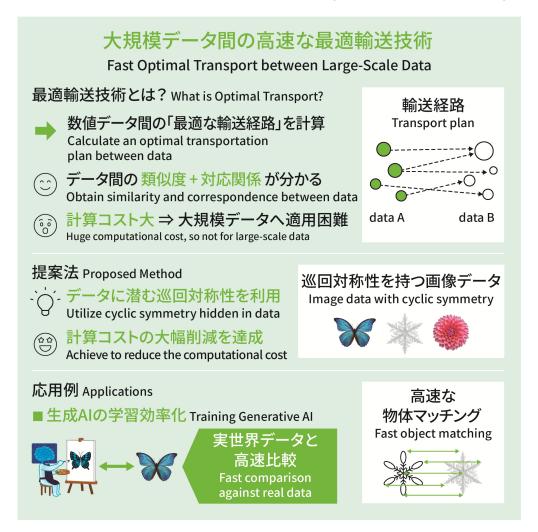


# Fast optimal transport between large-scale data

Improving the training efficacy of generative AI by fast computing relationships between large-scale data

#Improving customer experience #Improving operational efficiency



### ///Technical Issue

Existing optimal transport technologies compute relationships between data with high accuracy but require a huge computational cost.

## ---Technology

In the optimal transport research field, we are the first to focus on cyclic symmetry hidden in data and to utilize it with various optimization method, which results in reducing the computational cost of optimal transport techniques.

---Applicable Business

(Scheduled service launch: 4Q 2026).

# ///Research Goal

Reduces the computational cost of computing relationships between largescale data required for training generative AI by 50%.

### ---Novelty

- We are the first to propose a fast optimal transport technique using cyclic symmetry hidden in data.
- We are the first to show theoretically and experimentally that our technique can speed up to obtain the solution without reducing its quality compared to conventional techniques.

In information and technology industry, our technology will improve the training of DL models including generative AI