



Subcommittee Name: Well-Being with Bright Eyes Subcommittee

- Leading organization: Tohoku University
- Representative: Ryoichi Nagatomi, Head of Center
- Leader: Toru Nakazawa, Professor

Our Vision of Future Society

Currently, differences in body functional capacity are dividing people from society in terms of life, work, and recreation.



- People's field of activity is restricted by their physical functions, aging, and diseases.
- Health care is taking a back seat.
- Diagnostic technology alone will not stop the acceleration of division.

The Covid crisis is adding to the division.

A society where everyone can live, work, and play together at any stage of life



- Elimination of the information poor
- Improved awareness and incorporation of body augmentation technology into the infrastructure
- Voluntary behavior change

We need to maintain body functions through daily behavior change and design an inclusive society.

Bring about Joyful Cities with Bright Eyes

— A society where everyone can live, work, and play together at any stage of life —



Participating Organizations



Team 1: Utilize people's individuality — Empowerment of **people with low vision**
Connect people and society by allowing those people with impaired or diminished perception to live independently and to contribute to society while improving their quality of life.
Academia: Prof. Masayo Takahashi (Ritsumeikan University; Kobe Eye Center)

Team 2: Cure future diseases — Empowerment of **pre-symptomatic people**
Connect people and society by predicting future diseases from perceptual information and keeping people away from frailty to maintain their quality of life.
Participating companies: At Co., Ltd. and Senju Pharmaceutical Co., Ltd.
Academia: Prof. Toru Nakazawa (Department of Ophthalmology, Graduate School of Medicine, Tohoku University),
Prof. Atsushi Hozawa (Tohoku Medical Megabank Organization, Tohoku University)

Team 3: Change ourselves — Empowerment of **able-bodied people**
Connect people and society by increasing motivation and promoting communication through perception to enhance the quality of life
Participating companies: Rohto Pharmaceutical Co., Ltd. and Wakasa Seikatsu Co., Ltd.
Academia: Prof. Ryoichi Nagatomi (Graduate School of Biomedical Engineering, Tohoku University; Designing Future Health Initiative)

Five-Year Plan



2022

2023

2024

2025

2026

Team 1: Utilize people's individuality
— Empowerment of people with **low vision**

Create a model for providing information to low vision people.

Develop and disseminate an information provision system using low vision people as a model.

Team 2: Cure future diseases
— Empowerment of **pre-symptomatic people**

Develop a sensing system and collect data for gathering various biological information from the eye.

Improve disease prediction accuracy and build up evidence through multimodal data integration and analysis.

Team 3: Change ourselves
— Empowerment of **able-bodied people**

Develop perception-based methods to improve latent abilities and communication.

Validate perception-based solutions that promote behavioral change to improve performance.