

Supplementary Information

■Winners**【Grand Prize】**

- Proposer: O Inc.
- Proposal Title: “Chrono Wellness: The world’s first-ever service for visualizing the biological clock and improving sleep”
- Proposal Summary: Development of a wristwatch-type device (the world’s very first of non-intrusive variety) that can visualize the biological clock using several biosensors. For its users, biological clock coaching through cognitive behavioral therapy will be put into practice using an App; “Health Maintenance through the biological clock: Chrono Wellness” will be realized that can ameliorate insomnia; and B2B service aimed at companies will be undertaken that sets optimal working hours for improving employees’ health and boosting labor productivity.

【MRI Prize】

- Proposer: Mr. Akira MIZUNO et al.
- Proposal Title: “Creation of a Comfortable Environment for Health Maintenance ~ Air Purification/Infectious Disease Prevention by Plasma/Static Electricity~”
- Proposal Summary: The health hazards of infectious diseases and air pollution are enormous, and prevention measures are needed that anyone can implement comfortably. Comprehensive infectious disease countermeasures are proposed which grasp infection pathways through “visualization” of viruses and use “defensive” and “offensive” tools as appropriate depending on the risk and economic conditions. In addition, because the defensive methods can be applied generally to particles, they are also effective against air pollution. First developing a product with China/Japan as the target, expansion to new areas, users, and societal problems will be aimed for.

【Other Finalists】

- Proposer: Project Team for Reducing Infant Deaths to Zero Using Domestically Produced Apnea Sensors
- Proposal Title: “Project for Reducing Infant Deaths to Zero in Day Care Facilities by Applying Dormant Physicians and Apnea Sensors ~Aiming to Lighten the Burden on Nursery Teachers”
- Proposal Summary: Accidental deaths of infants in day care facilities most often occur during sleep. To prevent such accidents, the Government recommends that nursery teachers check the breathing every five minutes during infants’ sleep, but in workplaces lacking the manpower, the burden is great and it is difficult to do this sufficiently. In this proposed service, a monitoring device will be attached to sleeping infants, and remote physicians take the place of nursery teachers in monitoring the infants’ condition, and providing appropriate guidance when

accidents occur. By doing this, the assurance of infants' safety and a reduction in burden on nursery teachers will be realized. Furthermore, for the physicians conducting the monitoring, practical use will be made of dormant human resources (physicians who are currently not employed as physicians due to marriage, childbearing, etc. but who have the qualifications), and a new place to use their skills will be offered to the roughly 10,000 dormant physicians nationwide.

- Proposer: KIKI-MIMI
 - Proposal Title: "A Device for the Hearing-Impaired to Enjoy Sound through Tactile Sensory Information - Third Ear KIKI-MIMI"
 - Proposal Summary: A revolutionary tactile device, made miniature/thin/light to an extent that is impossible with existing technology, which allows those with hearing impairments or those who have become hard of hearing with age to enjoy music via the skin. This is "KIKI-MIMI." Piezoelectric elements are used to convert music into vibrations, which are transmitted to the fingertips. For theaters, live-music venues, clubs, and karaoke parlors nationwide, and of course for nursing homes as well. The hope is to create a world where people with hearing disabilities can enjoy sounds together with ordinary people.
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- Proposer: bspr Inc.
 - Proposal Title: "Dementia Prevention by Family × Contents × Science"
 - Proposal Summary: Against a backdrop of increasing dementia, a dementia prevention one-stop service was developed for families with elderly members. By functionalizing "family," which is the impetus for starting prevention; "contents," which is a mechanism that can be continued; and "science," which is a means for delivering reliable results, a service will be provided that the entire family can conveniently enjoy, with excellent prevention results.