



# Port Safety management

## INCHEON PORT AUTHORITY PILOT PROJECT

### Deployment summary

- Deployment Date: Feb, 2021
- Location: Incheon port authority in South Korea
- Applications: Integration of IFLEET management system and IPAS safety system
- Product & Solution: IFLEET (Solution incl. cloud-base server)

IPAS Pedestrian Tag – 60ea / Zone Tag– 8ea

Vehicle Tag and Telematic device – 30ea each

IPAS IVIEW+ camera system – 2ea



# Challenges & Solution

As import and export trade market has increased significantly alongside the economic growth of the Republic of Korea past years, large cargo handling equipment such as container cranes were introduced at many loading and unloading sites in major ports. As a result, the workload of port workers in handling cargo also increased.

Port industry is complexed as it is combined with various industries such as cargo handling, inspection/calibration/appraisal, port service (file handling, cargo fixing, etc.). In this type of working environment, the comprehensive and organic safety management system is required.

**KIGIS – IPAS system with IFLEET management system was introduced to increase the 'Port brand value' through the prevention of safety accidents.**

## Installed Products and solution

Safety Management System			Collected Data		
Period		Feb. 2021~	Workers	Danger (proximity)	Approached to the vehicle within 3M
Operation	Vehicles	30 units		Caution (proximity)	Approached to the vehicle within 5M
	Workers	388 people		Man-down alert	When the sensor is being triggered
	Location	8 places	Vehicles	Danger (proximity)	Approached to the vehicle within 10M
		Caution (proximity)		Approached to the vehicle within 17M	

### • IFLEET - Dashboard



- Check the location of workers/vehicles where the safety alert is occurred
- Overview of driver data and vehicle availability and distribution
- List of all recorded events for each vehicle

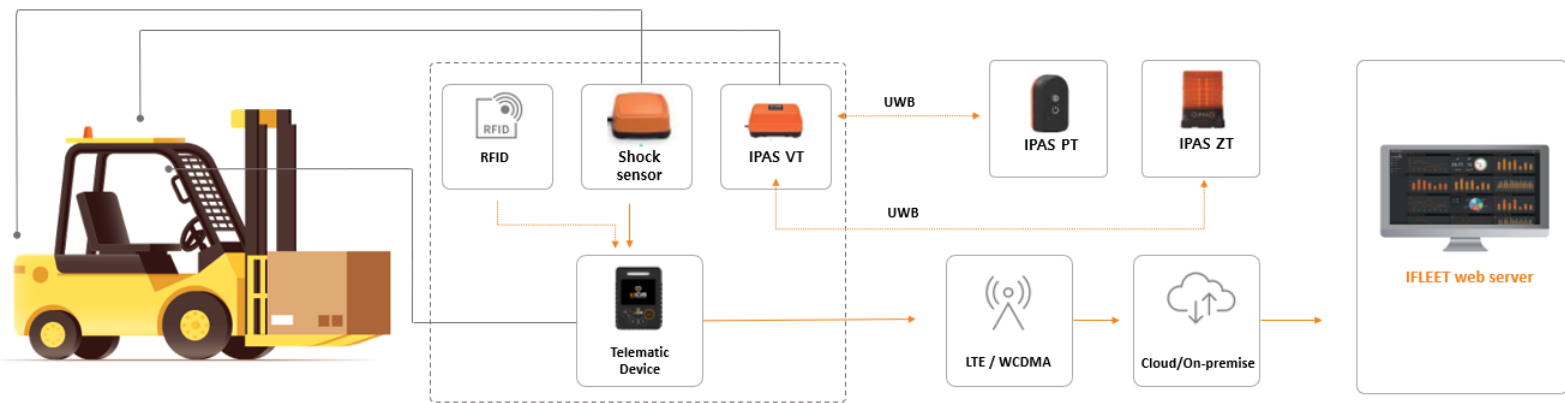
### • IFLEET – Safety Analysis



- Pre-check and result analysis
- Generating analysis of fleet optimization and vehicle usage
- Safety statistics through IPAS alert analysis
- Effective Access control
- Planning of training and refresher course

## KIGIS – IFLEET management system

IFLEET is a telematics technology and web-based service for the purpose of asset management, workplace safety, efficiency improvement, operation and cost-reduction. IFLEET provides a service to evaluate and improve the level of safety in the workplace based on analysis of correlation. And collects safety related events by telematics infrastructure including the main function of existing fleet management system.



[KIGIS – IFLEET configuration]

## How it works

When the telematic device collects and stores data, IFLEET's web server gathers and analyzes comprehensive information about the current status of the industrial vehicles, locations, the route histories, the expected events as well as the driver activities for the vehicle maintenance and information of the operator. Manager is able to check proximity events by IFLEET interacting with IPAS devices for enhanced safety management at the worksite.

## Keep Your Fleet Safe and Smart.

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