AI and Big Data for Urban Planning I

Let's join the session! ⟩⟩⟩⟩⟩⟩ ⟩⟩⟩
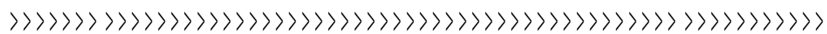
The following questions are based on the contents of the session. Watch the session and answer each question.

[1] What is the problem with using manual methodologies for data collection?

- We cannot collect a lot of information using manual methodologies such as interviews or questionnaires.

- Manual methodologies place a large burden on researchers.

[2] What characteristics does Bluetooth have?

- Bluetooth has four characteristics. The first is that it exchanges data wirelessly within a range of 10 meters. The second is that it is always looking for other signals nearby. The third is that each Bluetooth has an assigned number. And the fourth is that many devices now have the Bluetooth function.

[3] What can we do by using Bluetooth scanning systems?

- We can collect a lot of data using the systems.

- We can collect more data and do so more effectively than with any manual methodology.

[4] What kind of information is obtained using Bluetooth at the Louvre Museum project?

- Information about visitors' trajectories, the time the visitors take to look at a work of art, and the time the visitors take to move between works of art is obtained.

[5] What does the visitors' most used trajectory mean?

- It is the route on which we can see "must-see works of art" within the shortest time.

- It is the shortest path by which we can see famous works of art.

- We can expect this path to become crowded easily.

**[6] How can we use the results of the Louvre Museum project?**

- I think we can use them to find the best route for seeing popular works of art.

- I think we can predict congestion points and avoid them.

[7] If we plan everything in advance, what do you think will happen?

- I think we will lose chances to encounter unexpected things.

- I think our lives will be boring.

- I think we will lead monotonous lives.
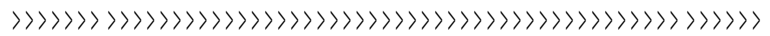
[1] The following is a summary of the session. Write down the appropriate words in the blanks in the passage. You may use the same words for several blanks.

It is necessary for (urban) (planners) to collect (information) about people's (behavior) in cities. In the past, data was collected using (manual) (methodologies), such as interviews or questionnaires. However, in order to get a lot of data, the technologies of (AI) and (Big) (Data) are now used. A good example is the Louvre Museum project. In this project, (Bluetooth) was used to collect data about (visitors). The members of the project team could collect a lot of data using a (Bluetooth) scanning system. They (analyzed) the dataset of visitors' behaviors during one year using AI, and found the (shortest) route on which they could look at famous (works) of art. The information about the route seems to be (useful) for visitors, but using the route also means we lose the chance to encounter (unexpected) (things). We need something more than (technology) to make cities livable.