

Self-Driving Car

รหัสวิชา อ22102 ชั้นมัธยมศึกษาปีที่ 2

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สื่อวีดิทัศน์นี้ใช้เพื่อการศึกษาเท่านั้น

ขอขอบคุณสื่อวีดิทัศน์

TECHNOLOGY: เทคโนโลยียานยนต์ใร้คนขับ

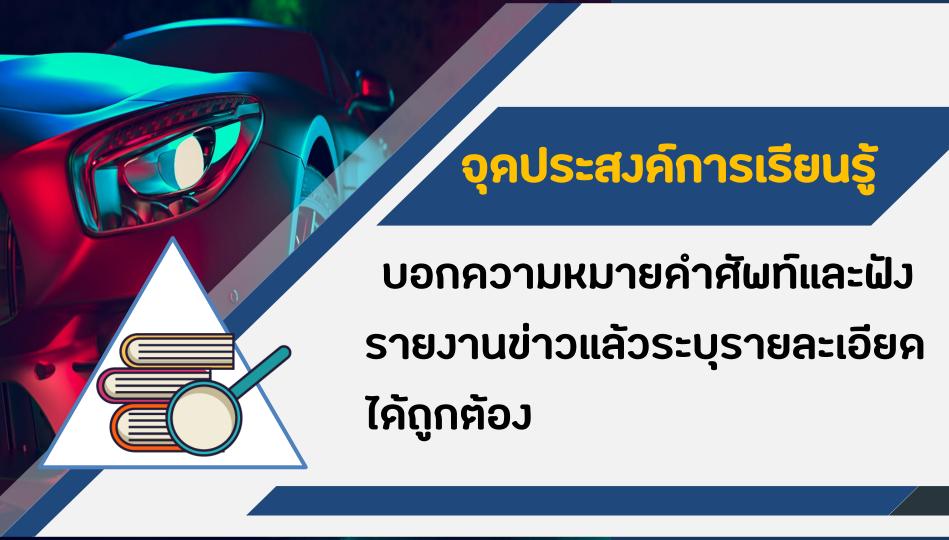
เผยแพร่โดย: Ensure Communication

เผยแผ่วันที่ 14 ก.พ. 2019

ทีมา : https://www.youtube.com/watch?v=FYIstZ2hcn0











driverless car

electronics show

safety features

radars





Words Station

traffic jams

automated era

highway

manufacturers





What are Self-driving cars?

An autonomous car or self-driving car is a vehicle that can guide itself without human conduction.





How Do Self-Driving Cars Work?

1. Sensors:

Sensors make autonomous cars a reality.



How Do Self-Driving Cars Work?

2. Software and Computing This helps the underlying brain of the car, the Al software to learn along the way as it monitors surroundings better.

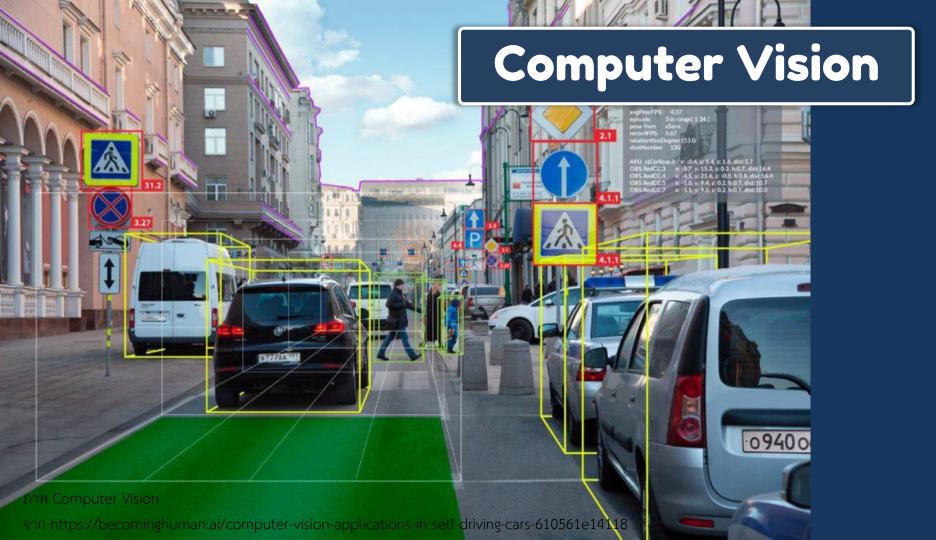


How Do Self-Driving Cars Work?

3. Data Learning and Algorithms

The sensors and software come together in a majestic alliance to make autonomous cars a possibility.





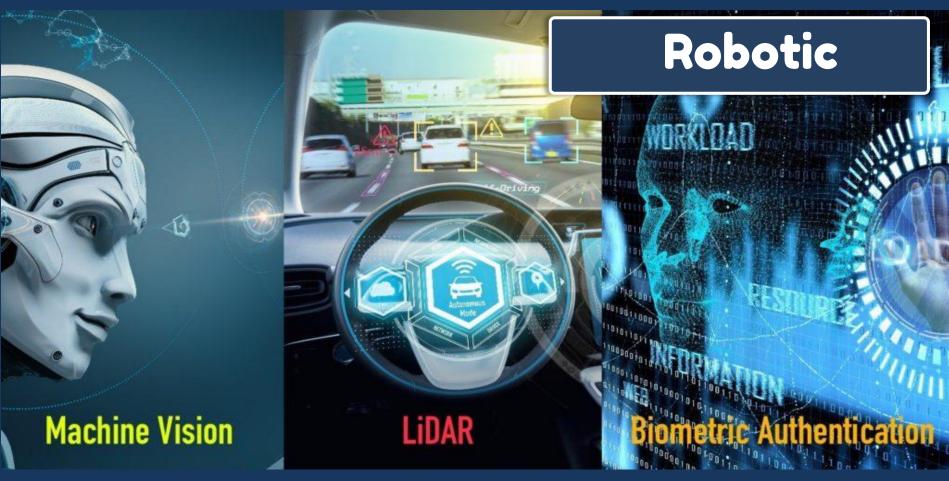


Navigation



ภาพ Navigation

จาก https://www.businessinsider.in/the-biggest-auto-parts-supplier-says-there-are-3-big-hurdles-holding-back-self-driving-cars/articleshow/56108886.cms



ภาพ Robotic

จาก https://www.therobotreport.com/silc-modular-approach-lidar-self-driving-cars

What would be the best thing about Self-Driving Cars?

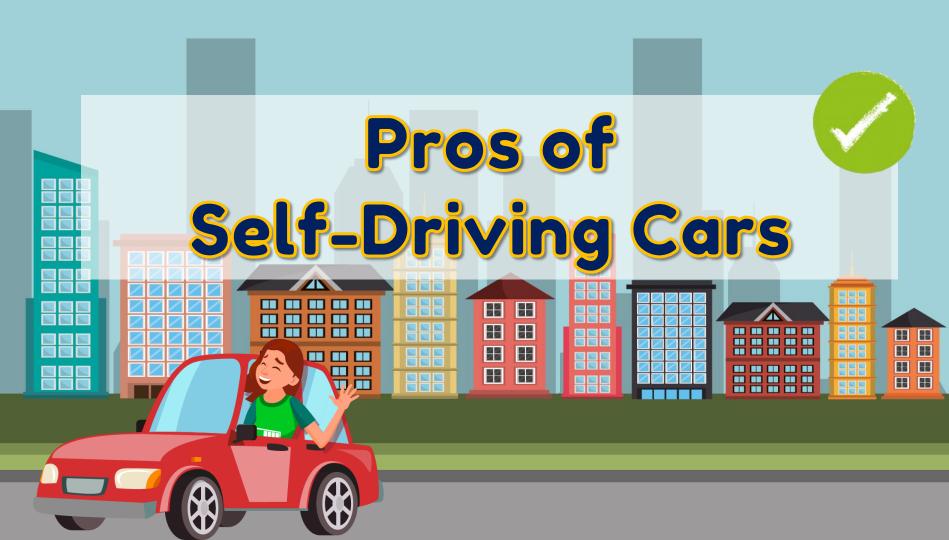
- no car crashes
- no traffic jams
- the driver can sleep
- you never get lost



What would be the best thing about Self-Driving Cars?

- fewer deaths on the road
- four seats facing each other
- more space in the car
- get from A to B faster





Pros of Self-Driving Cars



- **Economic benefits**
 - Social benefit lives saved



Pros of Self-Driving Cars



- Accessibility for those who cannot drive
- People who don't like driving



Pros of Self-Driving Cars



Environment, air quality, fuels/electric cars





Cons of Self-Driving Cars



- Increase of vehicles affecting congestion
- **Moral Machine**



Cons of Self-Driving Cars



Criminal hacking/ computer crashes or glitches



Loss of jobs



Cons of Self-Driving Cars



Criminal hacking/ computer crashes or glitches



Loss of jobs



Group discussion

Pros(+) and Cons(-)
of Self-Driving Cars





Quote of the day

"Self-driving cars are the natural extension of active safety and obviously something we should do."

Elon Musk



บทเรียนครั้งต่อไป Alpha 2 สิ่งที่ต้องเตรียม

- 1. ใบงานที่ 55.1-55.3
- 2. วิดีโอ: UBTECH Alpha 2's Amazing Actions

สามารถดาวน์โหลดได้ที่ www.dltv.ac.th