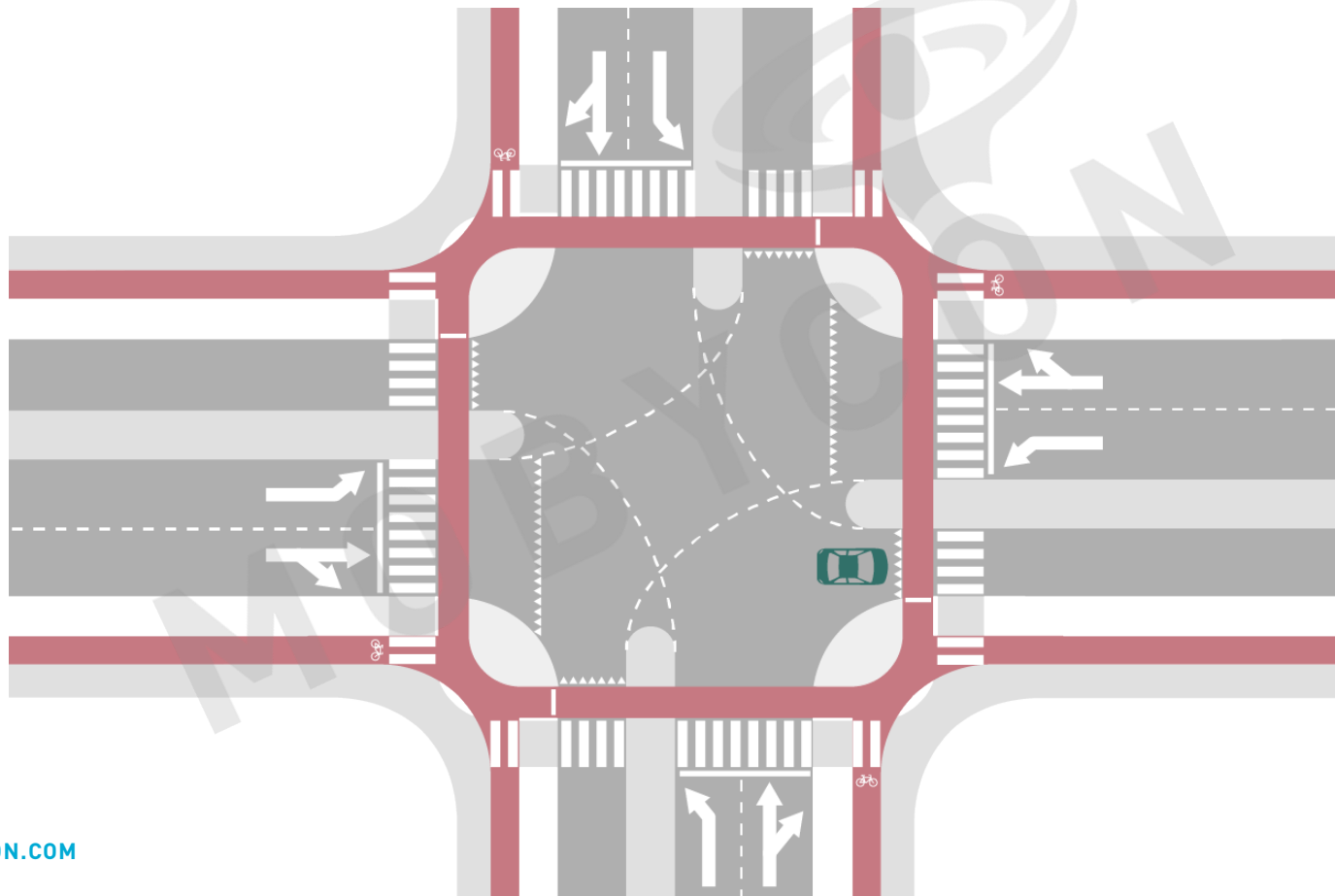
- Four-way signalised junctions are over twice as unsafe as their equivalent roundabouts



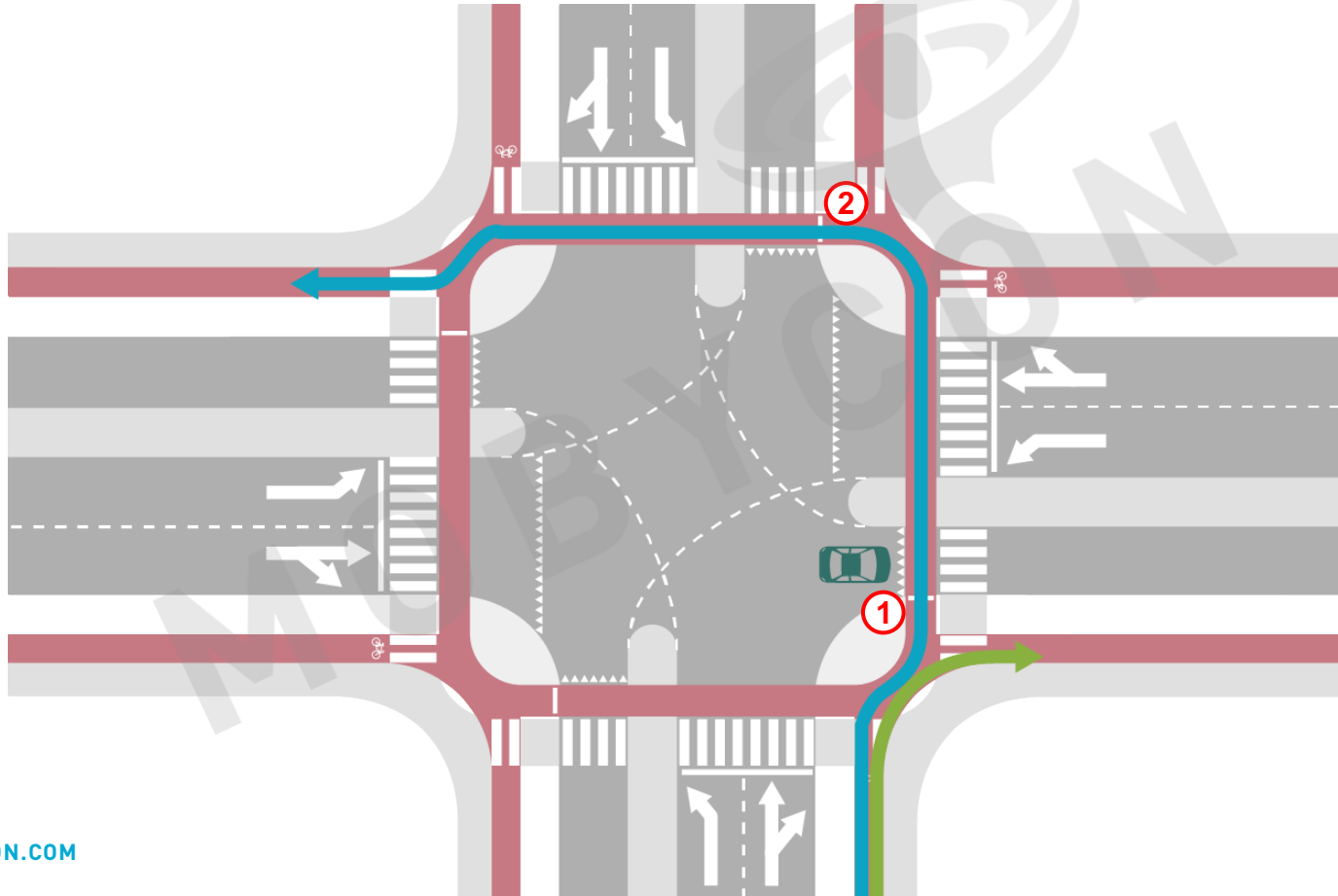
Safe Intersection Design
Protected Intersections

FORGIVENESS
SEPARATION
REDUNDANCY

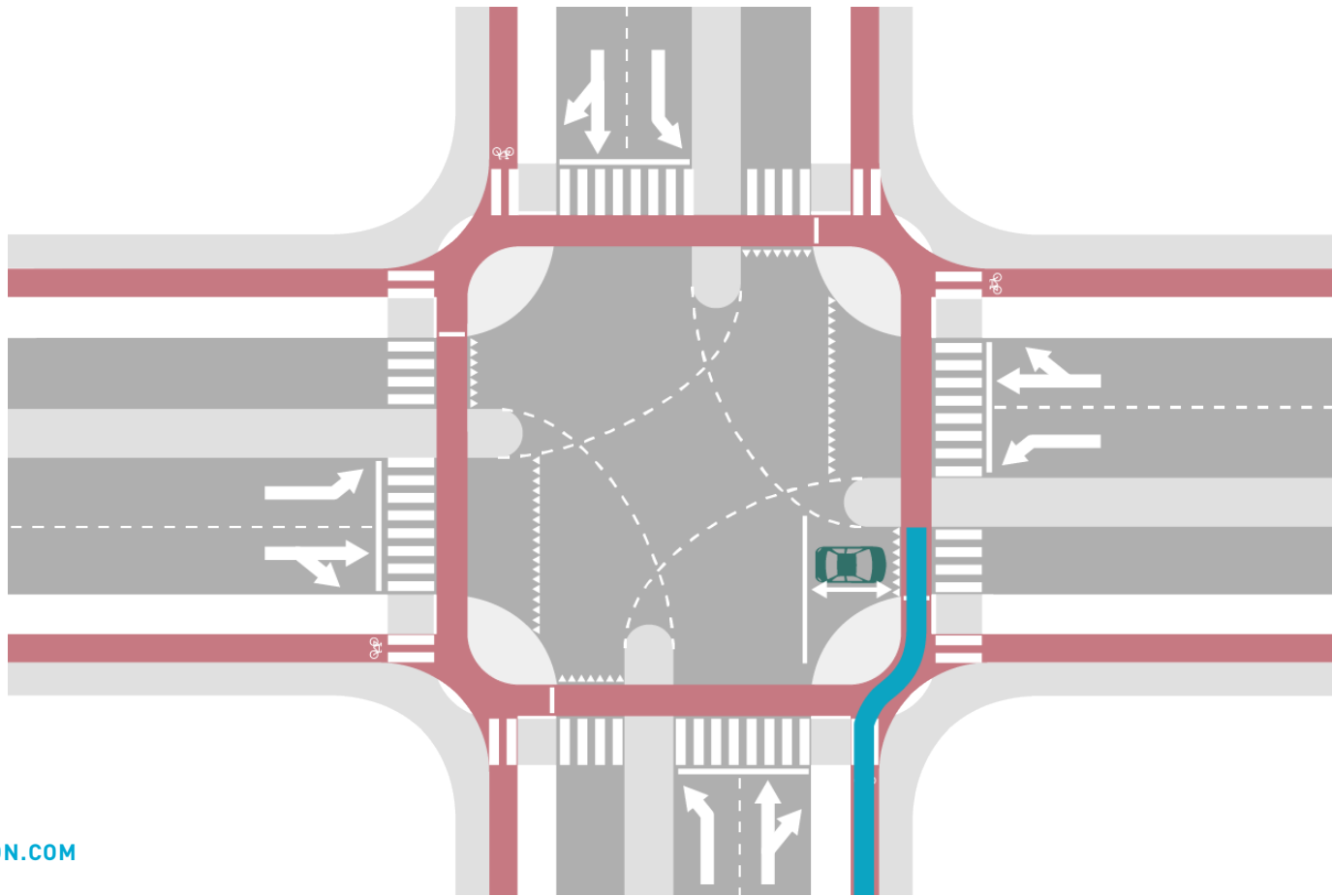
PRINCIPLES OF PROTECTED INTERSECTIONS



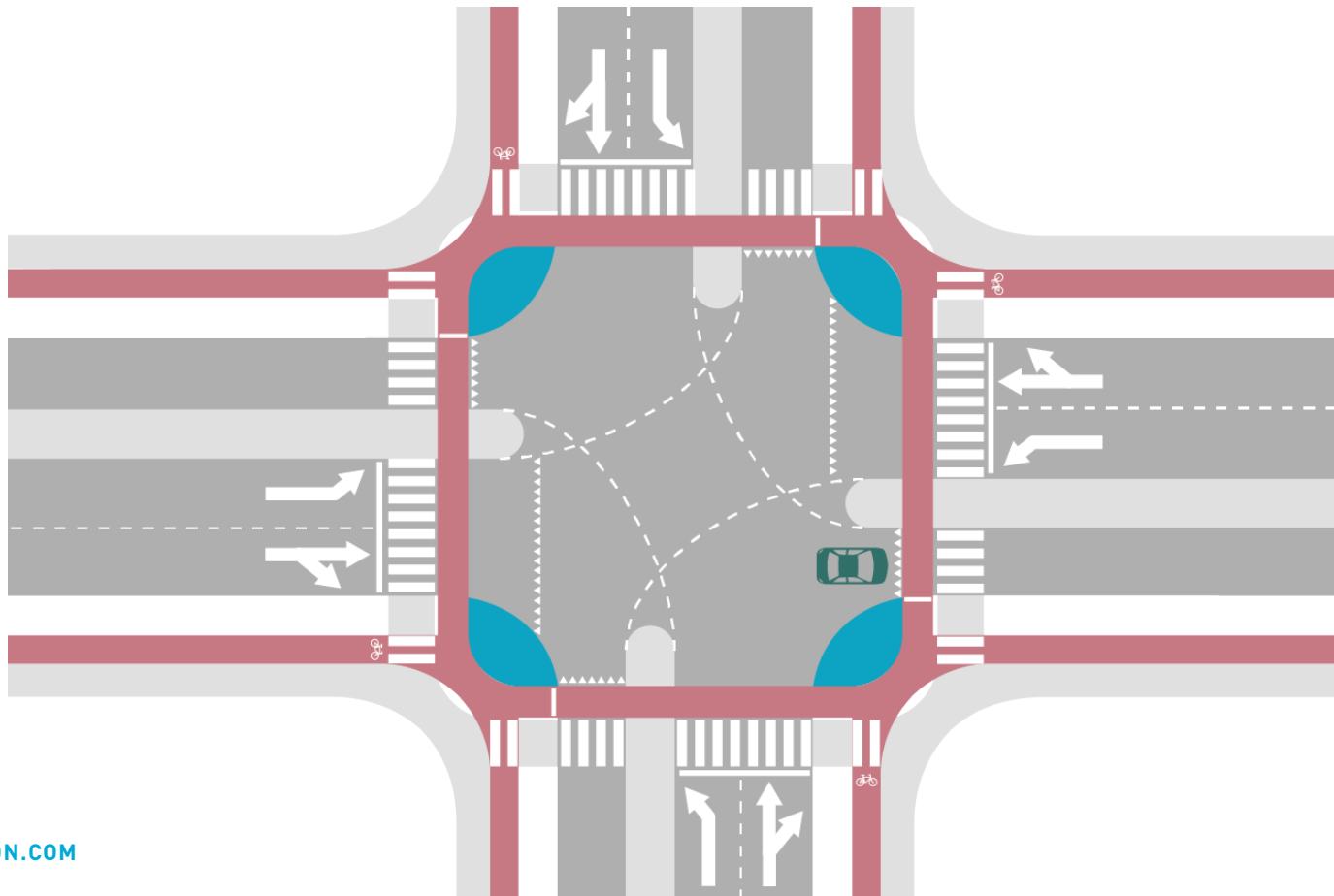
FREE RIGHT / TWO STAGE LEFT



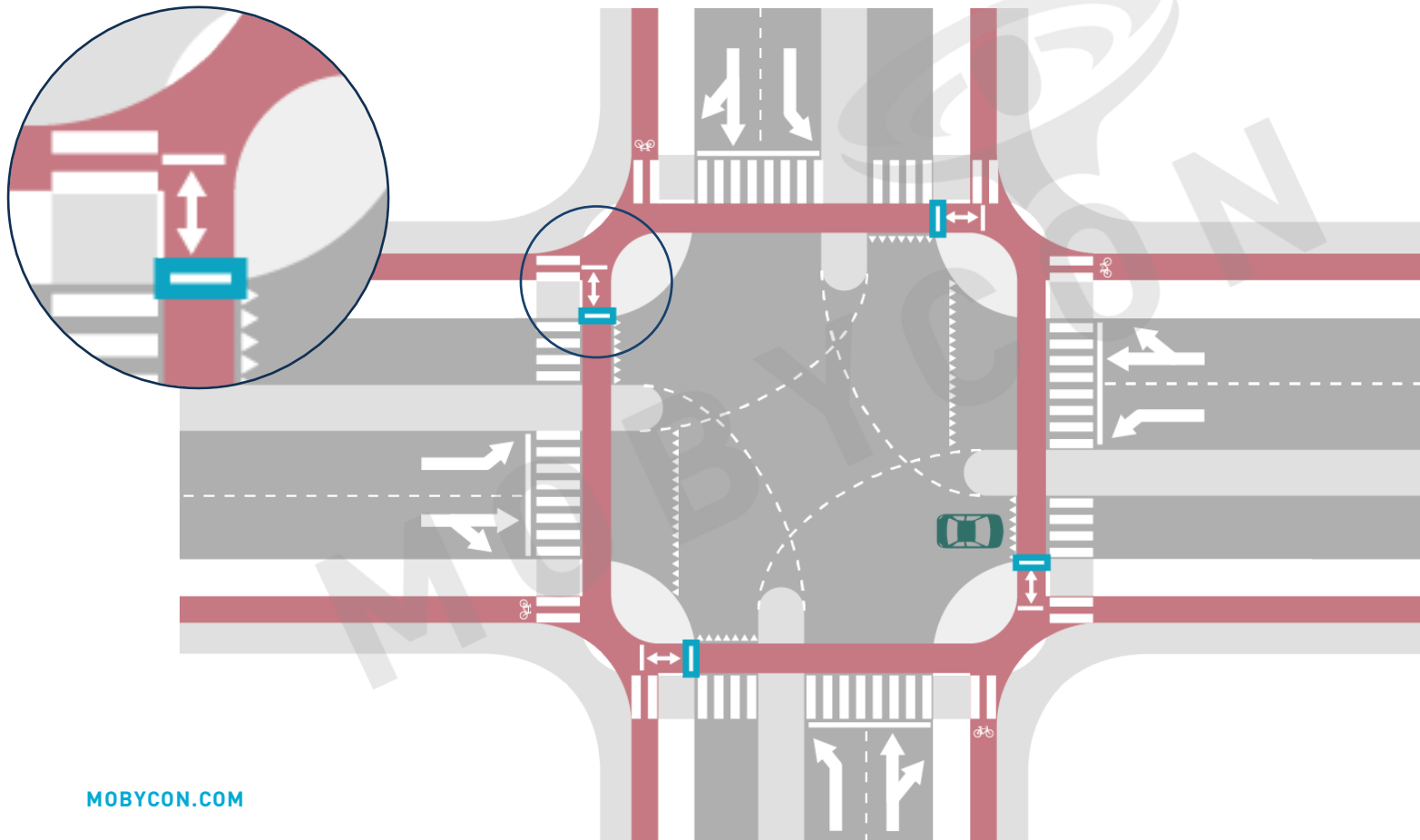
EYE CONTACT BETWEEN DRIVER AND CYCLIST



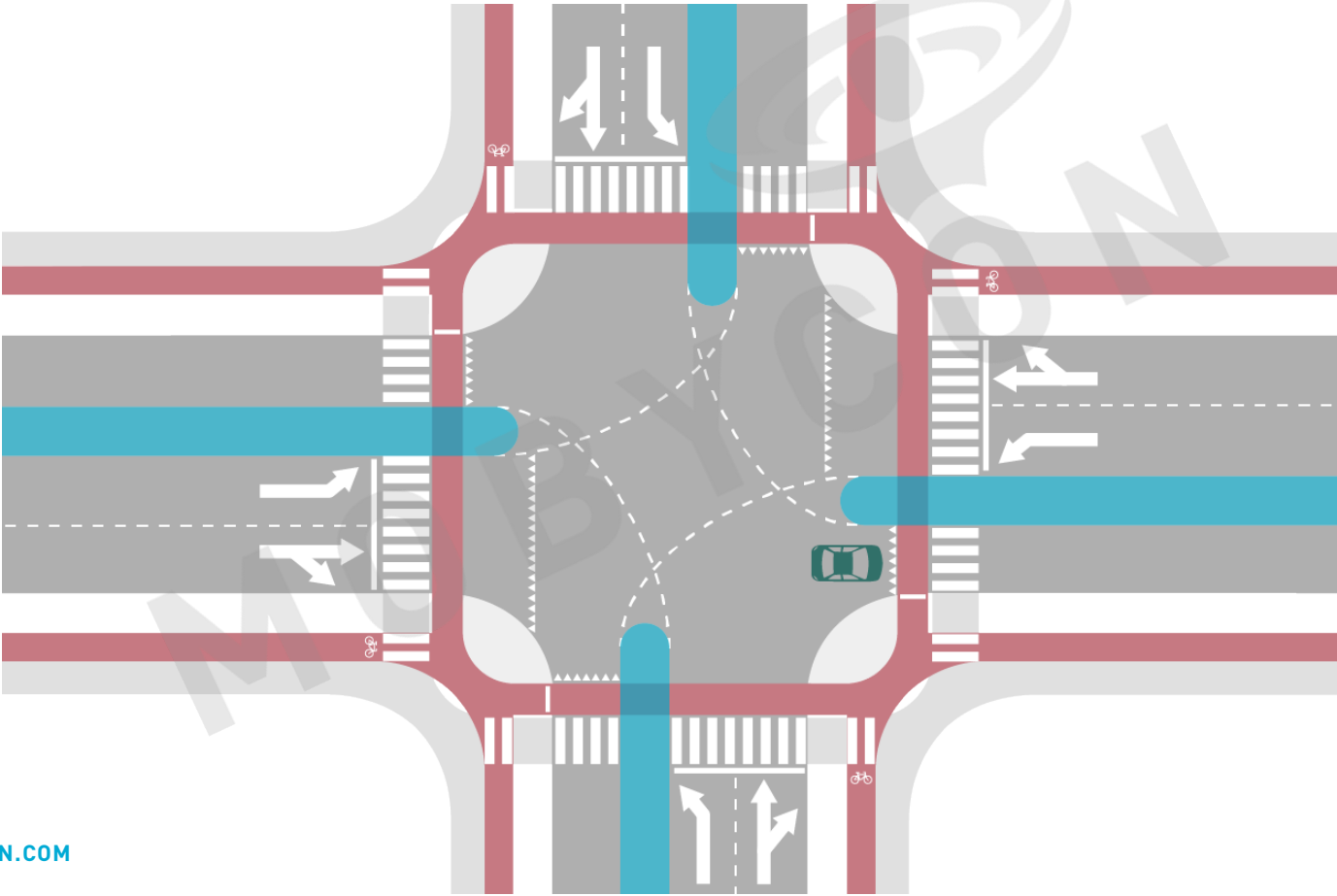
VERTICAL PROTECTION



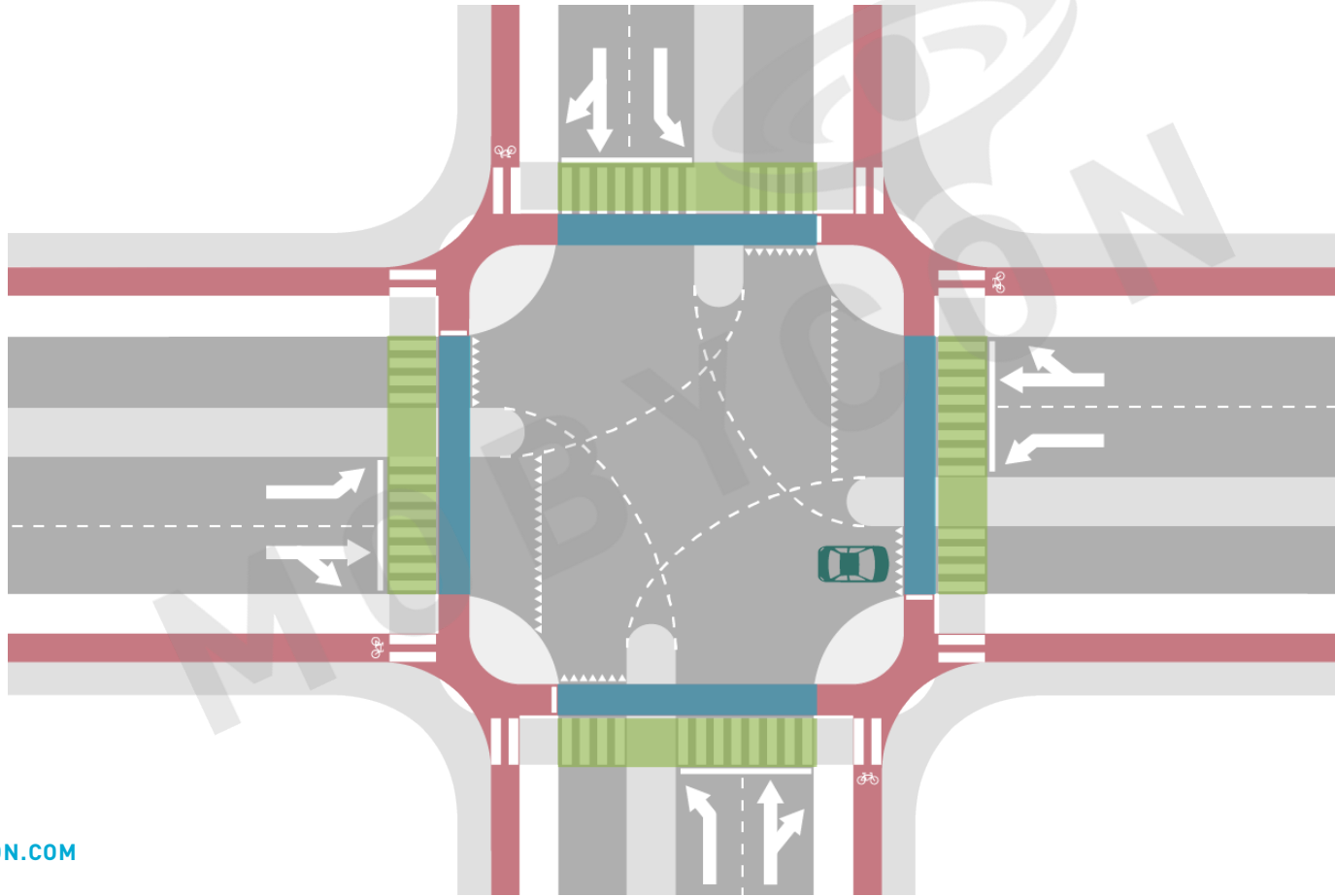
ADVANCED STOP BAR



RAISED MEDIAN



CYCLISTS ON THE INSIDE



PROTECTED INTERSECTIONS











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SOLUTIONS MAKE US LESS
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