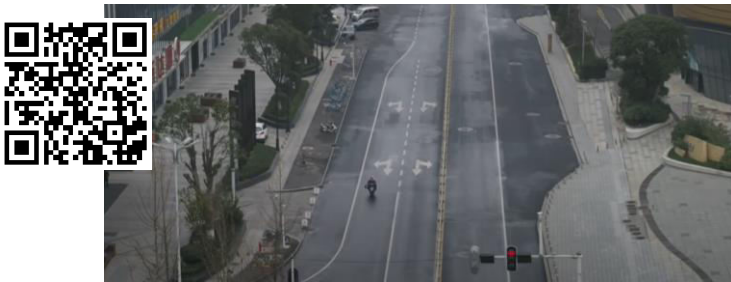


Chap 08

The Smart Untact City



A daily life of the Untact City



<The lockdown empty city>

First of all, eating is the most important thing a person needs to live in order to live.

Therefore, it would be necessary if a food supply system using a robot was prepared to automatically supply food in a city where lockdown was applied.

It is finally the last chapter. In the Pandemic era, the city can be closed (lock-down). What can people do to live in the city even in this lockdown situation?

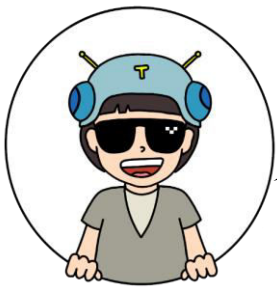


<Food delivery robot>

Pandemic will change the all ways of that cities run and do it's functionalities. What new lifestyles will be introduced?

First, remote work will be introduced as we learned the previous chapter!

Exactly! Also, I think the medical treatment would tend to be done in a remote way in the future like below. This is called "telehealth". In addition, the patient's condition is consistently delivered and managed to the doctor in real time through a smart device (for example: Apple watch).



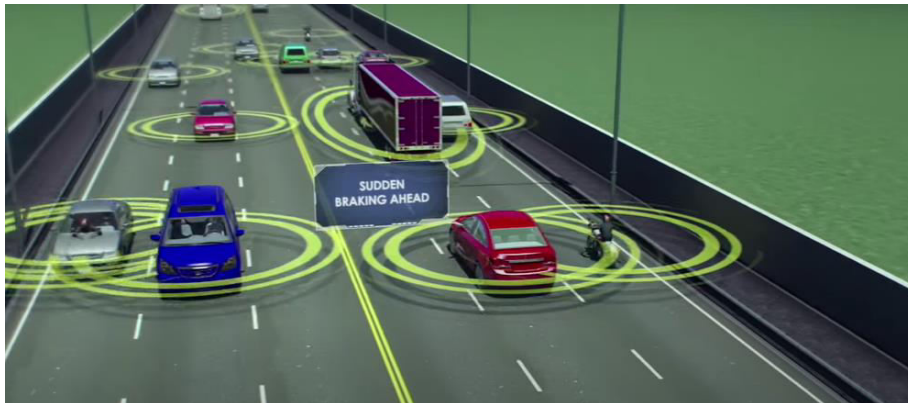
All is Connected.

There will also be automation in transportation. A startup called Zoox is a company that makes Robo Taxi, and Amazon recently acquired it. The era of people driving in a city with heavy traffic may disappear soon. In cities, Robo taxis are patrolling by optimized routes.



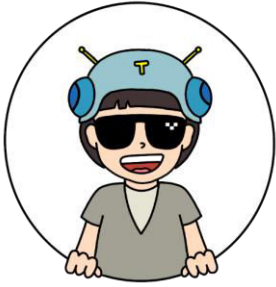
May, Have you ever heard of the words V2V and V2I?

Of course! V2V means Vehicle-to-vehicle and V2I stands for vehicle-to-infrastructure. Look at the next picture. A car communicates with other cars and also with buildings in the city. As a result, safe autonomous driving is possible by sharing all information between ones in the city!



However, I think that V2V alone is not enough to create a smart city to solve the problems of the pandemic era. I think that the smart city combined with various robots and communication technologies should be able to solve the following problems.

- Traffic jam,
- Safe walkable roads,
- Environment protection,
- Response to climate change,
- Community Connection,
- Economic revitalization
- Infection tracking
- Untact delivery system
- Analysis of urban hot spots
- Untact delivery system
- Lack of parking space



Let's solve some tricks !

Assignments #1



1. Imagine and explain three situations that a blocked city may suffer. (example: food shortage)



2. Investigate and explain what technologies we need to solve a one of the problems you mentioned above



3. Find companies or organizations that are actually solving the problem of the 2, and introduce them and their work (before and after) with pictures (capture from the web browser) of how they solved the problem.



Let's solve some tricks !

Assignments #2



1. Think and describe 5 requirements that a Smart City must satisfy in the pandemic era (example: automatic delivery system without contacting people)



2. Among the chapter 1 – 7, we have seen a lot of issues arose by the pandemic (e.g., covid19). Select (think yourself) a single problem.

examples:

- Corona blue (depression)
- Plastic use and environmental impact
- AR/VR for untact education
- Surveillance Robots and new problems (e.g., privacy)
- Effects of urban hot spots (폭염)