

A-05

Generative AI's vision of the brain of the future - changing behaviour for a healthier future -

Social Issues that we have focused on

It is estimated that one in five elderly people will have dementia by 2025, and the realization of a symbiotic society in which people with dementia and their families can live in peace is a major social issue. In order to ensure brain health, it is important to lead an appropriate lifestyle and take conscious actions such as undergoing a brain scan.

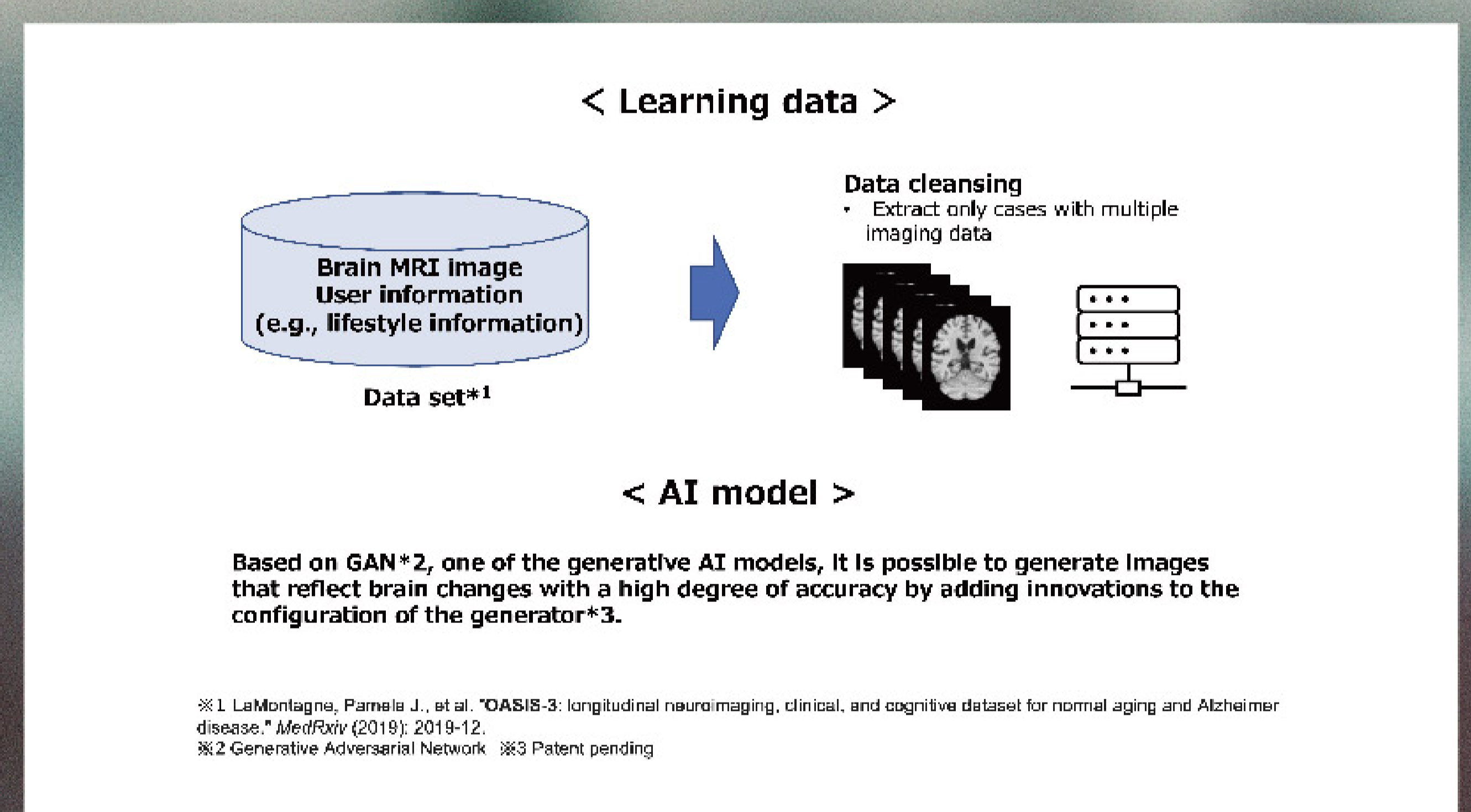
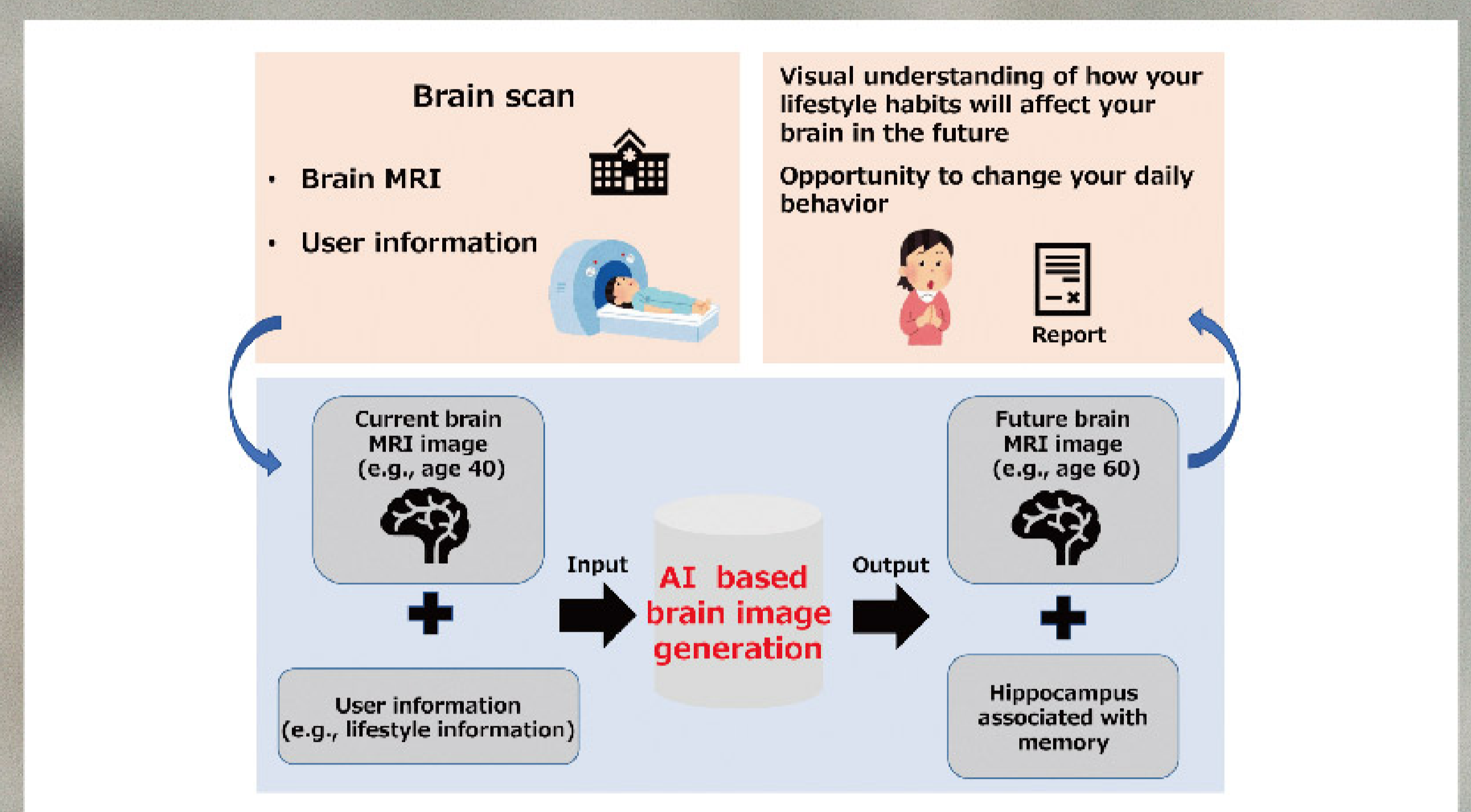
Initiatives to resolve issues

Overview

By generating future brain images based on information such as brain scan images, age, and lifestyle information, we are working to develop technology that will enable visual understanding of changes in hippocampal volume, which is said to be associated with brain atrophy and dementia due to aging and lifestyle. Bringing awareness to the risk of dementia will encourage behavioral changes that will improve lifestyles.

Technology to Support Initiatives

We are working on building an AI model based on GAN (generative adversarial network), one of the generative AI models, based on brain images and user information such as age and lifestyle information. Adding innovations to the structure of the AI model has enabled image generation that reflects changes in the brain associated with aging.



Co-creation
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SDGs



By visually understanding the changes in the brain caused by lifestyle habits,
we can promote behavioral changes
to improve lifestyle habits and maintain brain health.
This will contribute to extending healthy life
expectancy and reducing medical care costs.

In the future, visualizing how the entire body will look like in future will help maintain and improve health.