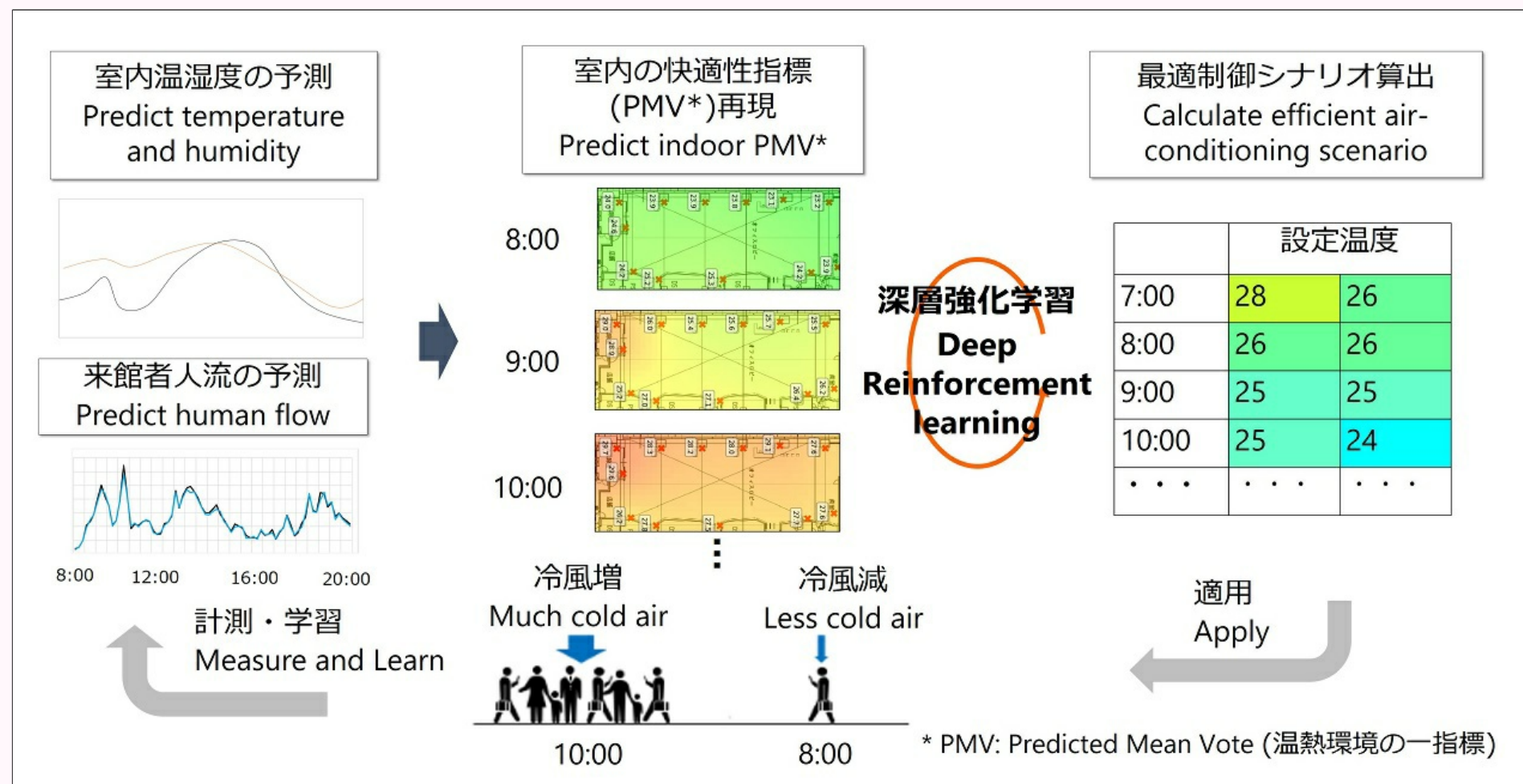




### Realizing comfortable space with energy saving air-conditioning

#### Abstract

Our method can calculate efficient operation scenario of air-conditioning system based on predicted PMV(Predicted Mean Vote) and energy consumption using deep reinforcement learning. This method realizes comfortable indoor space with efficient air-conditioning at the same time.



#### Features

- Predict PMV accurately based on predicted human flow, indoor temperature and humidity
- Control air-conditioning system based on current and future state by deep reinforcement learning

#### Application Scenarios

- Efficient and comfortable air-conditioning in shared space of shopping complex
- Efficient and comfortable air-conditioning in lobby or lounge of office building

#### Roadmaps

- Install it to urban improvement projects as an application of Digital Twin Computing for smart city.

#### Collaboration Partners

- East Japan Railway Company

#### Exhibitors

NIPPON TELEGRAPH AND TELEPHONE CORPORATION, NTT FACILITIES, INC., NTT DATA Corporation