

Innovative Research Program on Suicide Countermeasures in FY2022: Report on Commissioned Research Results

**Field 3: Suicide countermeasures using big data, AI, etc.**

**Topic number : R4-3-2**

Research topic:

Research on the use of IoT to promote children's help-seeking behavior

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Summary:

Based on the research plan for FY2022, specifications for IoT devices were developed and procured. The device can be used in either a wristwatch or necklace format, and can transmit several types of signals by pressing a built-in button. Using this device, we conducted a verification to identify the location of the wearer by communicating with multiple receivers installed in the room via BLE.

We also designed the functionality of an application that works with this device. This application was designed to be a web application that could be run on the Internet browser of the Chromebooks used by the children at school, and it was designed to function to grasp changes in the children's physical and psychological conditions. The system was also

designed to enable school teachers to view these data and quickly identify children in need of support.

Furthermore, we designed an educational program for bullying and suicide prevention. We designed an e-learning system and scenarios for an interactive educational program in which students can learn about bullying and suicide prevention in moral education classes, etc., while answering questions in the scenarios.