Guidelines for the use of AI cameras

September 1, 2021

1. The aim of installing AI cameras

At Kashiwanoha Smart City, we deploy measures that ensure a safe, secure and comfortable life. We will install AI cameras in the area surrounding Kashiwanoha-campus Station and Aqua Terrace Walk as part of these initiatives. For the location of AI camera installation, please refer to “Figure 1: Location of AI cameras” on page 1. The following are the aims of the camera installation (①②):

① To improve the safety and security of public spaces

② To build a comfortable community

2. The location of AI cameras

A total of 29 AI cameras (4 in Aqua Terrace Walk and 25 around Kashiwanoha-campus Station) will be installed.

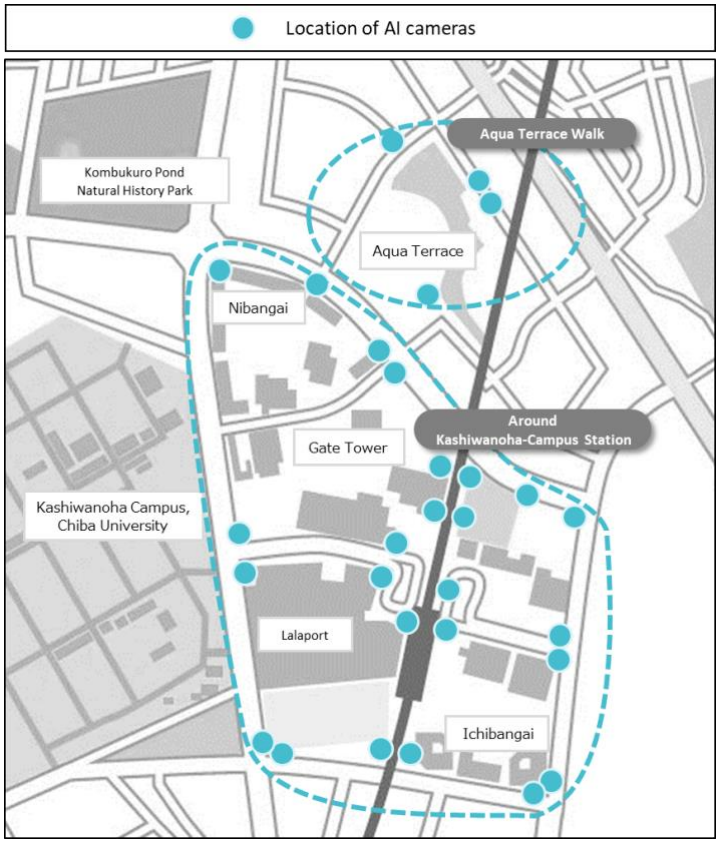

Figure 1: Location of AI Cameras

3. Communication regarding the installation of AI cameras

In installing AI cameras, we will carry out following communication activities:

- Prior notice to local residents (distribution of printed materials)
- Briefing sessions for local residents following appropriate communication
- Publication of materials used at the briefing session for local residents on the website of UDCK Town Management (UDCKTM)
- The display of information where an AI camera is installed
- Providing the aforementioned publication and notices in Japanese, English, and Chinese

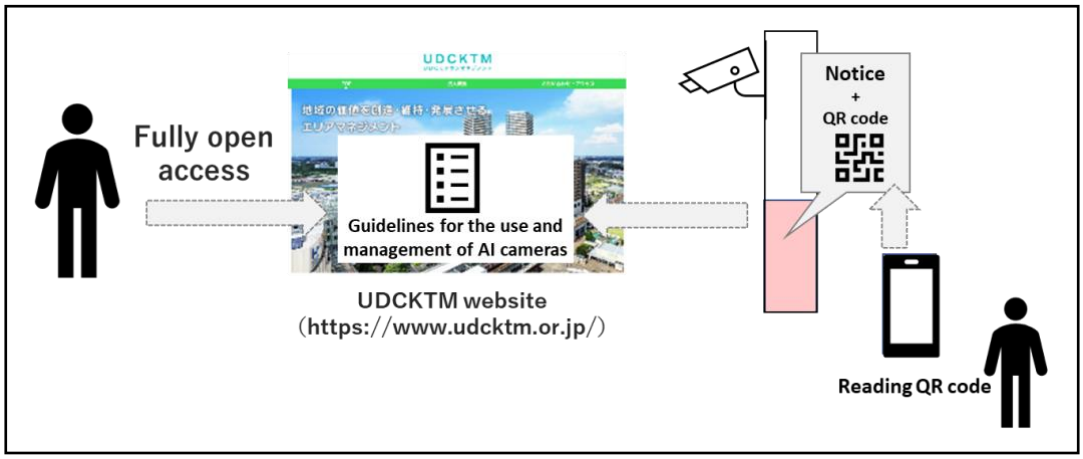

Figure 2: Displayed notice where the AI camera is installed and publication on the website

4. Kinds and use of data to be captured by AI cameras

The AI in the camera analyzes images and captures generated data. Please note that the camera retains general information and does not retain individuals' personal data.

① Data to detect abnormal behavior

- Kinds of data to be captured

Items	Description
Abnormal behavior	Fall/squatting/grabbing
Coordinates	Latitude and longitude of the detecting camera
Date and time	yyyy-mm-dd HH:MM:SS

Items	Description
Dangerous objects	Bats/knives/guns/saws
Coordinates	Latitude and longitude of the detecting camera
Date and time	yyyy-mm-dd HH:MM:SS

- The location of capture
  - Around Kashiwanoha-campus Station (see “Figure 1: Location of AI cameras” on page 1).
- Use
  - To notify the security guard of abnormal behaviors such as squatting/fall, grabbing, and carrying weapons.
  - For research and service development by research institutes, universities, and private firms, provided that the data is used in measures that contribute to community building.
- Notes
  - The detection of abnormal behavior by AI cameras is to assist disaster prevention work. UDCKTM does not guarantee that the security guard will be dispatched to the location when the behavior(s) subject to detection occurs.
  - The period from the date of AI camera installation to March 31, 2022, is deemed to be a trial period, and no notification of the detection of abnormal behavior to the security guard will take place during this time frame; no security guard will be dispatched to the location.

② Data to detect trespassing

- Data to be captured

Items	Description
Abnormal behavior	Trespassing
Coordinates	Latitude and longitude of the detecting camera
Date and time	yyyy-mm-dd HH:MM:SS

- The location of capture
  - Aqua Terrace Walk (see “Figure 1: Location of AI cameras” on page 1).
- Use
  - To notify the security guard of trespassing in the off-limit zone in Aqua Terrace Walk.
  - For research and service development by research institutes, universities, and private firms, provided that the data is used in measures that contribute to community building.
- Notes

  The detection of abnormal behavior by AI cameras is to assist disaster prevention work. UDCKTM does not guarantee that the security guard will be dispatched to the location when the behavior(s) subject to detection occurs.

③ Data on people's movement

 Kinds of data to be captured

Items	Description
Date and time when data collection starts	yyyy-mm-dd HH:MM:SS
Number of people	Number of people who moved towards IN from the baseline
	Number of people who moved towards OUT from the baseline
	Total IN and OUT movement
Attributes estimated by AI	Number of males aged 19 or younger
	Number of males aged between 20 and 34
	Number of males aged between 35 and 49
	Number of males aged 50 or older
	Number of females aged 19 or younger
	Number of females aged between 20 and 34
	Number of females aged between 35 and 49
	Number of females aged 50 or older

 The location of capture

  All locations where AI cameras are installed (see "Figure 1: Location of AI cameras" on page 1)

 Use

  For research and service development by research institutes, universities, and private firms, provided that the data is used in measures that contribute to community building.

5. How image data is treated

The images captured by the camera will be immediately analyzed and discarded by AI, and will not be used for any other purpose.

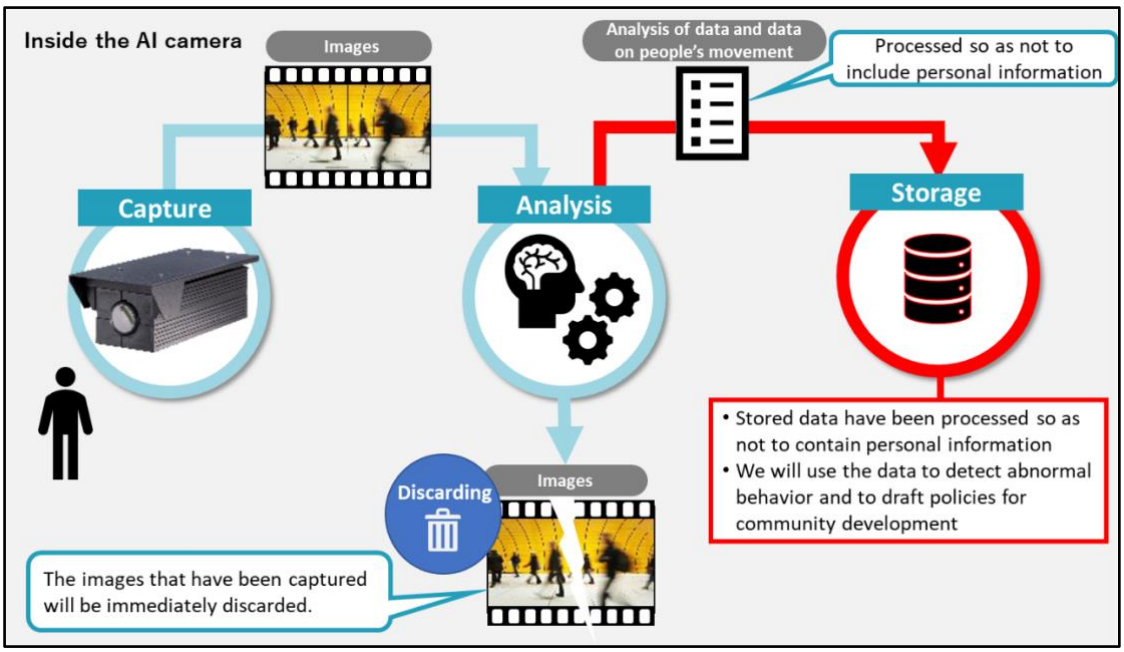

Figure 3: Flow chart depicting the discarding of image data, analysis, and capturing of data on people's movement by the AI camera

6. Maintaining, managing, and running AI cameras and data

UDCKTM maintains, manages, and runs AI cameras and data. UDCKTM nominates the manager in charge and builds a running/management system.

The manager in charge takes necessary measures to ensure that persons not required to maintain, manage, and run AI cameras and data do not operate the camera or view data.

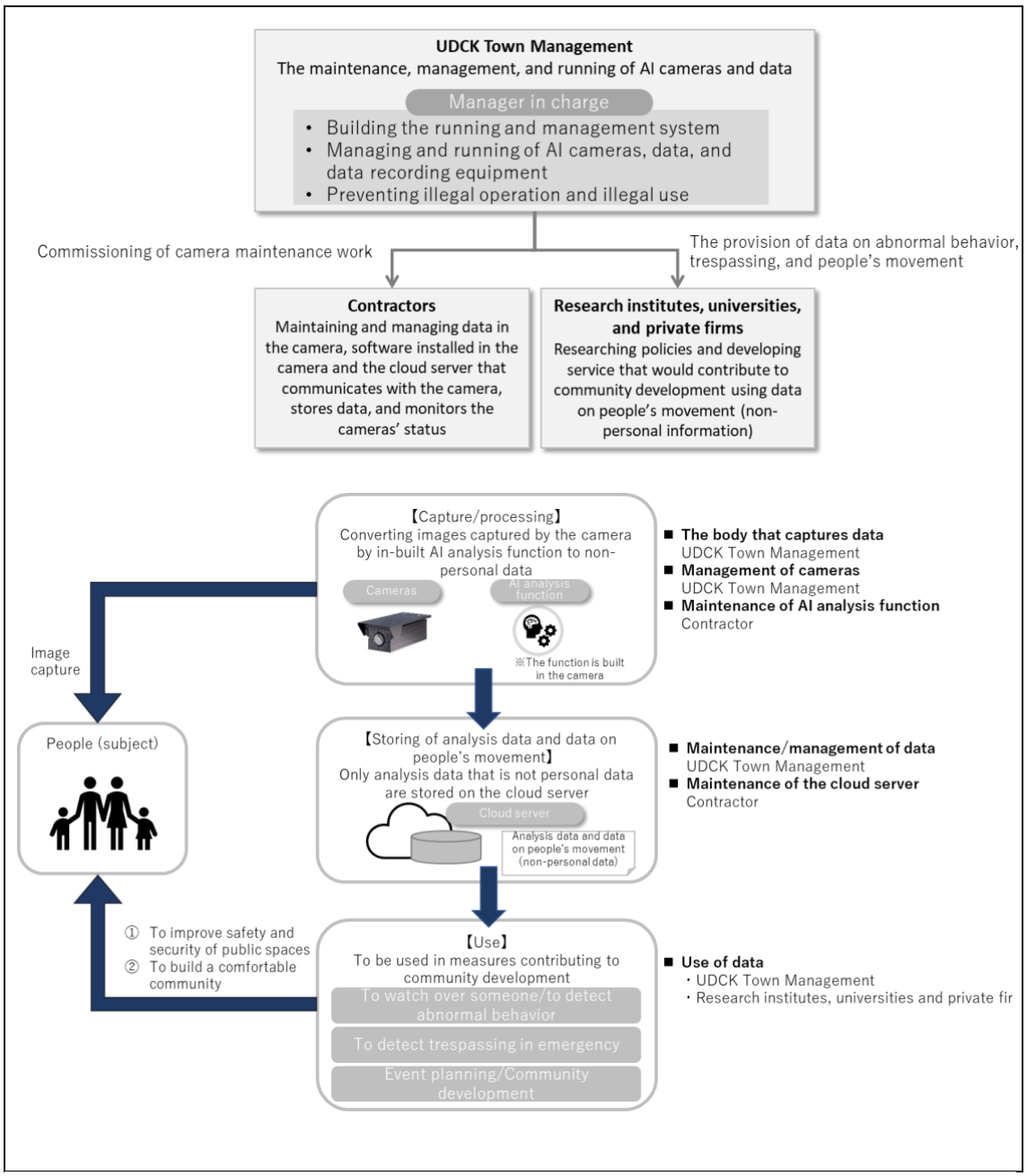

Figure 4: Diagram of maintaining/managing/running AI cameras and data

7. The provision of data on detected abnormal behavior, trespassing, and people's movement to external parties

In addition to using data for its own purpose, UDCK, the body that captures data, shall provide data on detected abnormal behavior, trespassing, and people's movement generated by the AI camera to research institutes, universities, and private firms, provided that such data are used to contribute to community development.

The condition for providing data to external parties is the conclusion of a contract with the party to be provided the said data (the recipient). This contract is to confirm that the recipient agrees and guarantees to observe the following conditions (①②③④⑤):

① To put safety measures in place to prevent leaking of data on detected abnormal behavior, trespassing, and people's movement.

② To not use data on detected abnormal behavior, trespassing, and people's movement for purposes other than that of contributing to community development that has been agreed with UDCK.

③ To ensure that data on detected abnormal behavior, trespassing, and people's movement is not viewed by or provided to third parties, except for cases in which it is instructed or stipulated by legislation.

④ To immediately delete relevant data and appropriately dispose of recording media by such means as destruction to prevent restoration when the purpose of receiving the provision of data on detected abnormal behavior, trespassing, and people's movement is achieved.

⑤ To observe the act on the protection of personal information (Act No. 57 of 2003) and other related legislation.

When data on detected abnormal behavior, trespassing, and people's movement are provided to the recipient, we record and store the following items (①②③④) as well as consult the ethics committee, a third party, (https://www.udcktm.or.jp/ethics/index.html) in regards to aims and content so as to prevent inappropriate use without public interests:

① The year, month, and date on which data are provided to external parties

② The name and address of the external parties and names of their representative and those in charge

③ Purposes and reasons for provision of data to the external parties

④ Description of data provided to the external parties

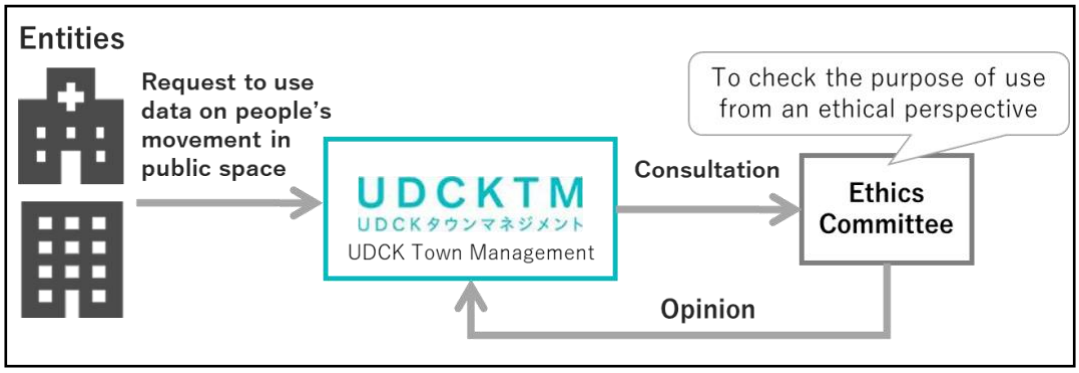

Figure 5: Consultation with the Ethics Committee when data are provided to external parties

The external recipients of data are published on the website of UDCK Town Management (https://www.udcktm.or.jp/) as required.

8. Inquiries regarding the current project

(Name) UDCK Town Management

(Address) 2, 148 Gaiku, Kashiwanoha Campus, 178-4, Wakashiba, Kashiwa, Chiba Prefecture

(Tel.) 04-7137-2228

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