

Digital Transformation of Toyosu Market's Sanitation Inspection: Implementation of an HACCP-compliant system through tablets and cloud computing.



Digitalised Inspection 1



Digitalised Inspection 2



Inspection Tools

Situation (background, aims, etc.)

- The results of on-site monitoring and guidance were recorded on paper and then later transcribed into Excel at the office, which made it difficult to calculate totals and added extra manual work. This also made it difficult to check the previous guidance records, making continuous guidance difficult.
- Those carrying out monitoring and guidance need to refer to the latest information, but this required a large amount of paper due to the use of paper-based documents.
- There were no tools for simple exchange of information between the inspectors on-site or between teams and the office, making information sharing and emergency communication difficult.

To solve these issues, the entire system was reformed, in accordance with HACCP (Hazard Analysis and Critical Control Point) guidelines, using tablets and cloud computing.

Results (features and innovations, future developments, etc.)

The following results were achieved through the creation of various applications such as one to record and reference the HACCP implementation status of each store, one to store data, and the construction of a message board feature.

1. Improved efficiency and quality of sanitation inspections

- Managing operations has become more efficient through the continuous recording of interviews with operators and verification timeline of operation records, as well as quantifying the degree of achievement of each HACCP guideline.

- Software that allows data to be handwritten directly onto the screen and an inspection checklist was incorporated into the application. By entering interview data on the checklist image on the spot by hand, detailed information can be stored and referenced in the system.

2. Digitalisation

- The digitalisation of data such as toxic fish catalogues and shellfish toxicity information, which used to be carried on paper, and their incorporation into the cloud has improved the convenience of on-site identification, monitoring, and guidance, enabling a paperless system overhaul and reliable sharing of the latest information.

3. Revitalised communication

- The application allows for more active communication within the entire team, with message boards where users can exchange messages and notices.
- The app also allows the inspection teams to share information with each other and with the office, improving the ability to respond in the event of an emergency.