1. Before Introduction of Vehicle Guidance System Using BLE

At state-of-the-art large-scale distribution centers where some 5,000 shipping trucks enter and exit each day, a special app that runs on the smartphones of truck drivers, cooperating with server and Bluetooth Low Energy (BLE) device, helps alleviate traffic on local roads and at entry gates and provides berth guidance inside the distribution center. CO₂ emissions are significantly cut as a result.



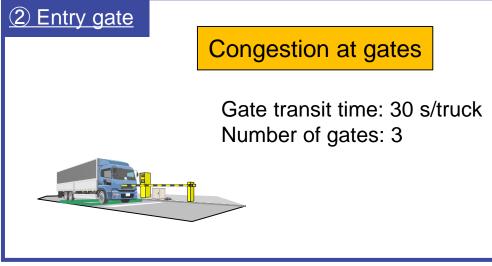


Waiting outside

Congestion time: 5 p.m. to 1 a.m.

No waiting outside

Time: 1 a.m. to 5 p.m.

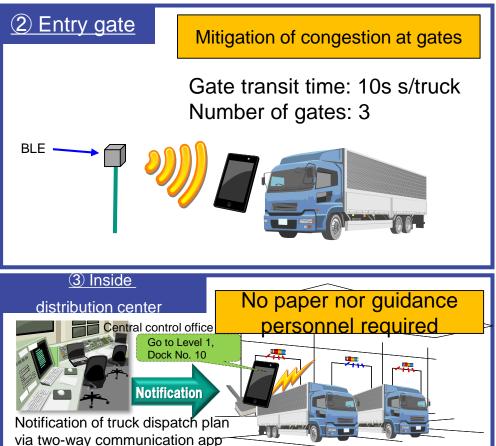




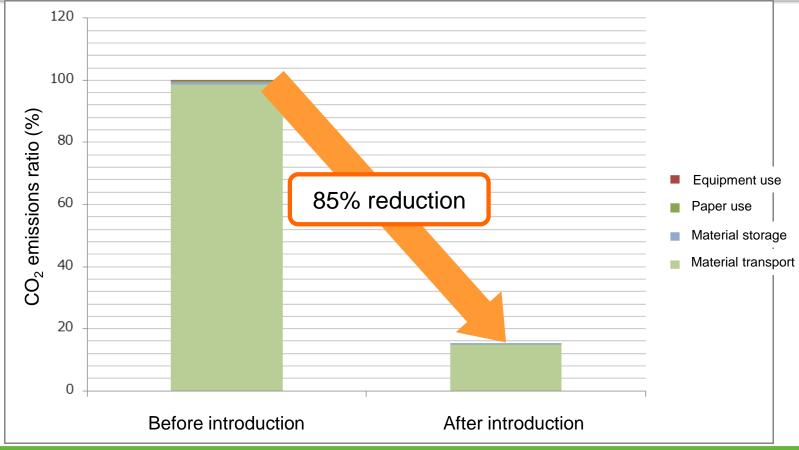
2. After Introduction of Vehicle Guidance System Using BLE

At the entry gates, the time required to pass through is just 10 s/truck, using only BLE authentication and smartphone display. (reduction of 20 s/truck)





Vehicle Guidance System Using BLE: Load Evaluation Result



Item	Before introduction	After introduction
Equipment use	Gates	BLE, server
Paper use	Dispatch plan printout	N/A
Material storage	Vehicle guidance inside distribution center	Vehicle guidance at central control office
Material transport	CO ₂ emissions of trucks due to congestion	No congestion