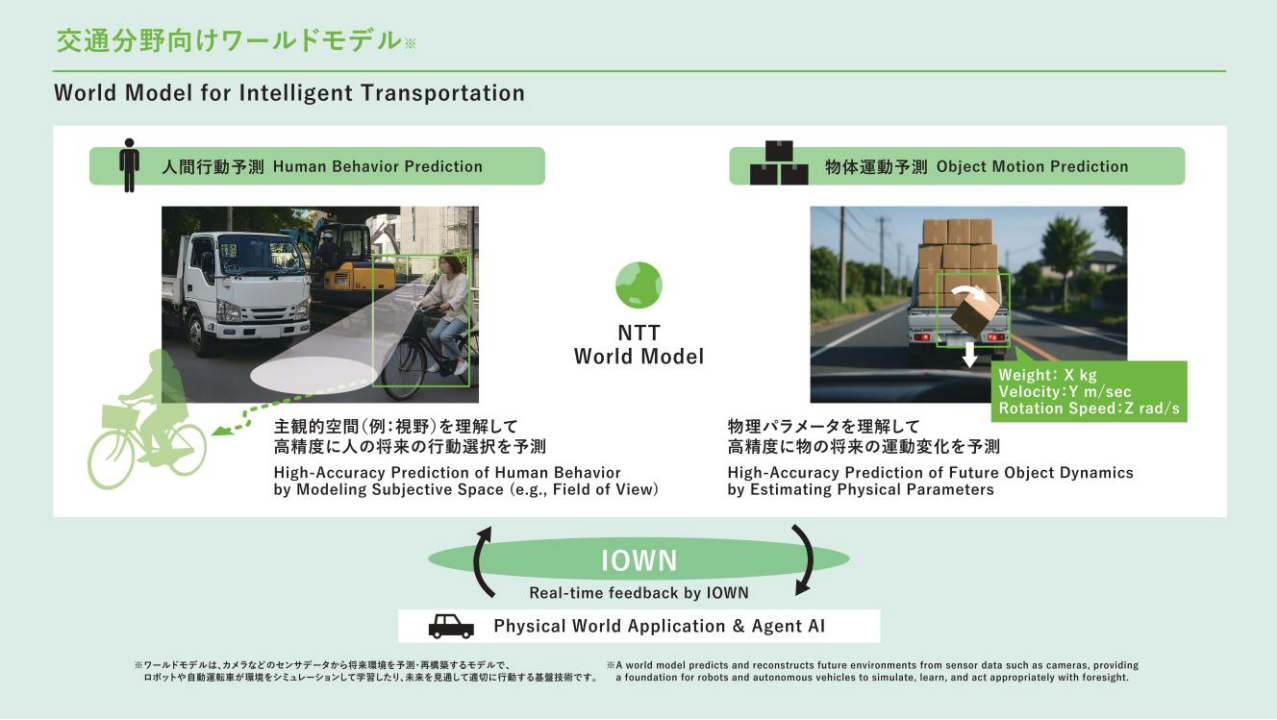
Accurately predicting human and object movements to achieve zero traffic accidents

World model for intelligent transportation

Background and Technical Challenges

World models, which are expected to support various fields such as advanced vehicle and robotic control by predicting and reconstructing environments from observations, still struggle regarding transportation. They often fail to anticipate human-intended behaviors and capture simple physical phenomena.



R&D Goals and Outcomes

Reliable near-future video estimation focused on human behavior and physics, contributes to the reduction in traffic accidents and near-misses caused by unpredictable behavior.

Key Technologies

01 Core Technologies

Lightweight models that encode the human-perceived world and per-object physics to predict human actions and object motion accurately in real time.

02 Key Differentiators

Outperforms current world models in 5-second-ahead pedestrian and cyclist position prediction at intersections, and in motion-change estimates for falls, collisions, and tip-overs.

Use Cases	Mobility & Transportation	**R&D phase**	Research
Technology Schedule	After FY30	**Commercialization Schedule**	After FY30

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