

# Reducing the Risk of Aircraft Damage Caused by Ground Vehicle

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## Ground Vehicle Approach Processes Around Aircraft

The approach of ground vehicles to the aircraft is carried out through specific steps, depending on the service flow on the apron. In this process, critical moments mostly arise during maneuvering and positioning. The main points requiring attention are as follows:

- As the vehicle approaches the aircraft, its room for maneuver narrows, increasing the need for precise maneuvering.
- In areas not fully covered by vehicle sensors, monitoring aircraft clearance distance can become difficult.
- Vehicles must be positioned at the correct stand-off distance and angle for the service point.
- After service completion, the safe withdrawal of vehicles is also one of the critical steps.

# How Might We Canvas

## Who?

who are the stakeholders that get effected?

Ground Handling Teams, Safety and Compliance teams, Technical Maintenance teams, Operations Control teams, and Flight Crews.

## What?

what is the problem that needs to be solved?

Aircraft damage caused by ground vehicles making contact with the aircraft during ground operations.

## Why?

why is this problem worth solving?

This situation leads to operational disruptions, increased costs, and a adverse effects on the passenger experience.

## How?

how can this problem be eliminated?

Solutions can be developed to make ground vehicle approach and maneuver phases around aircraft safer, provide real-time operator alerts, and reduce the risk of human mistake.

### Challenge:

How might we reduce collision risk by making ground vehicle docking and maneuvering processes around aircraft safer?