Protect the underground sewerage with a total length of 470,000 km

Water Quality Control Department

Japan has extensive sewer pipelines across the country with a length comparable to the distance 12 times around the earth (470,000 km in total). Then, in order to prevent accidents due to problems with old pipes that have been used over 50 years (corrosion, crack, joint displacement, cavity, etc.), such as road subsidence, we propose an efficient investigative technique expected to contribute to the reduction of the risk of failure.

Social background and issues

- Total length of sewer pipelines in Japan is comparable to the distance 12 times around the earth (470,000 km) and 3,000 to 4,000 cases of road subsidence accidents occur every year due to the deterioration of sewer pipelines.
- > Faced with such issues as difficulty in investigating confined space, shortage of engineers, and insufficient project budget.



Achieve both reduction of national burden and provision of sustainable public service. Prevent road subsidence and malfunction resulting from sewerage.

Related article is as follows.

Analysis of the Trend of Abnormalities in Sewer Pipelines Contributing to Stock Management