

“La mobilité autonome : Comment la technologie influence la société et ses politiques ?”




















Conférence – 02 février 2026



La mobilité autonome, c'est quoi et comment cela est-il possible technologiquement ?

*Autonome mobiliteit: wat is het en hoe is het technologisch mogelijk?*

Dario Deserranno  
Espaces-Mobilités

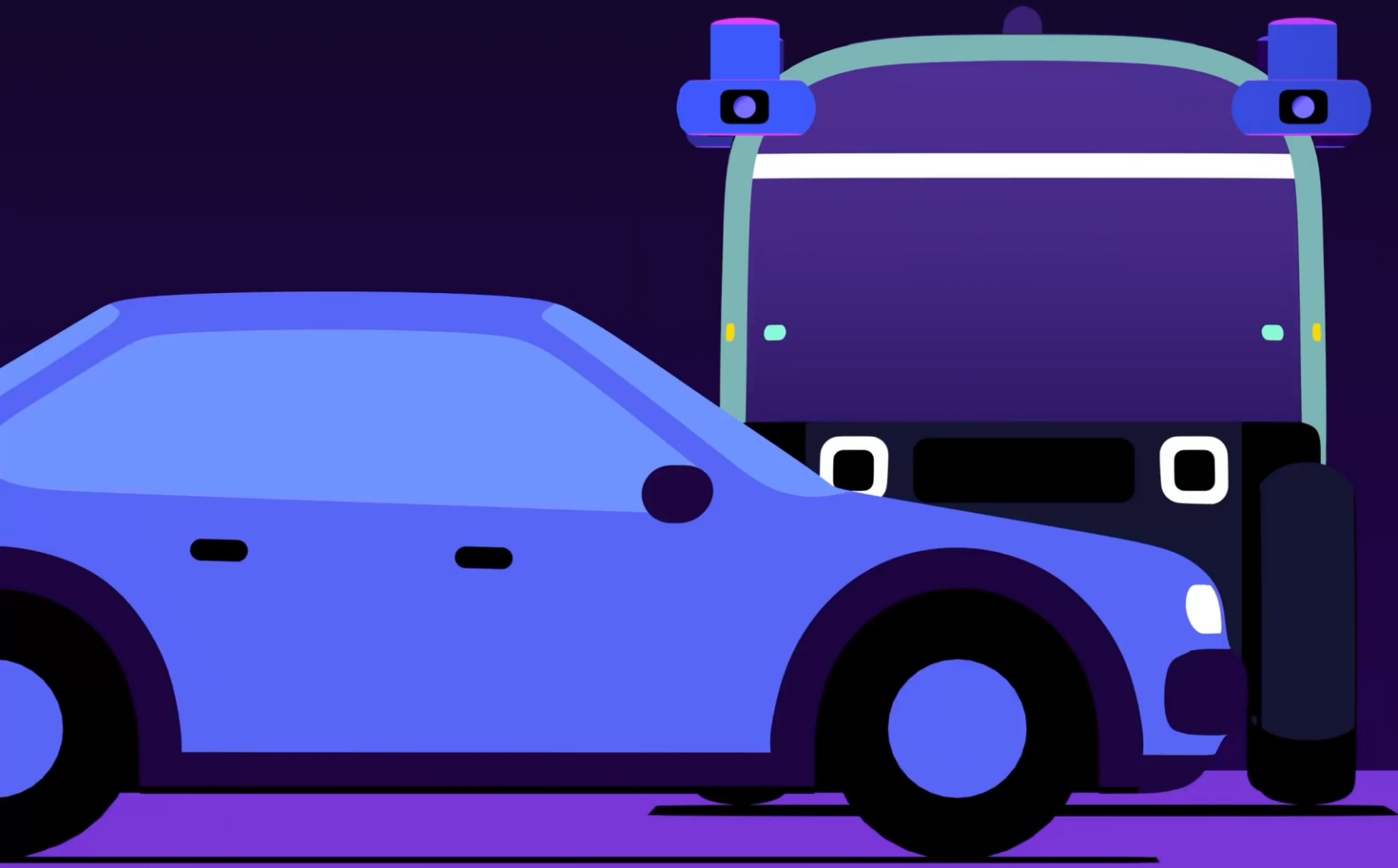
# Les 5 niveaux d'autonomie

		Steering and acceleration/ deceleration	Monitoring of driving environment	Fallback when automation fails	Automated system is in control
<i>Human driver monitors the road</i>	<b>0</b> NO AUTOMATION				N/A
	<b>1</b> DRIVER ASSISTANCE				SOME DRIVING MODES
	<b>2</b> PARTIAL AUTOMATION				SOME DRIVING MODES
<i>Automated driving system monitors the road</i>	<b>3</b> CONDITIONAL AUTOMATION				SOME DRIVING MODES
	<b>4</b> HIGH AUTOMATION				SOME DRIVING MODES
	<b>5</b> FULL AUTOMATION				

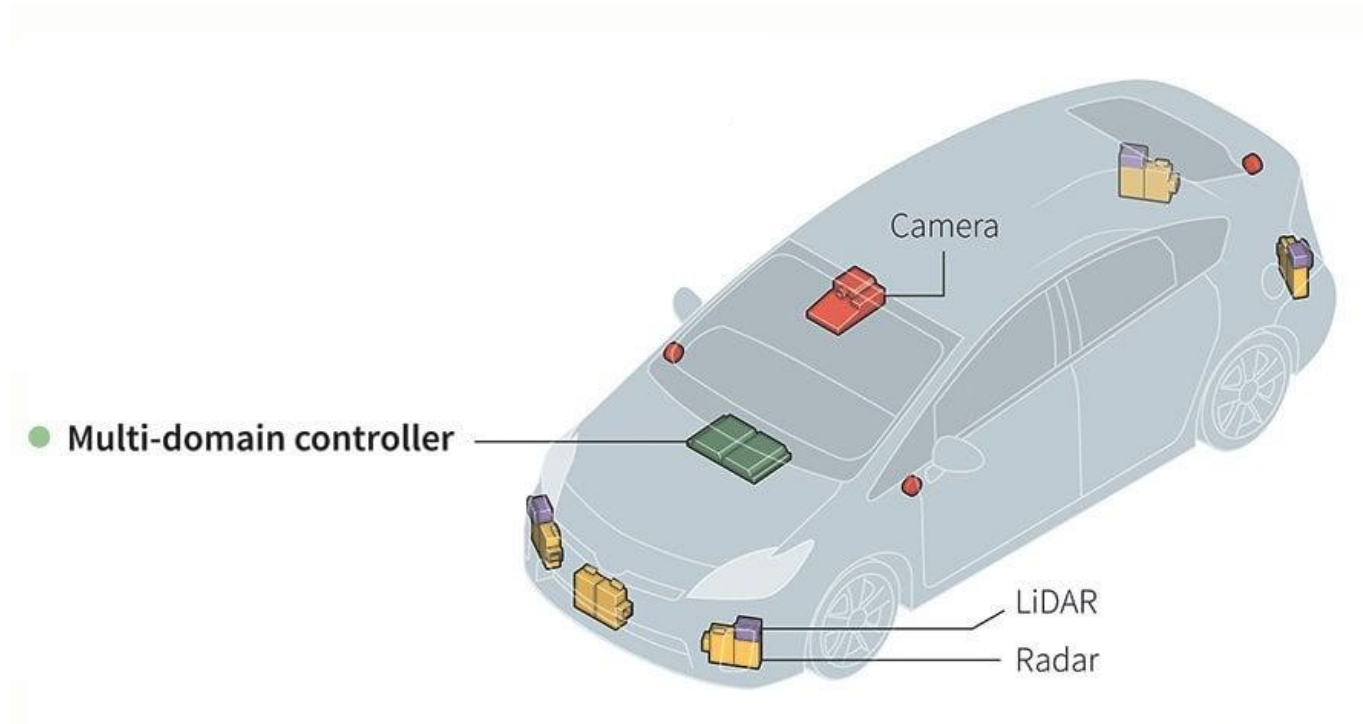
 *Automated system*  
 *Human driver*

# Les projets en Belgique (jusqu'à aujourd'hui)





# Les capteurs: cameras, radars et lidars



● Camera

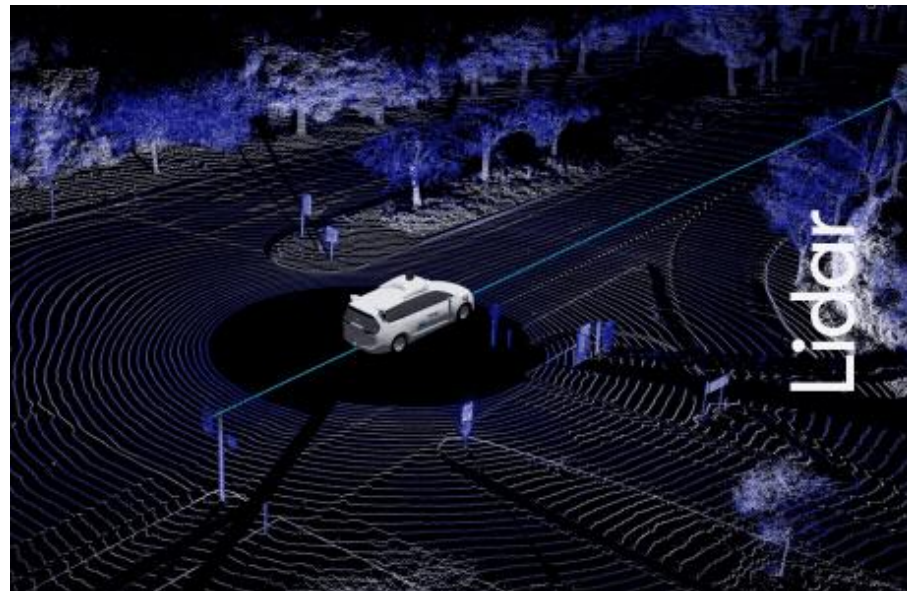
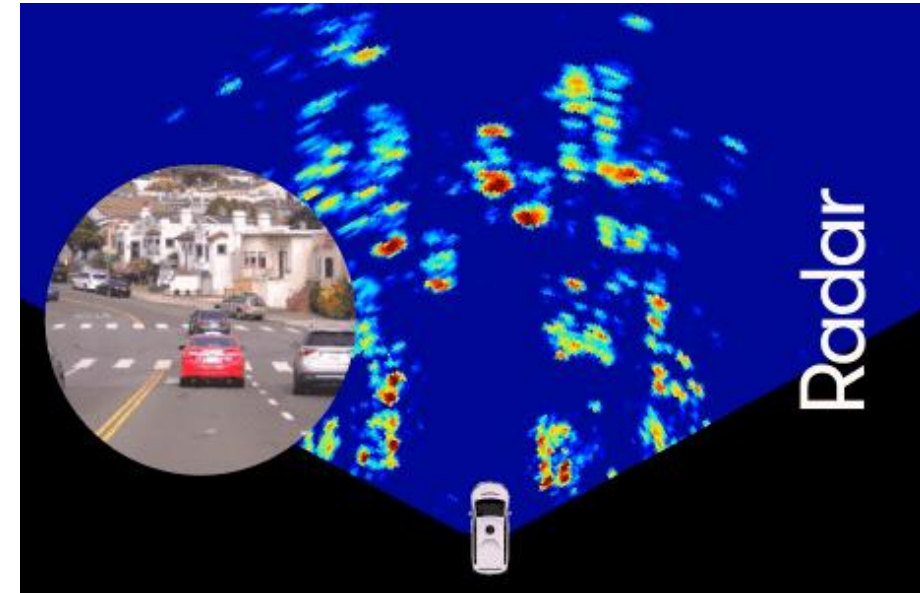
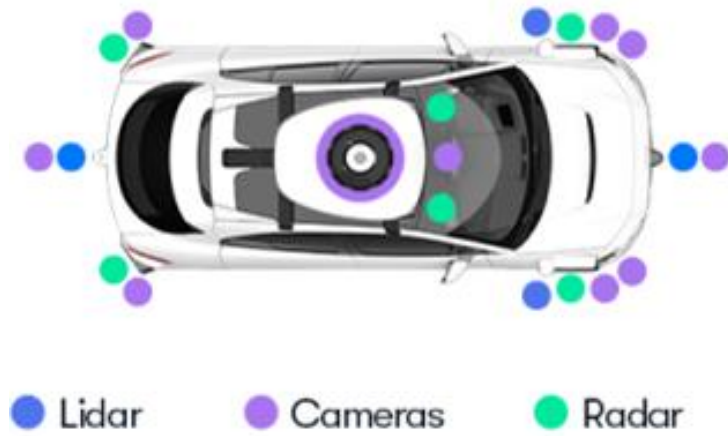


● Radar

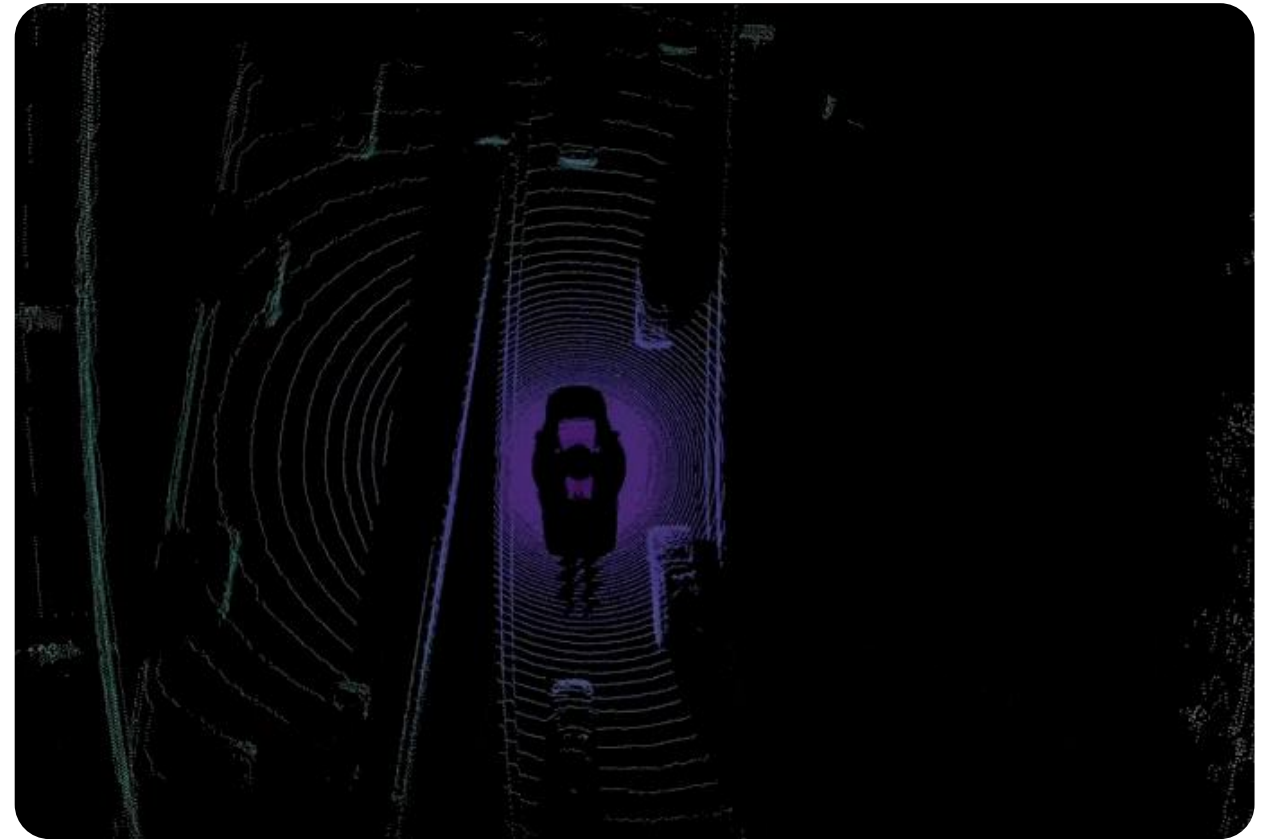
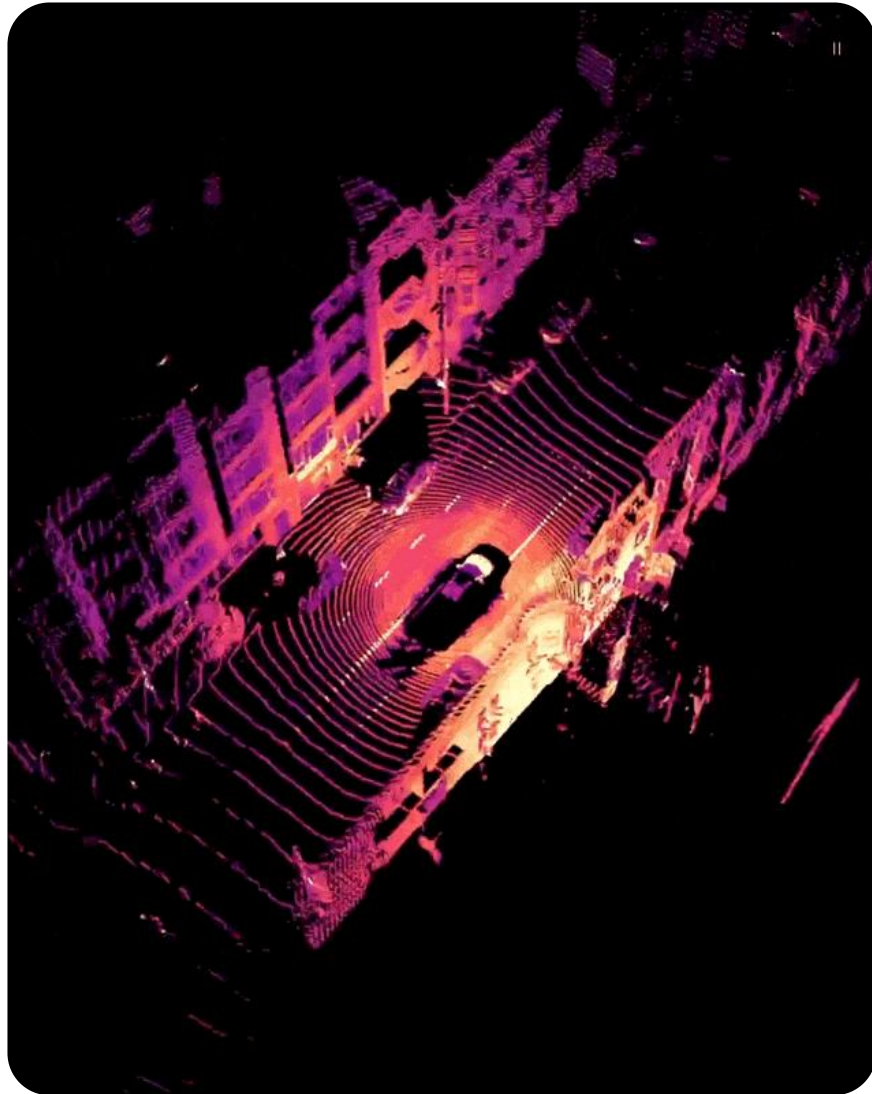


● LiDAR

# Les capteurs: cameras, radars et lidars



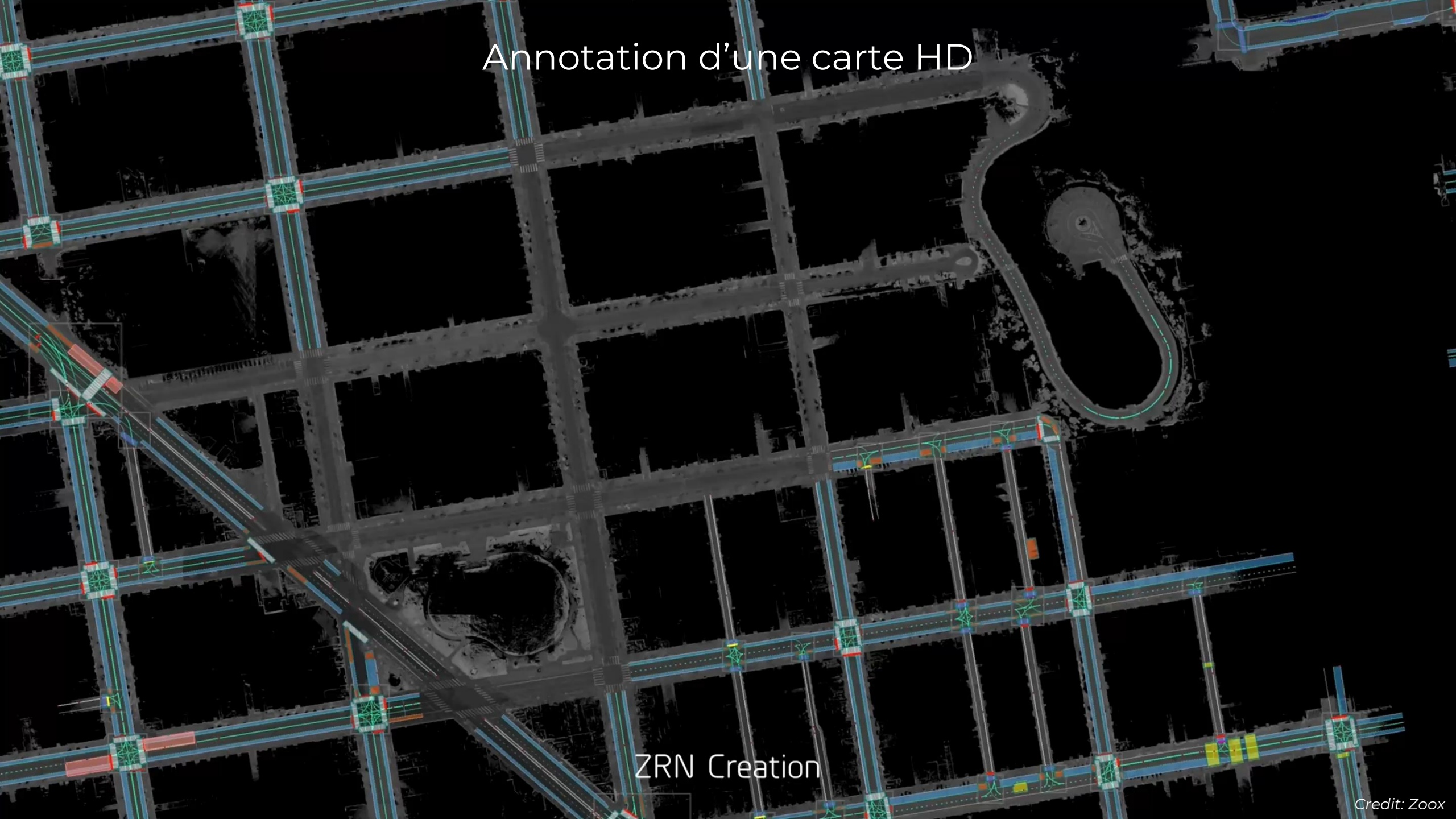
# Le Lidar – perception et cartographie



# La cartographie "haute-définition"



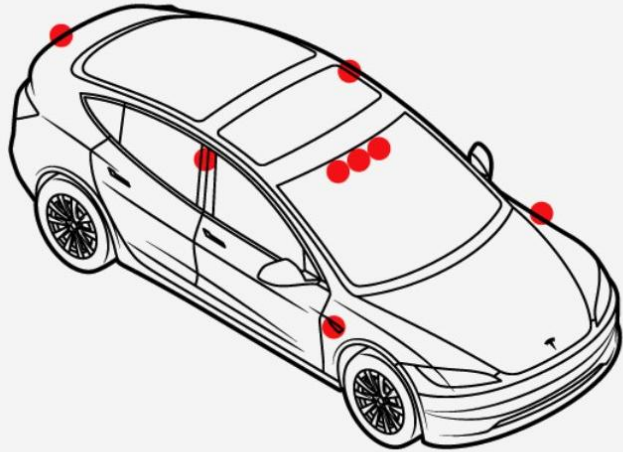
# Annotation d'une carte HD



ZRN Creation

# Les capteurs: niveaux 2 et 4

▼ Tesla Model 3



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Camera: 8

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Radar: 0

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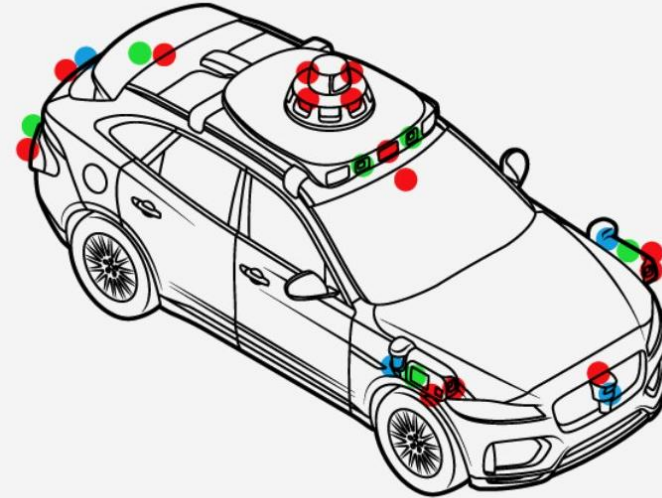
Lidar: 0

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Total Sensor Count : 8

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▼ Waymo 5th-gen Jaguar I-Pace



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Camera: 14

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Radar: 6

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Lidar: 4

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Total Sensor Count : 24

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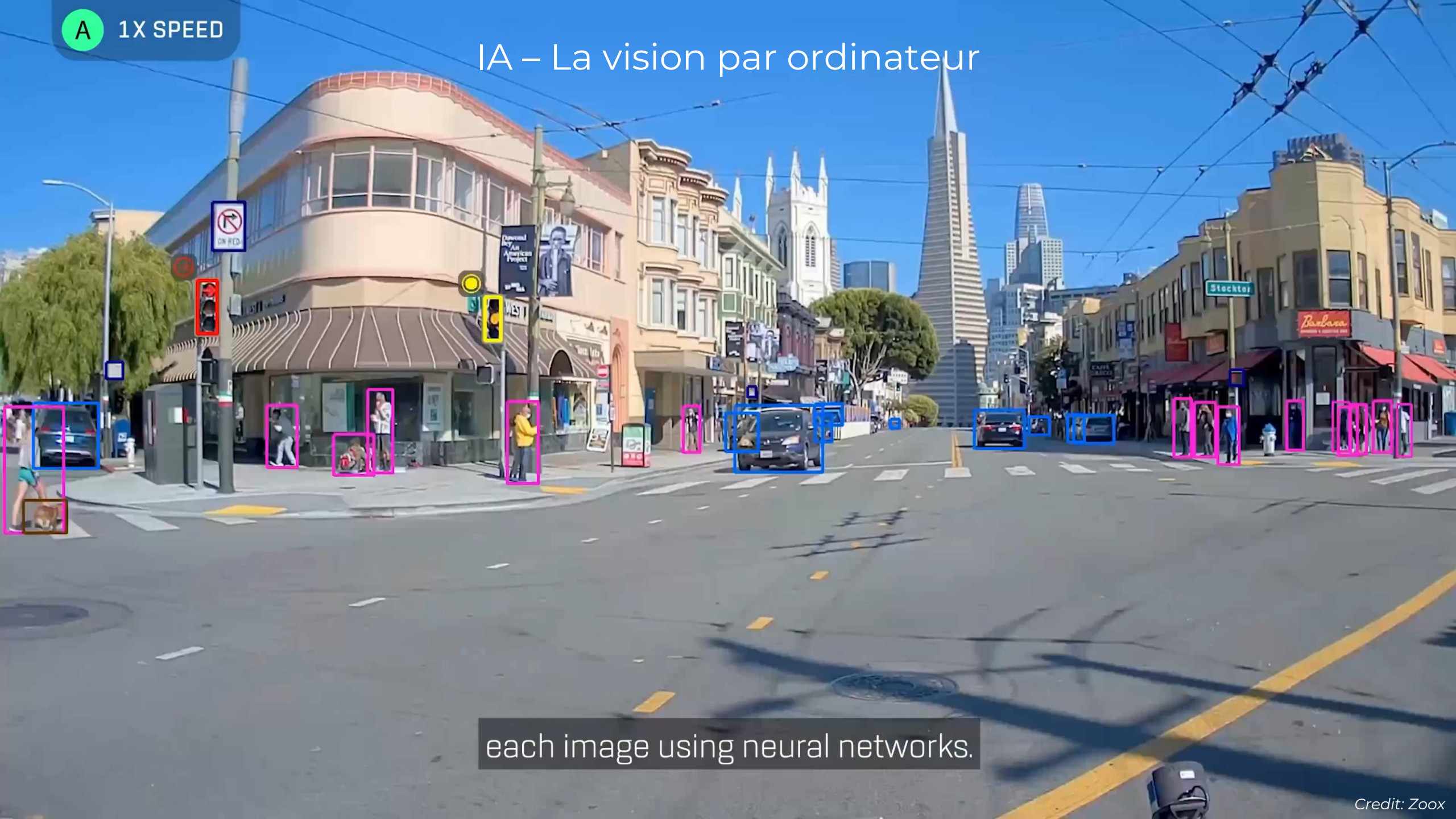
● Camera

● Radar

● Lidar

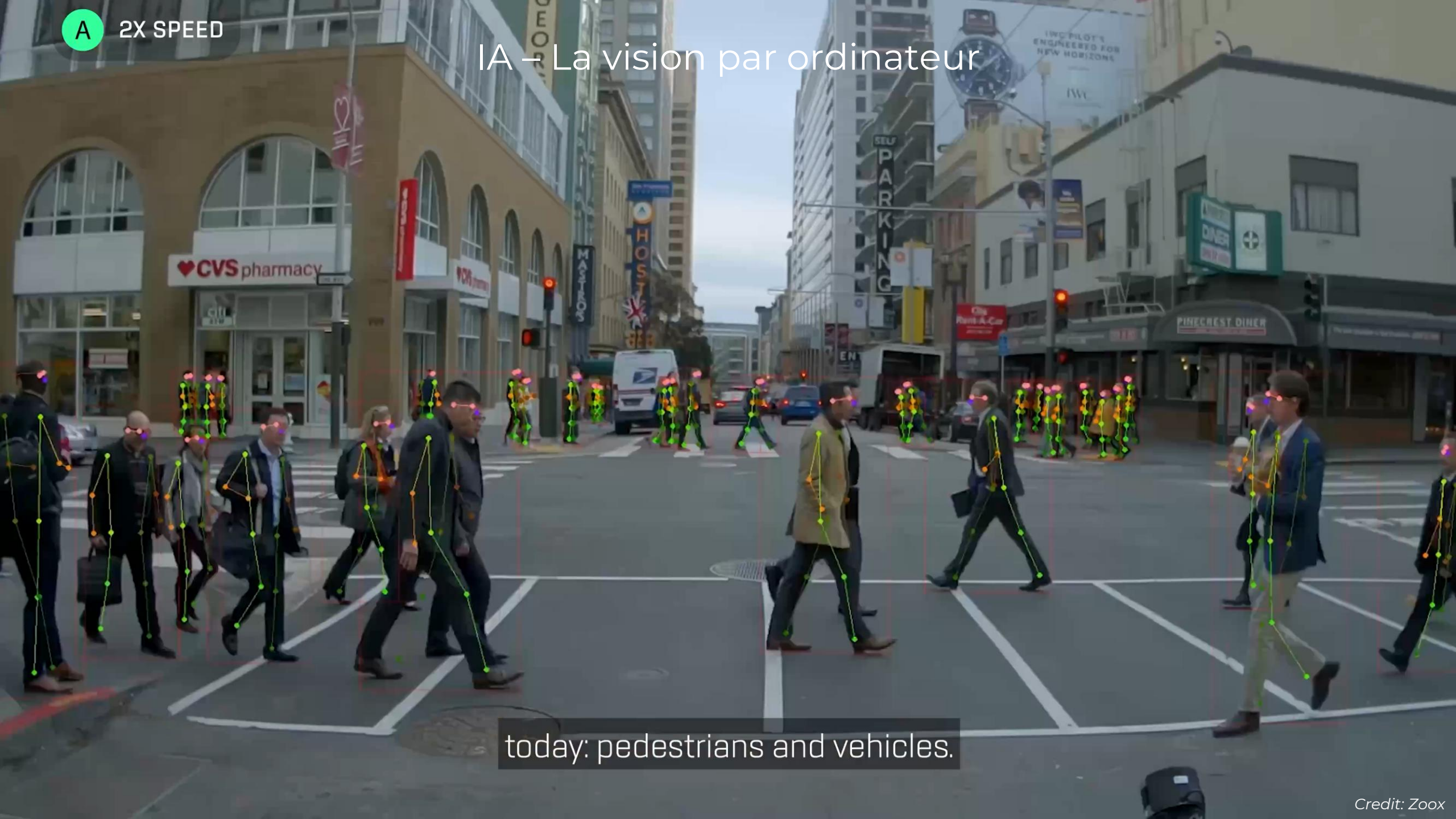
A 1X SPEED

# IA – La vision par ordinateur



each image using neural networks.

# IA – La vision par ordinateur



today: pedestrians and vehicles.

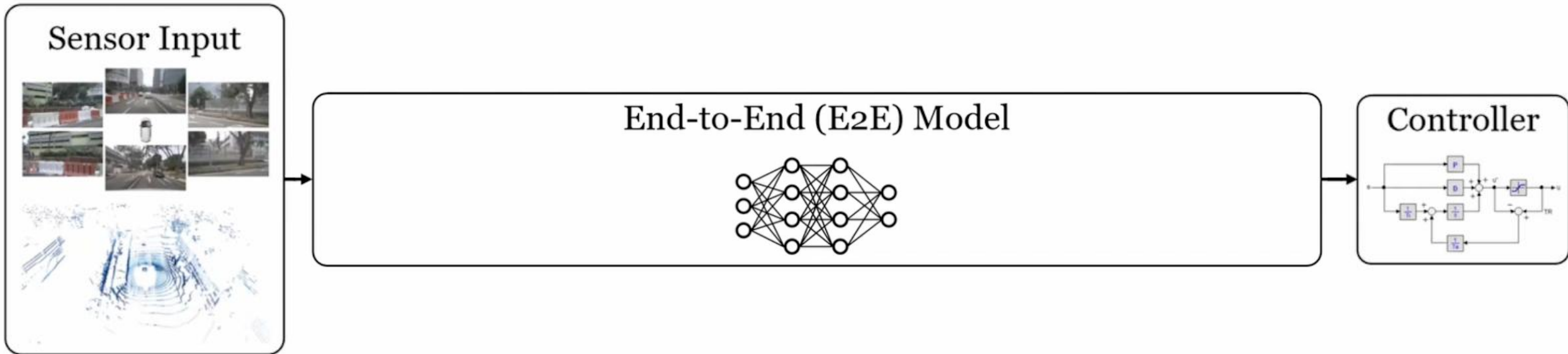
A

1x SPEED · SAN FRANCISCO

# IA – La vision par ordinateur



# IA: d'un système modulaire vers le "end-to-end"



# La télé-assistance: la perception humaine

1/25 mph AUTO



# La télé-assistance: la perception humaine

-3/25 mph AUTO

