

SOLVING THE TRAFFIC ISSUE

A long-exposure photograph of a city highway at night. The foreground shows multiple lanes of traffic with light trails from cars, curving into the distance. In the background, a dense city skyline is visible with many lit-up buildings. A bridge with lights is also visible on the right side of the image. The overall scene is dark, with the city lights providing the primary illumination.

PHD. STUDENT DRAGOS
GABRIEL ION

1.UNDERSTANDING THE TRAFFIC

2.THE PROPOSED SOLUTION

3.BENEFITS

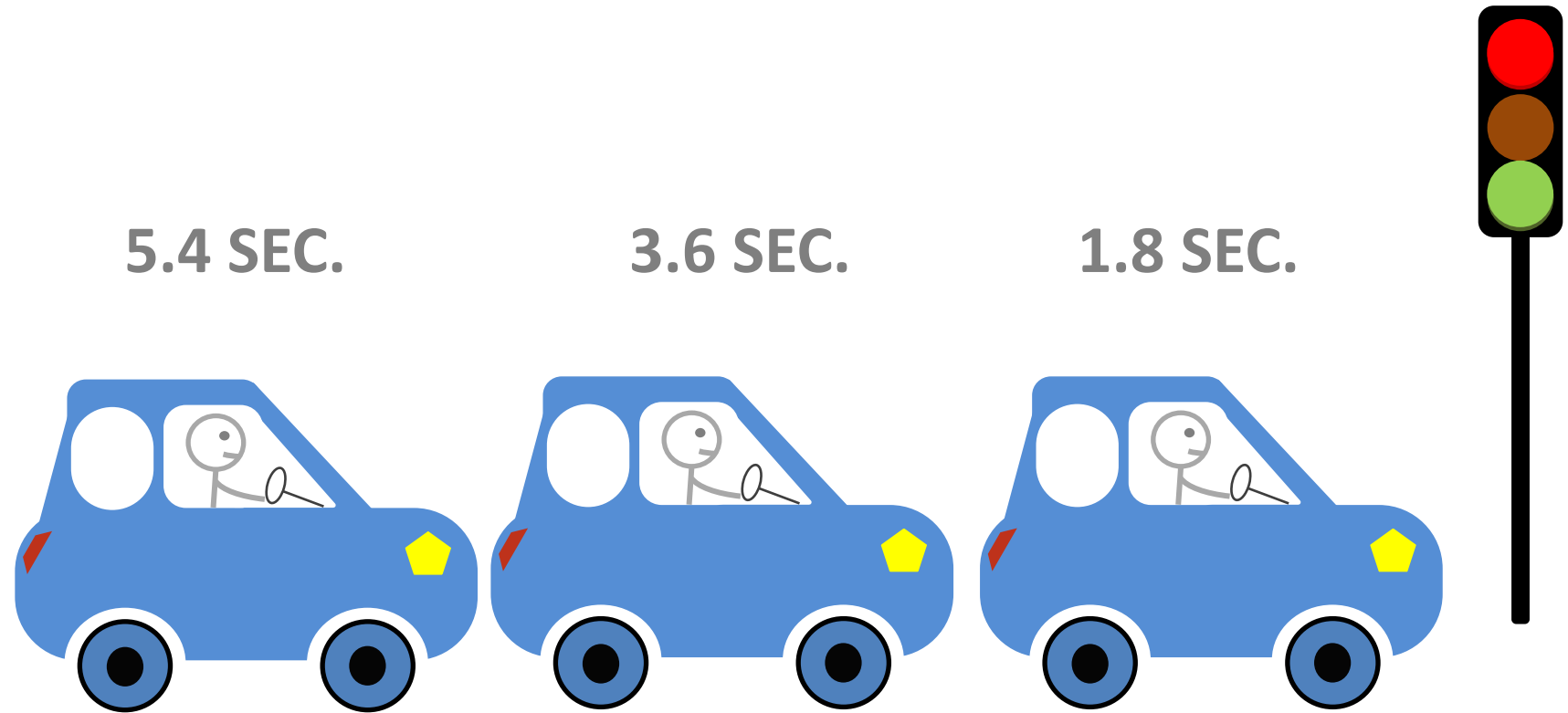
A photograph of a city street, likely in New York City, showing tall brick buildings on both sides, trees with yellowing leaves, and cars parked along the street. A yellow taxi is visible in the distance. The text is overlaid on the image in a semi-transparent grey box.

I NEED TO GET THERE FAST!

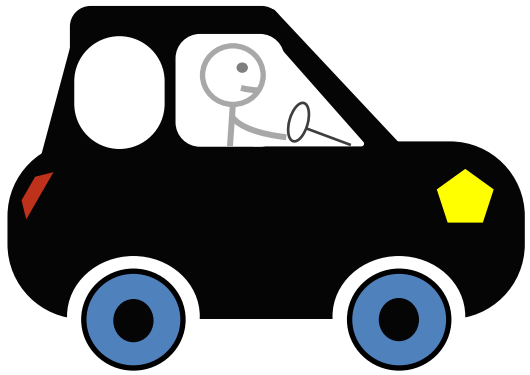
EVERYONE ELSE IS IN MY WAY!
HOW DOES TRAFFIC WORK?

I NEED TO OVERTAKE THEM!

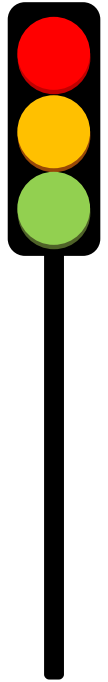
WHAT IS HAPPENING AT THE FIRST INTERSECTION?



WHAT IS HAPPENING AT THE FIRST INTERSECTION?

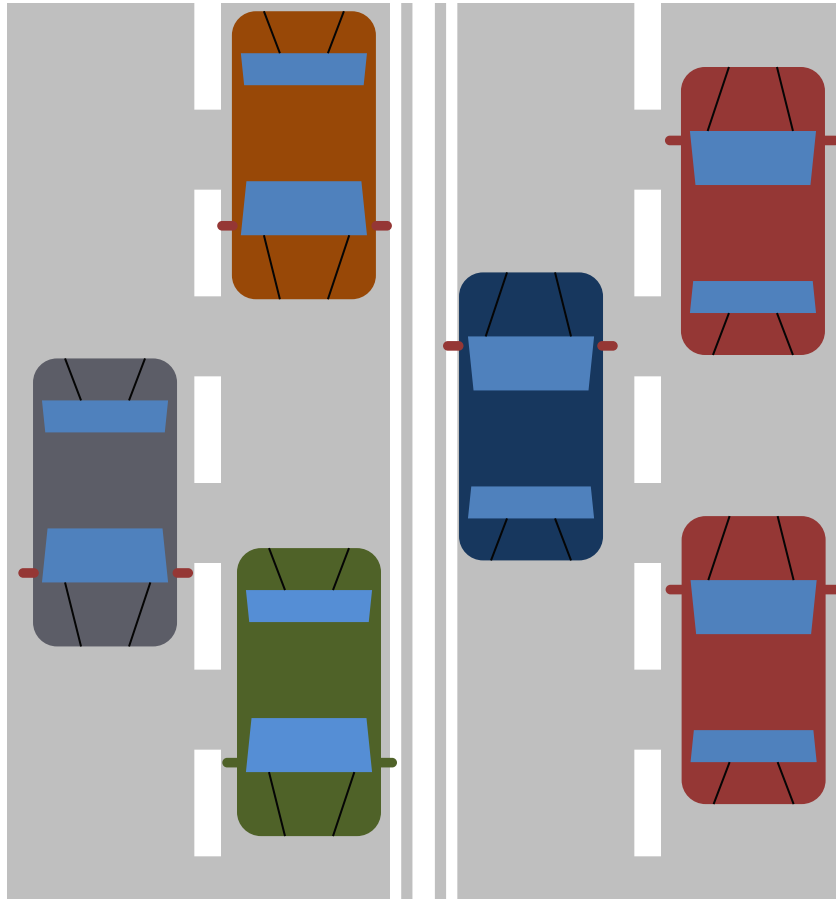


8 SEC.

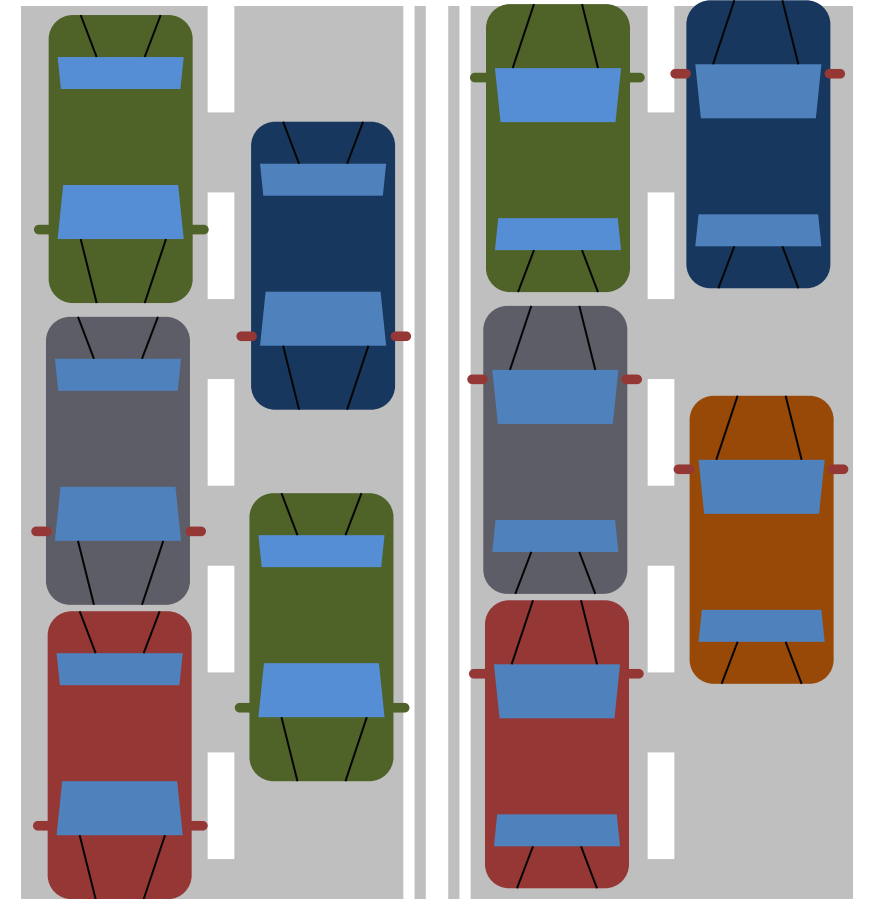


TRAFFIC IS ABOUT OFFER AND DEMAND

OFFER = MAX. CAPACITY (6)



DEMAND (10)



↑ MAX. CAPACITY ↑



↓ DEMAND ↓

ROAD FEES

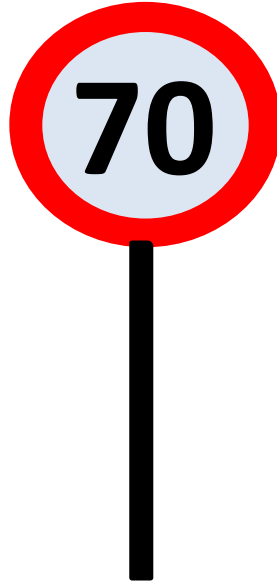
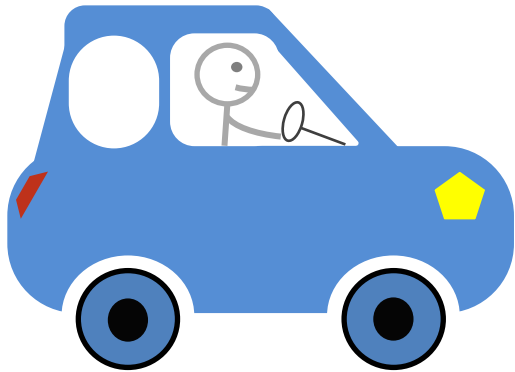


PERFECT REACTION TIME

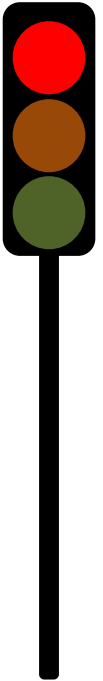


AVERAGE DRIVER

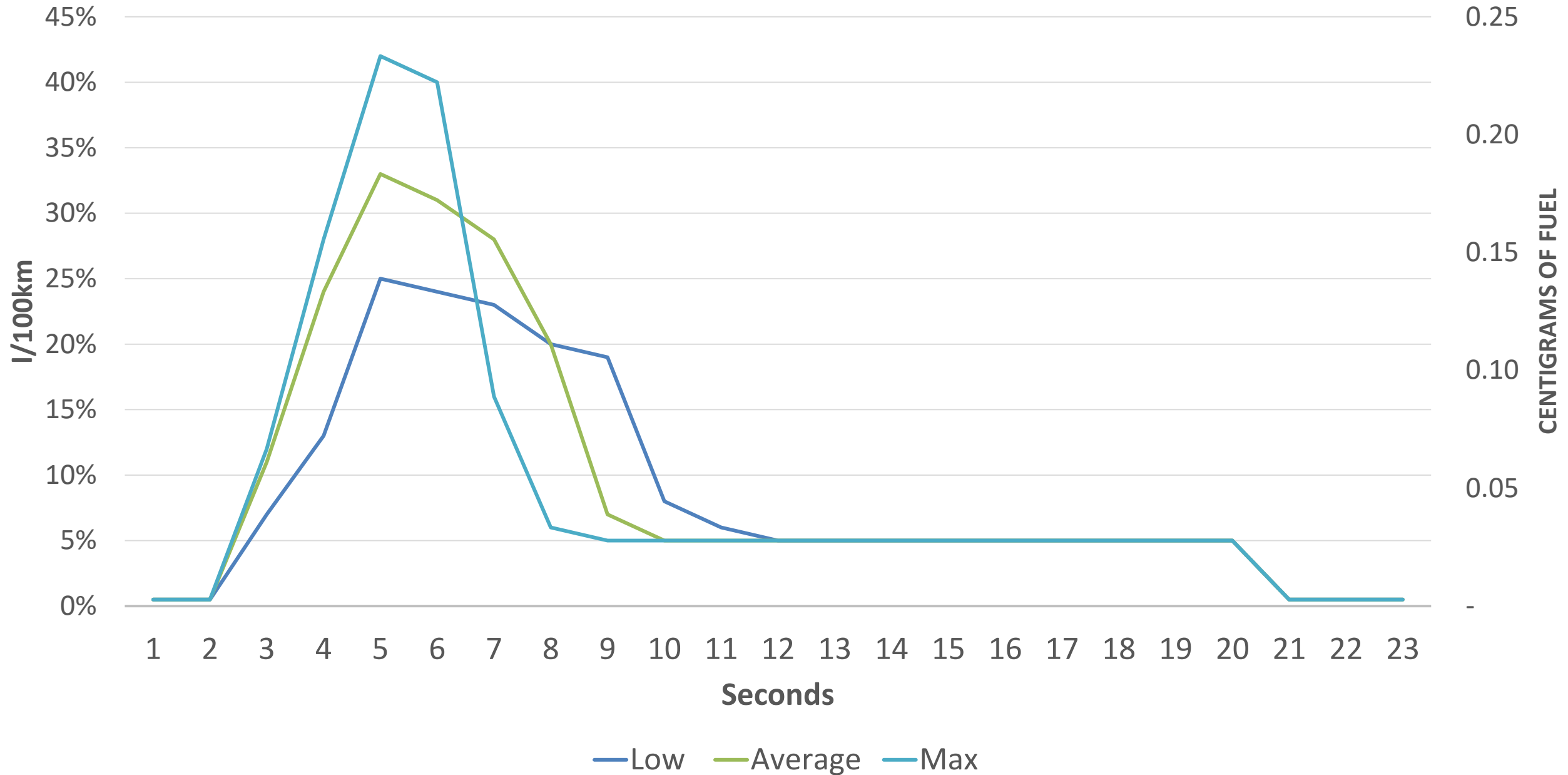
ACCELERATION



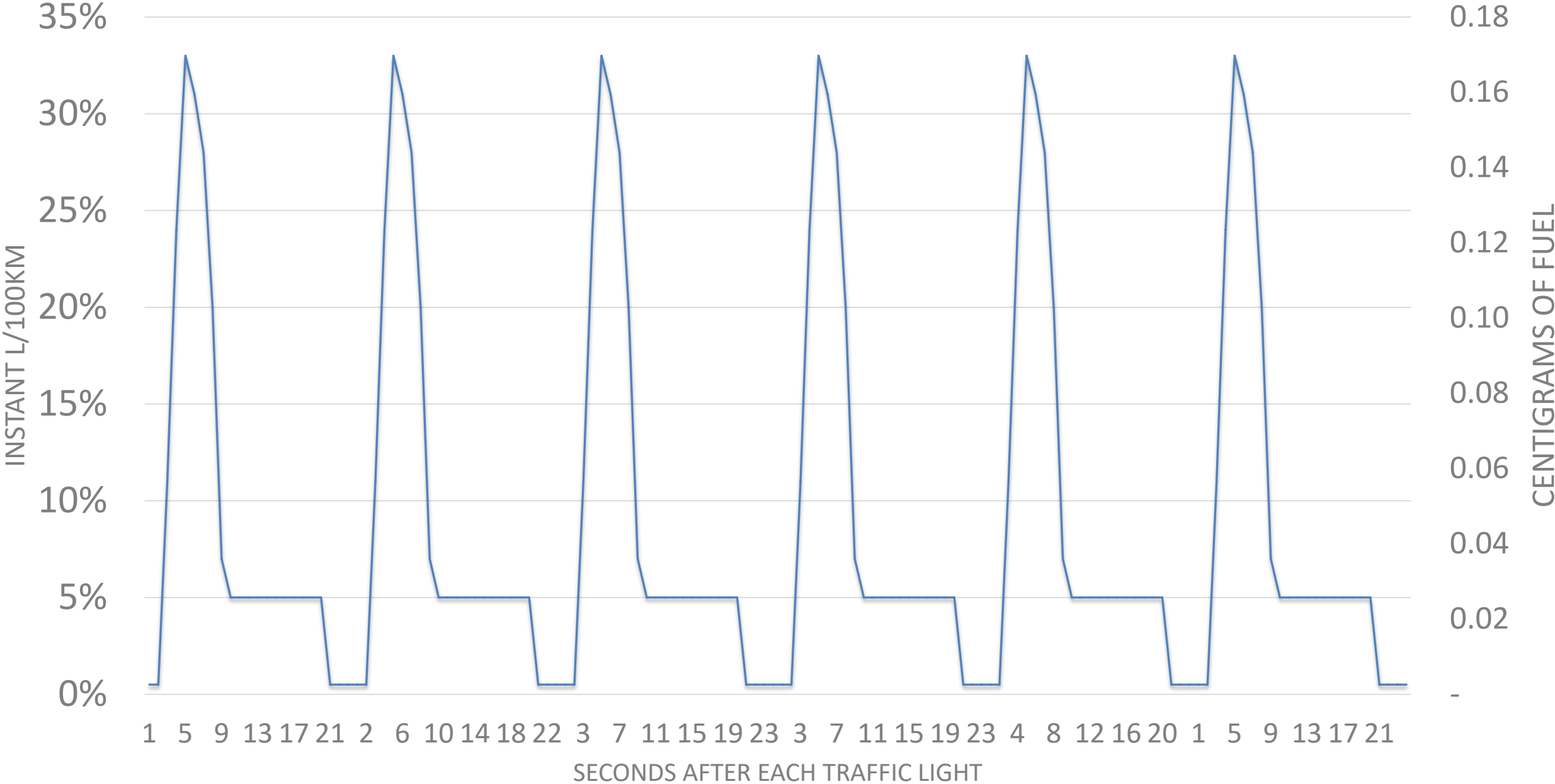
BREAKING



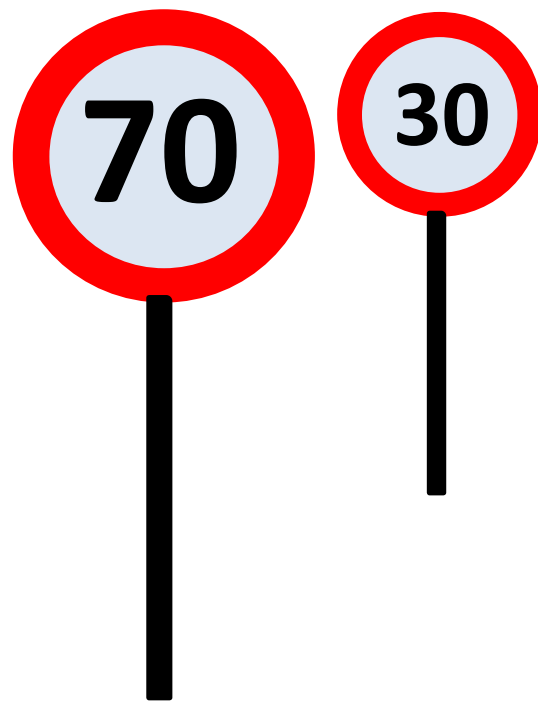
INSTANT FUEL CONSUMPTION



Fuel consumption during six traffic lights



ARTIFICIALLY INCREASE THE MAX CAPACITY

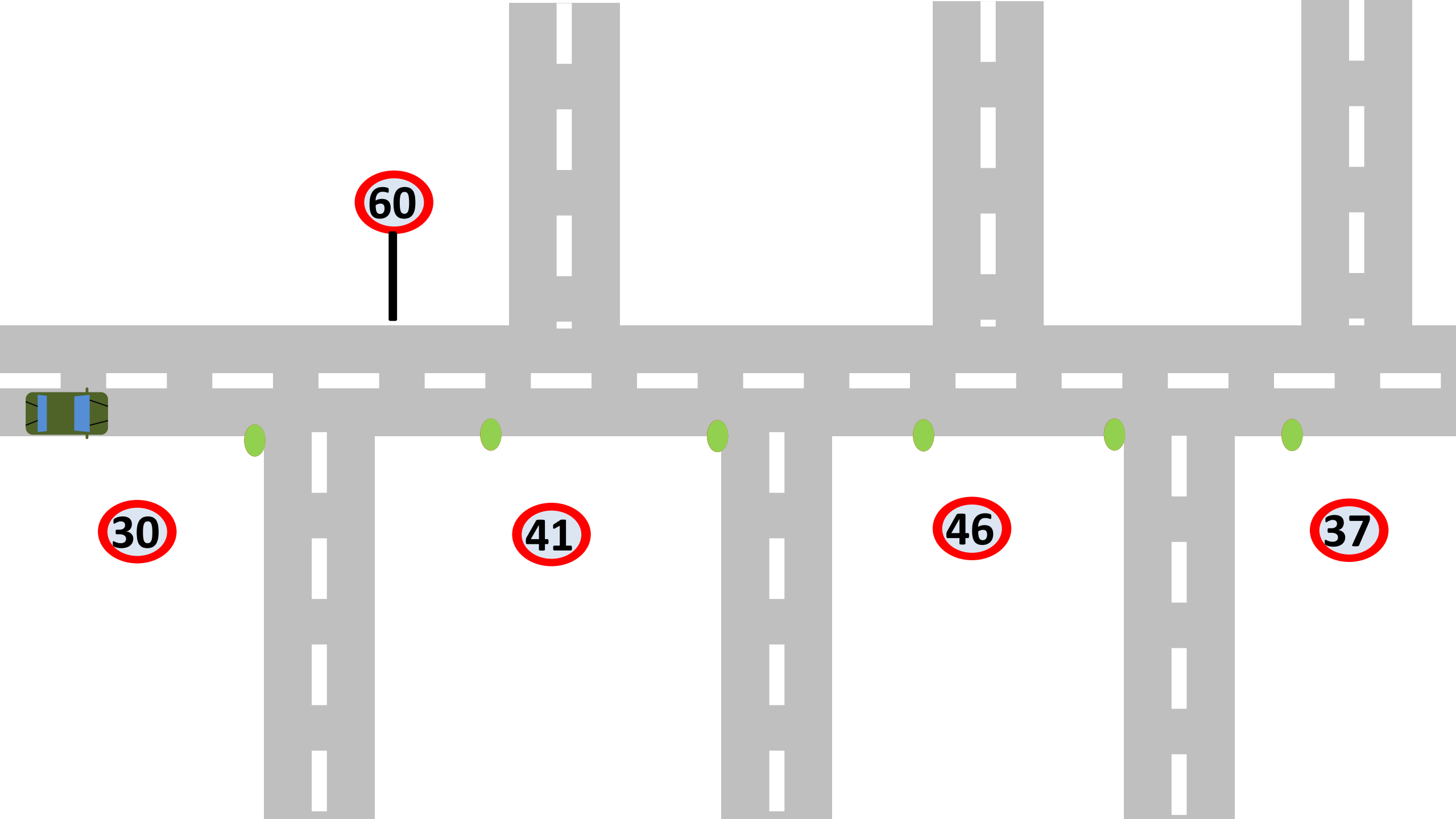


15 SEC.

8 SEC.



500 meters



60

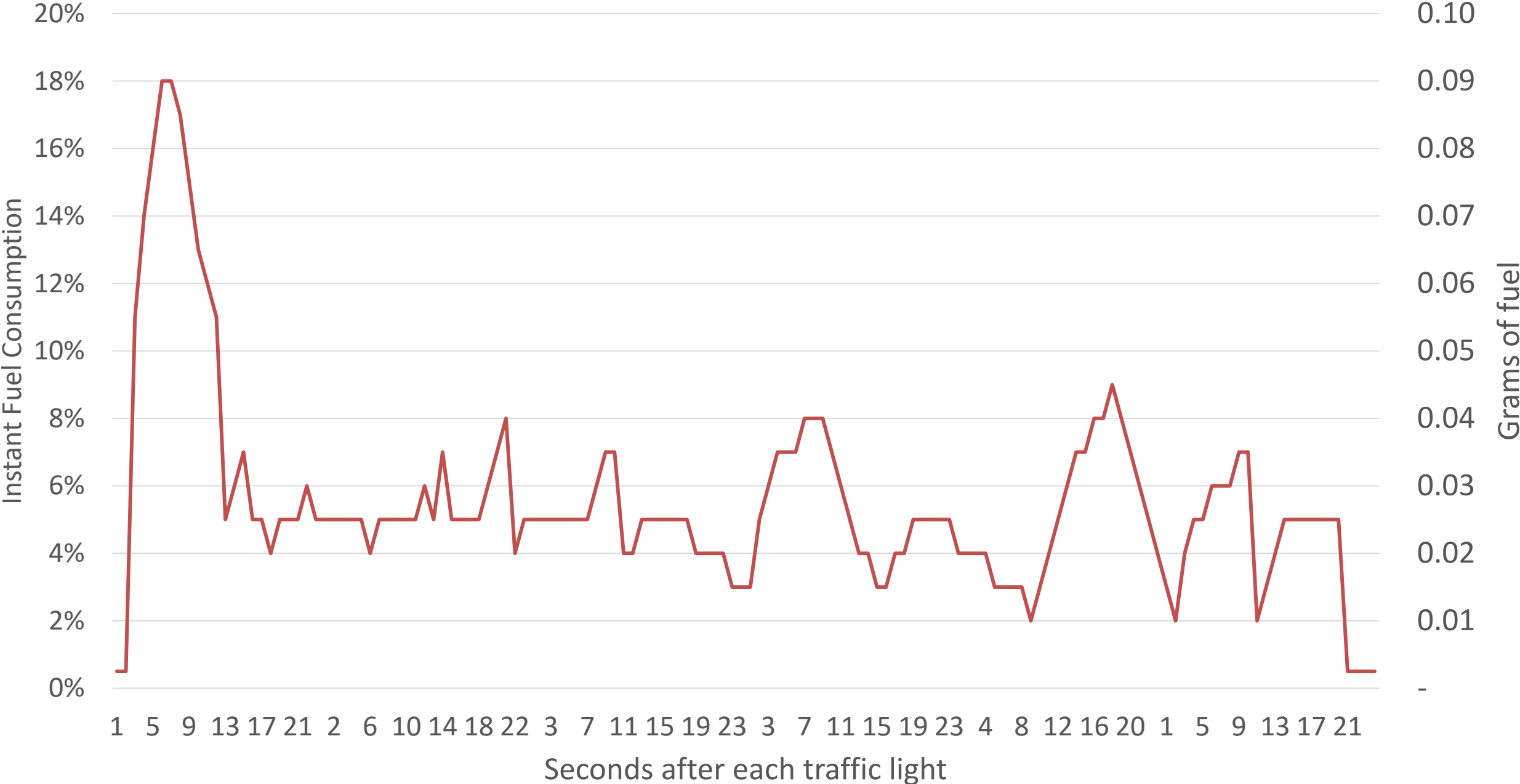
30

41

46

37

Smart fuel consumption during six traffic lights



	The smart way	The monkey way	Difference	Smart/Monkey
Average Fuel consumption	5.6 l/100	9.1 l/100	+3.5 l/100	+62.5%
Fuel burned	39 g	63 g	+27 g	+61.5%
Top speed	46 km/h	73 km/h	-27 km/h	-27 km/h
Average speed	35 km/h	35 km/h	0	0
Lowest speed	30 km/h	0 km/h	+30 km/h	+30 km/h
Time reaching destination	138 sec.	138 sec.	0	0

Traffic flow under 10 seconds

The monkey way



The smart way



+135%

0 CARS 2 CARS 4 CARS 6 CARS 8 CARS 10 CARS 12 CARS 14 CARS

CO₂ for 300.000 cars

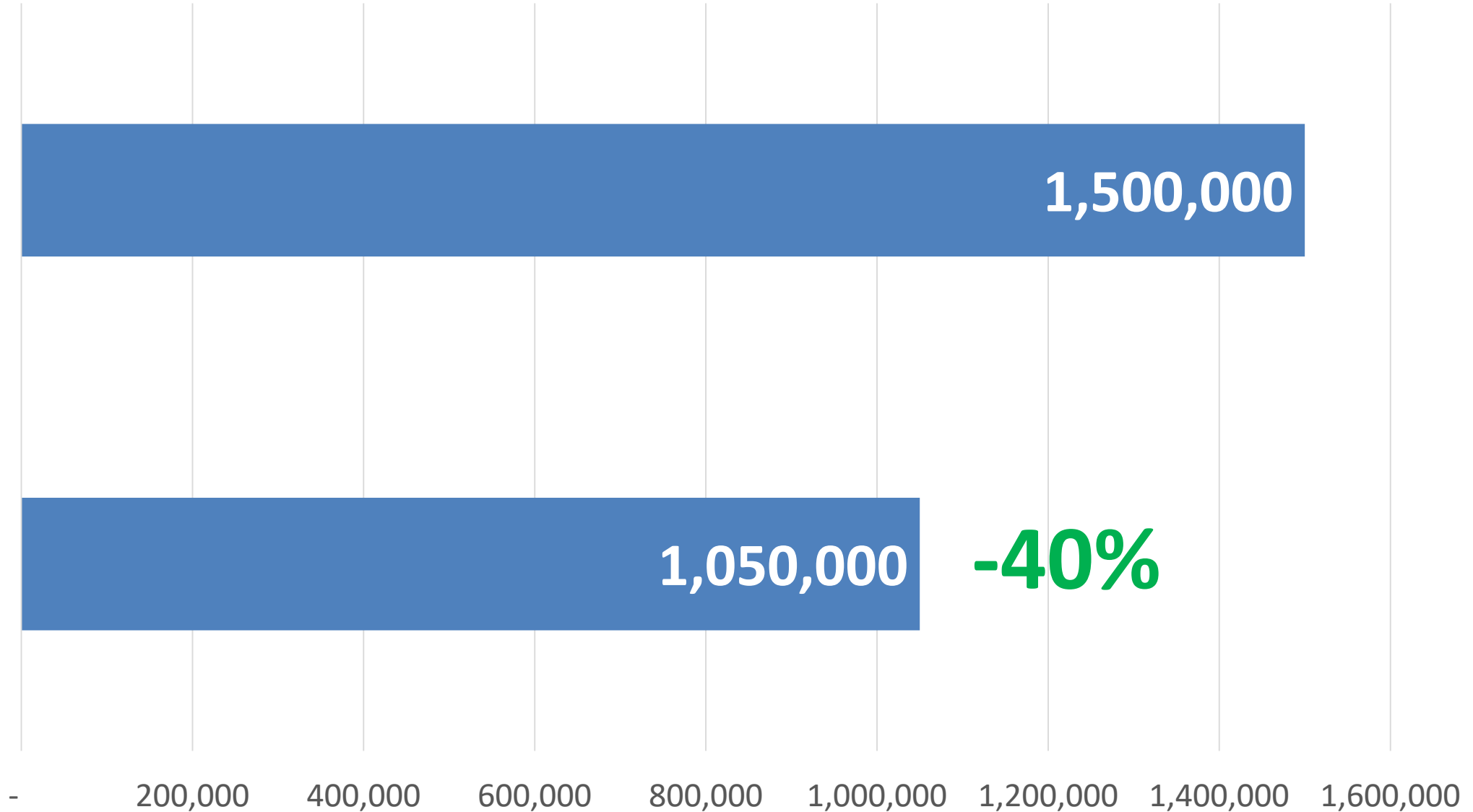
The monkey way

1,500,000

The smart way

1,050,000

-40%



Tons of CO₂

Thanks for watching

Signed,
The Smart Monkey

