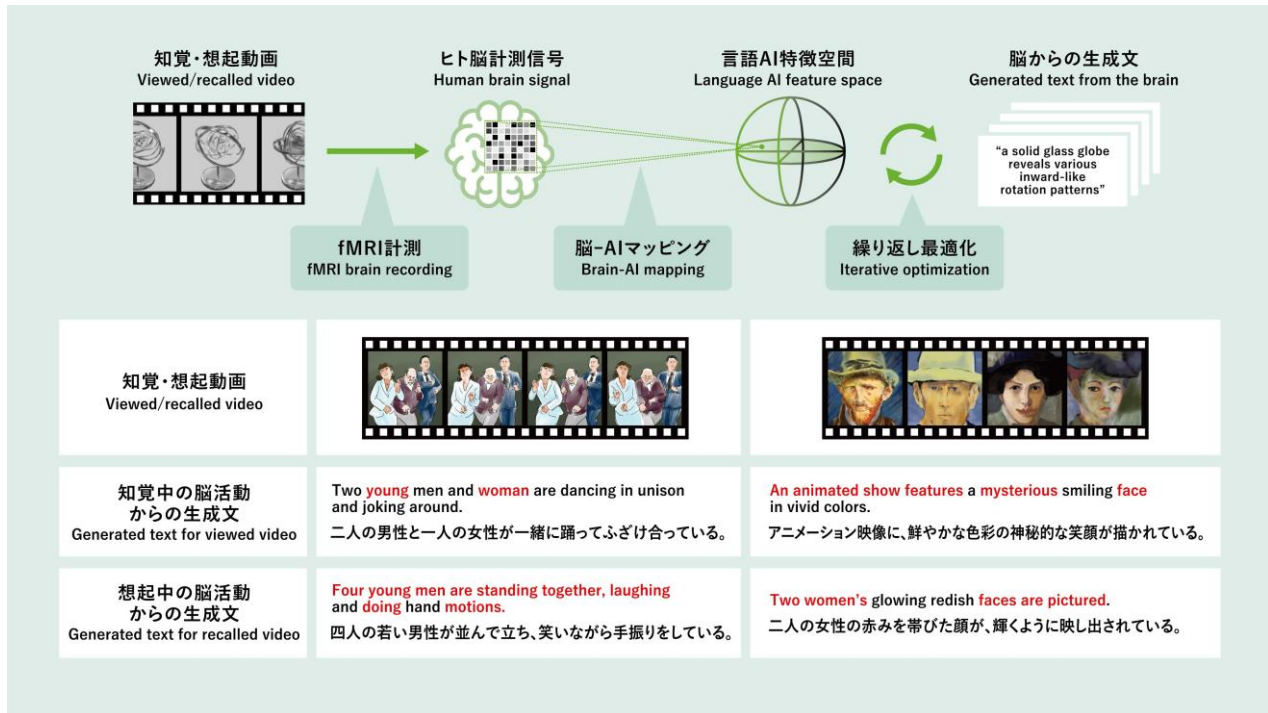


# Decoding mental content from human brain activity Mind reading through brain-AI integration

## Background and Technical Challenges

Despite substantial progress in decoding language-related information from brain activity, generating comprehensive descriptions of non-linguistic subjective experiences associated with visual semantics remains challenging.



## R&D Goals and Outcomes

To understand neural representations of structured visual semantics and provide a means to aid individuals with language-expression difficulties.

## Key Technologies

### 01 Core Technologies

Integrating brain-decoding technology with language AI models for generating descriptive text that mirrors semantic information represented in the brain.

### 02 Key Differentiators

Developing a versatile and expressive pathway for interpreting non-linguistic mental representations from brain activity by leveraging the semantic expressiveness and generative power of language models.

Use Cases Healthcare

R&D phase Research

Technology Schedule FY25–26

Commercialization Schedule After FY30

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