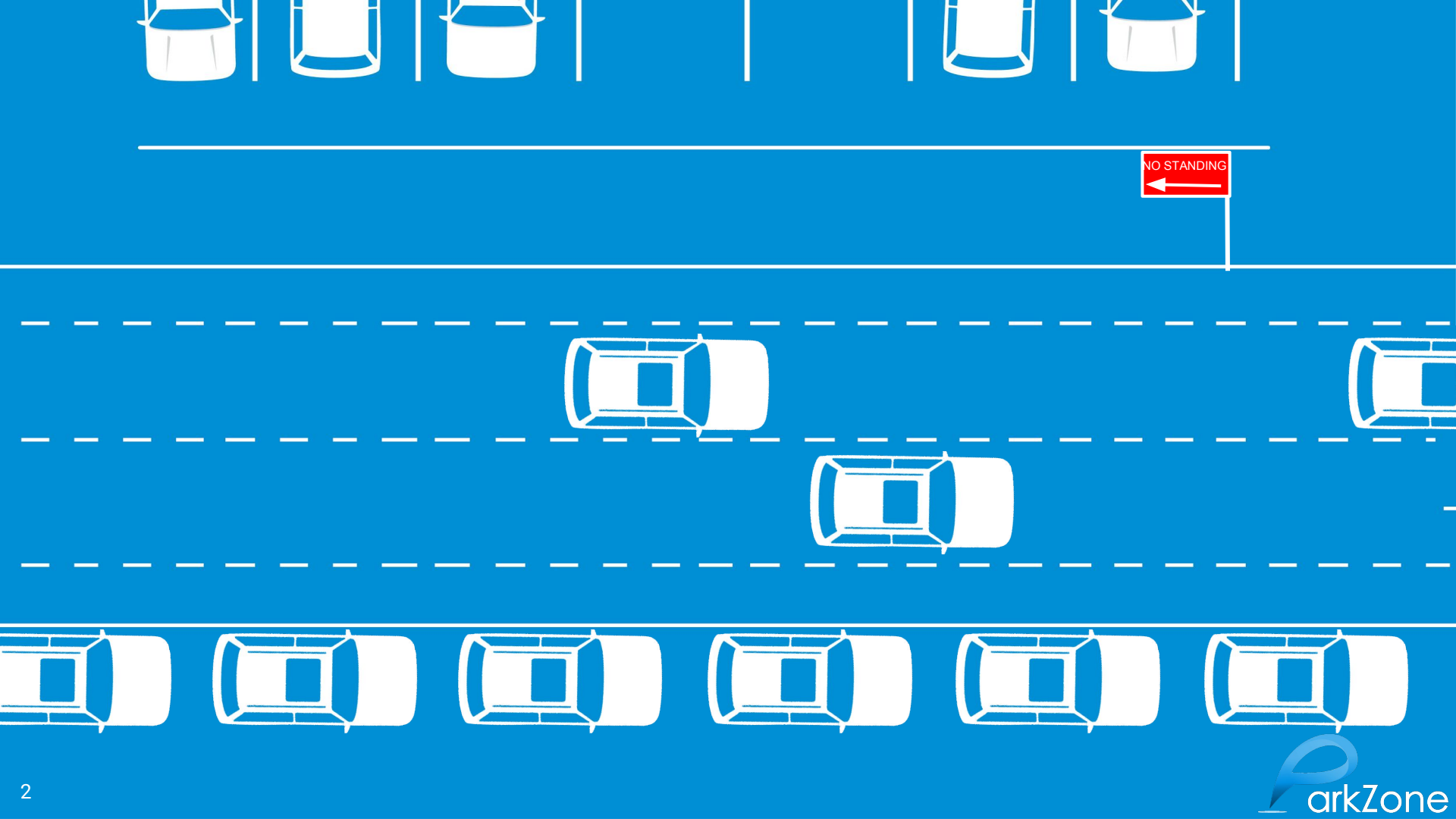
ParkZone.us

By: Ramy Atalla, Michael Medina, & Mark Lindo

Design & Animation By: Ramy Atalla

06/21/2016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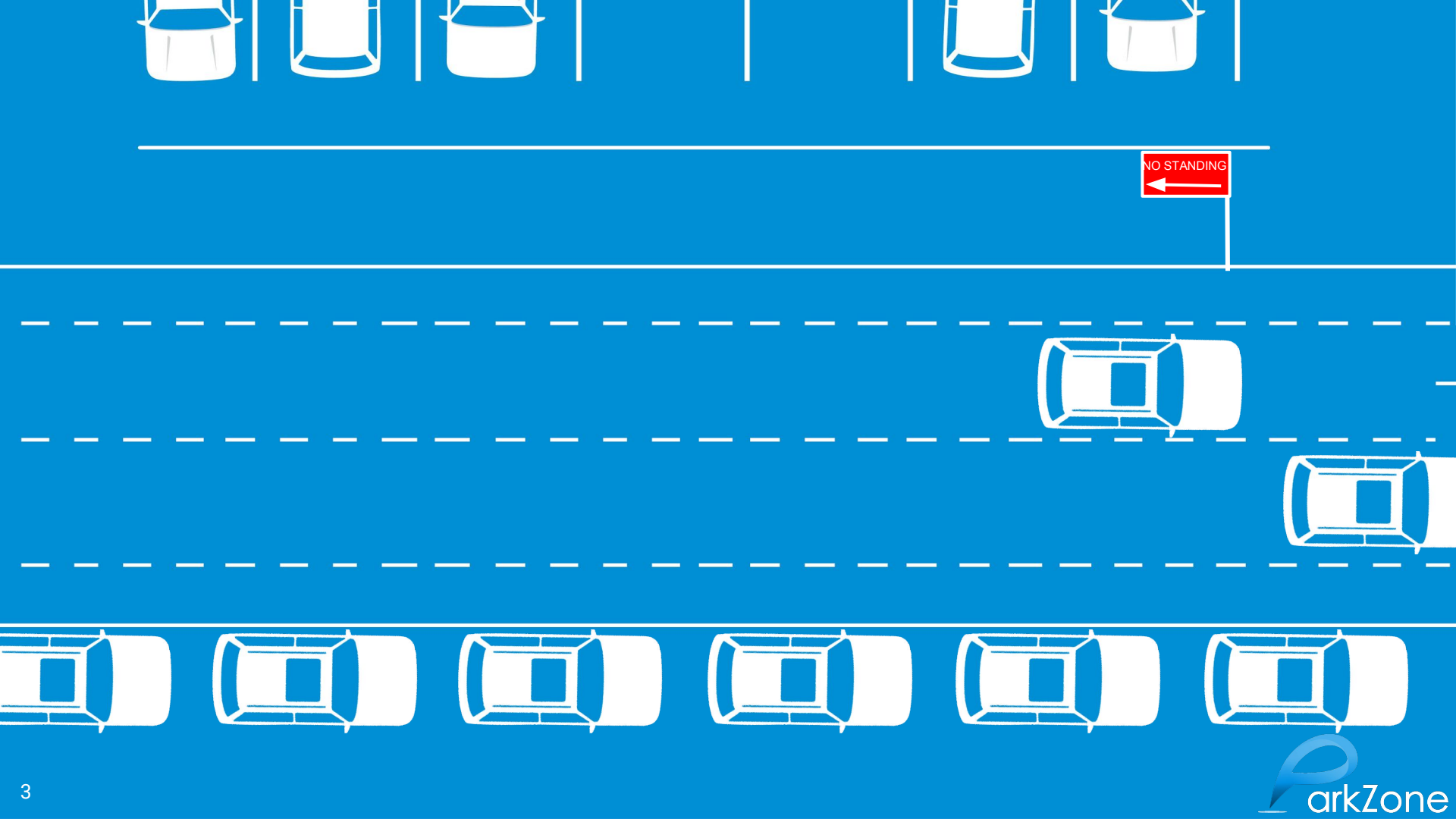
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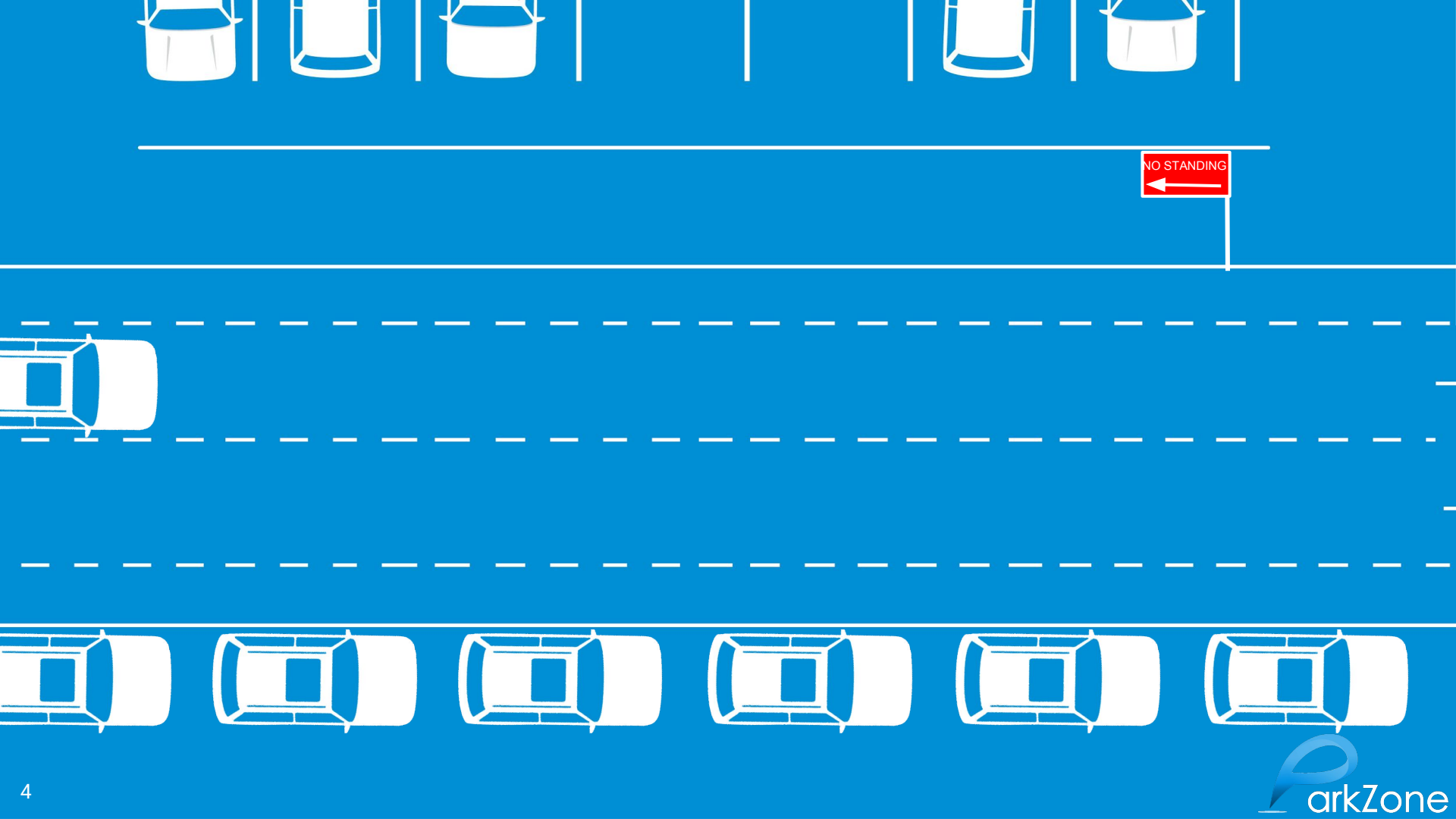

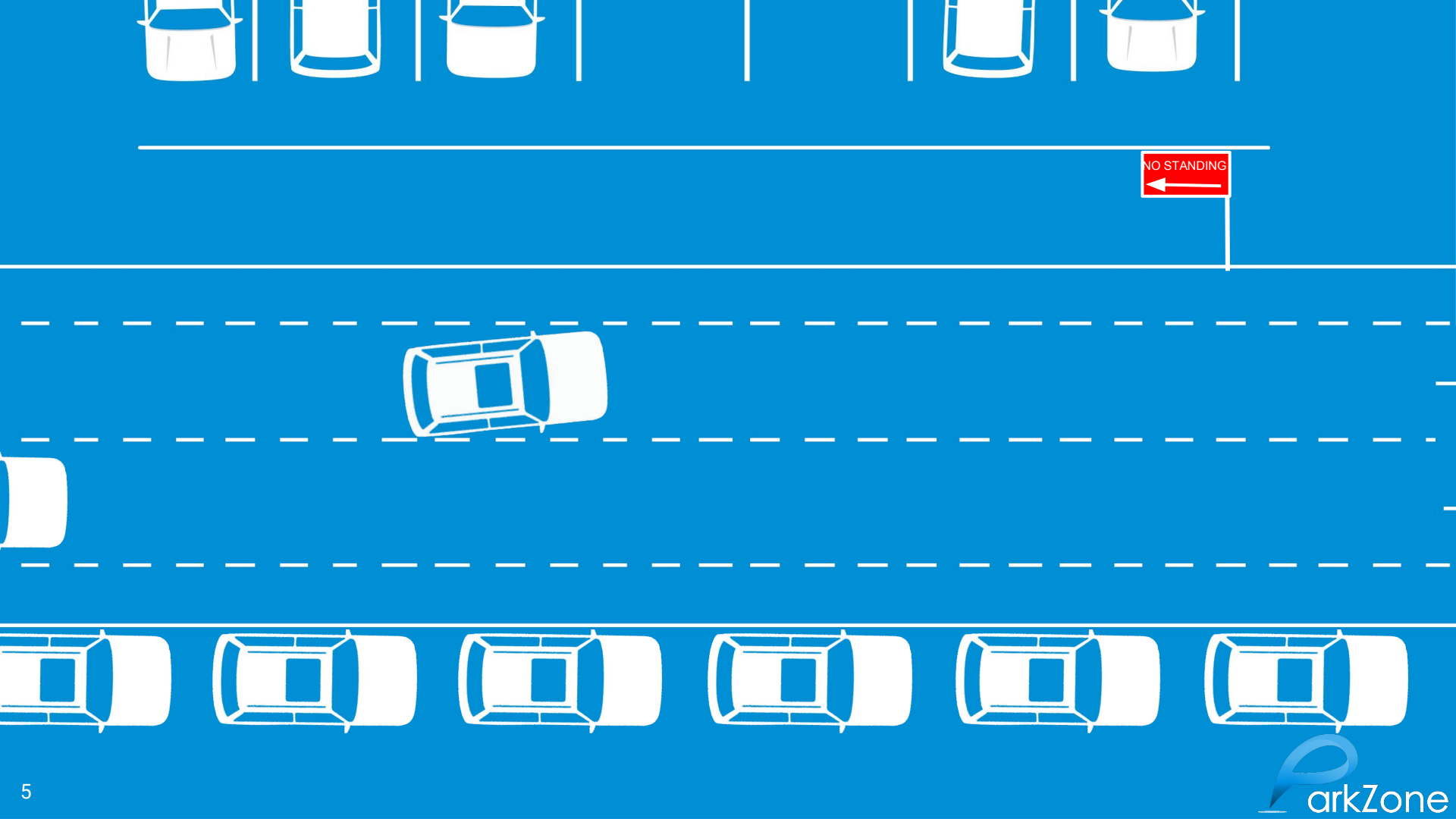

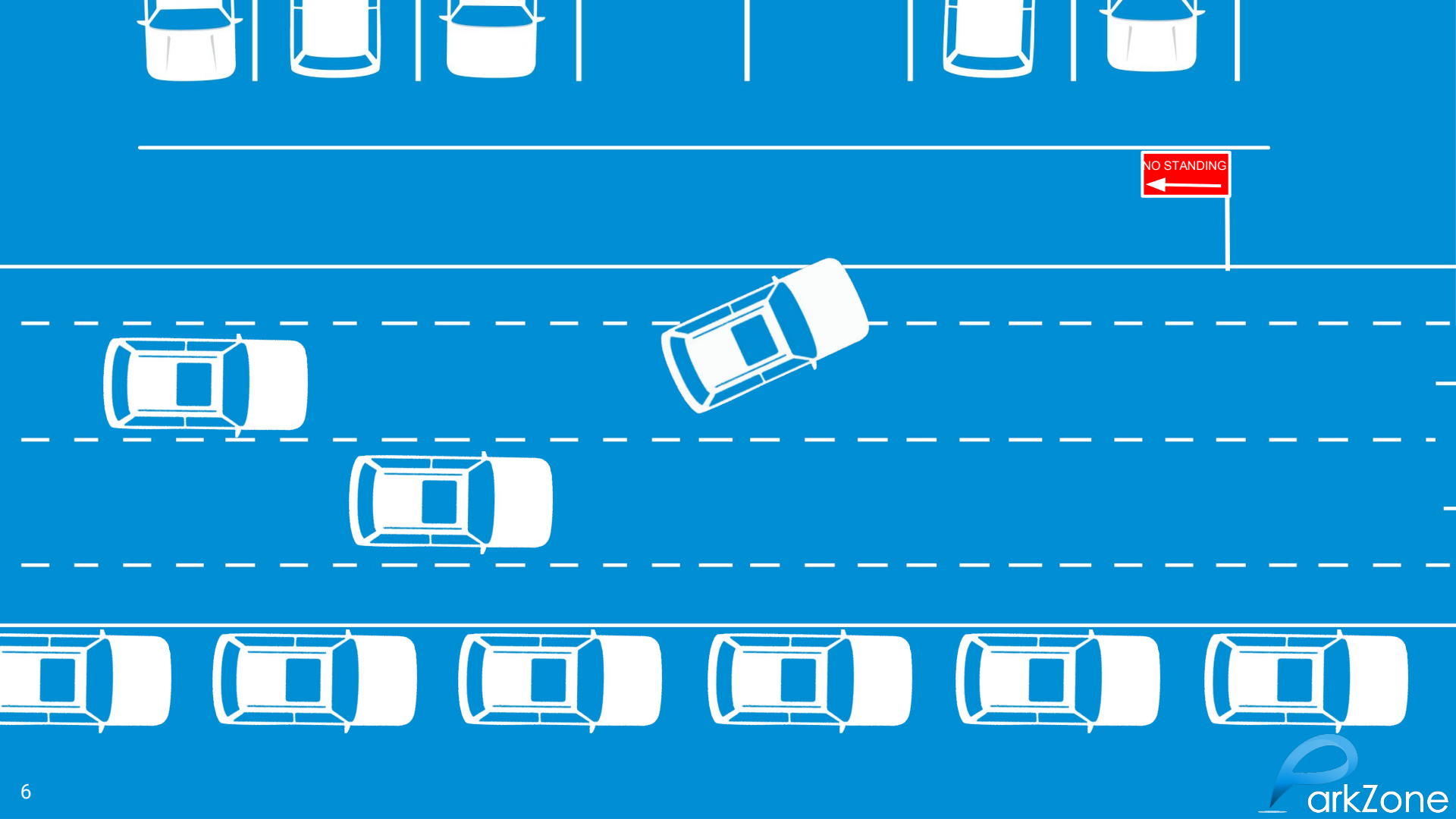
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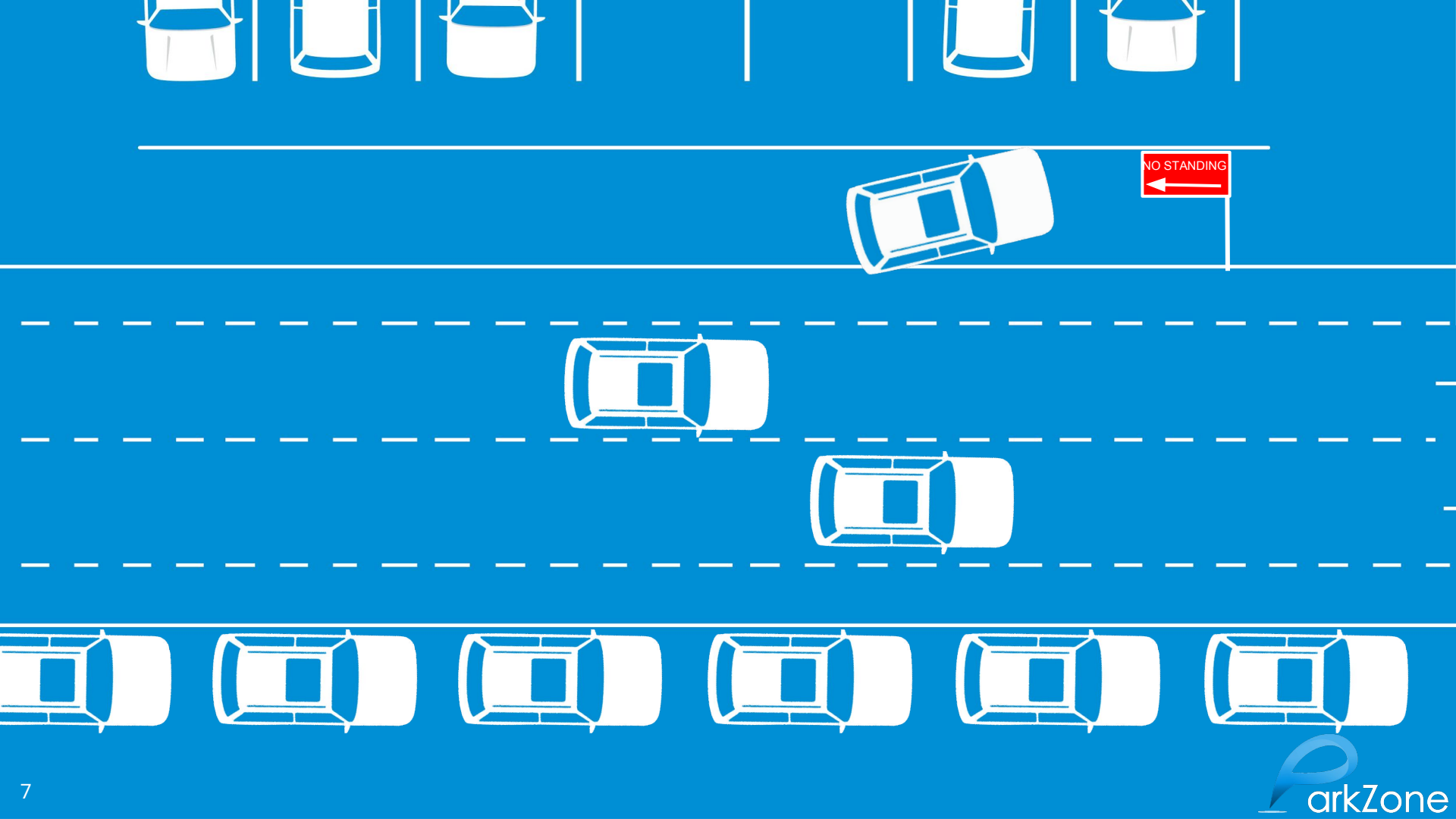

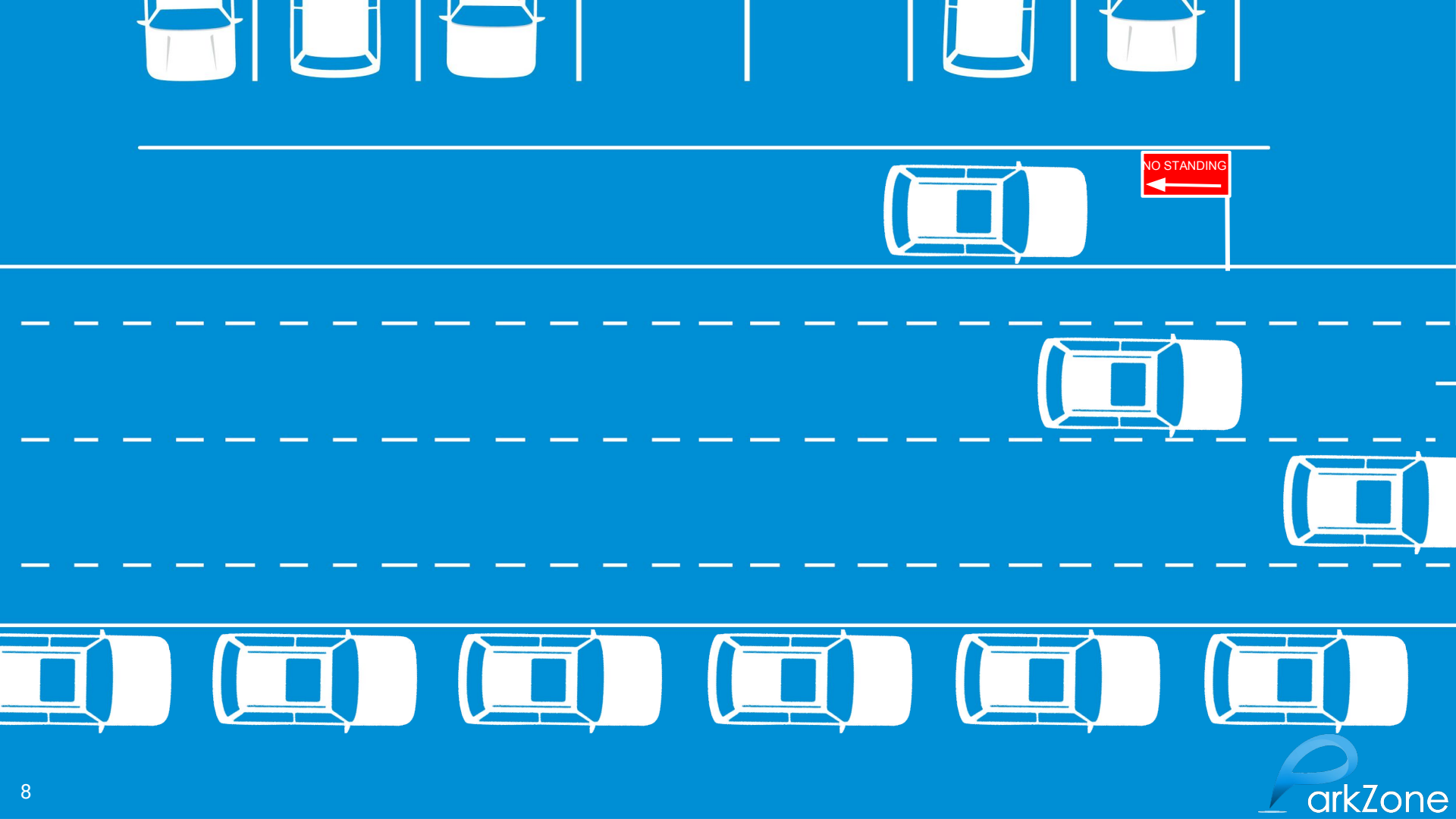
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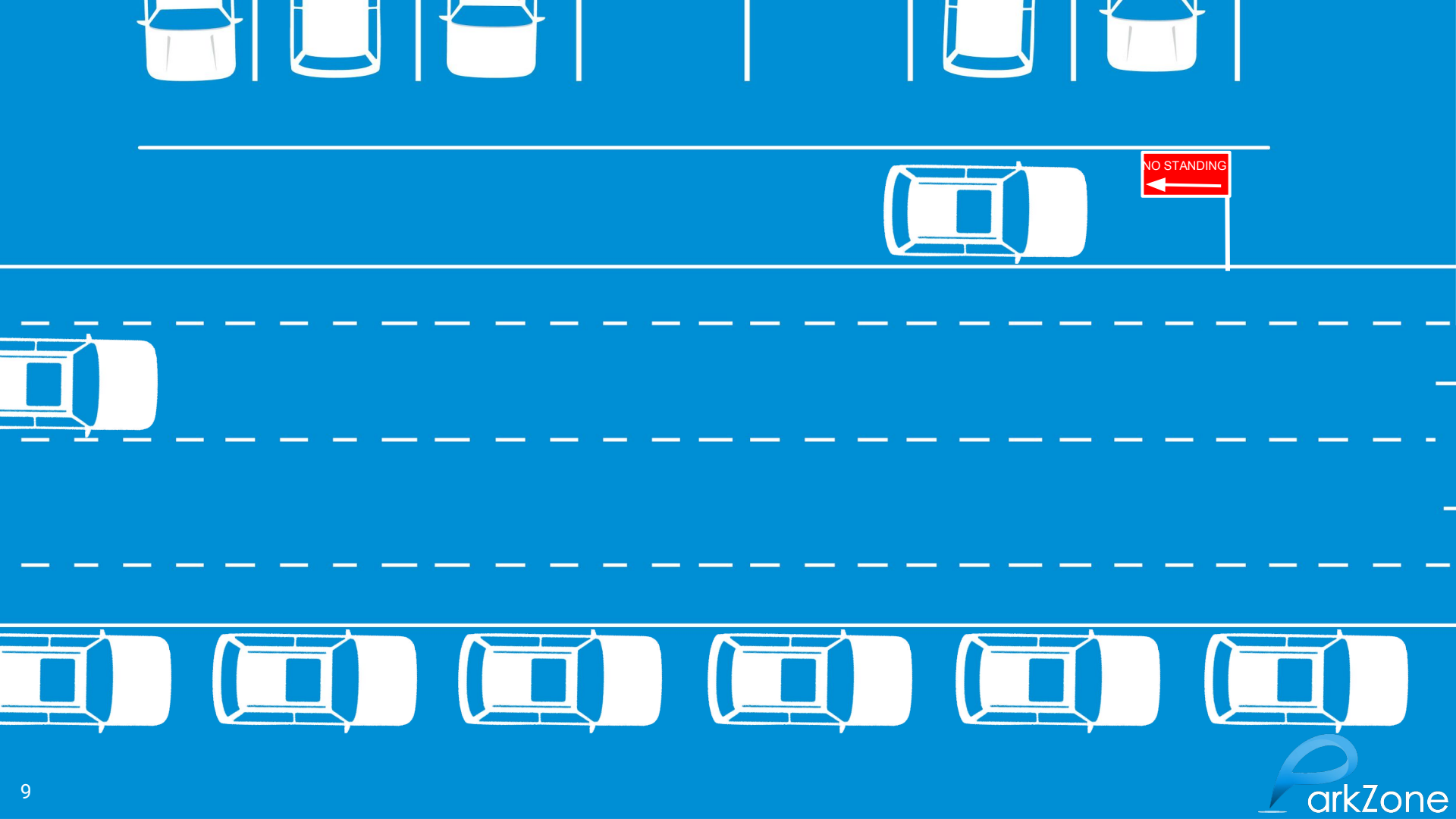

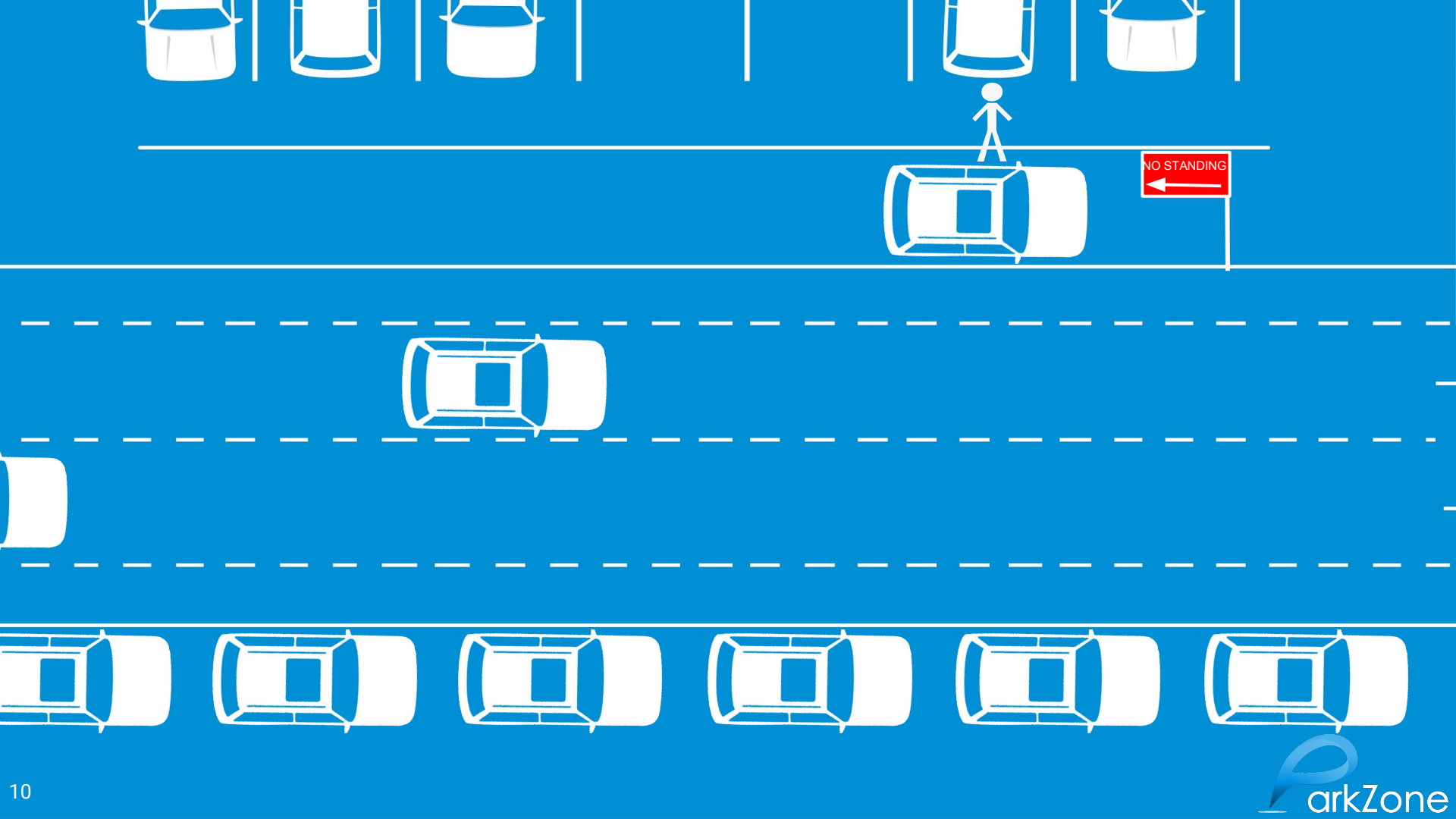
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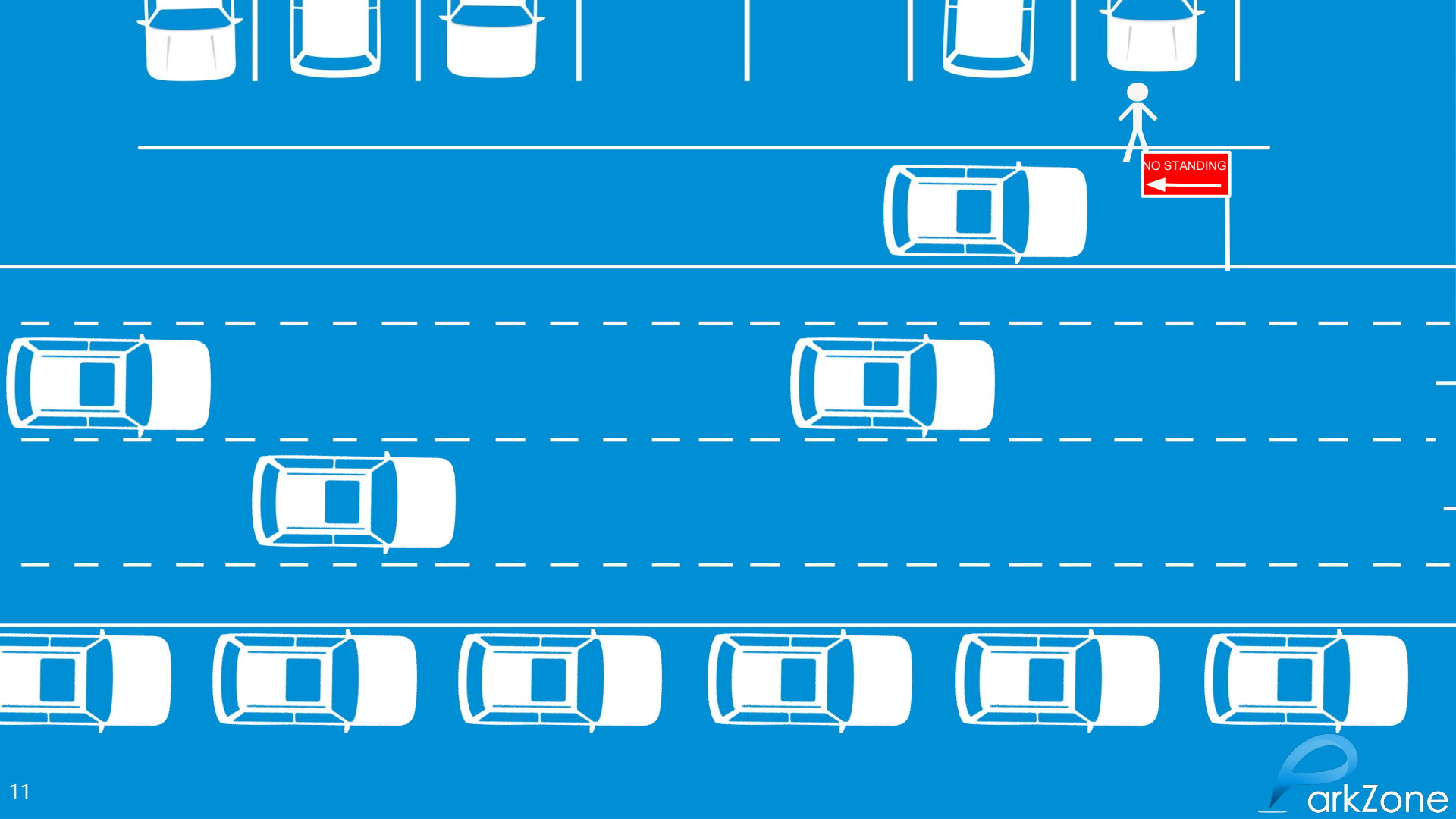
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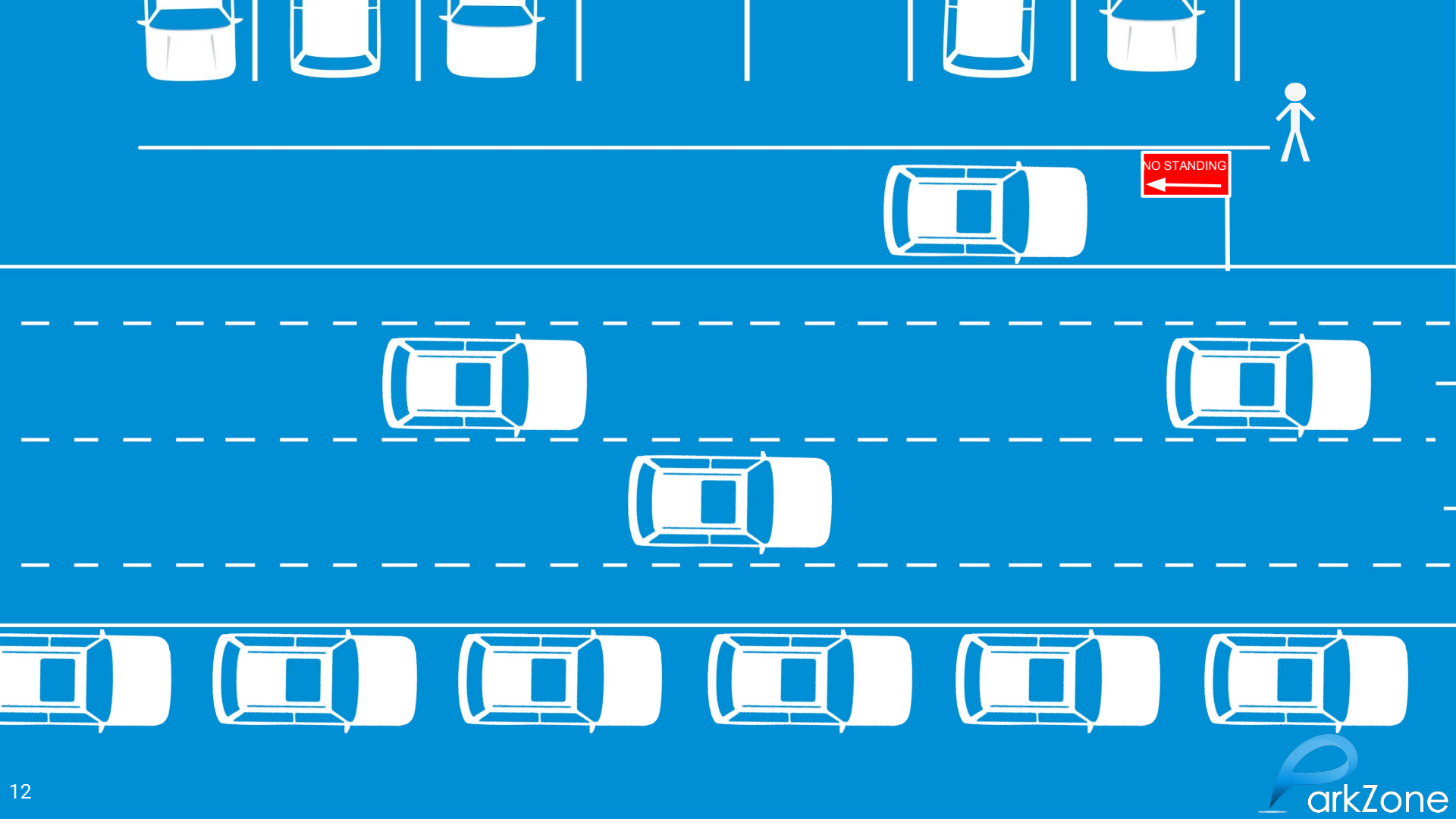
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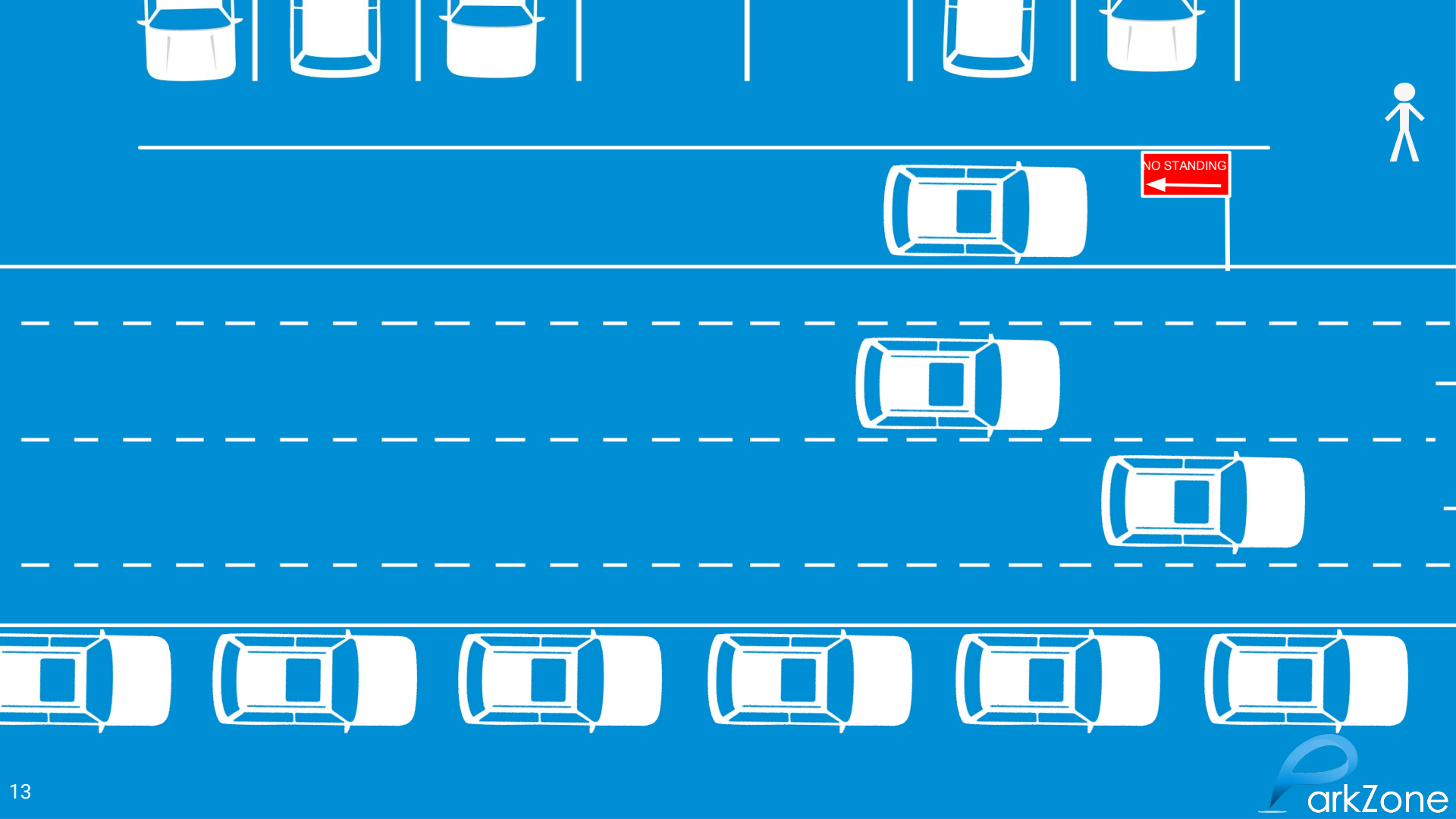
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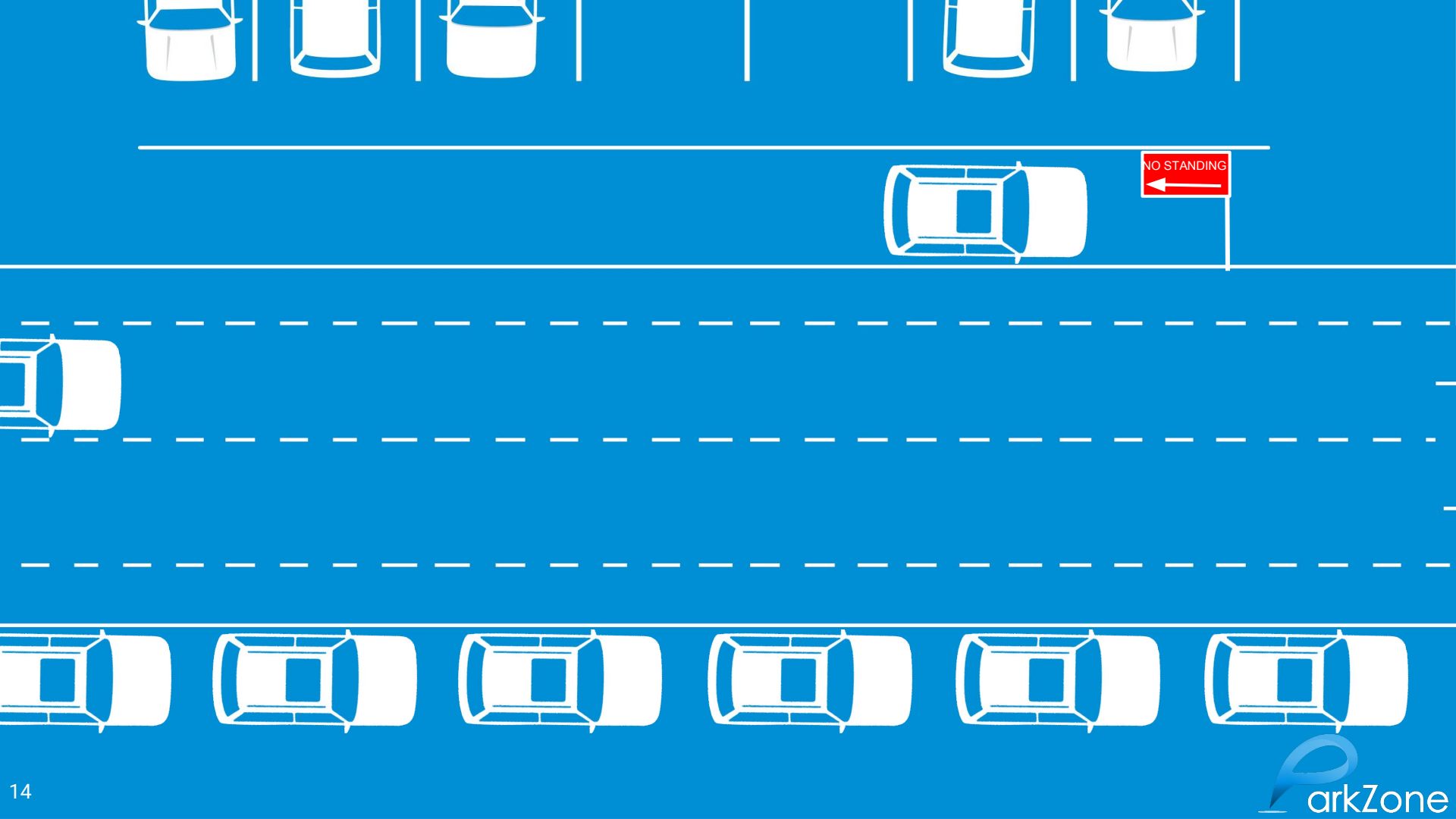
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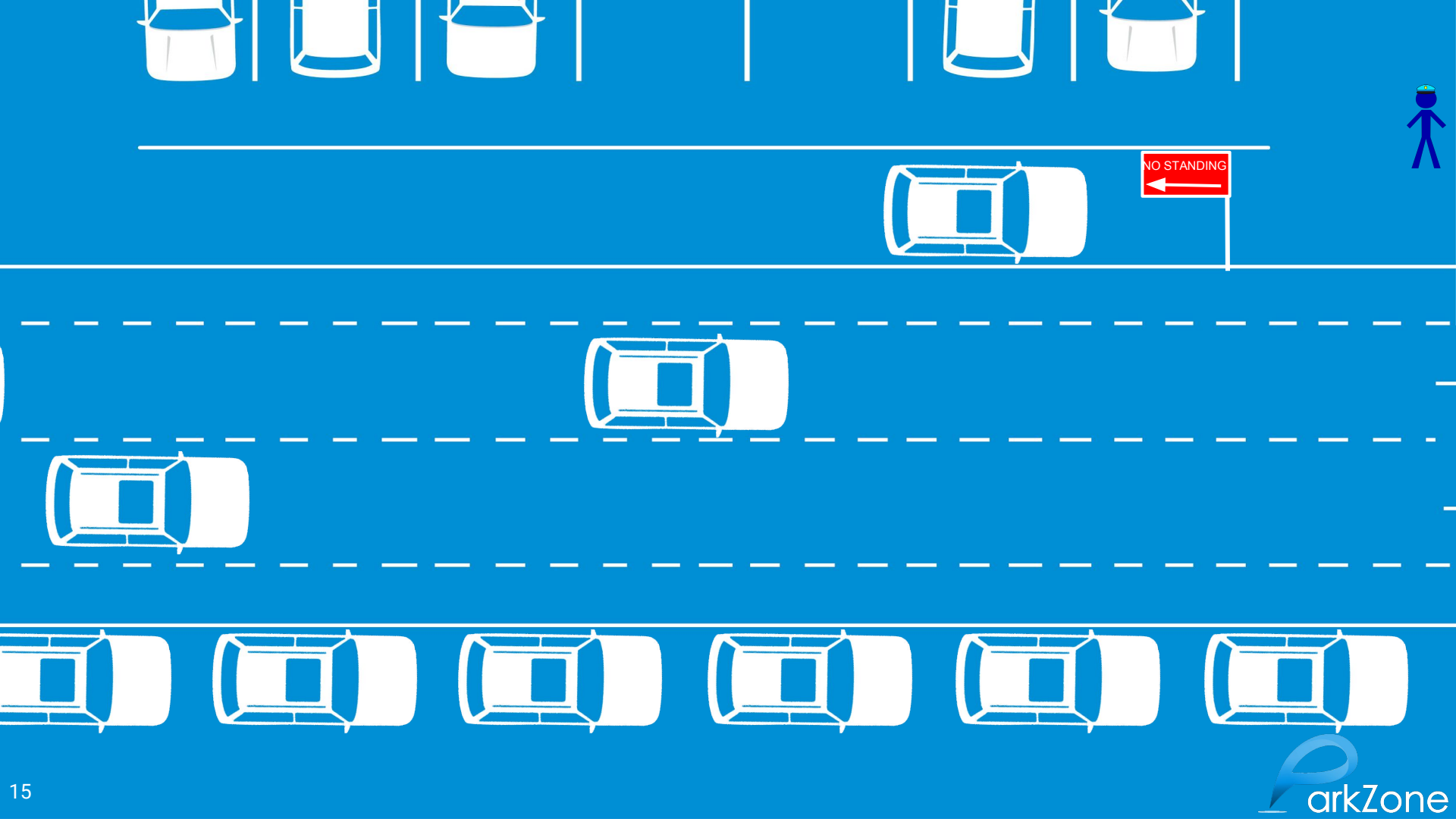
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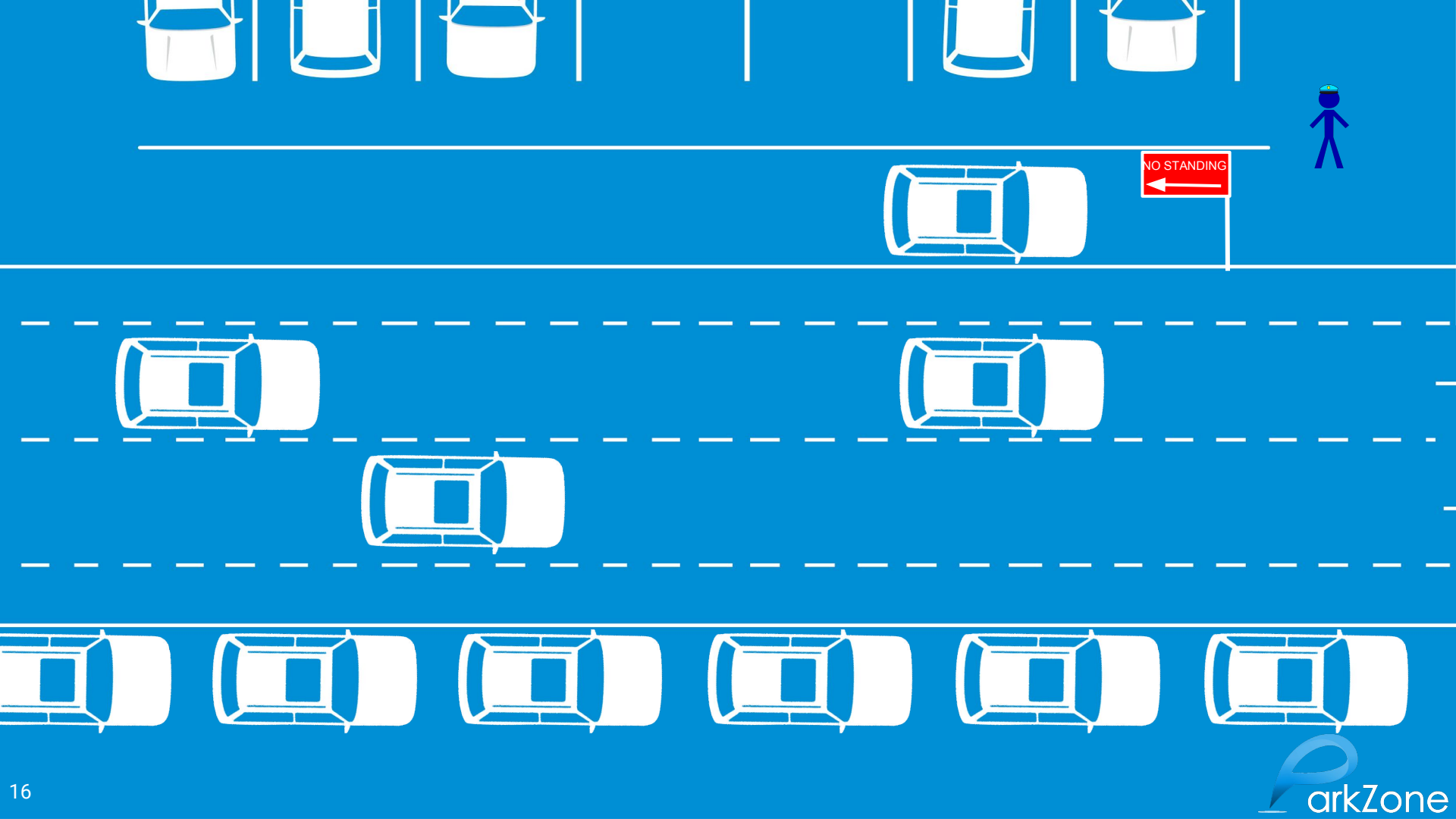
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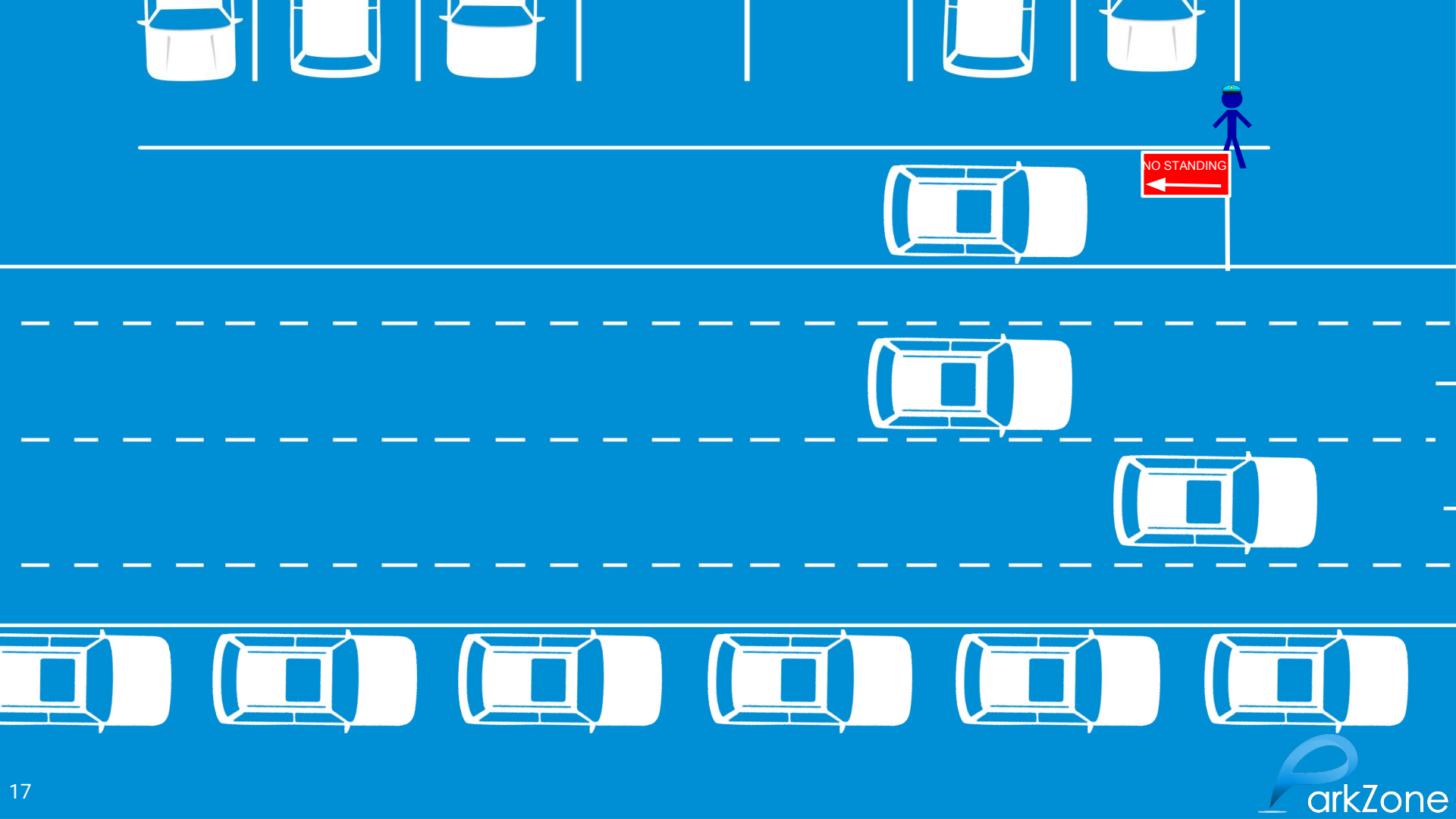
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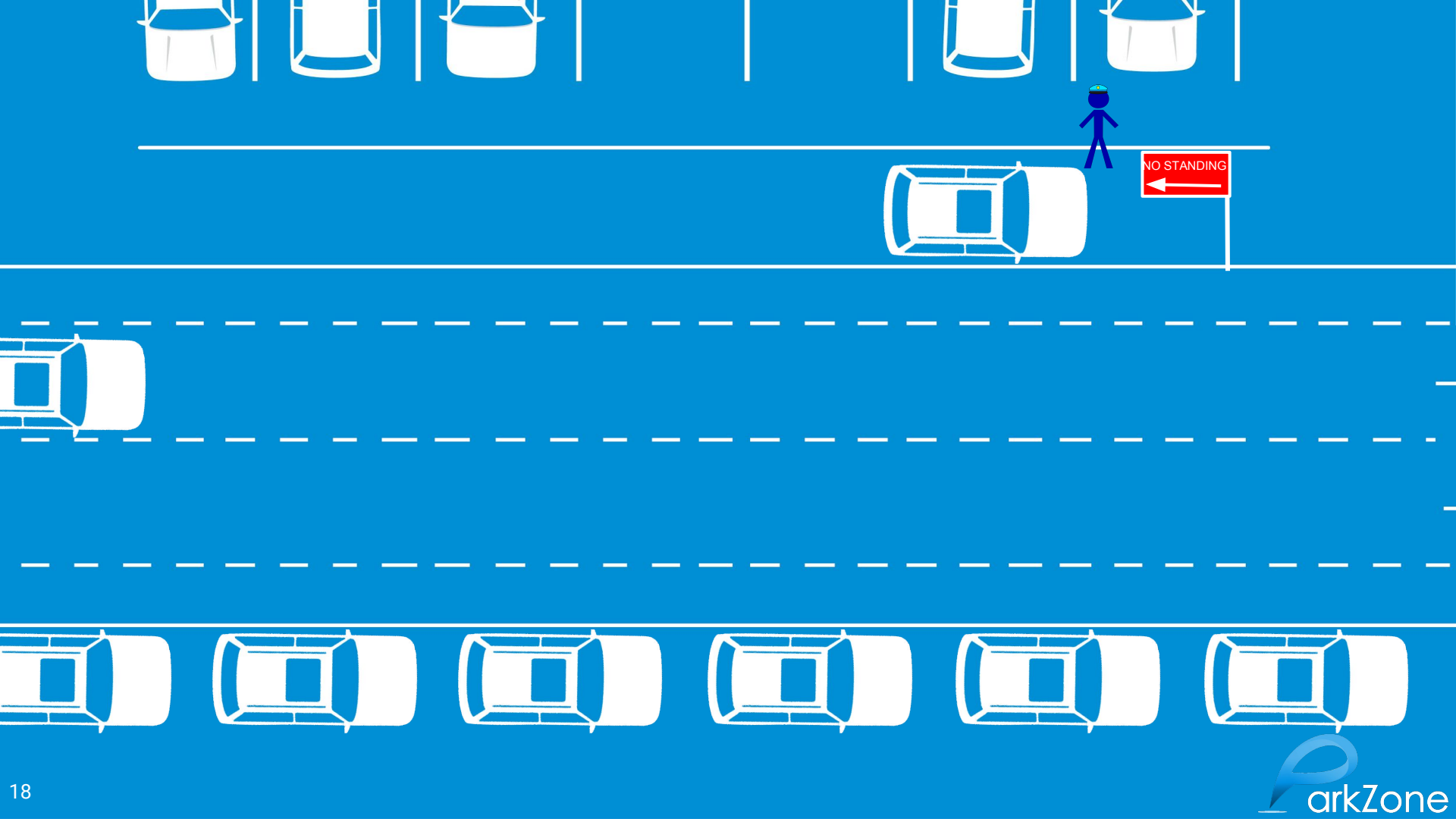
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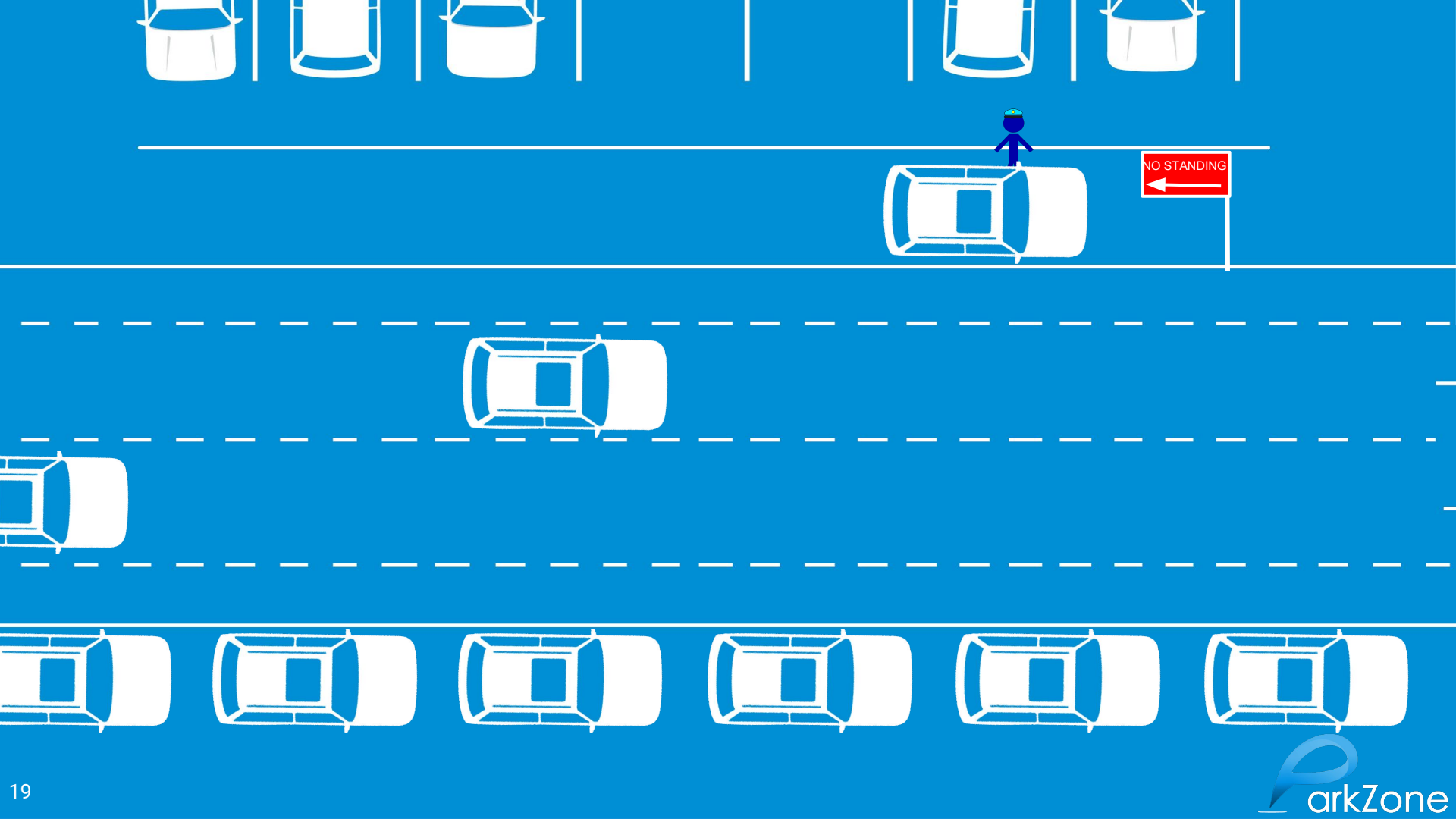
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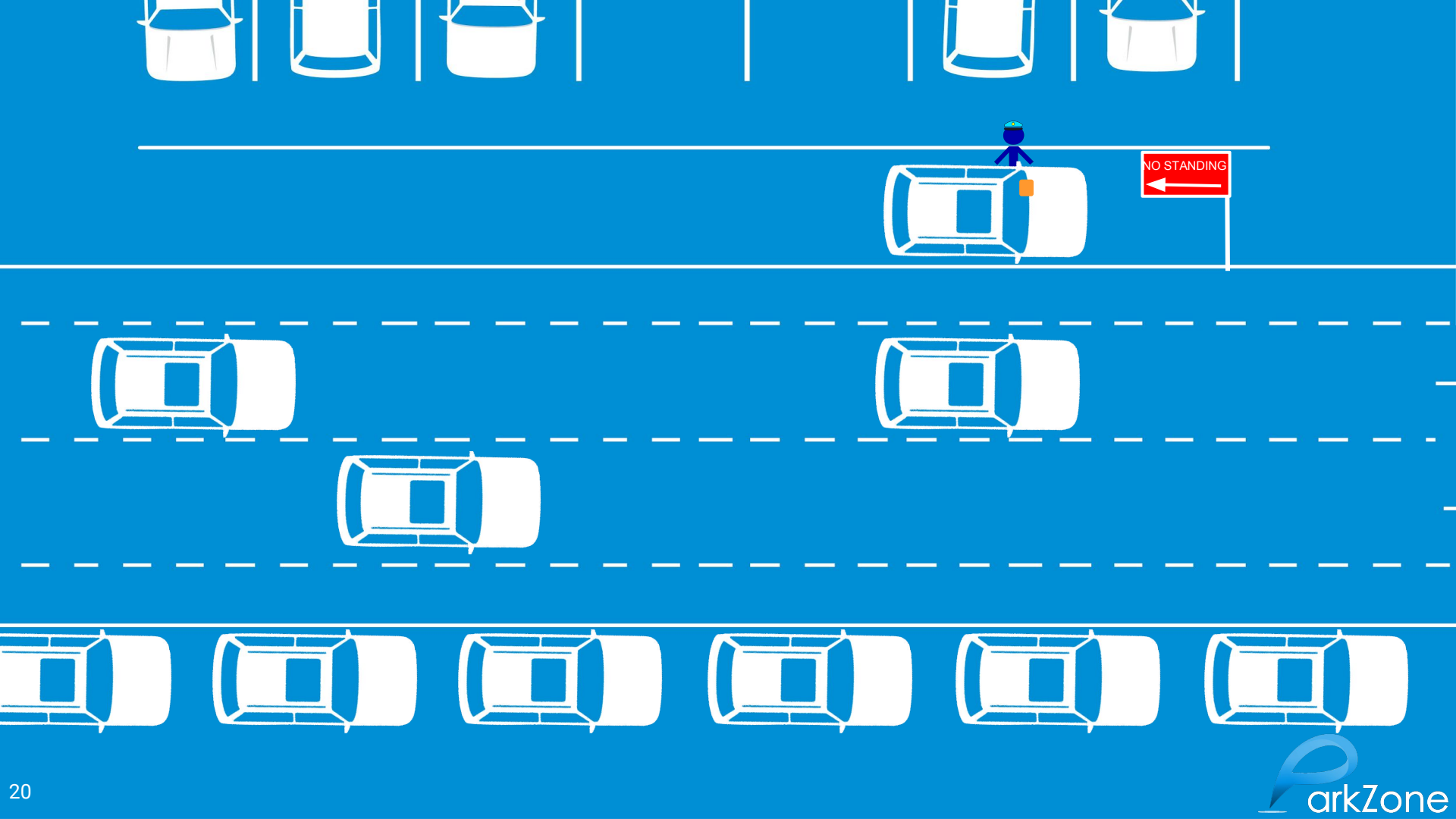
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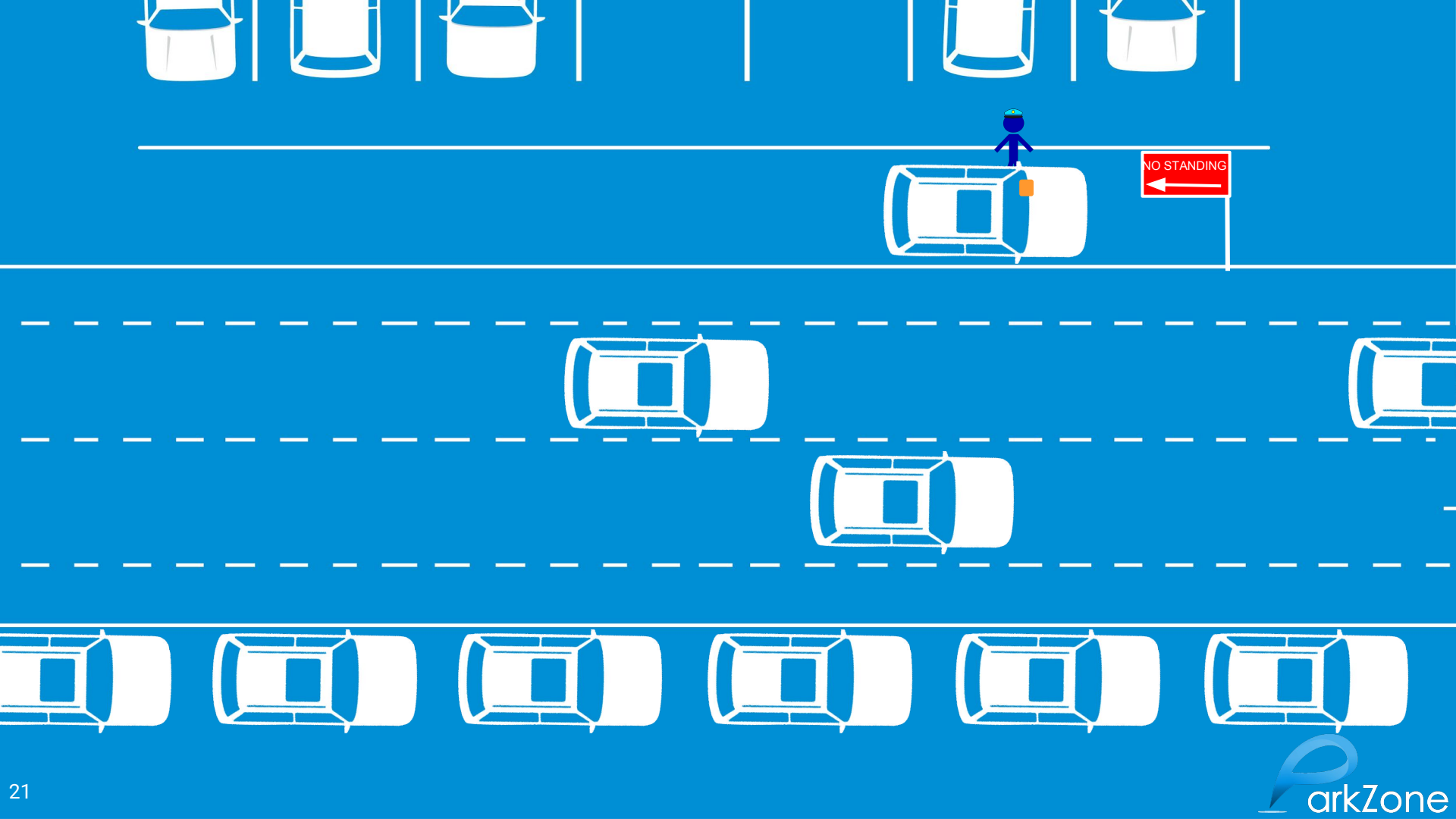
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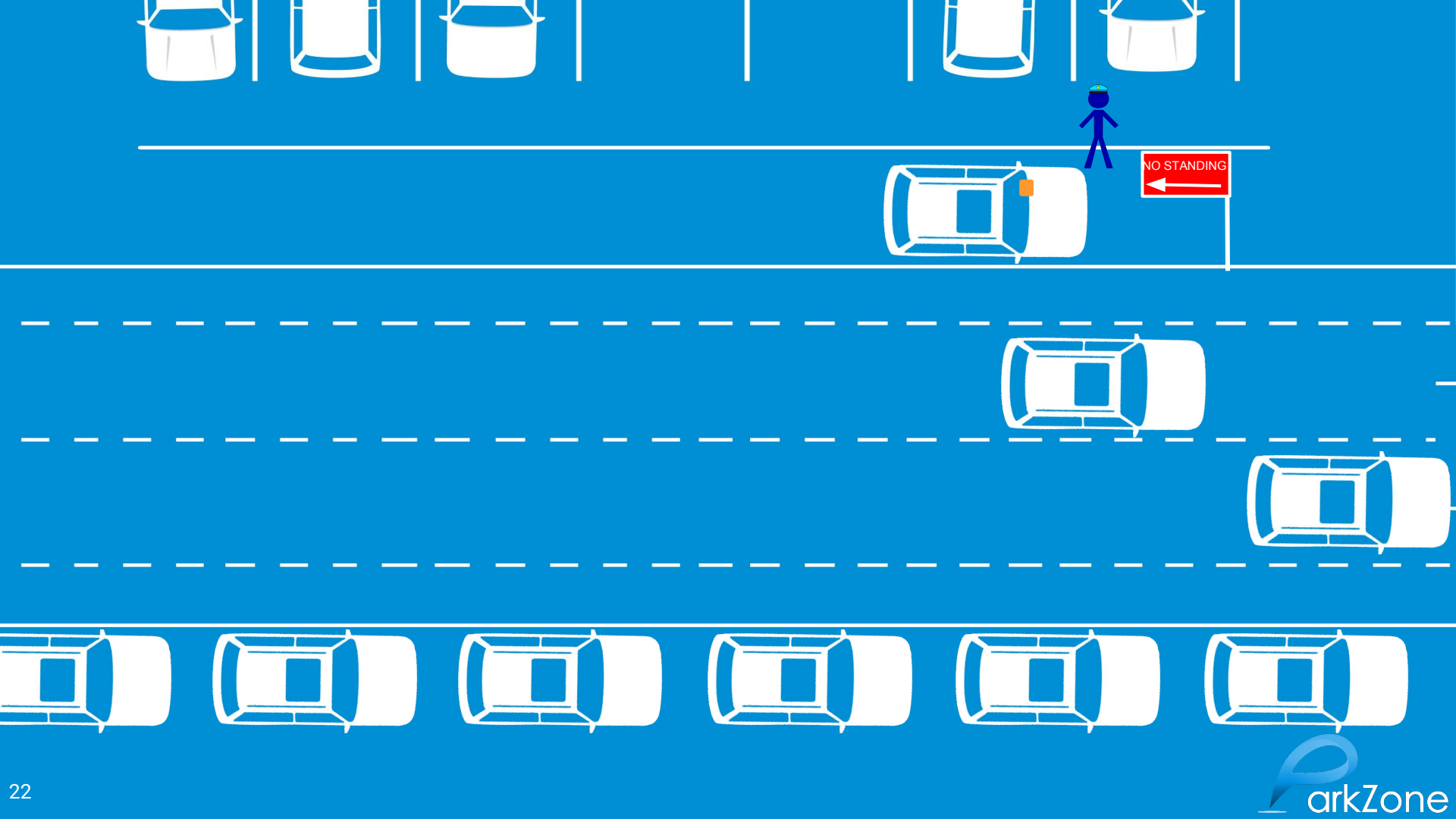
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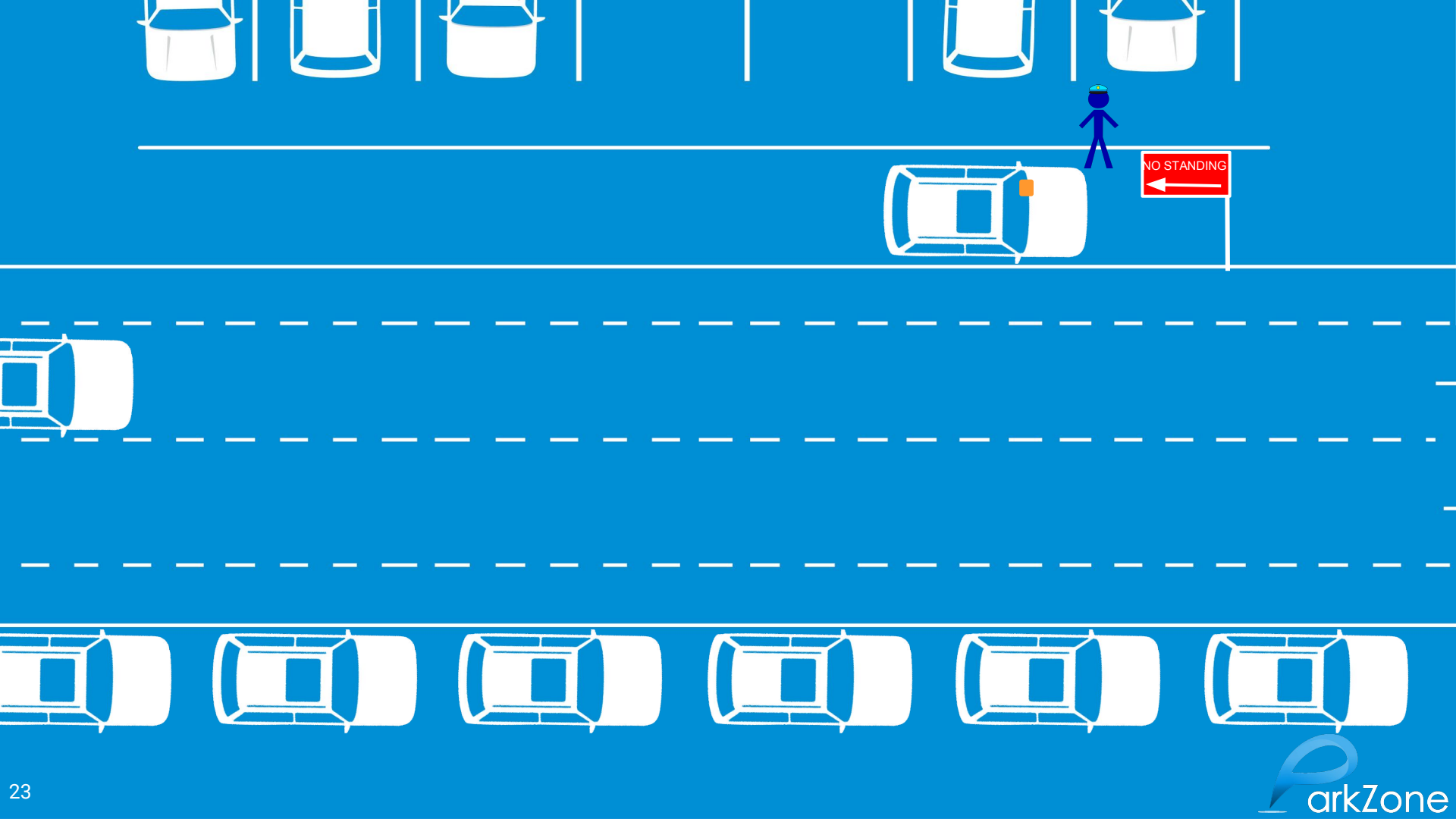
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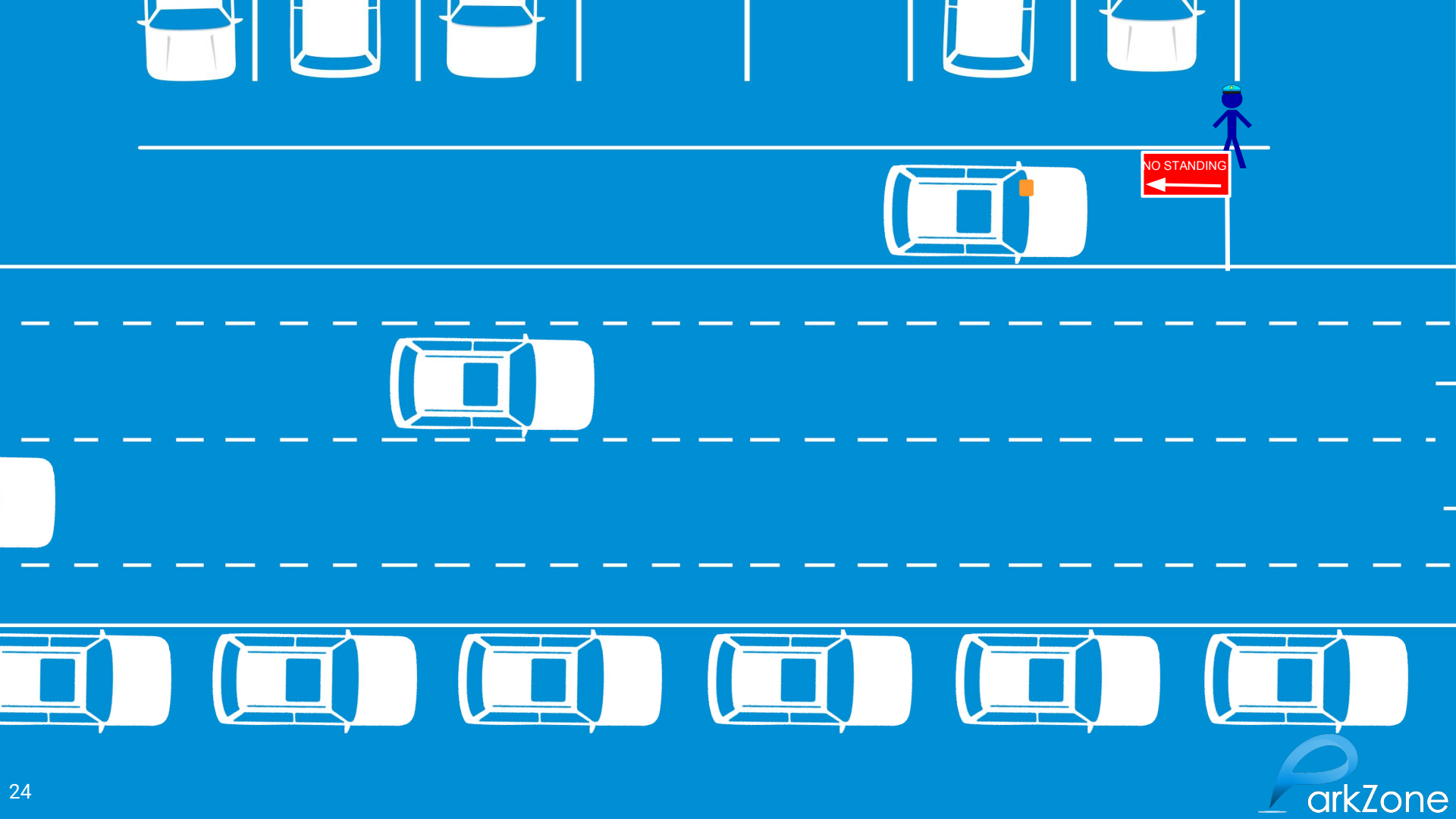
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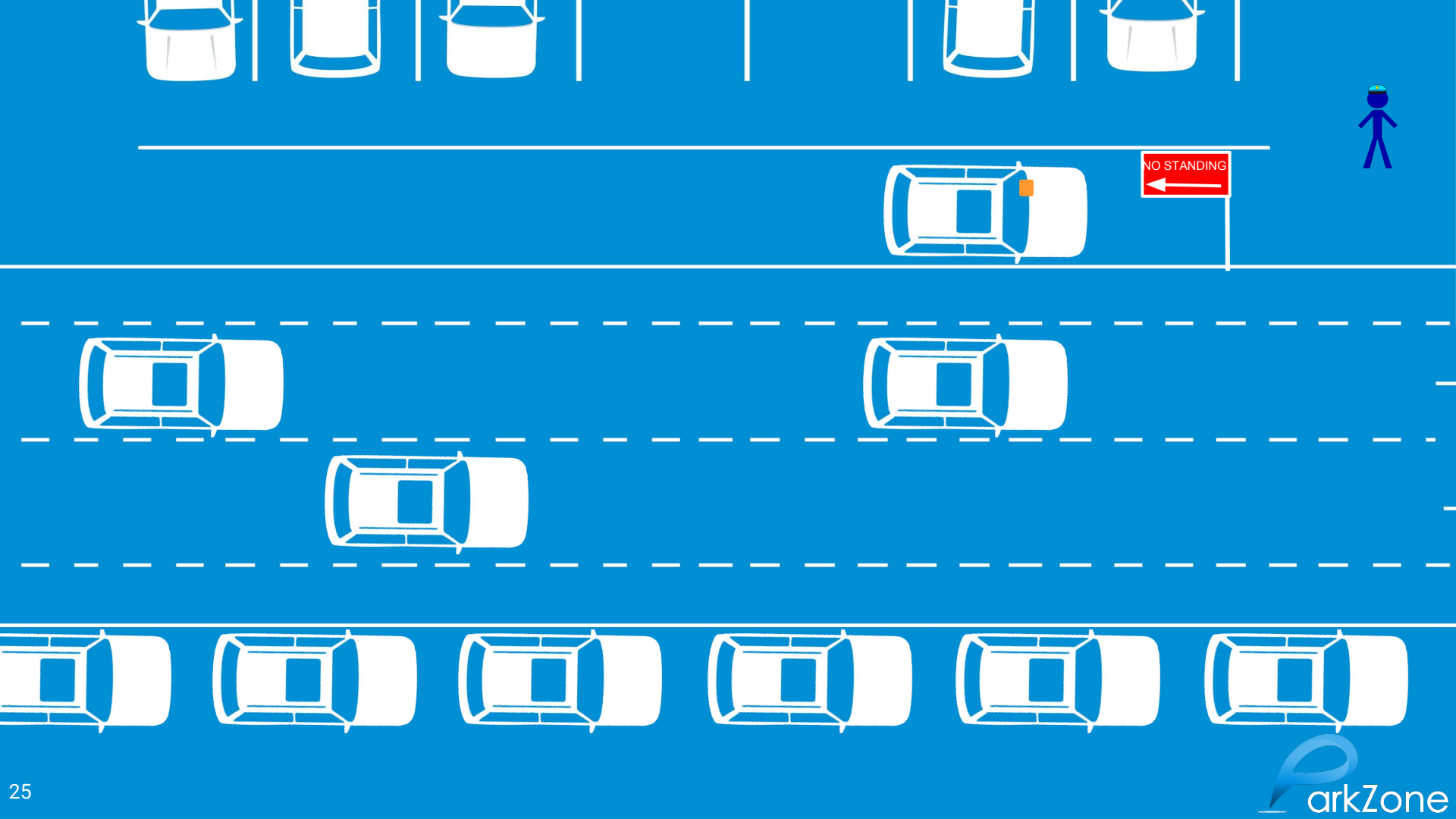
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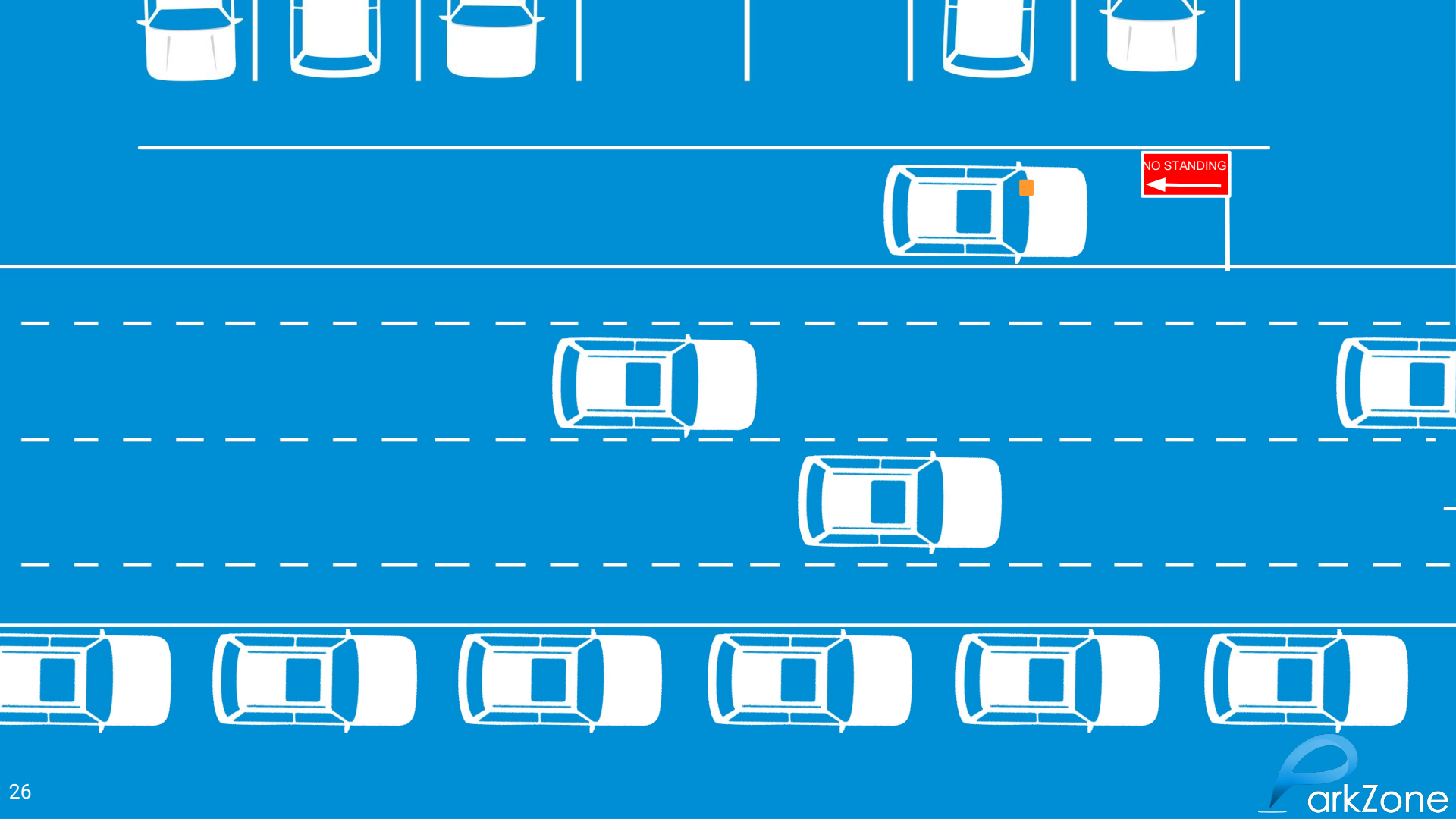
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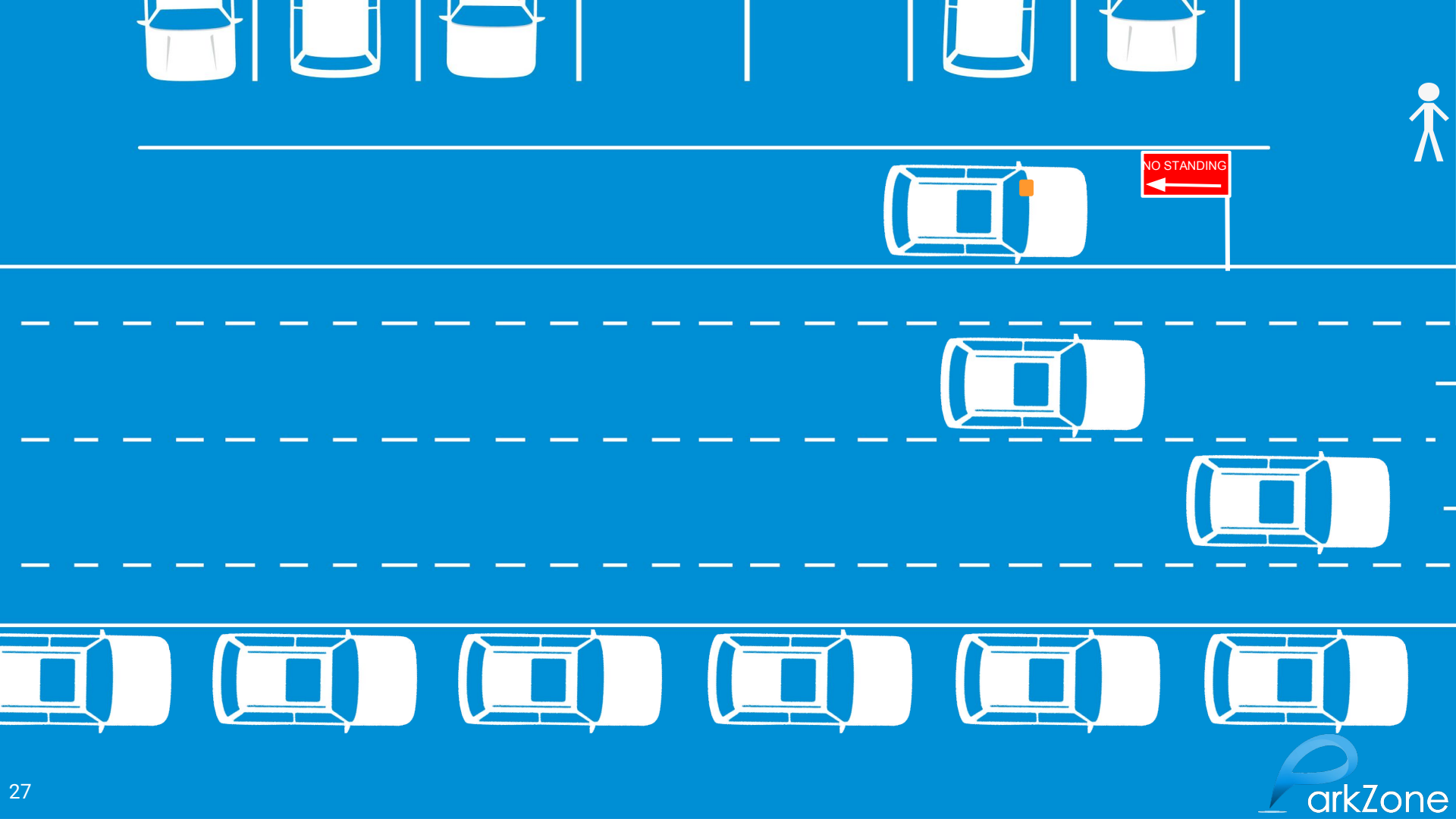
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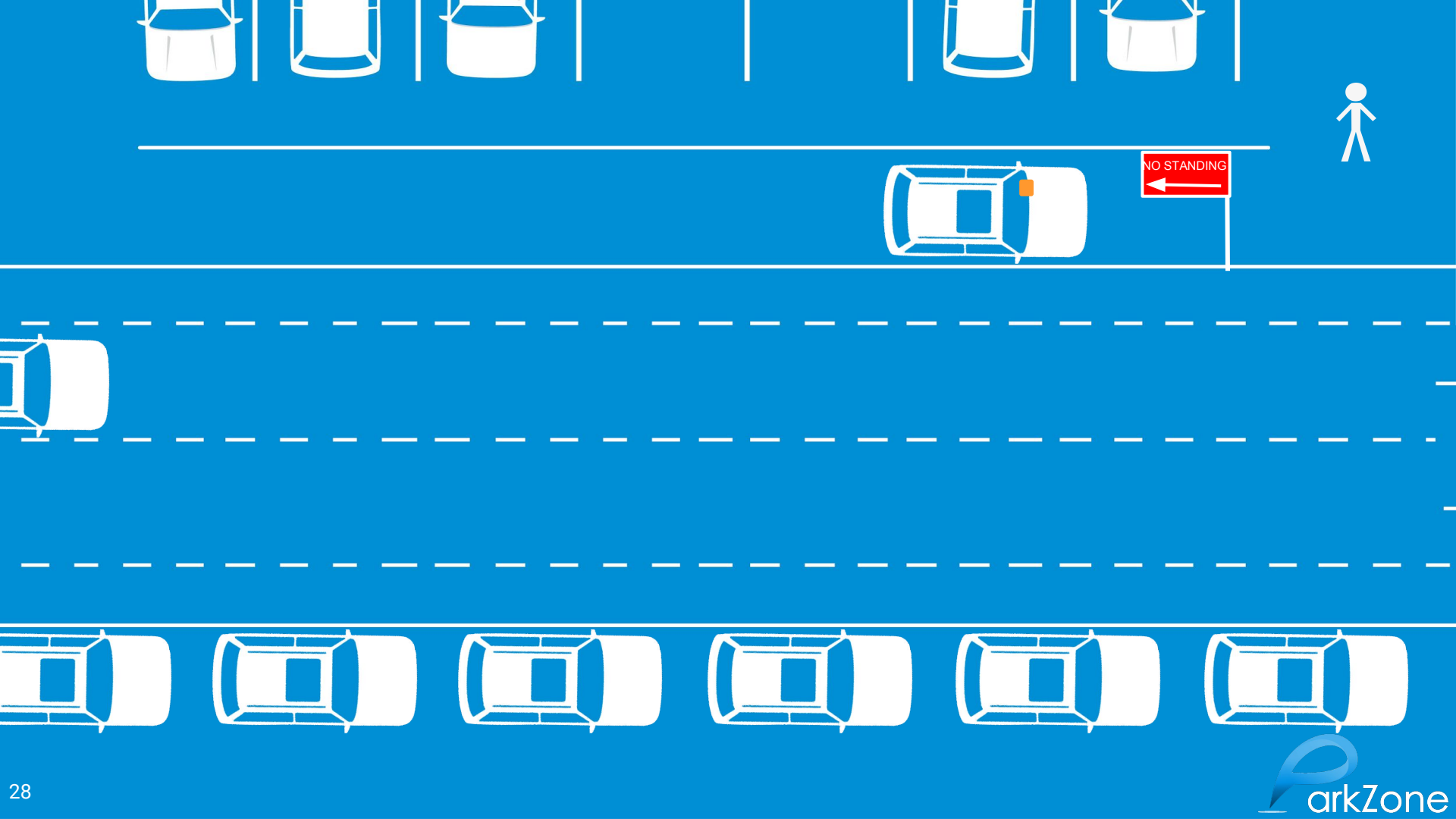
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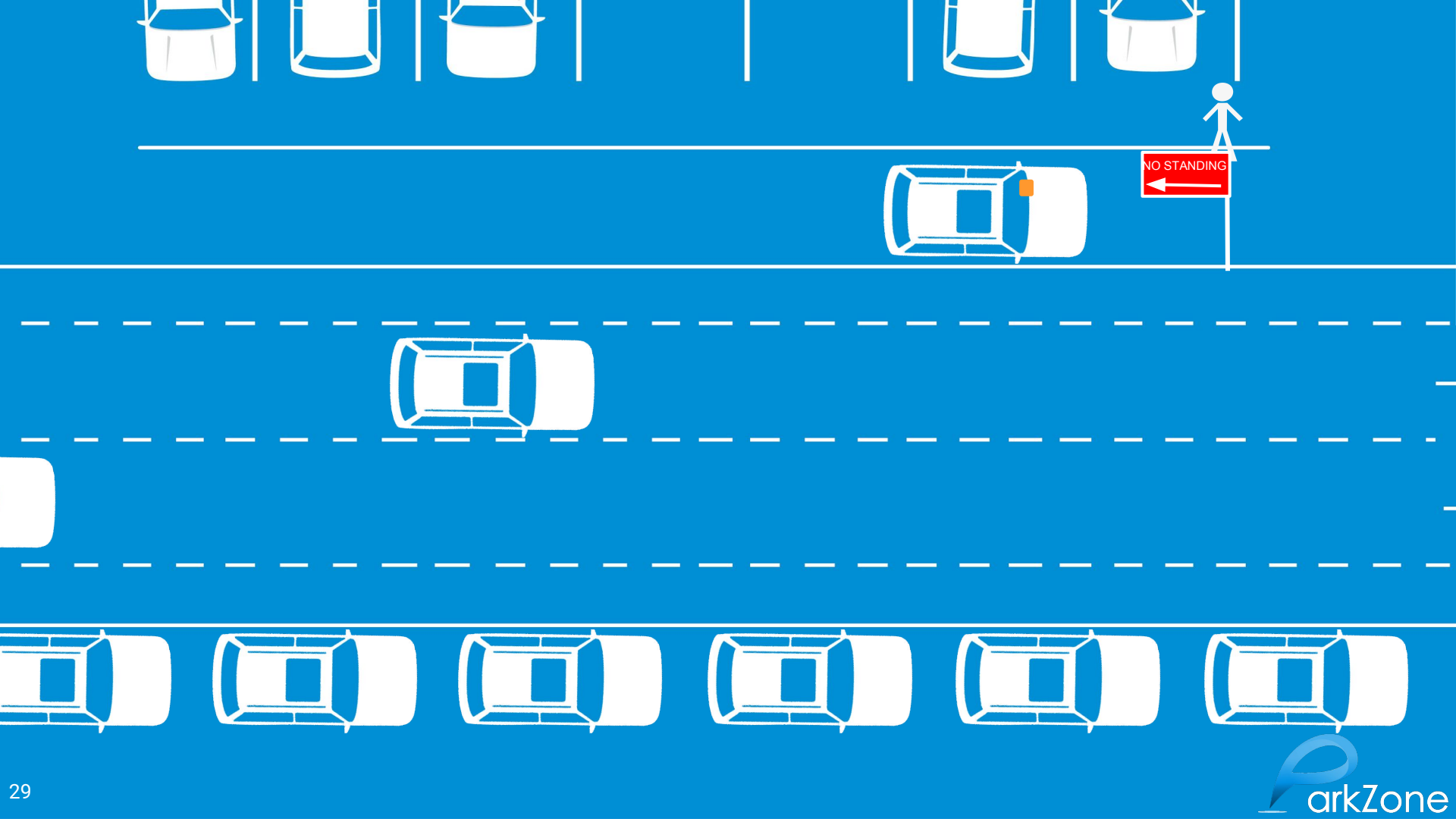
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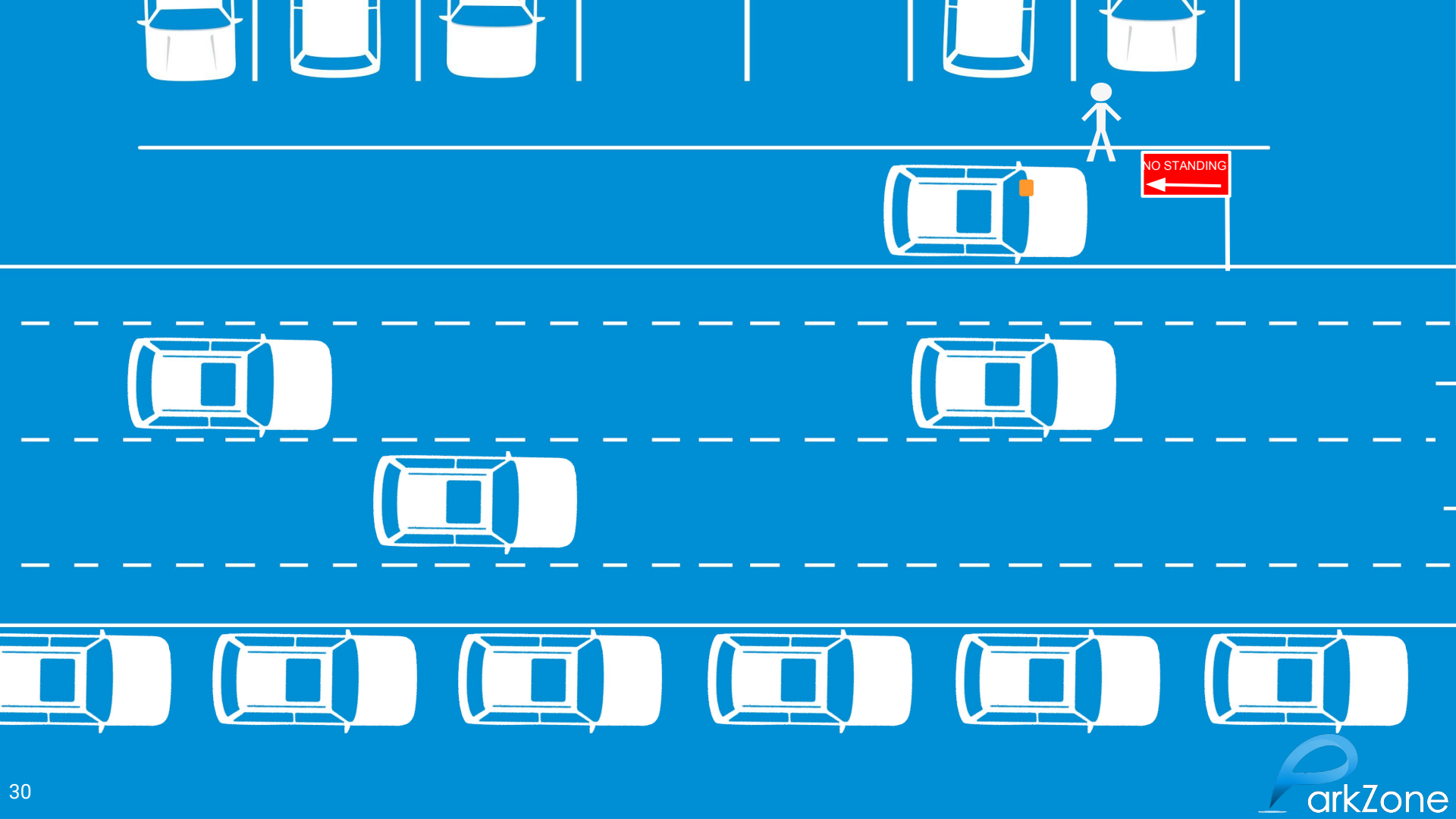
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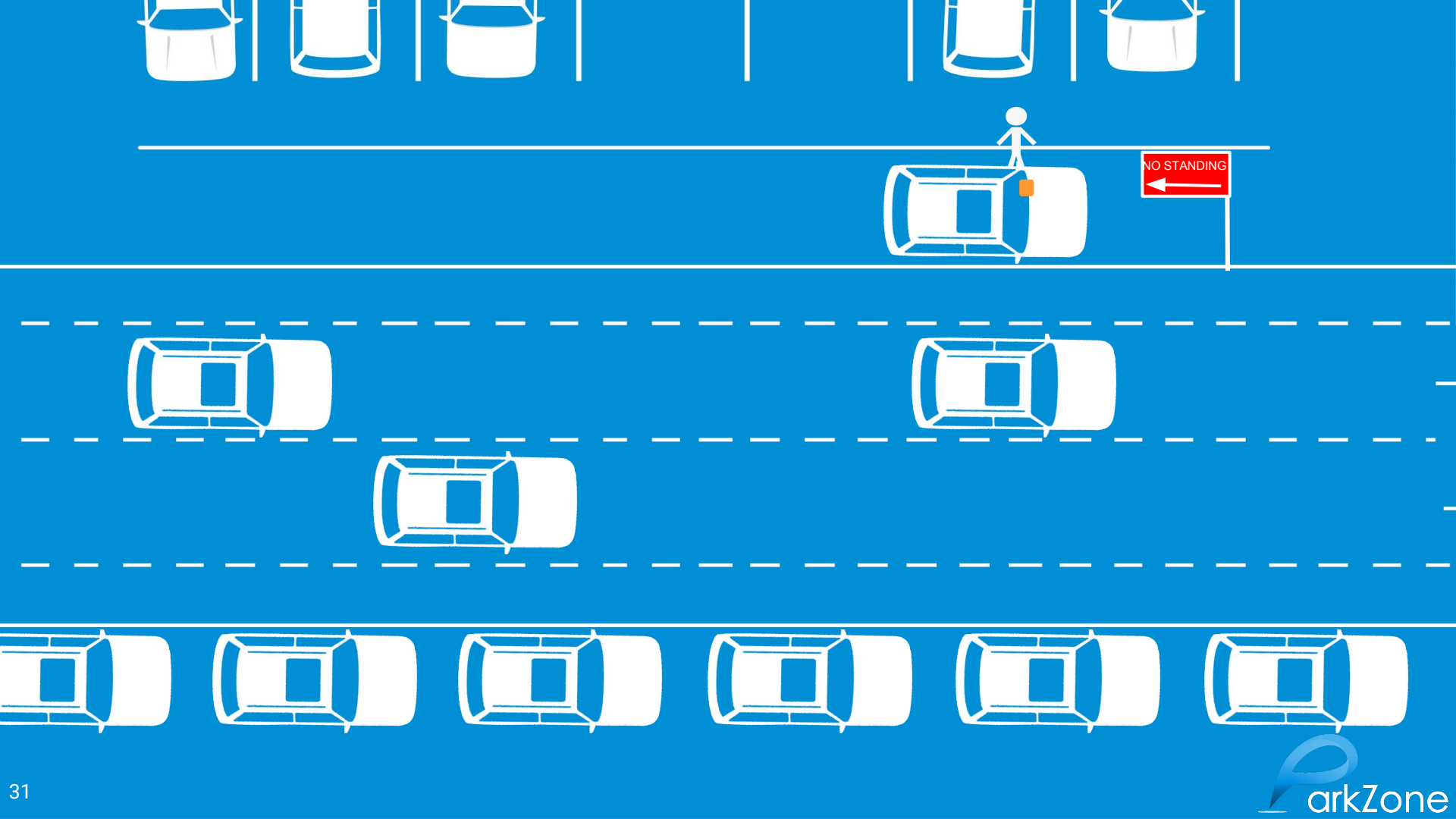
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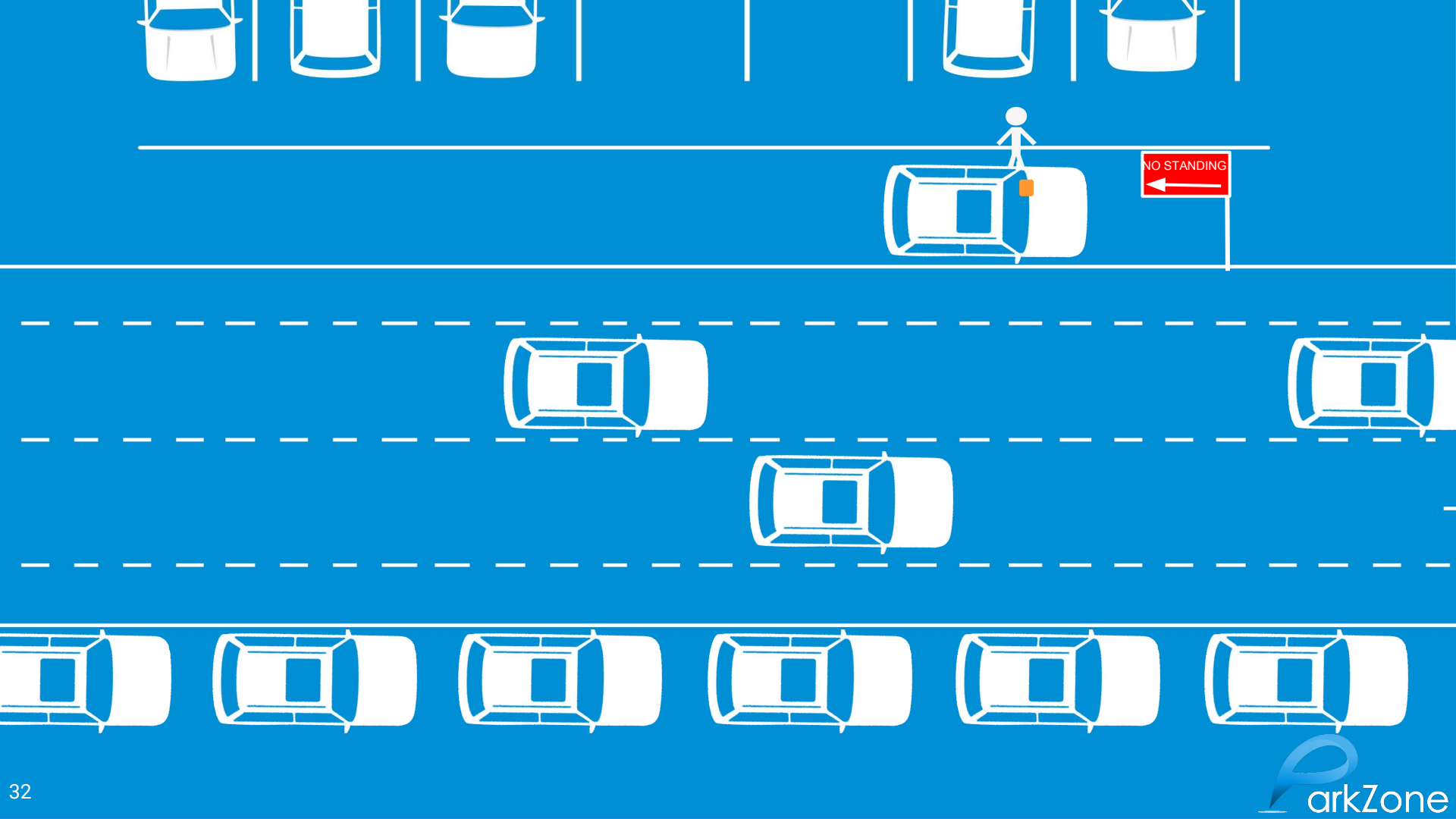
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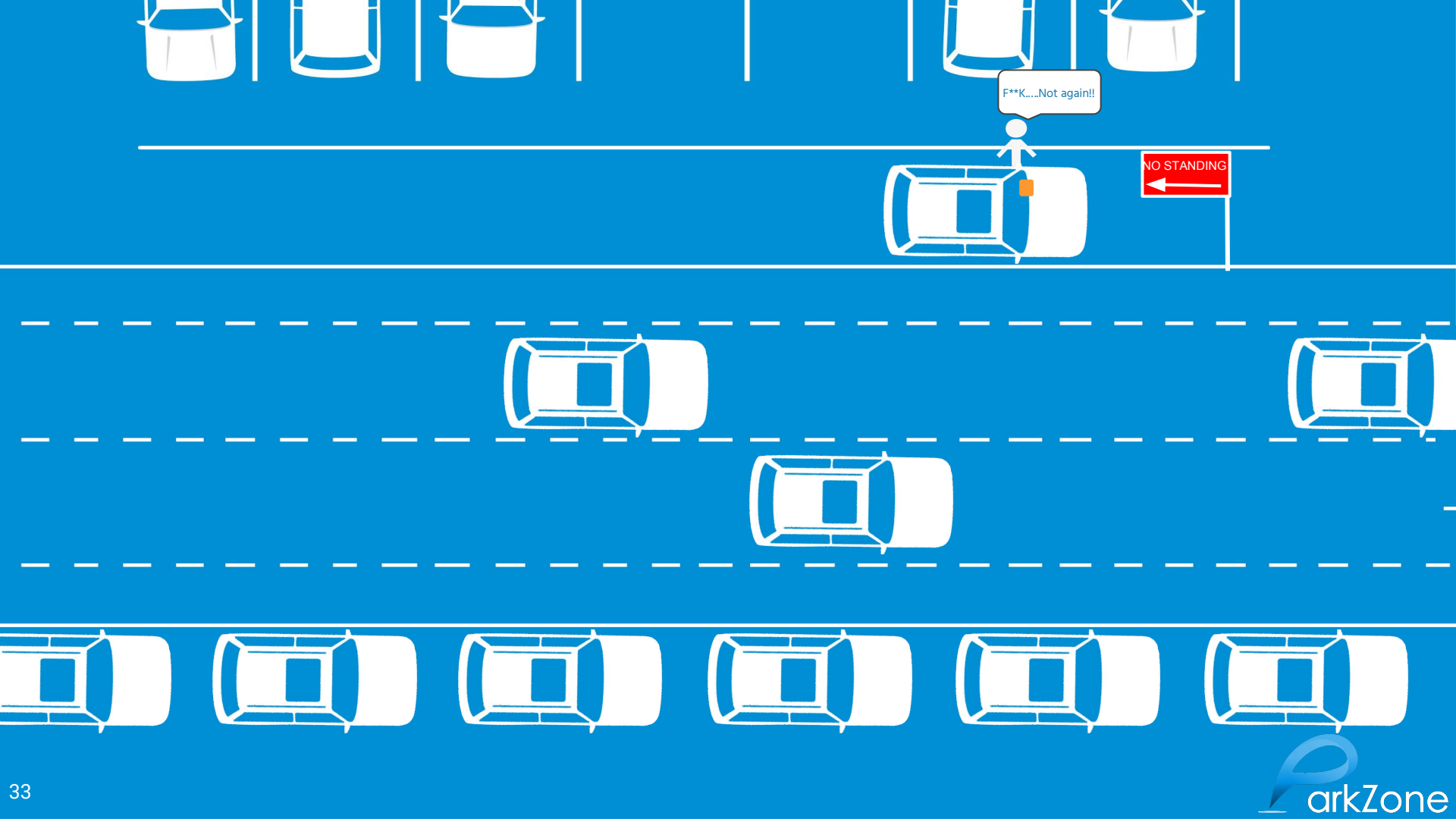

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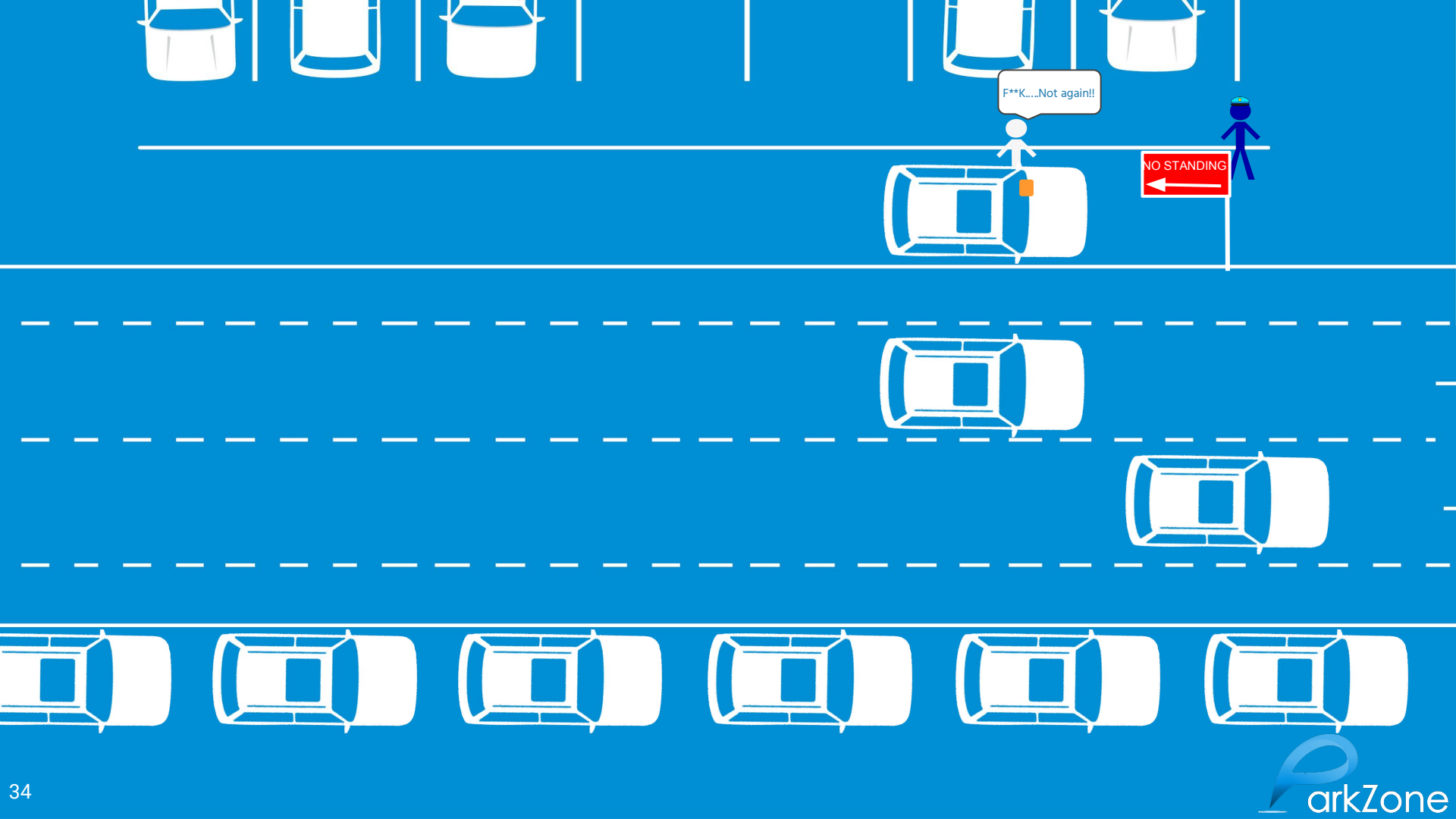

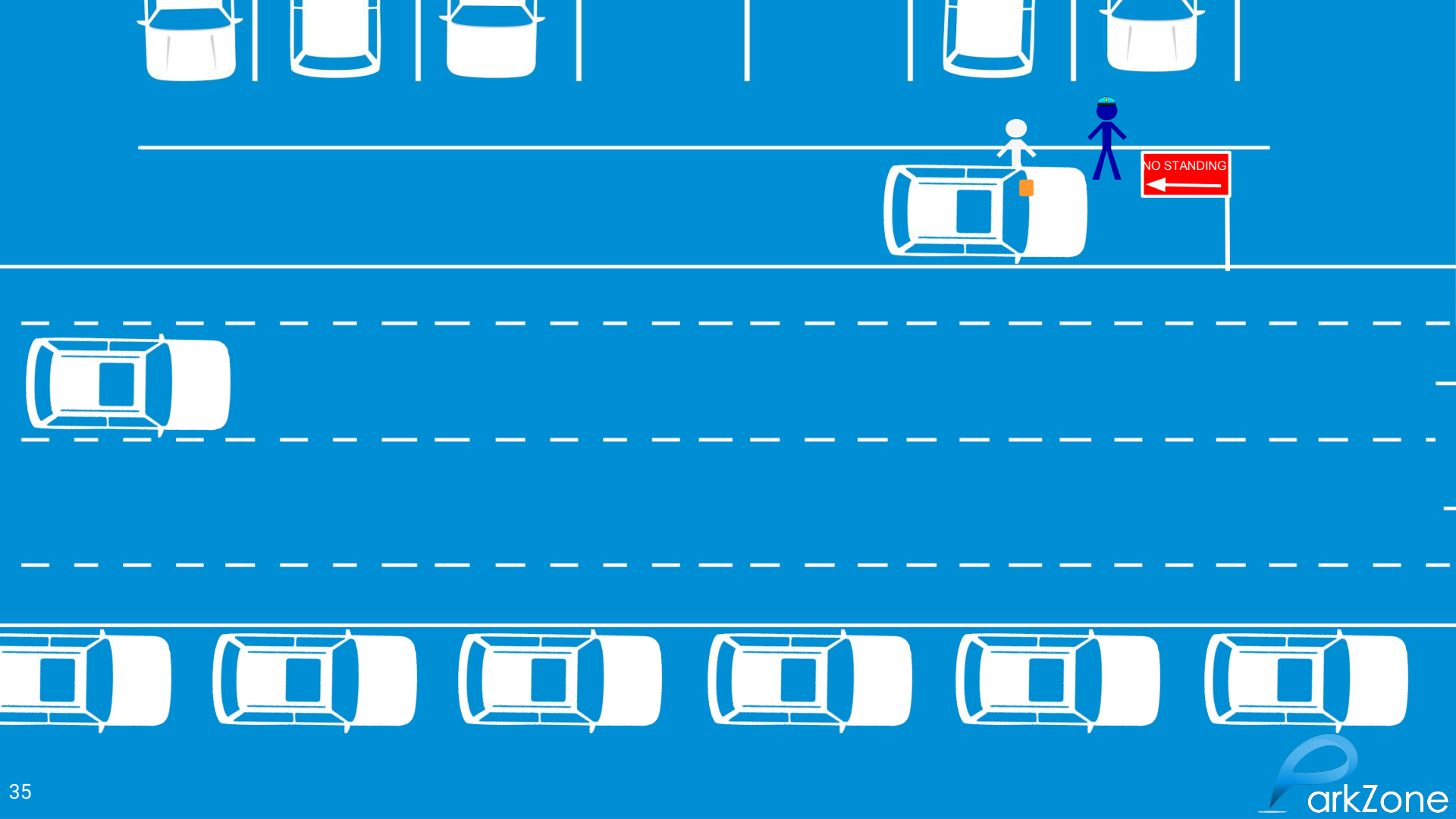
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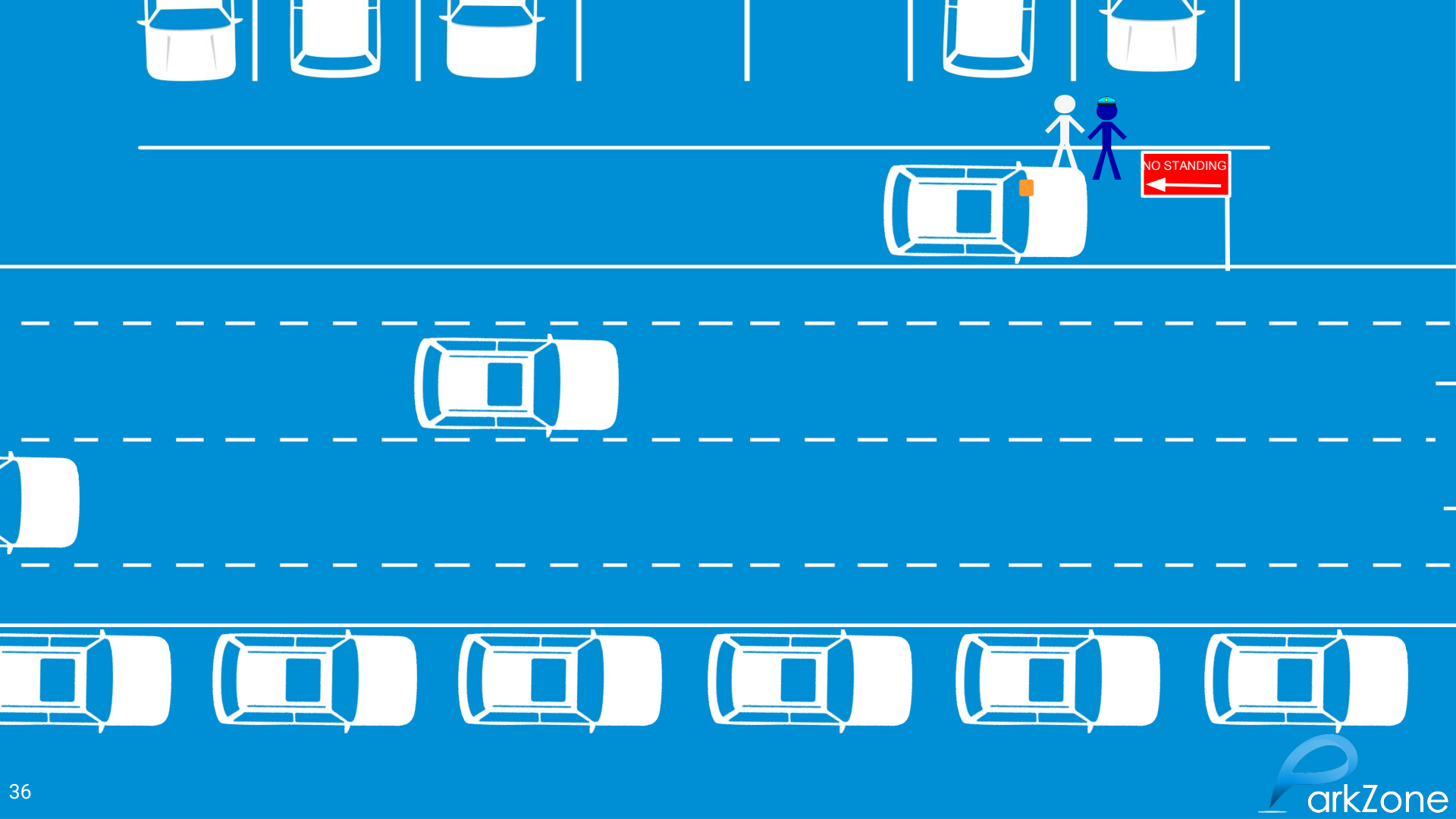
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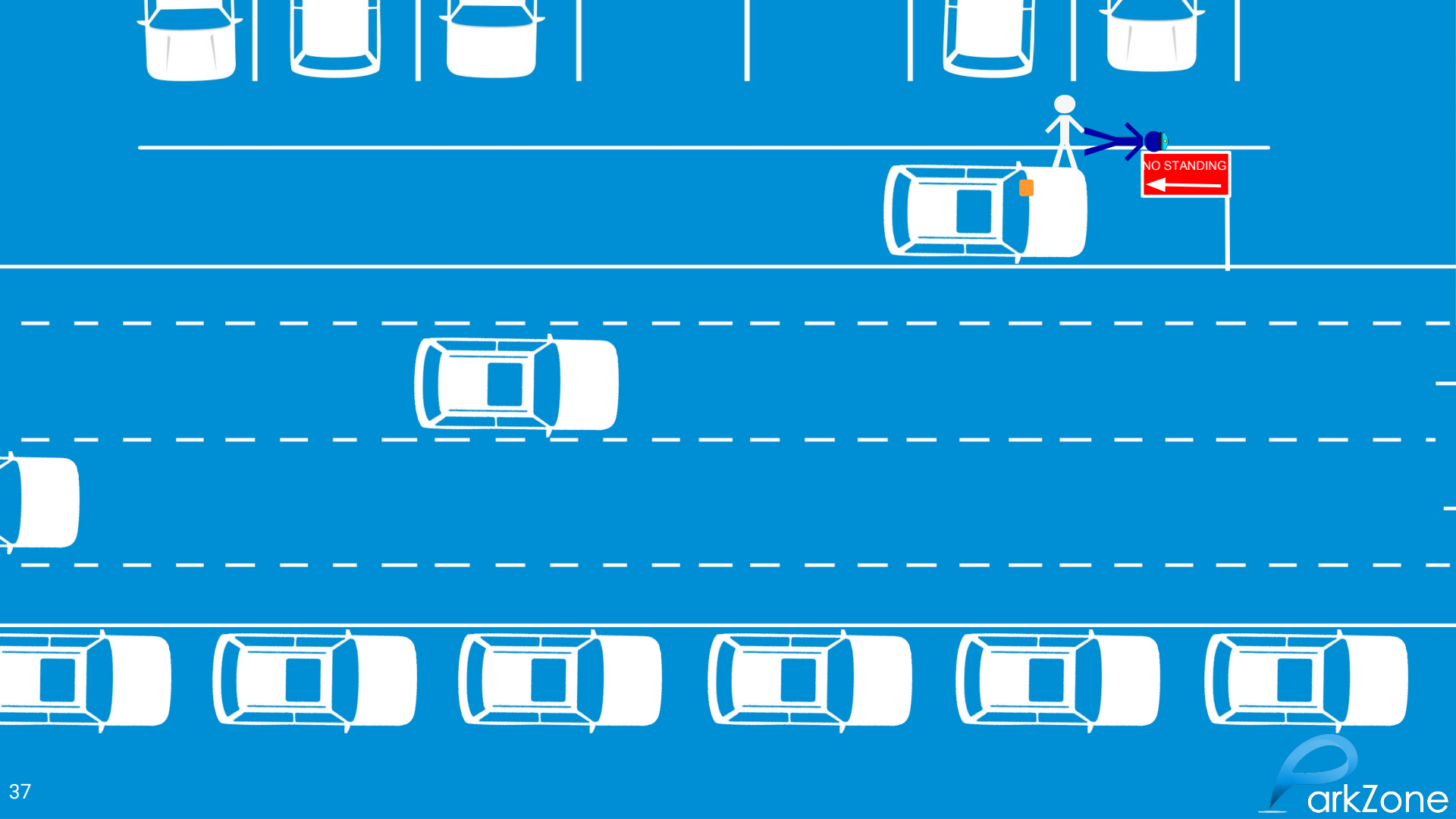

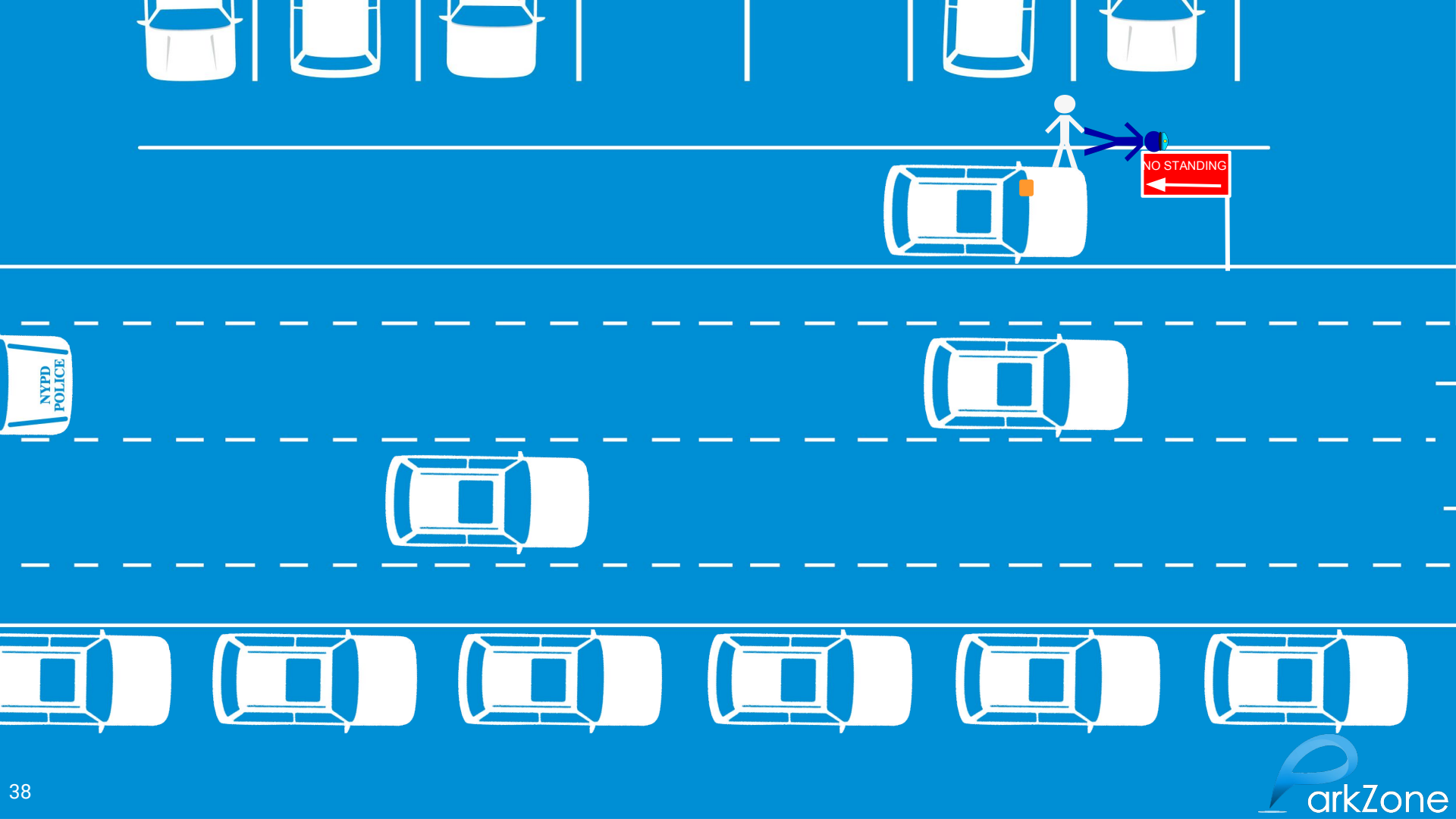

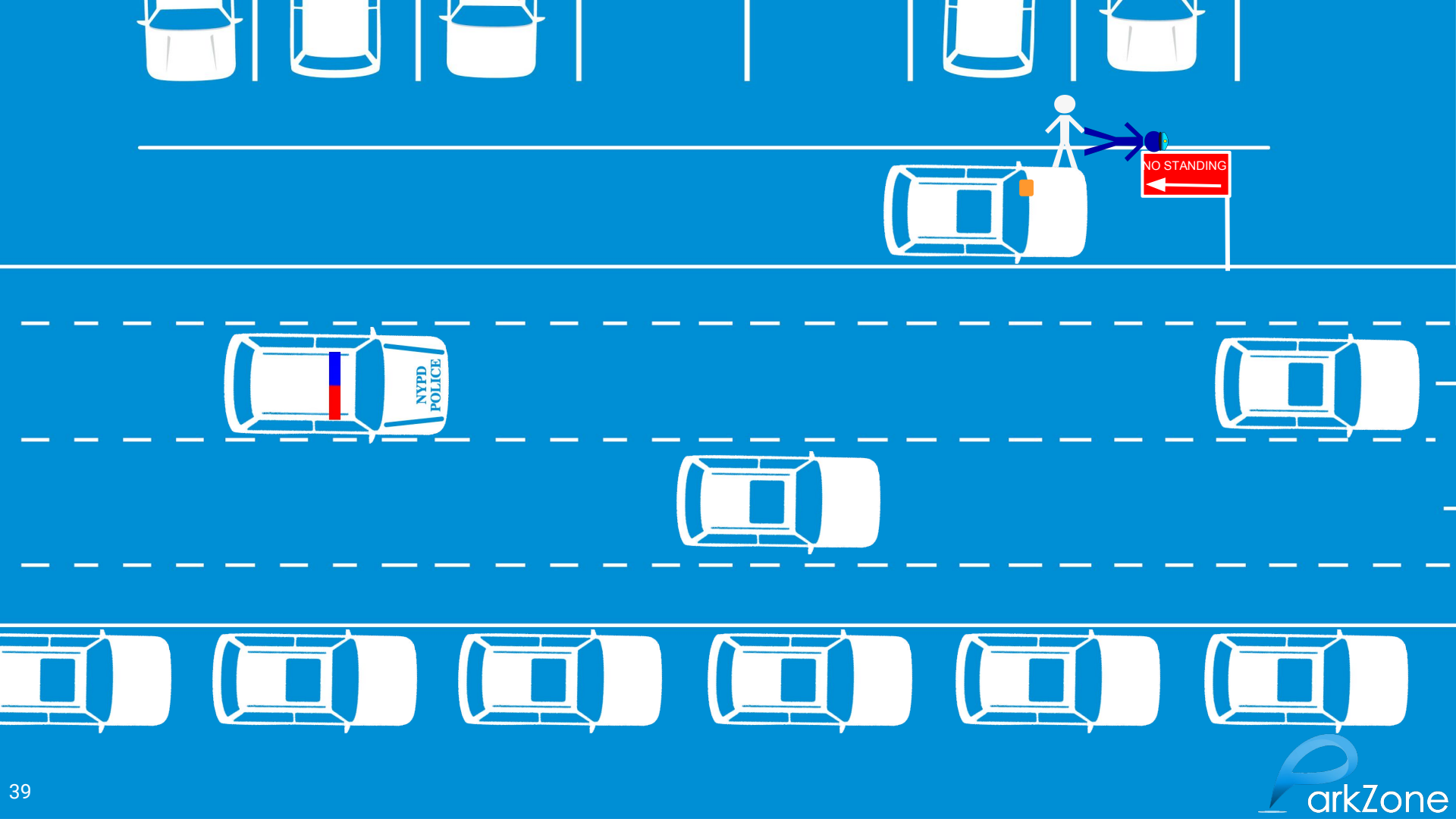

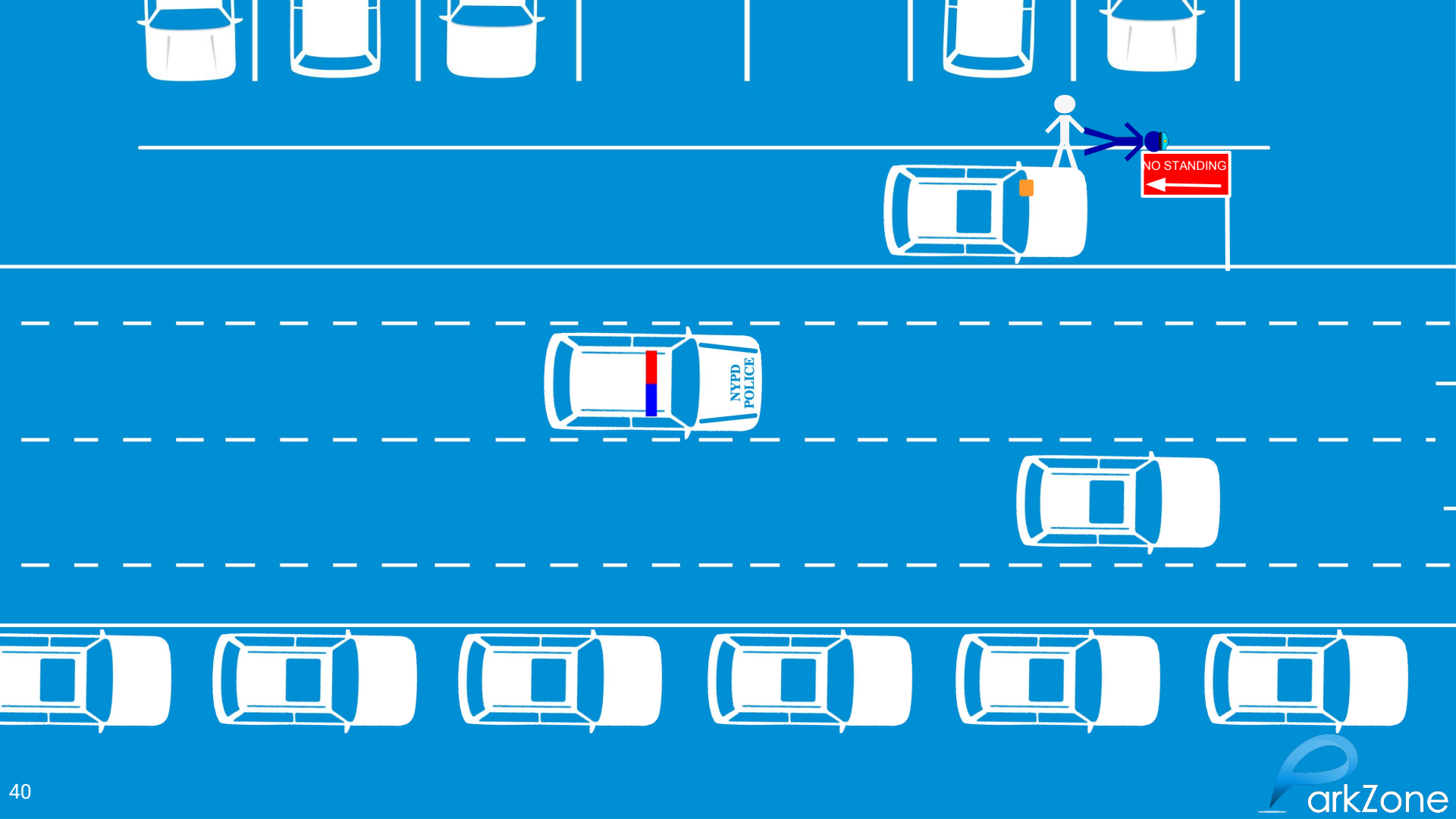

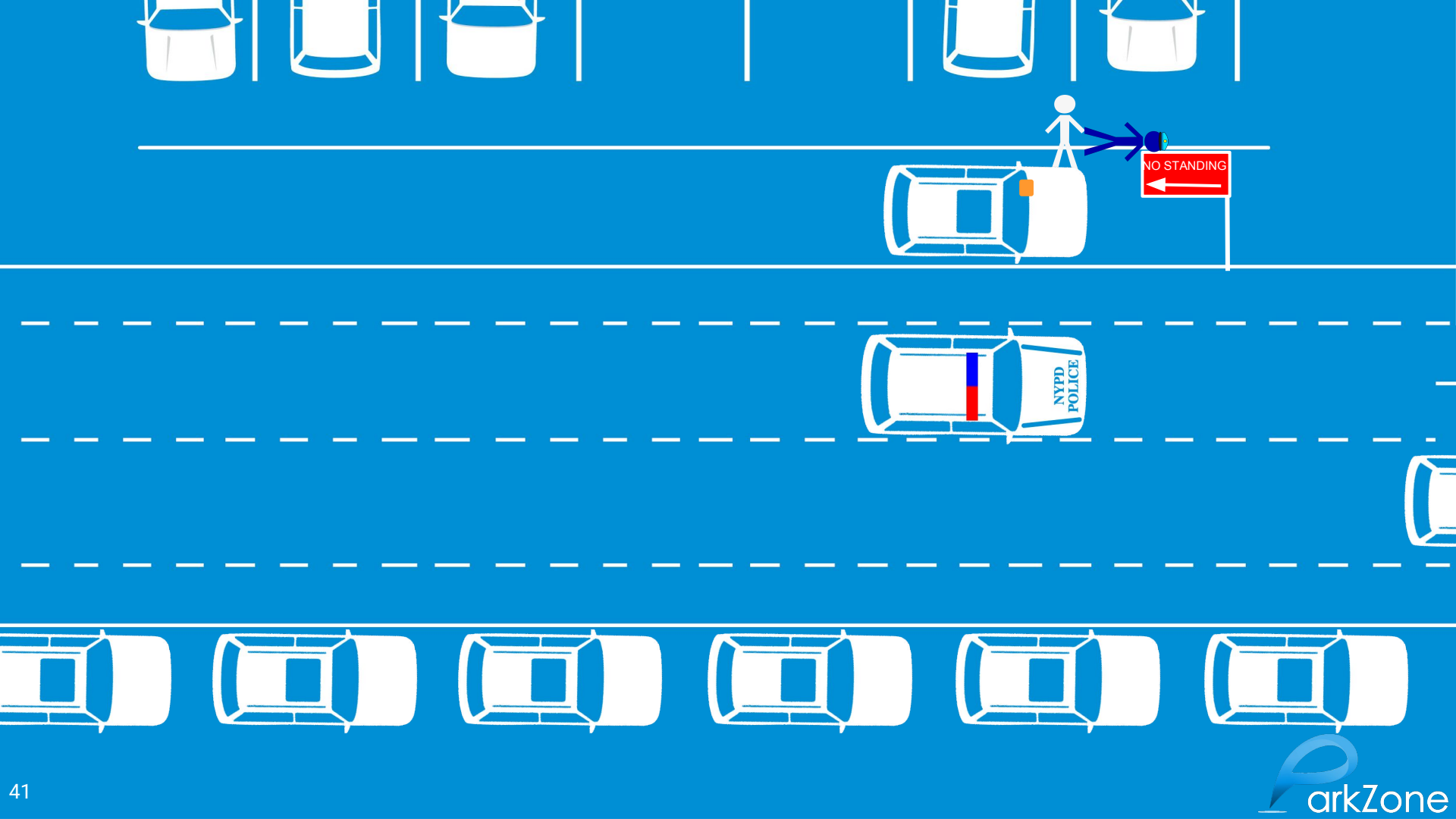
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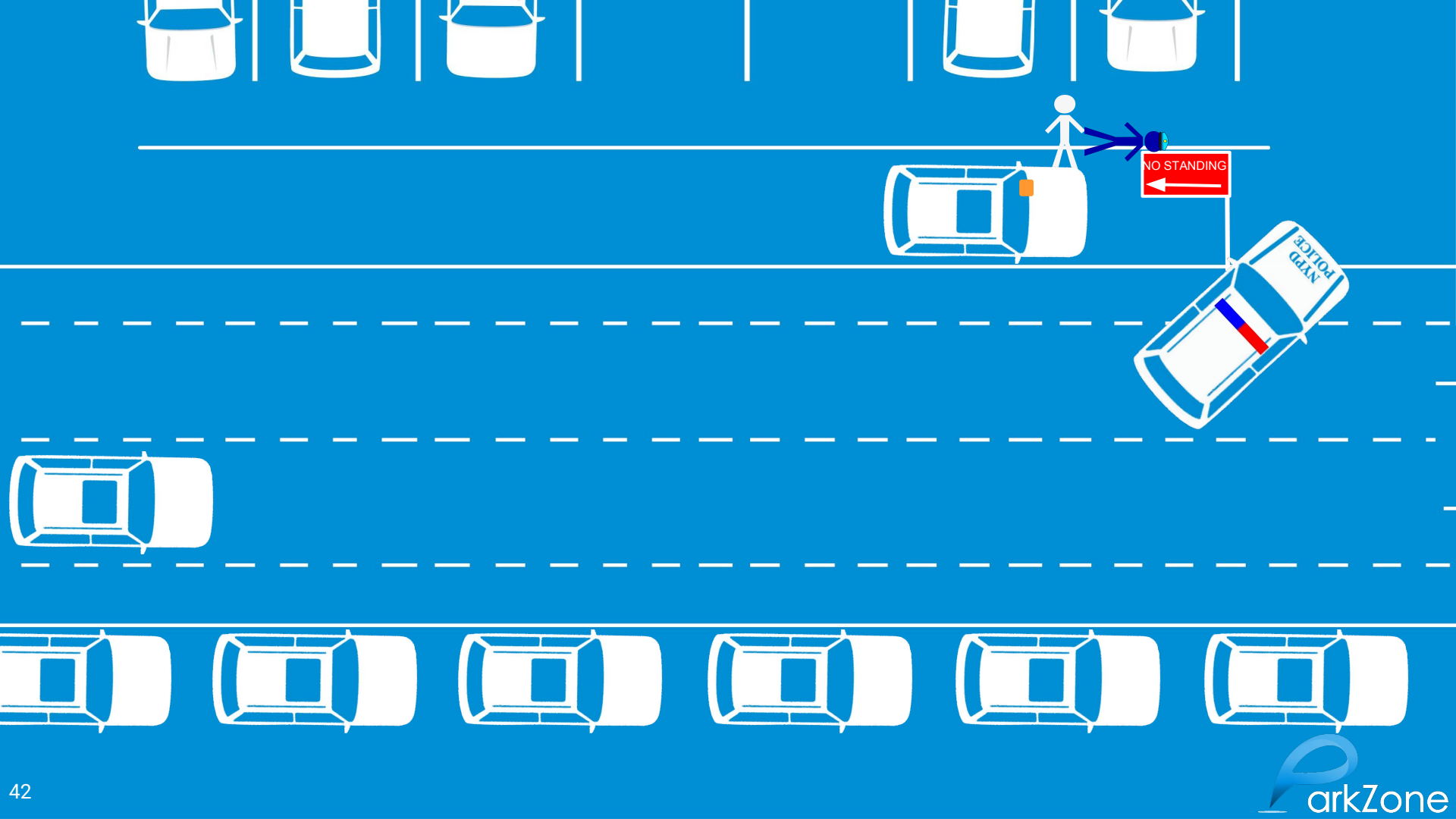

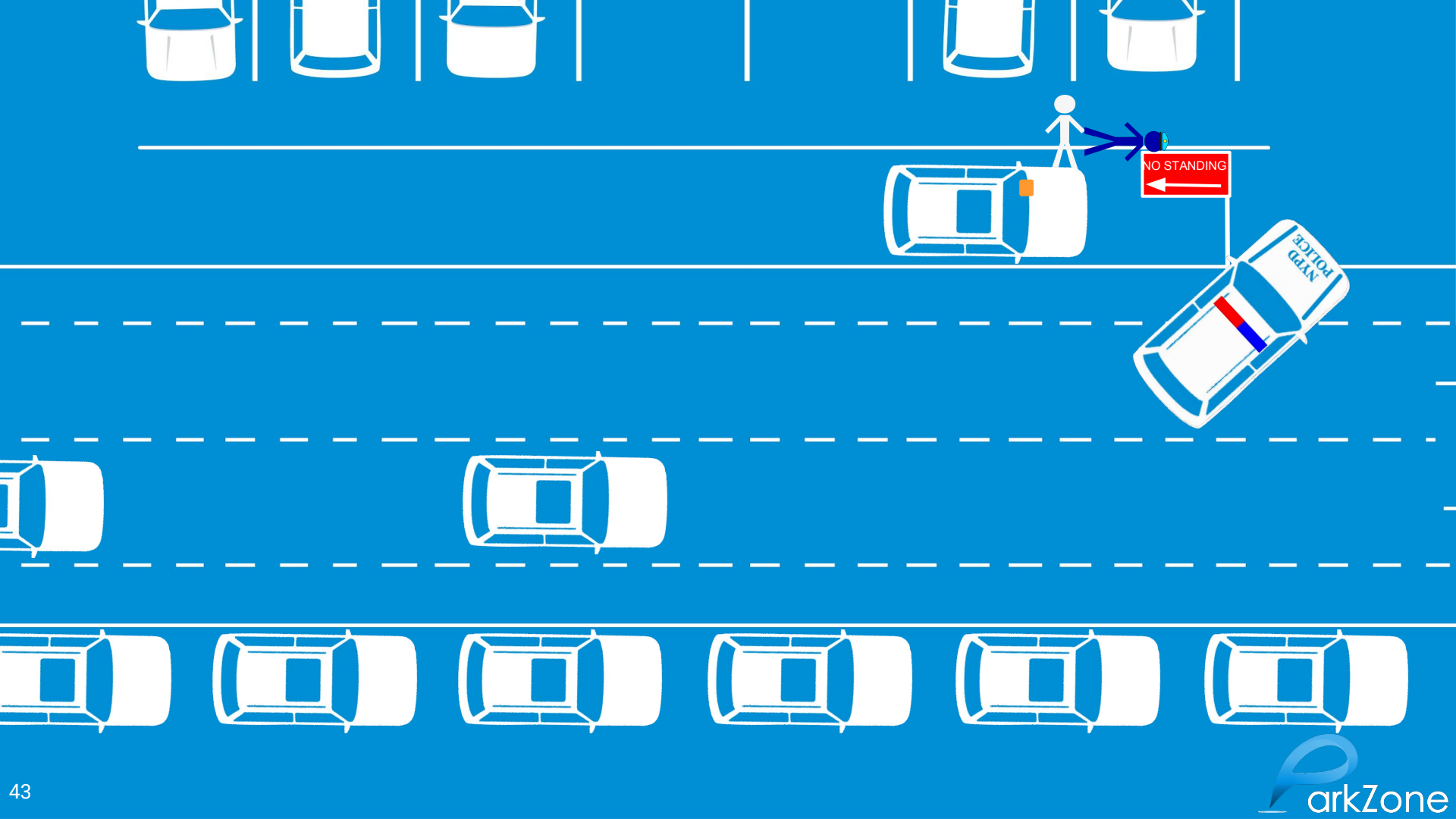

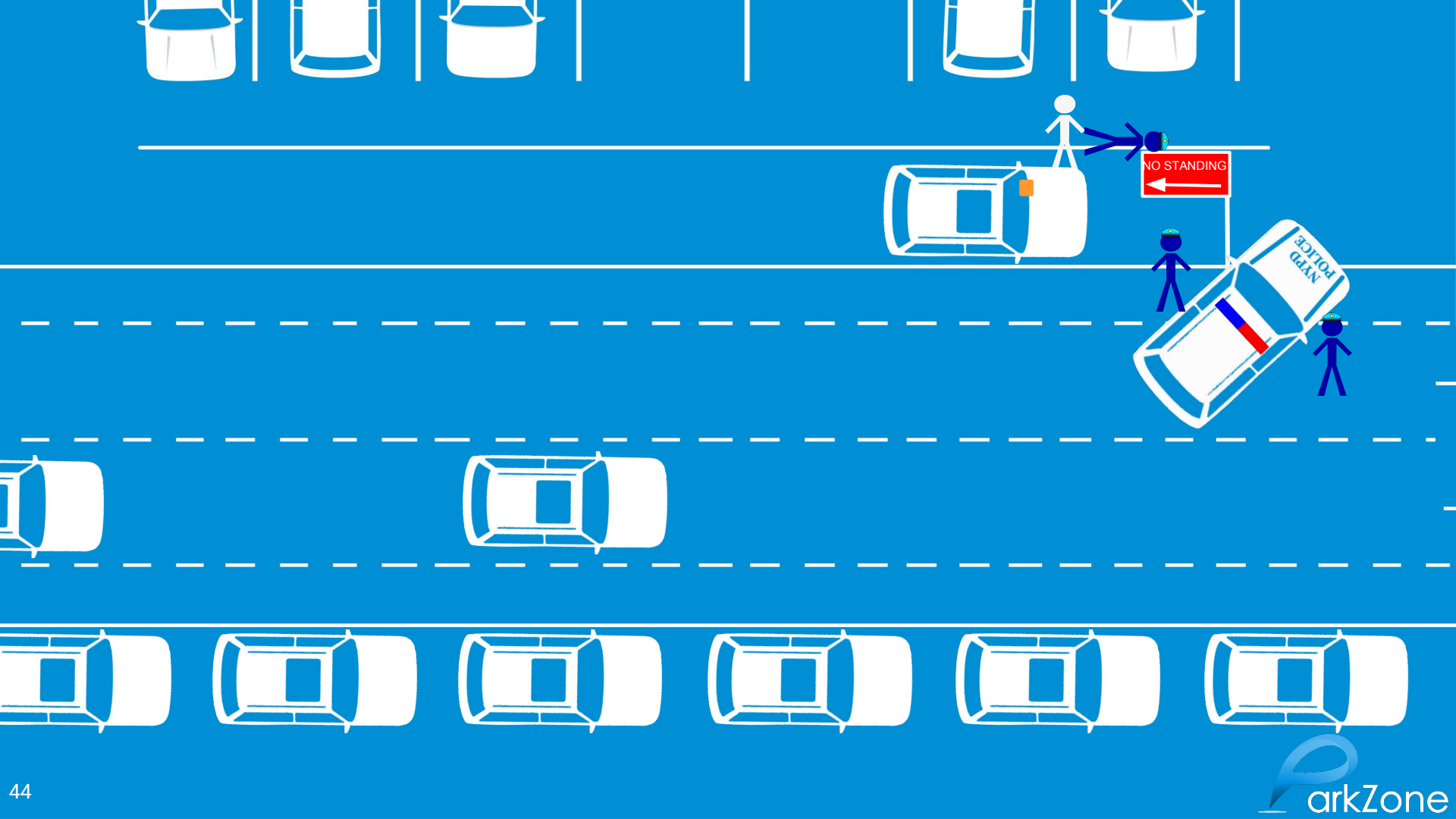

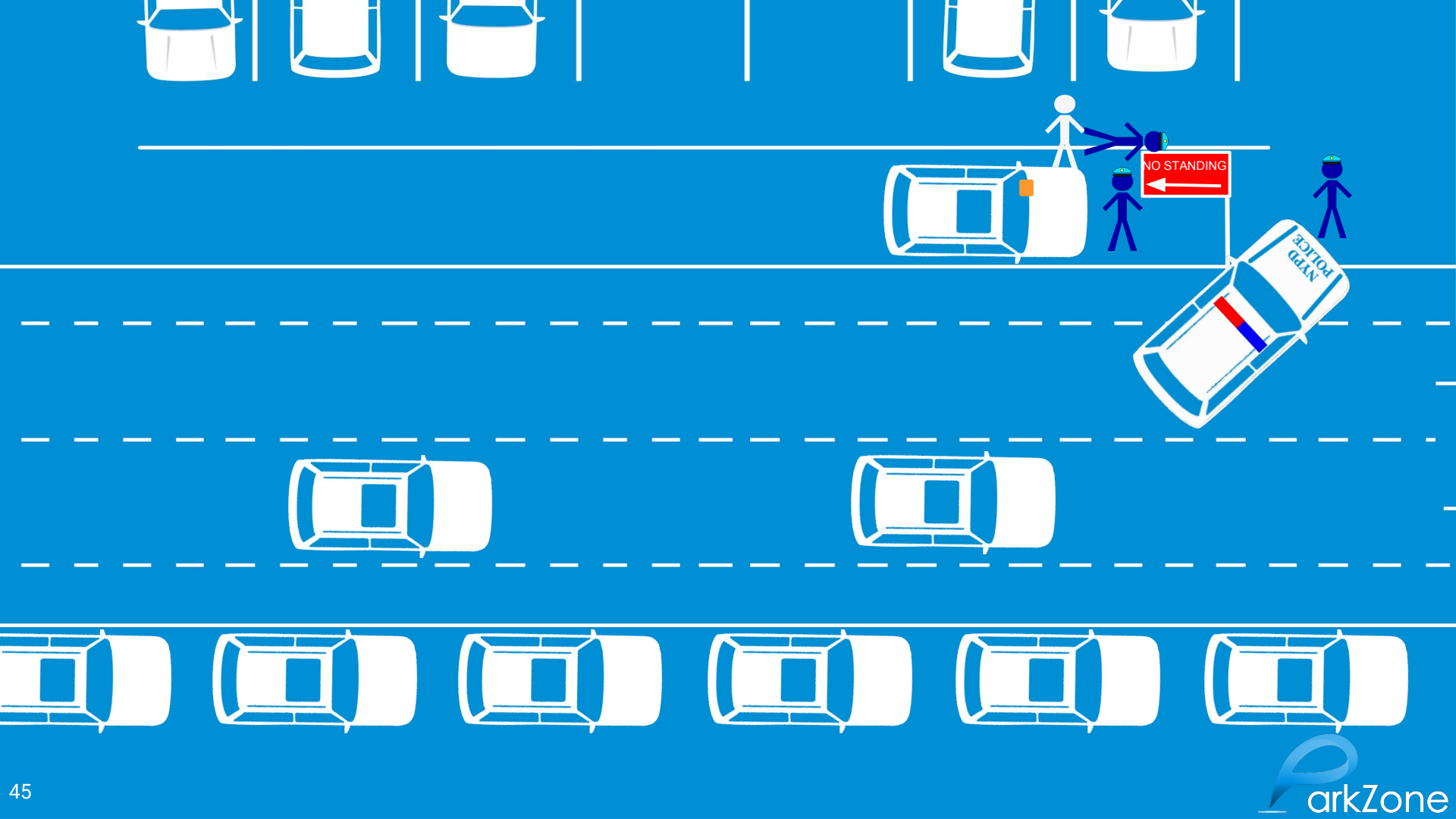

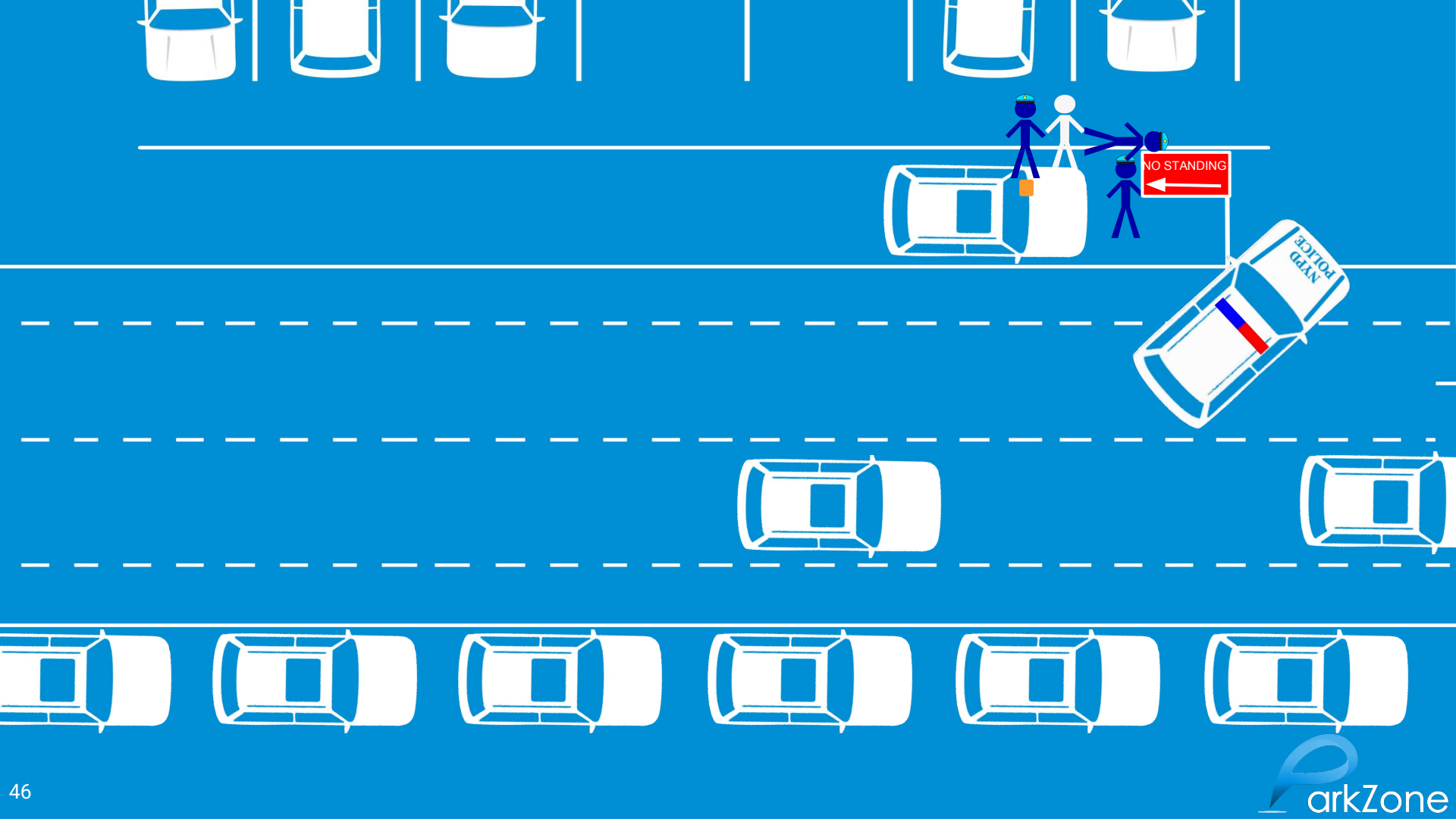

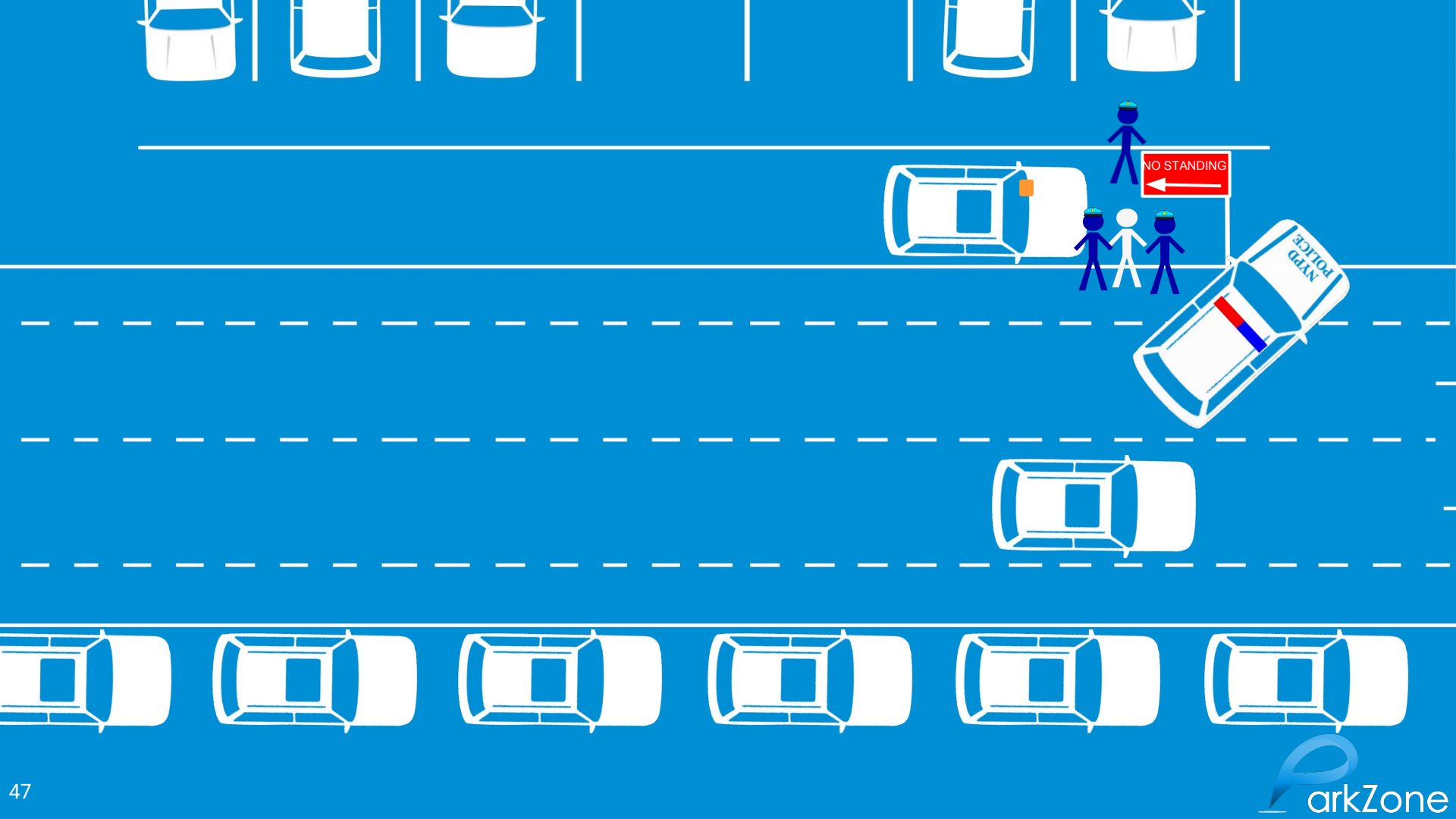

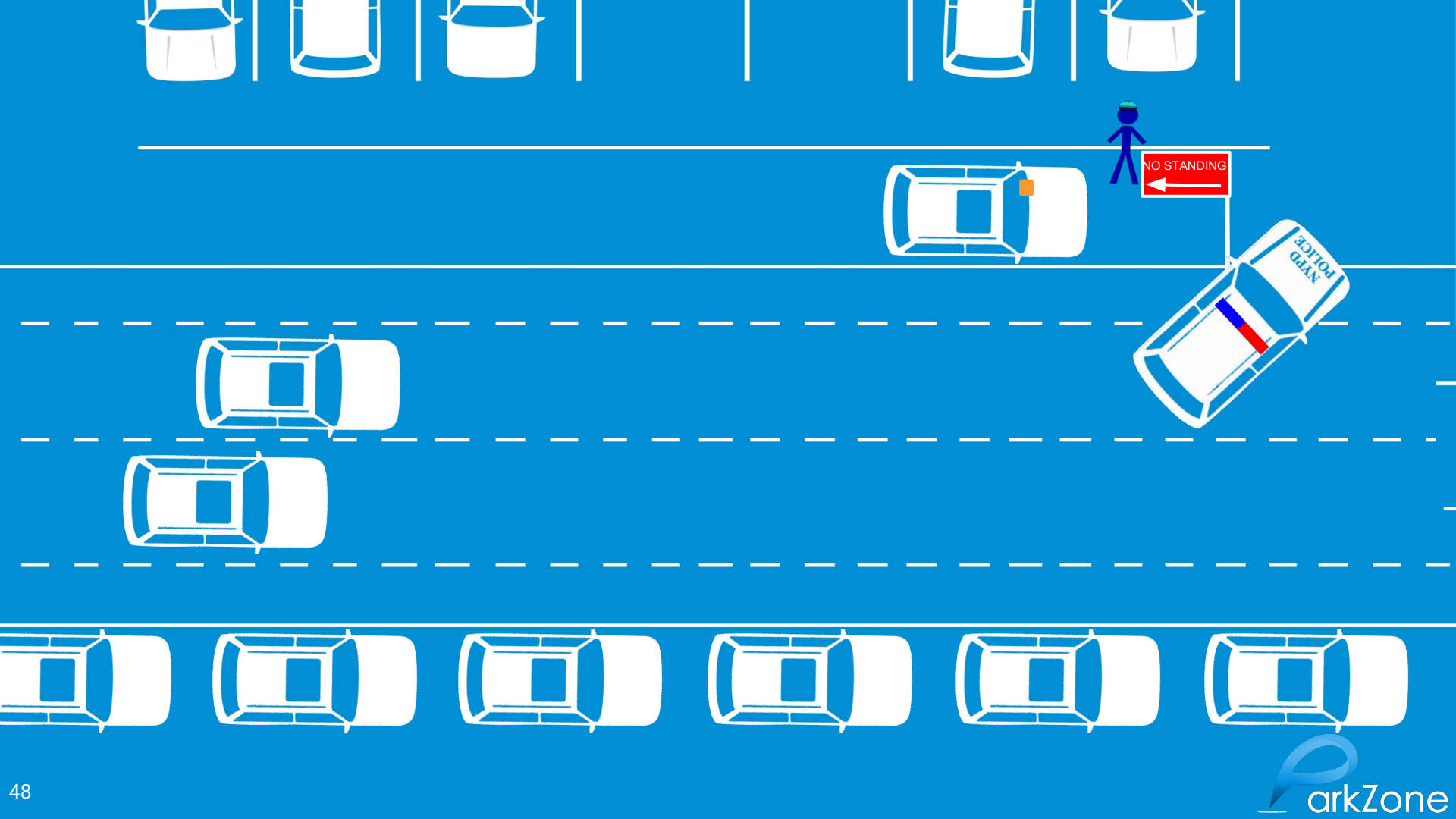

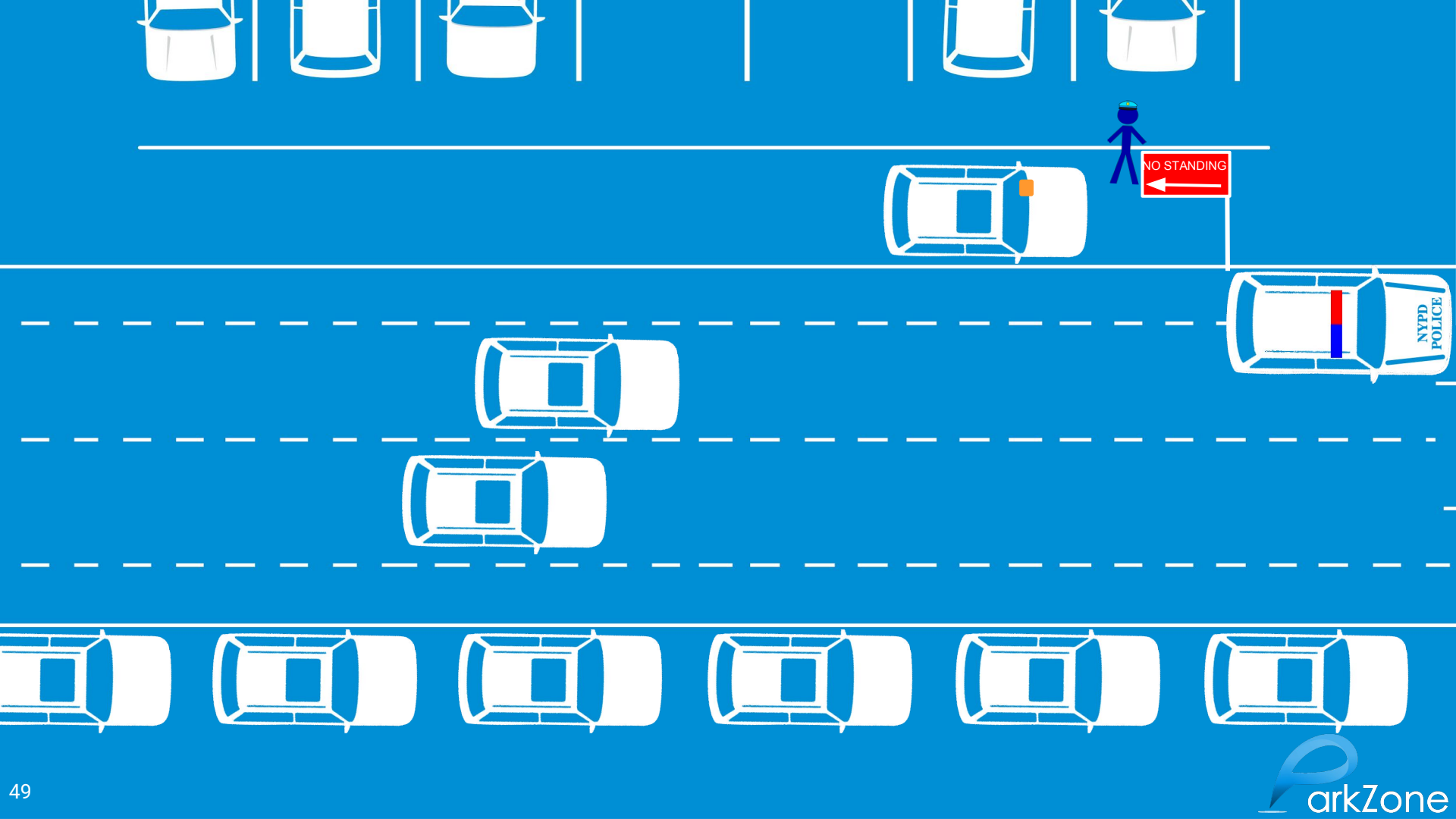

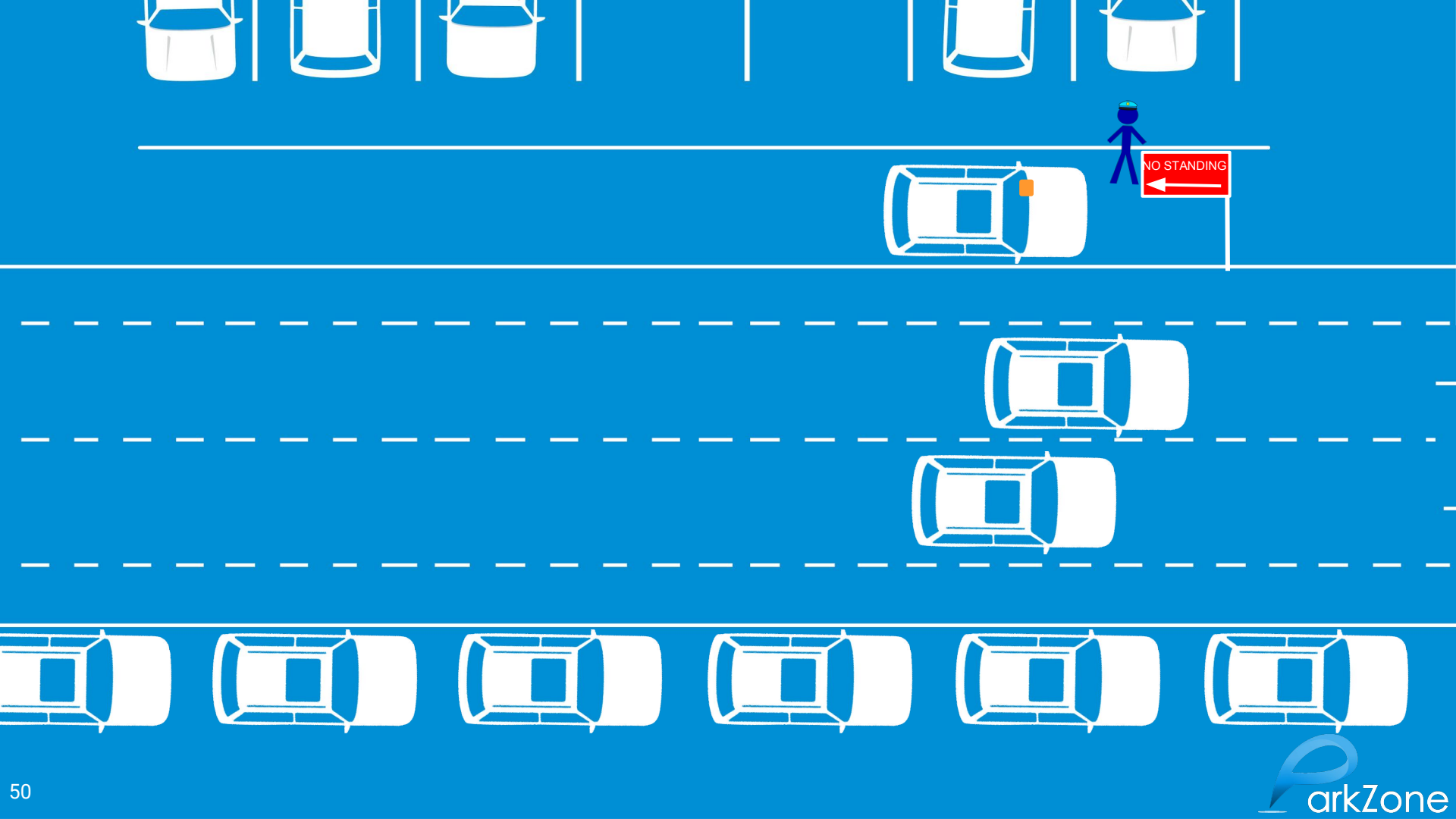
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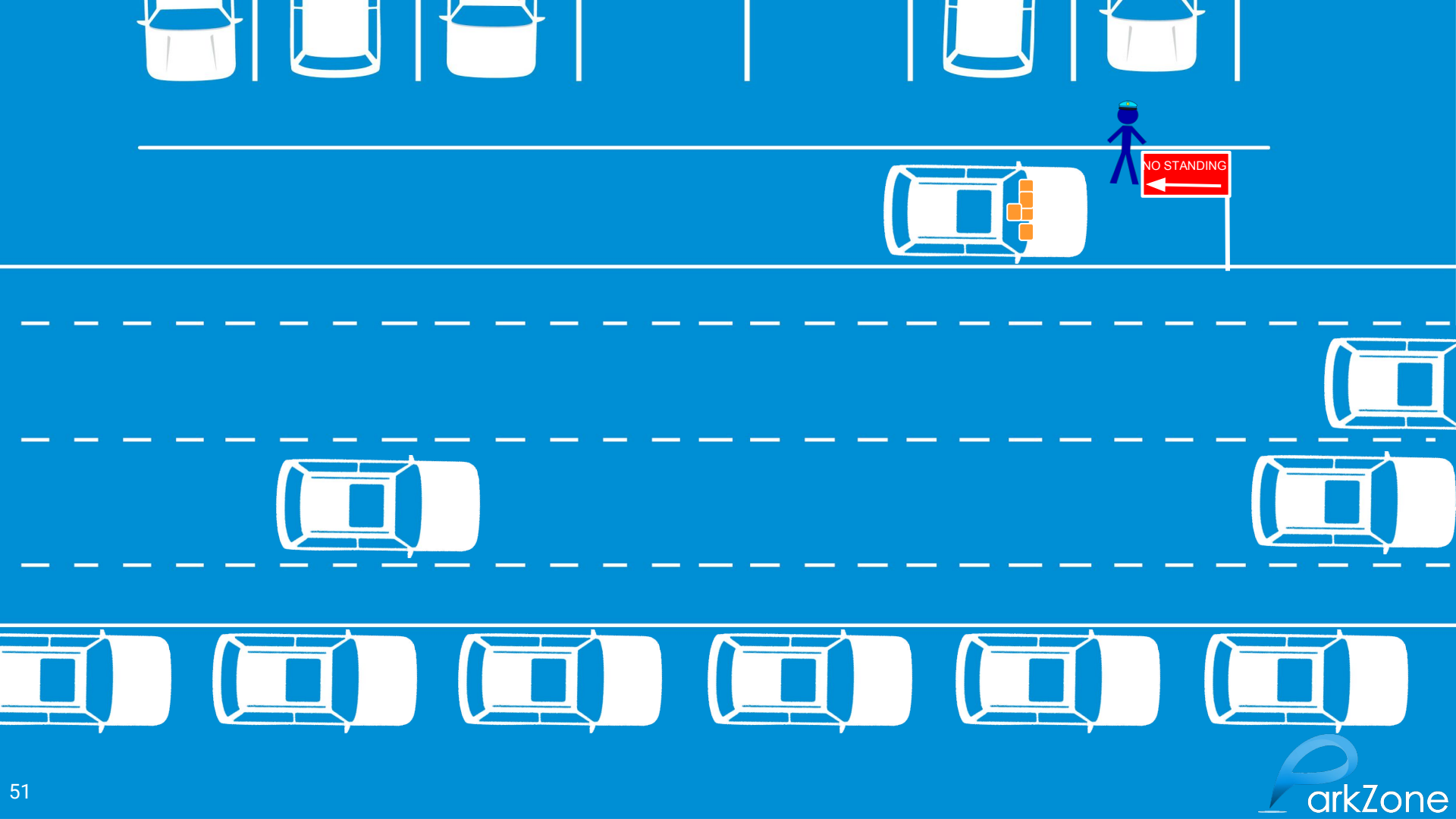
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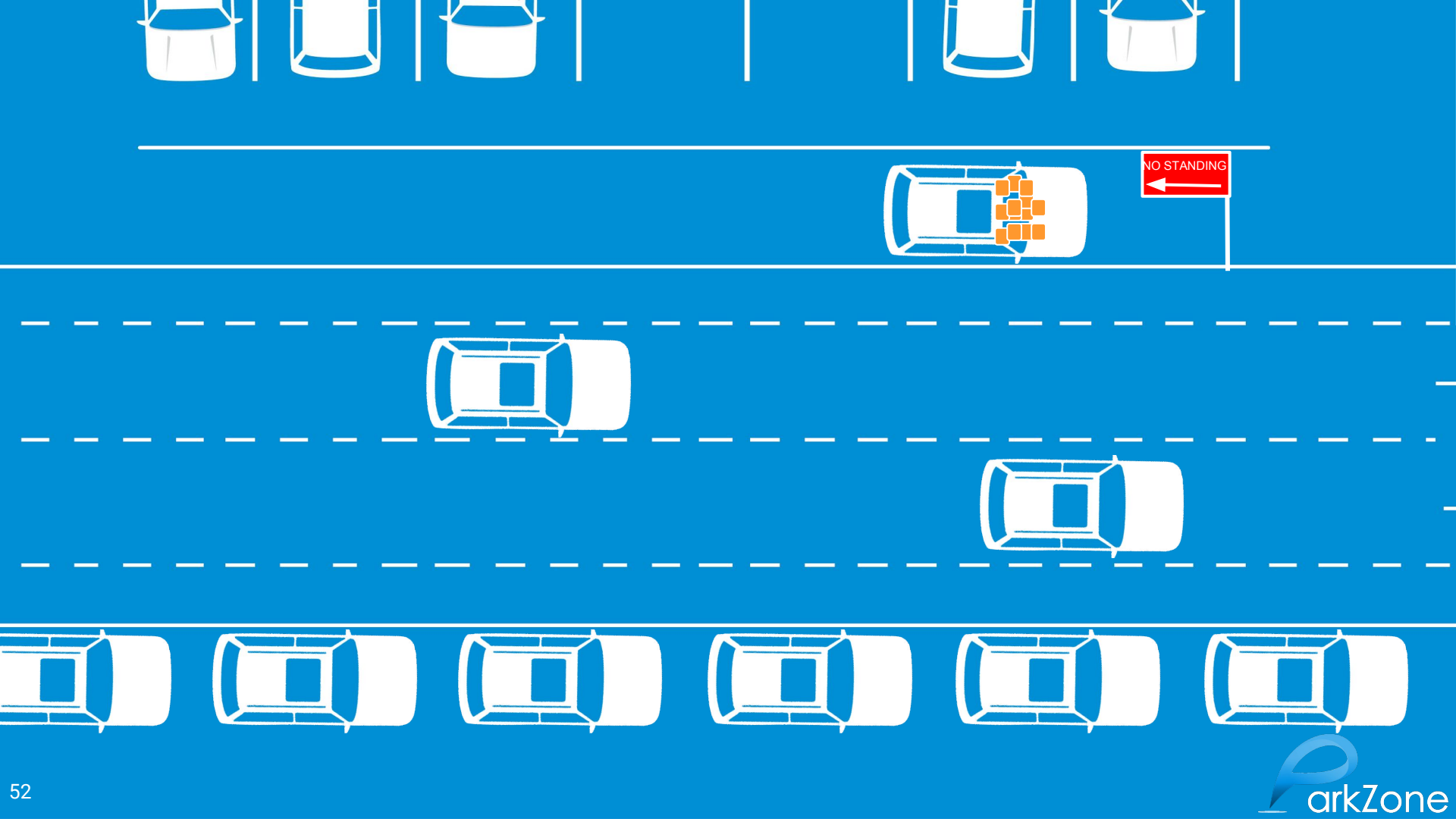
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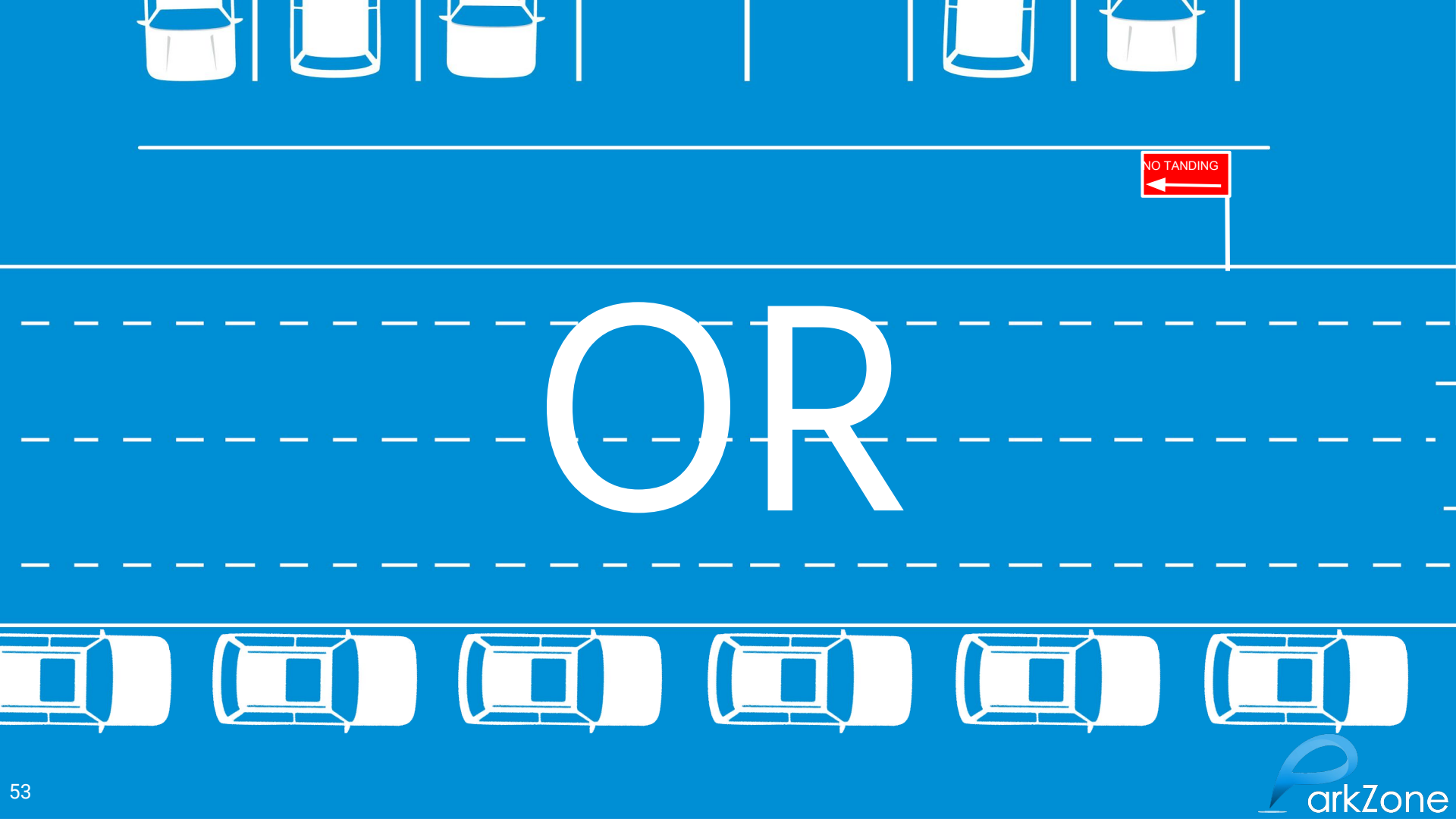
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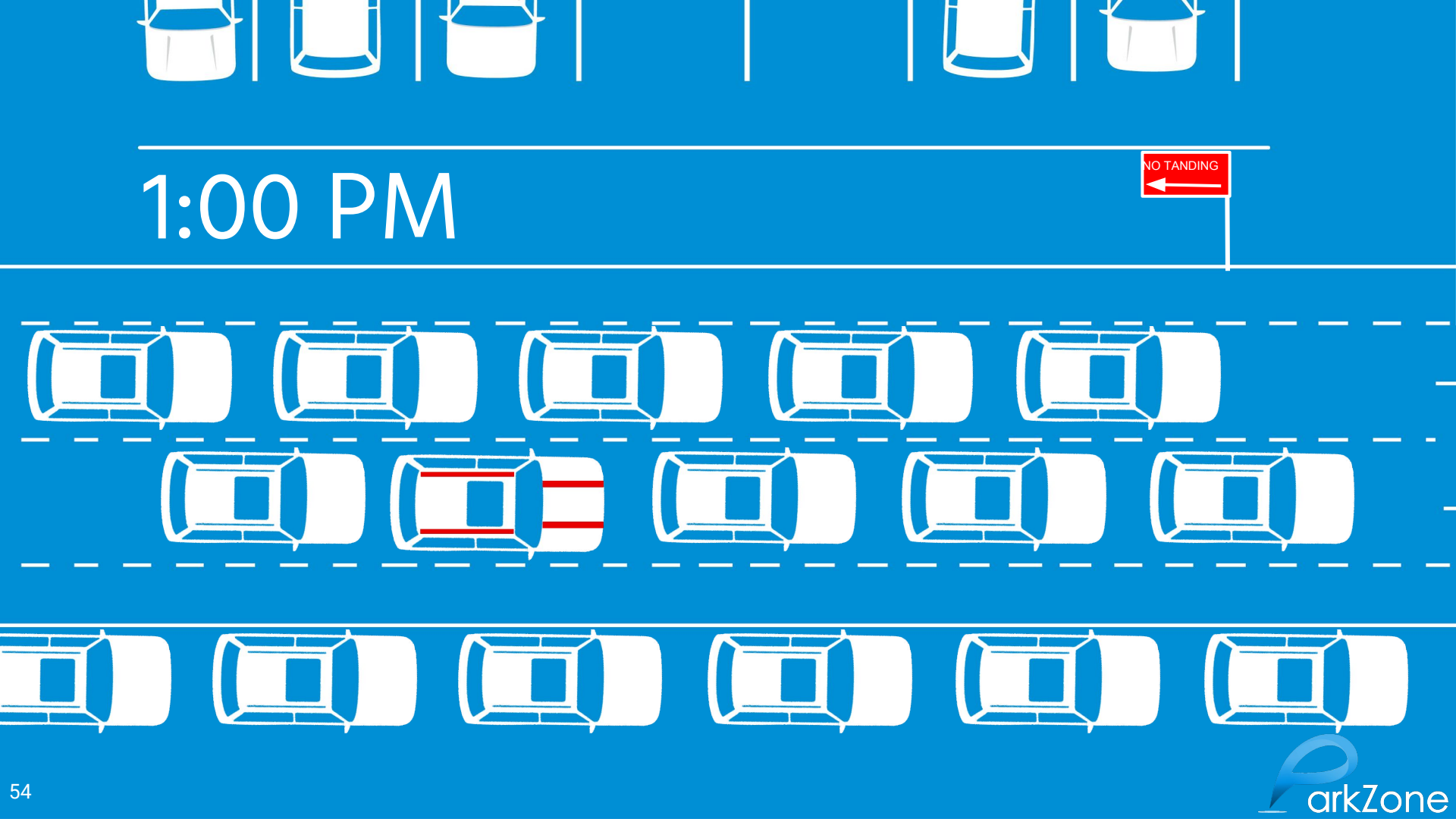
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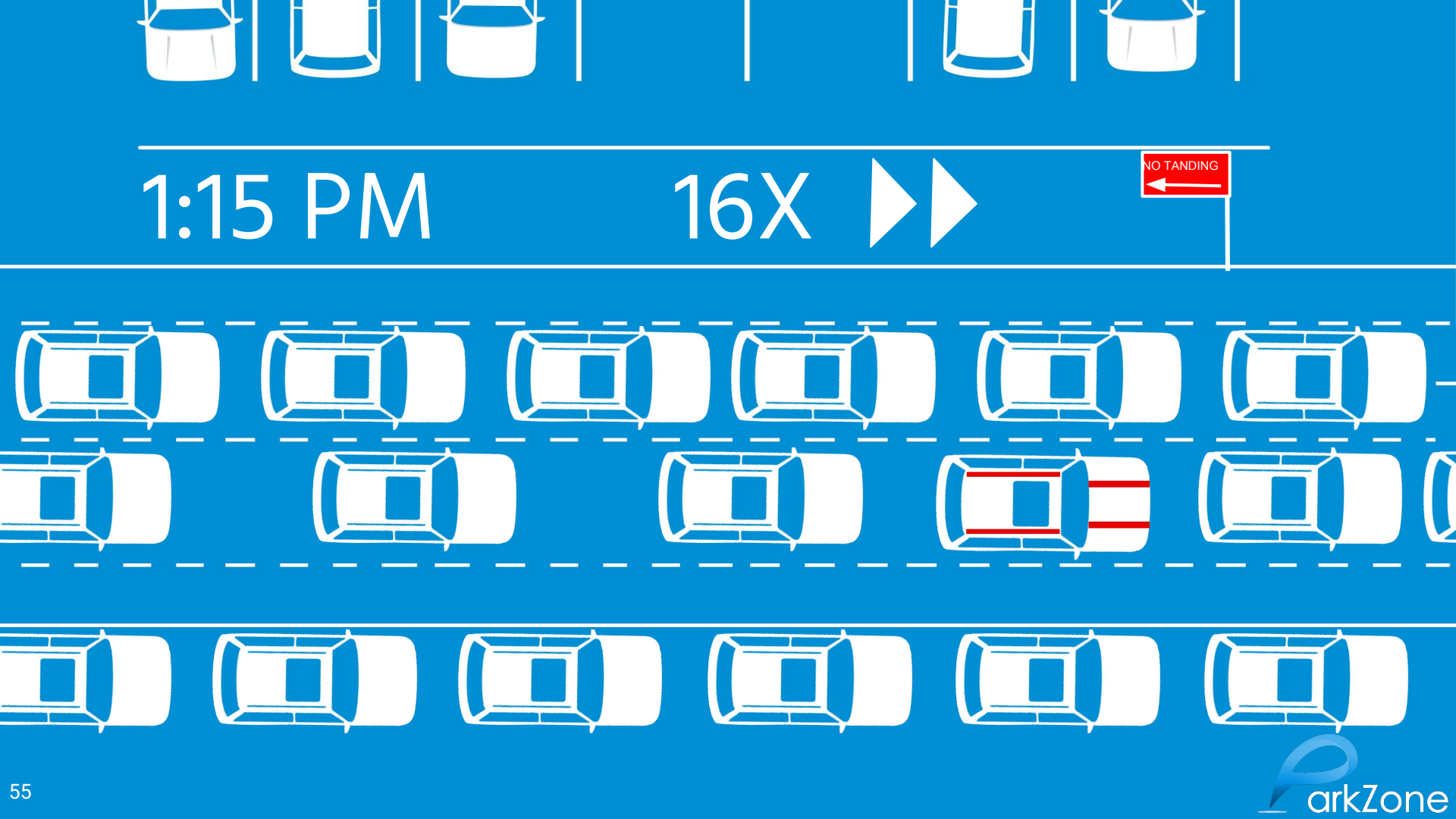
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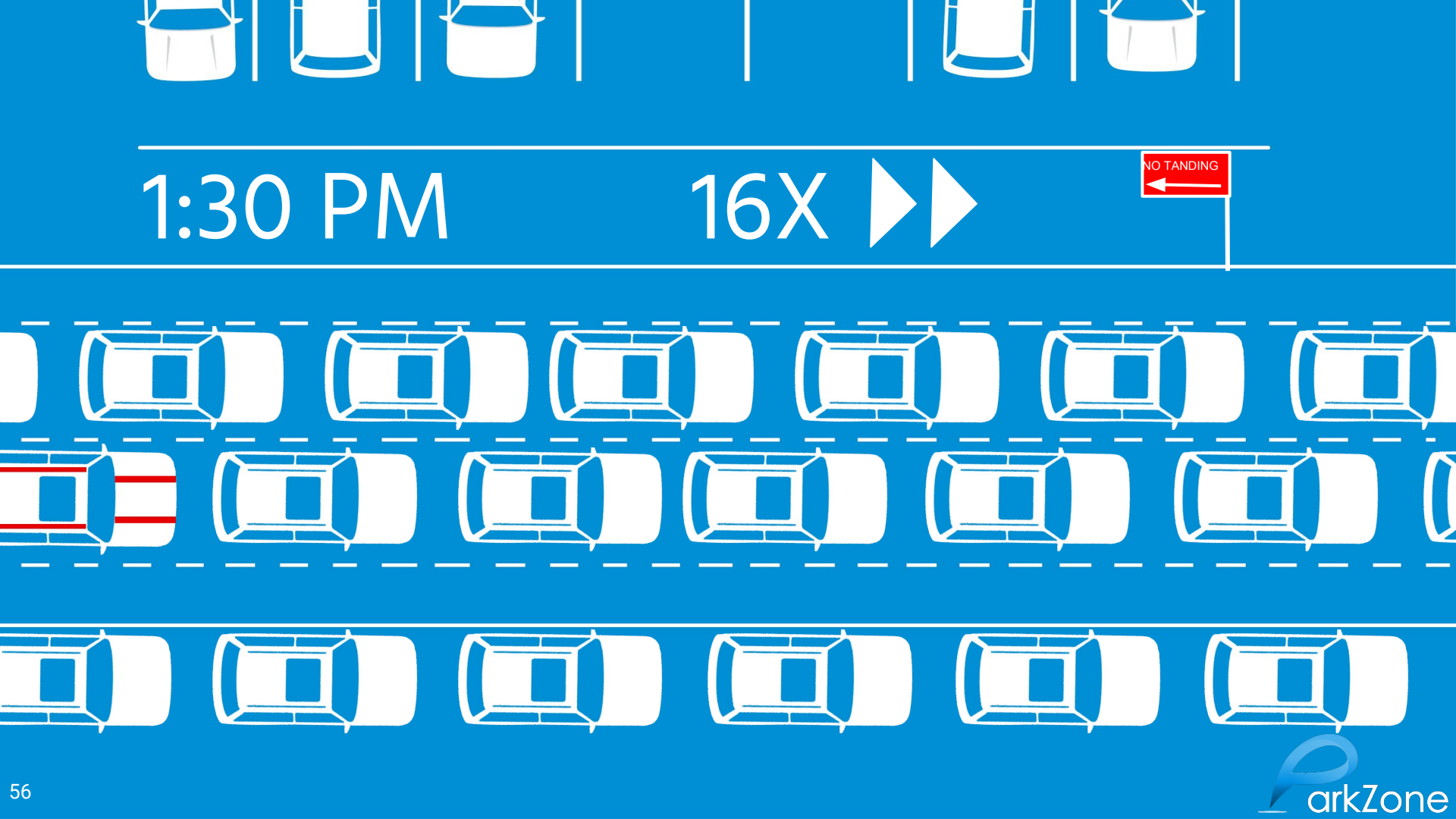
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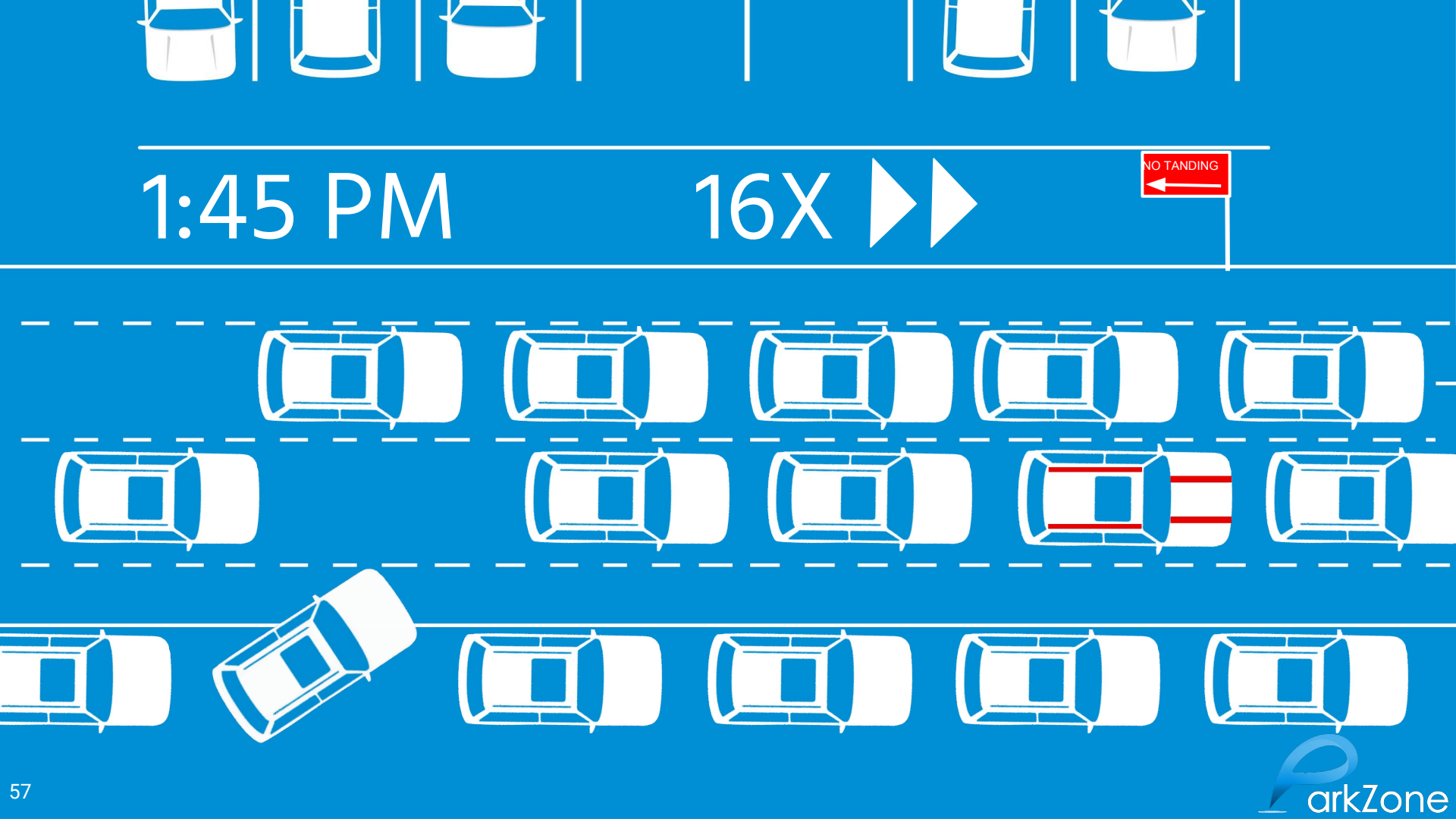
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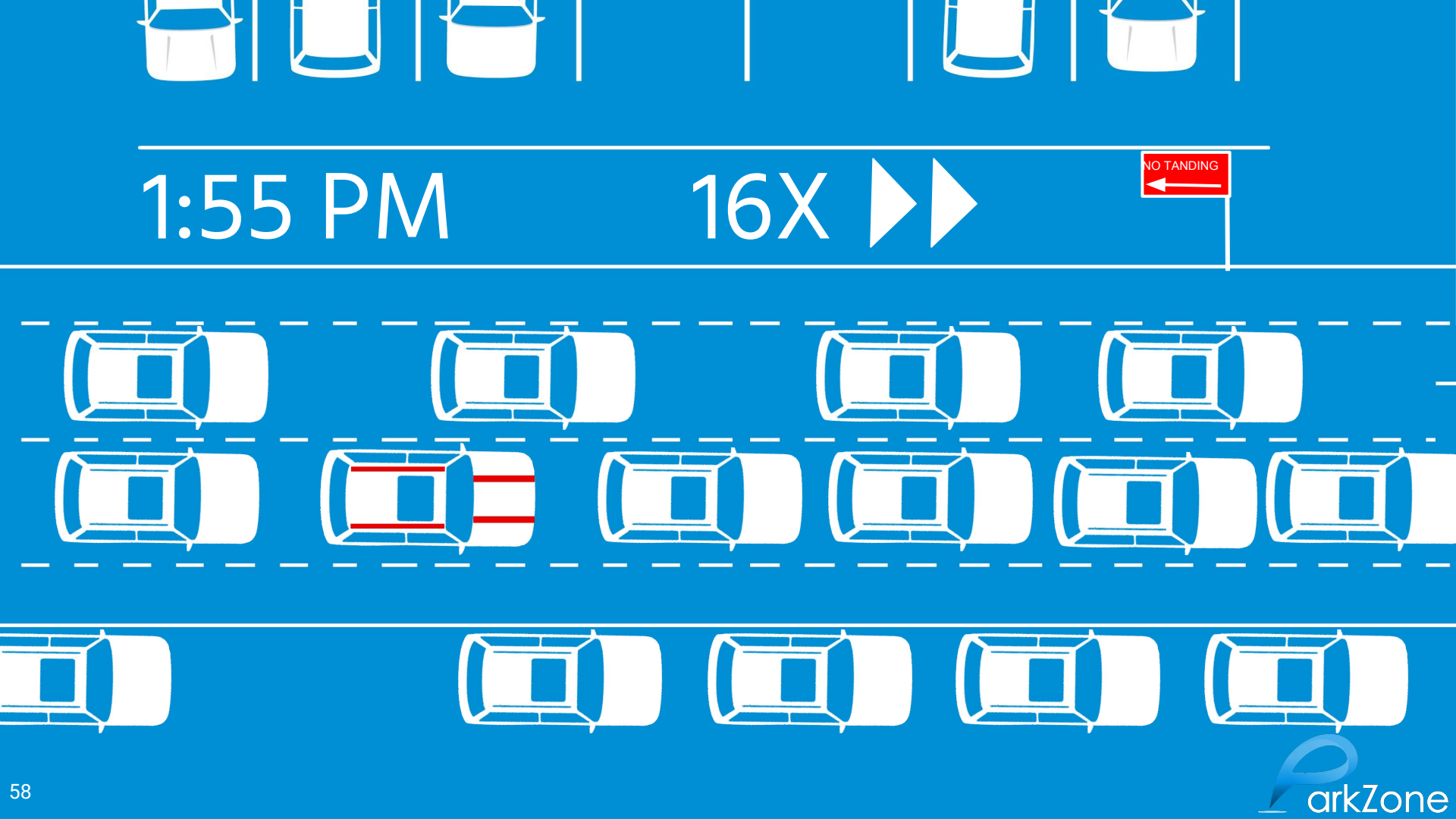
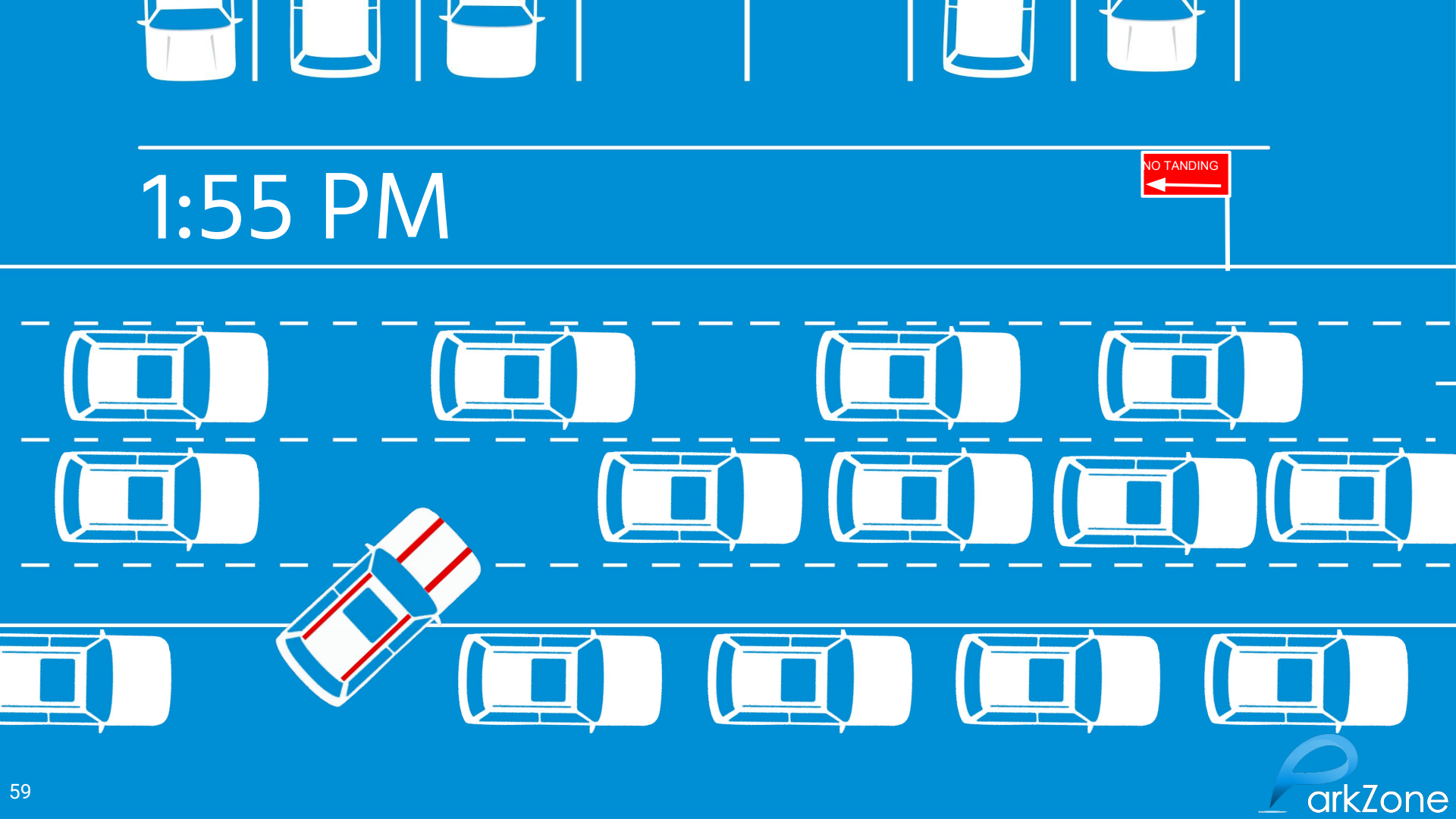
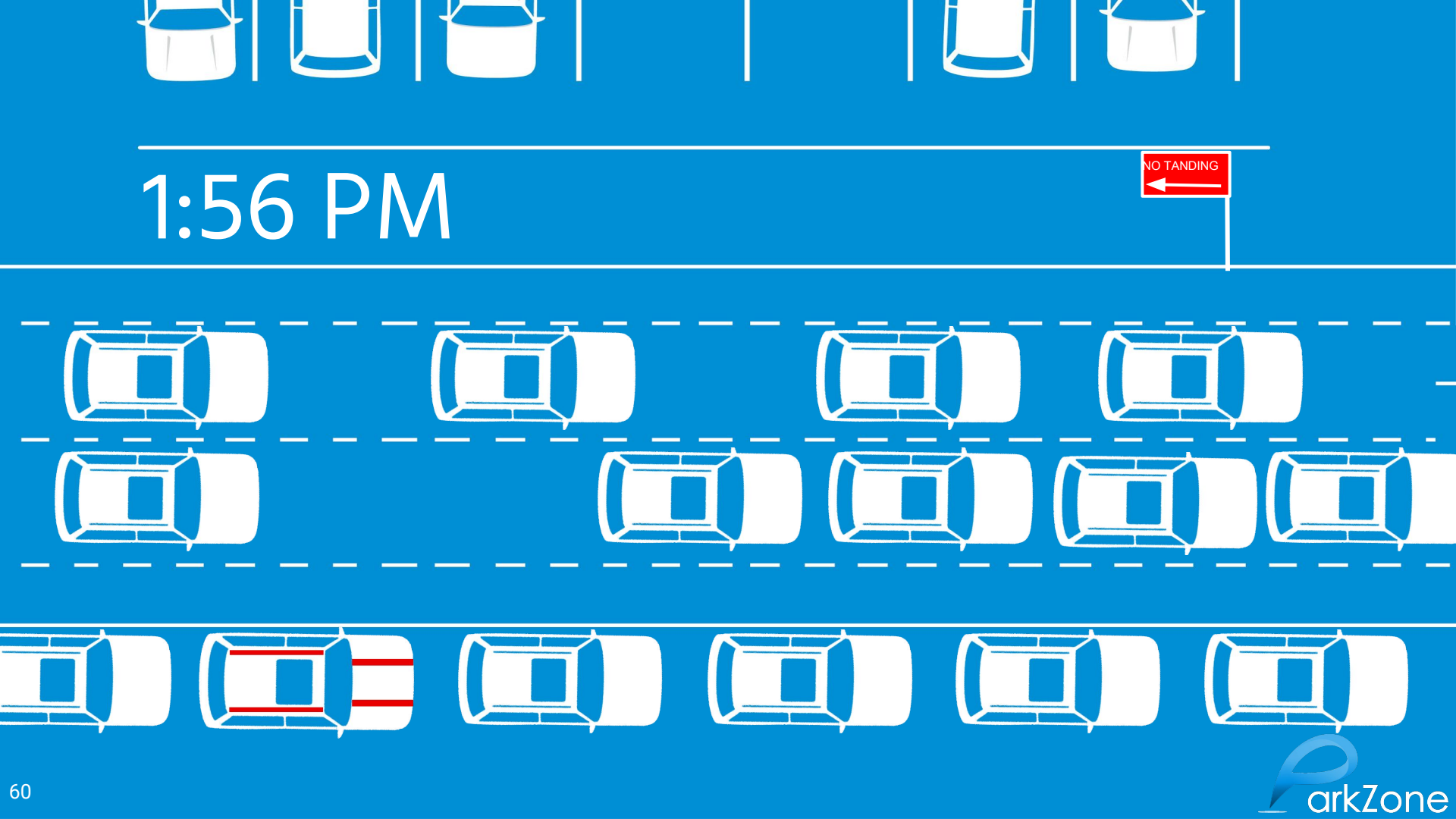
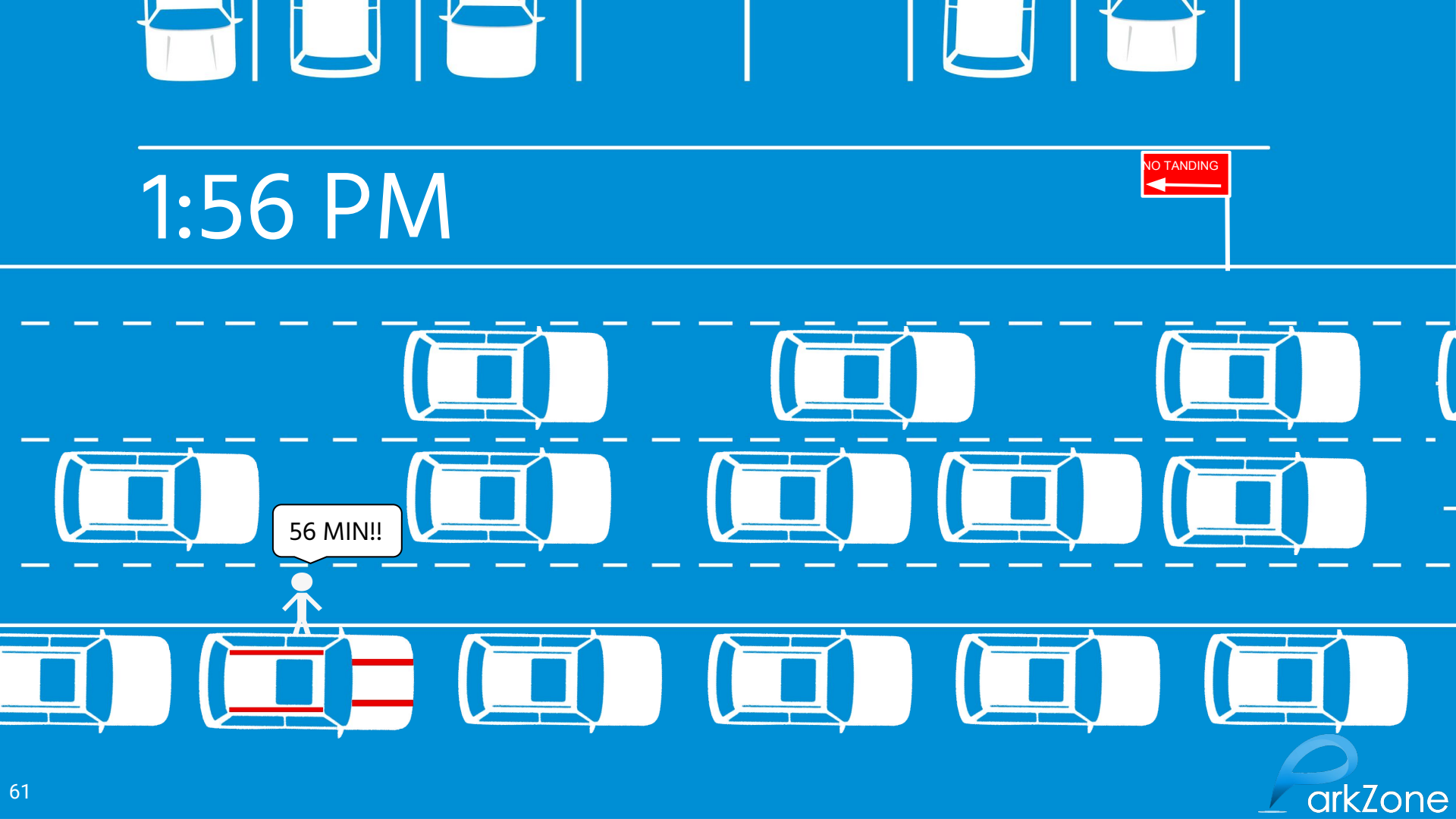
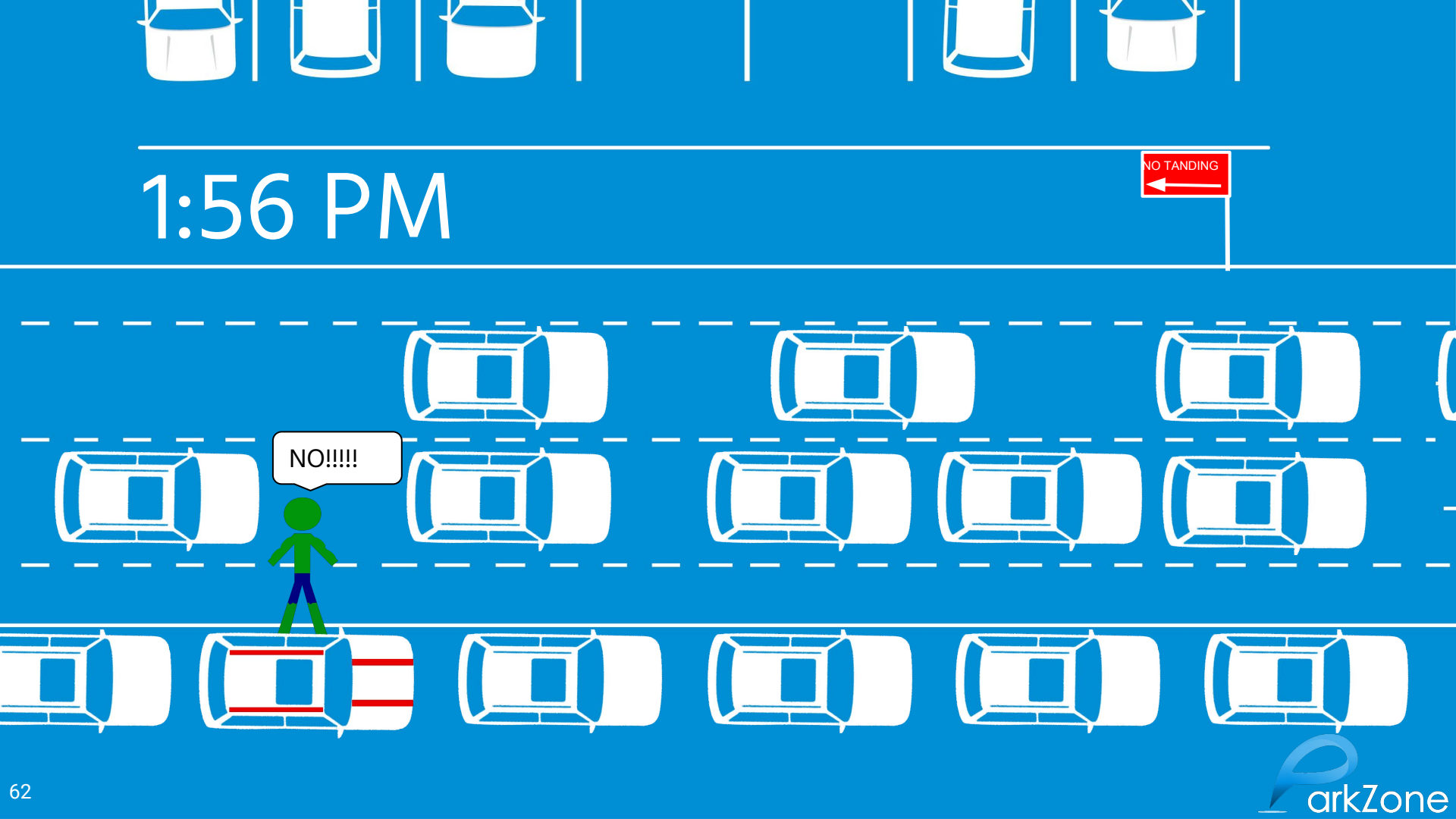





1:56 PM
NO TANDING




1:56 PM
NO TANDING
NO!!!!!

Our Goal

Our Goal

ParkZone

Our Goal

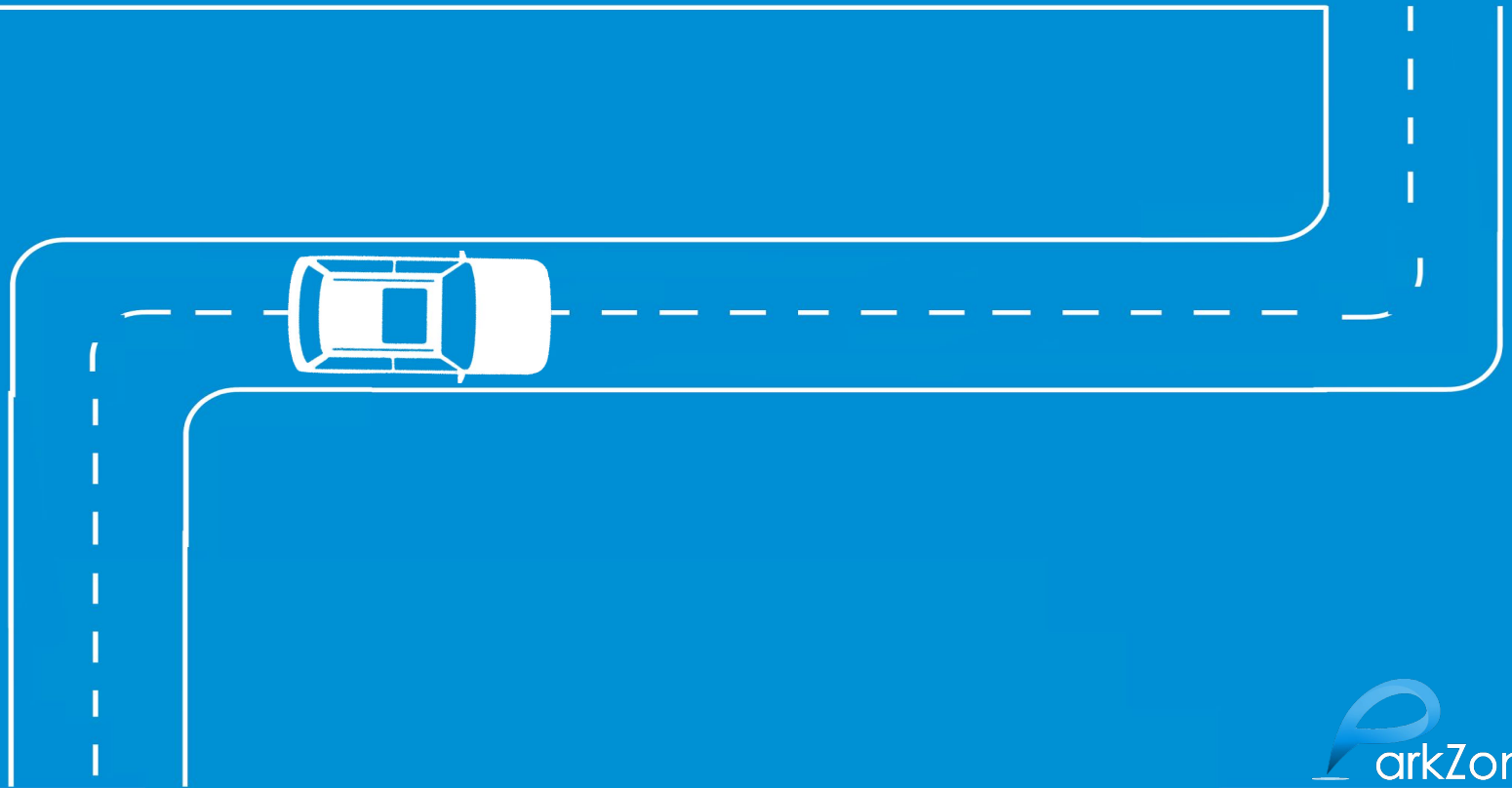
ParkZone

Our Goal

ParkZone

Our Goal

Our Goal



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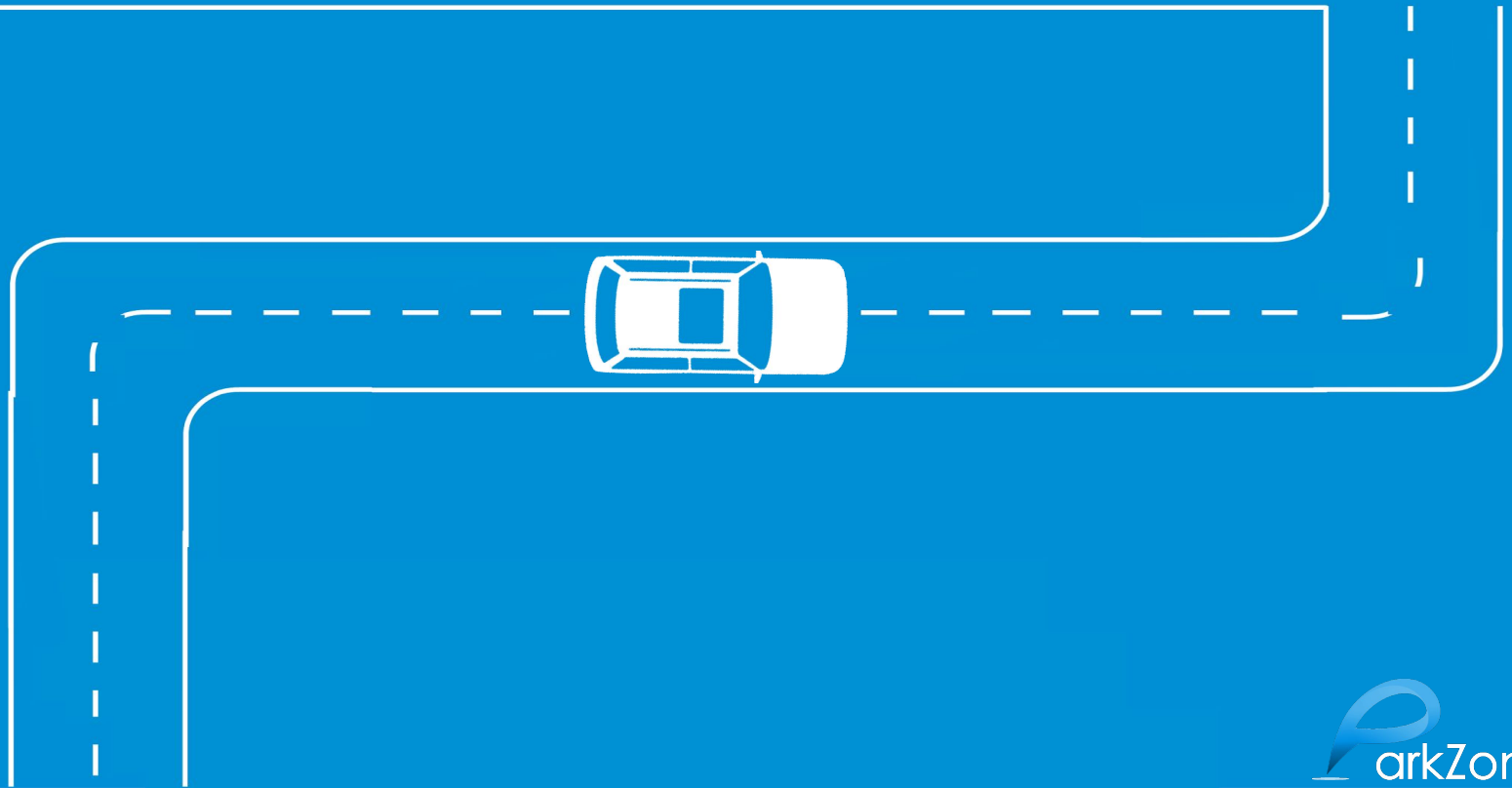
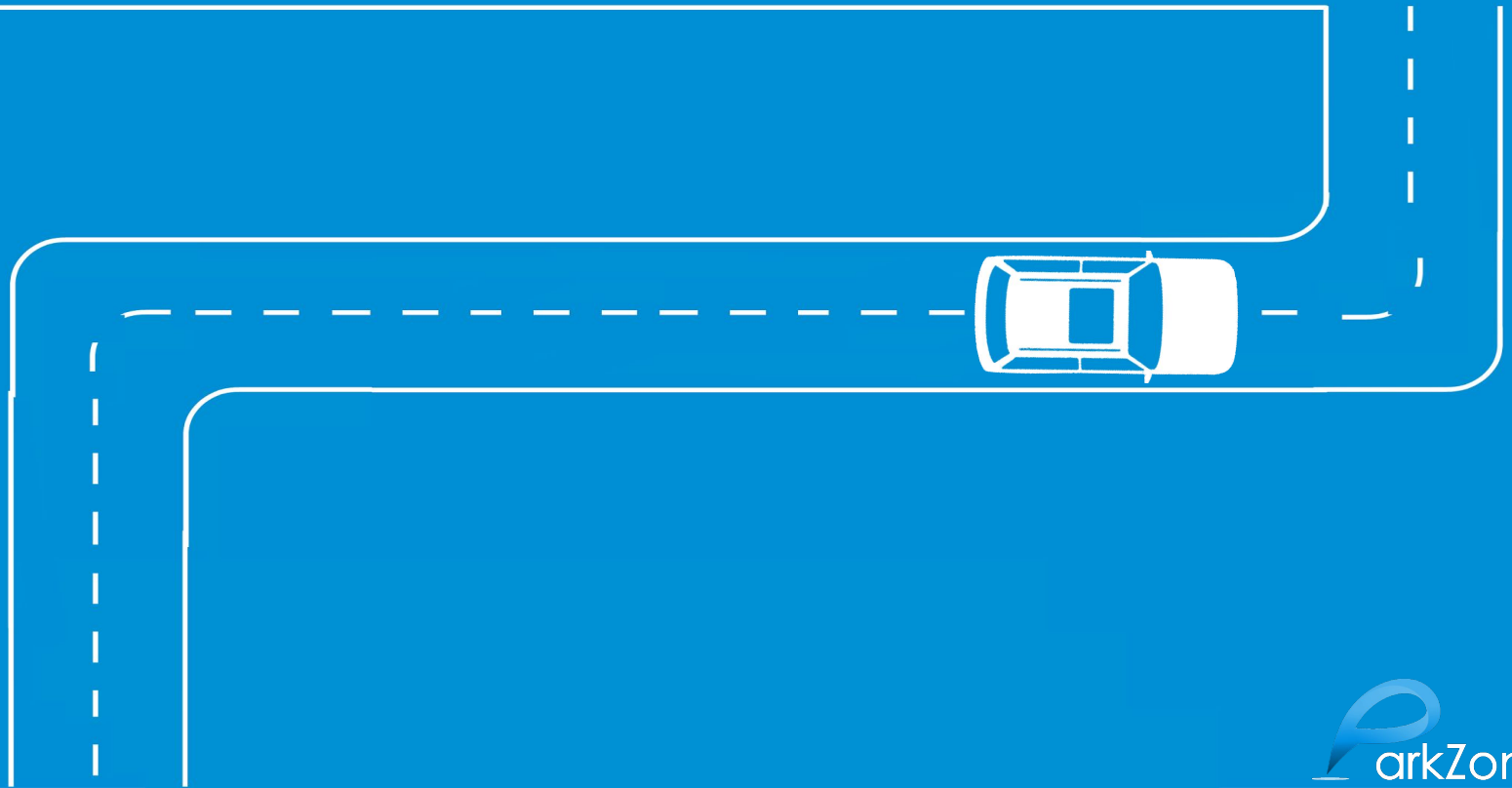
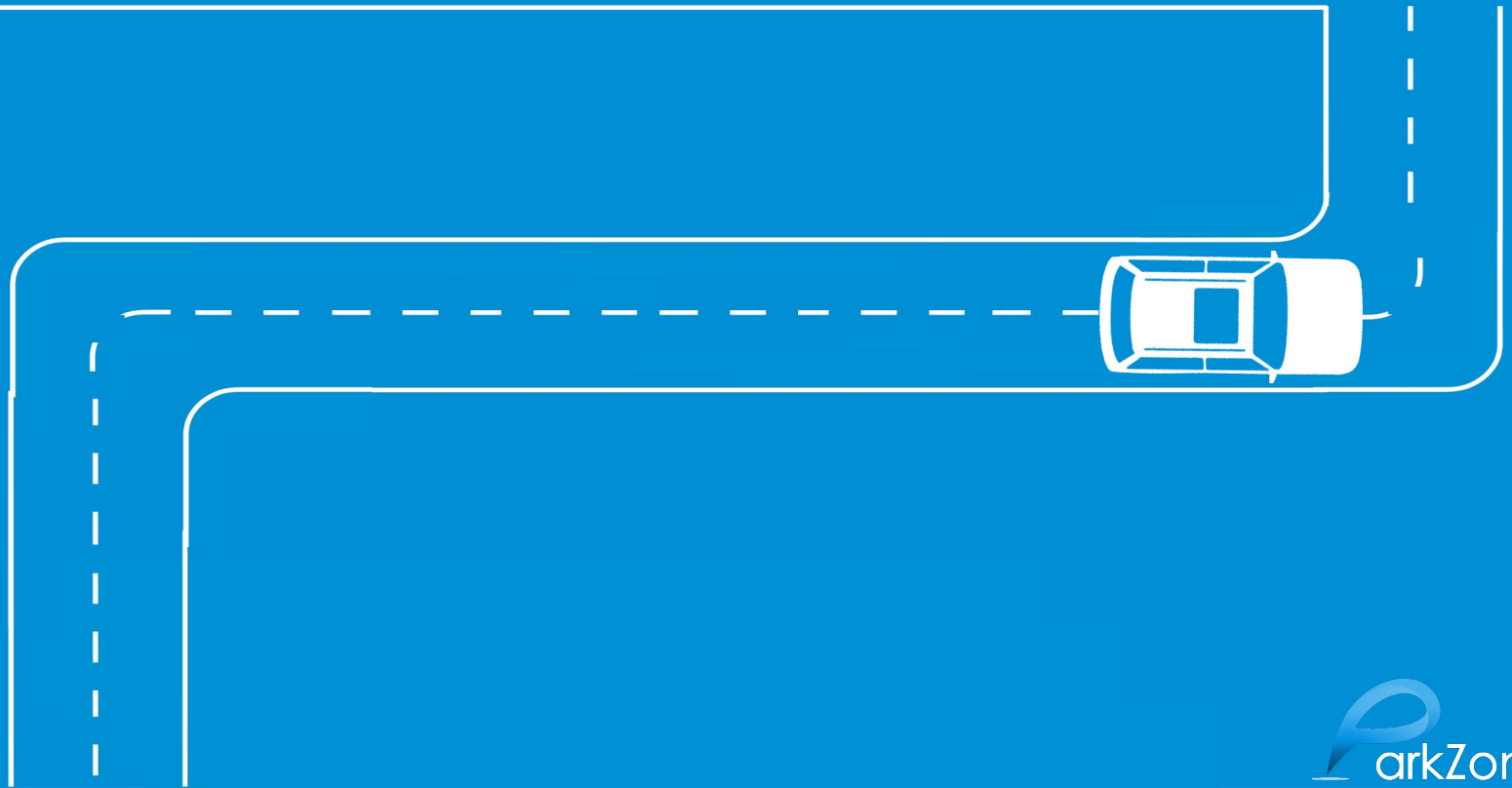


Our Goal



ParkZone

Our Goal

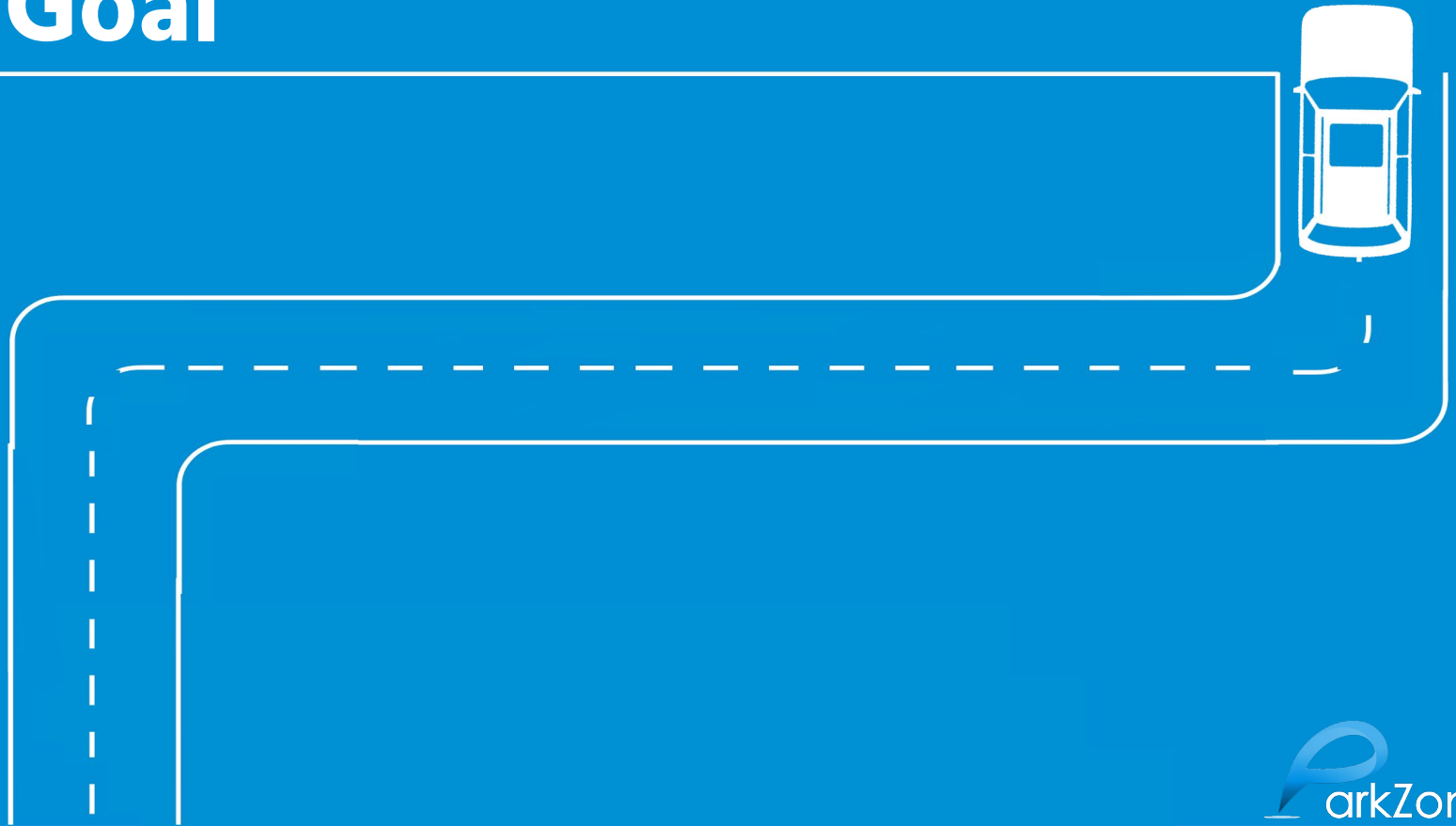


Our Goal

Our Goal

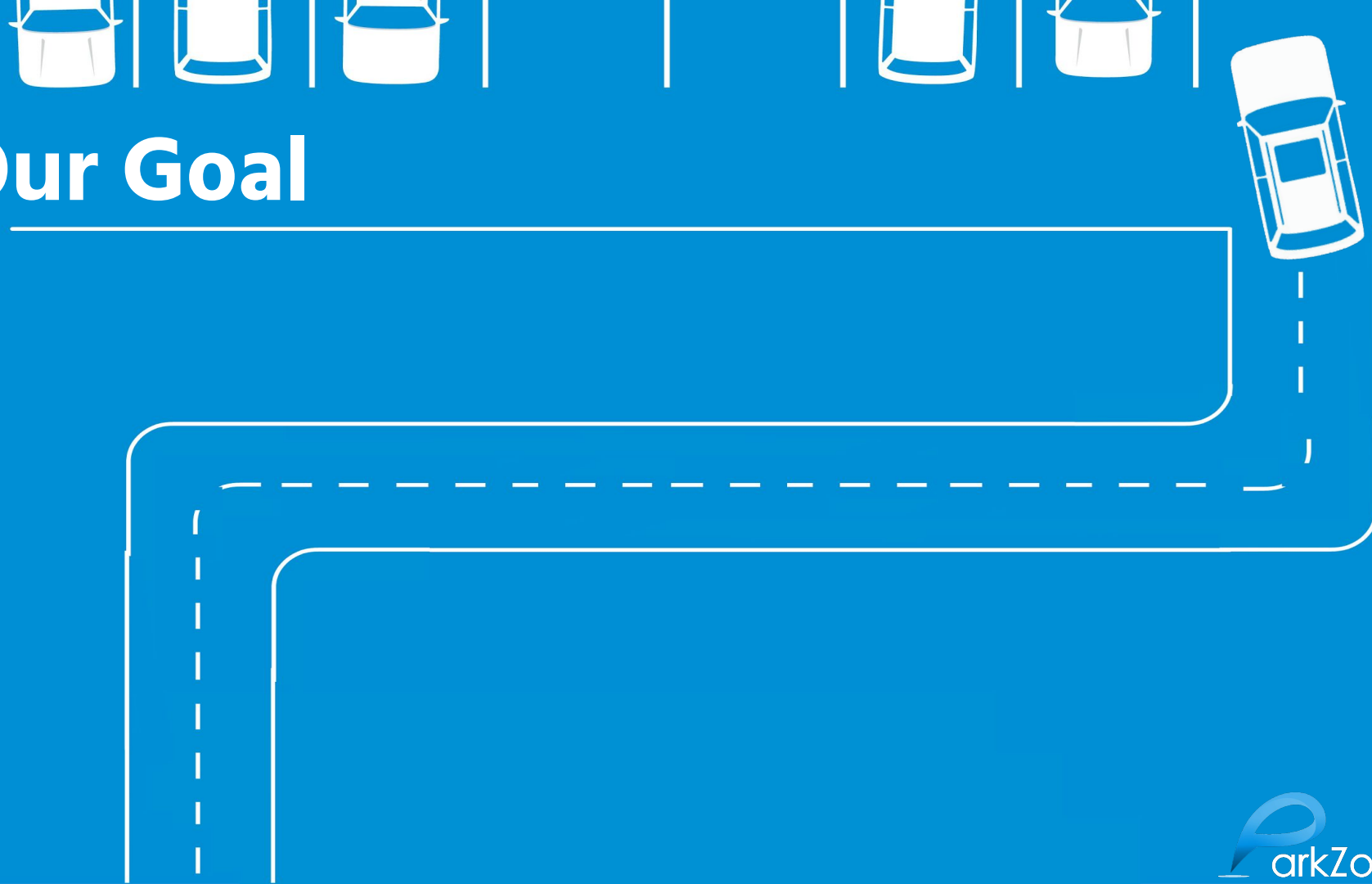
ParkZone

Our Goal



ParkZone

Our Goal



Our Goal

ParkZone

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ParkZone

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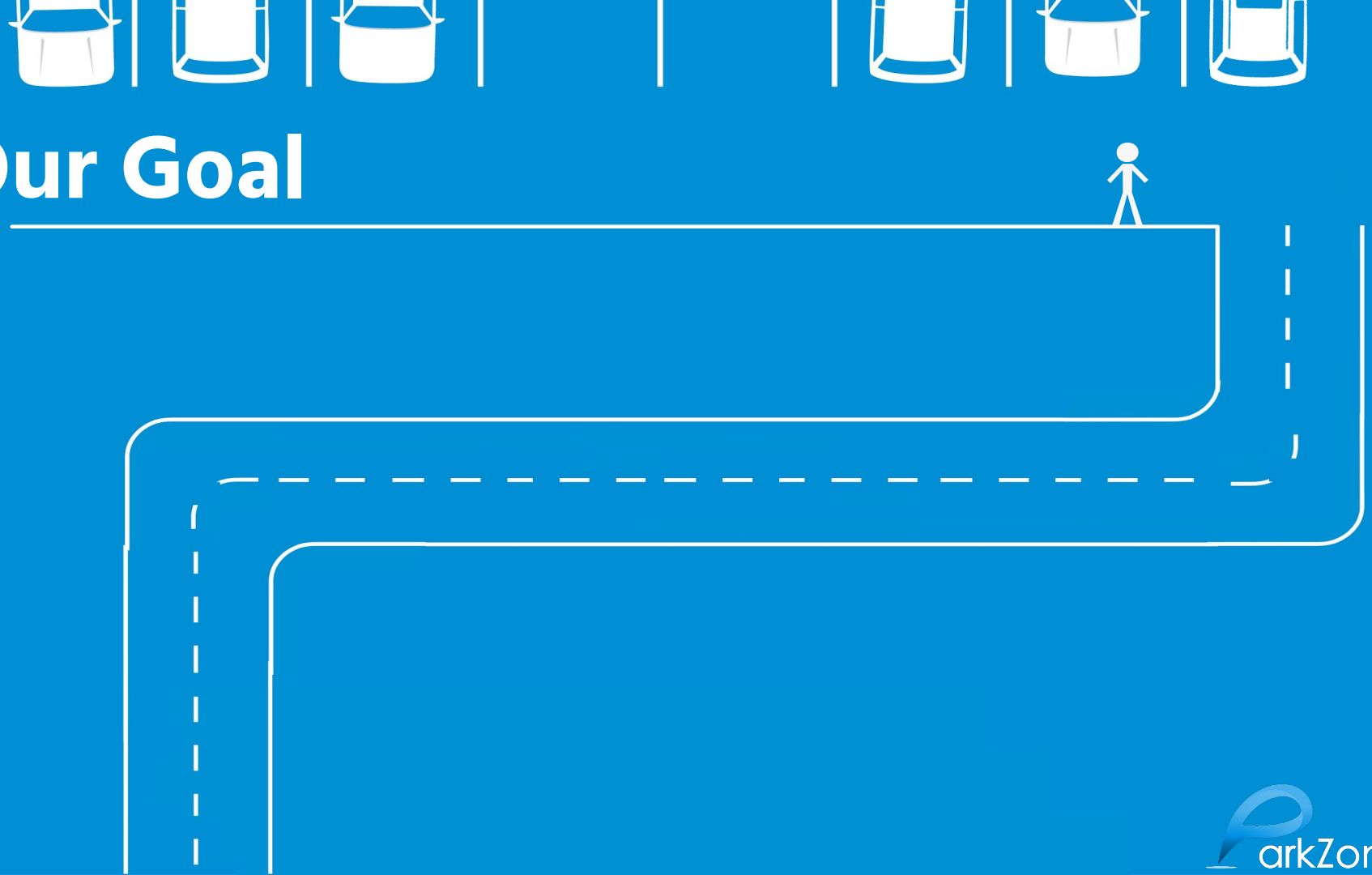

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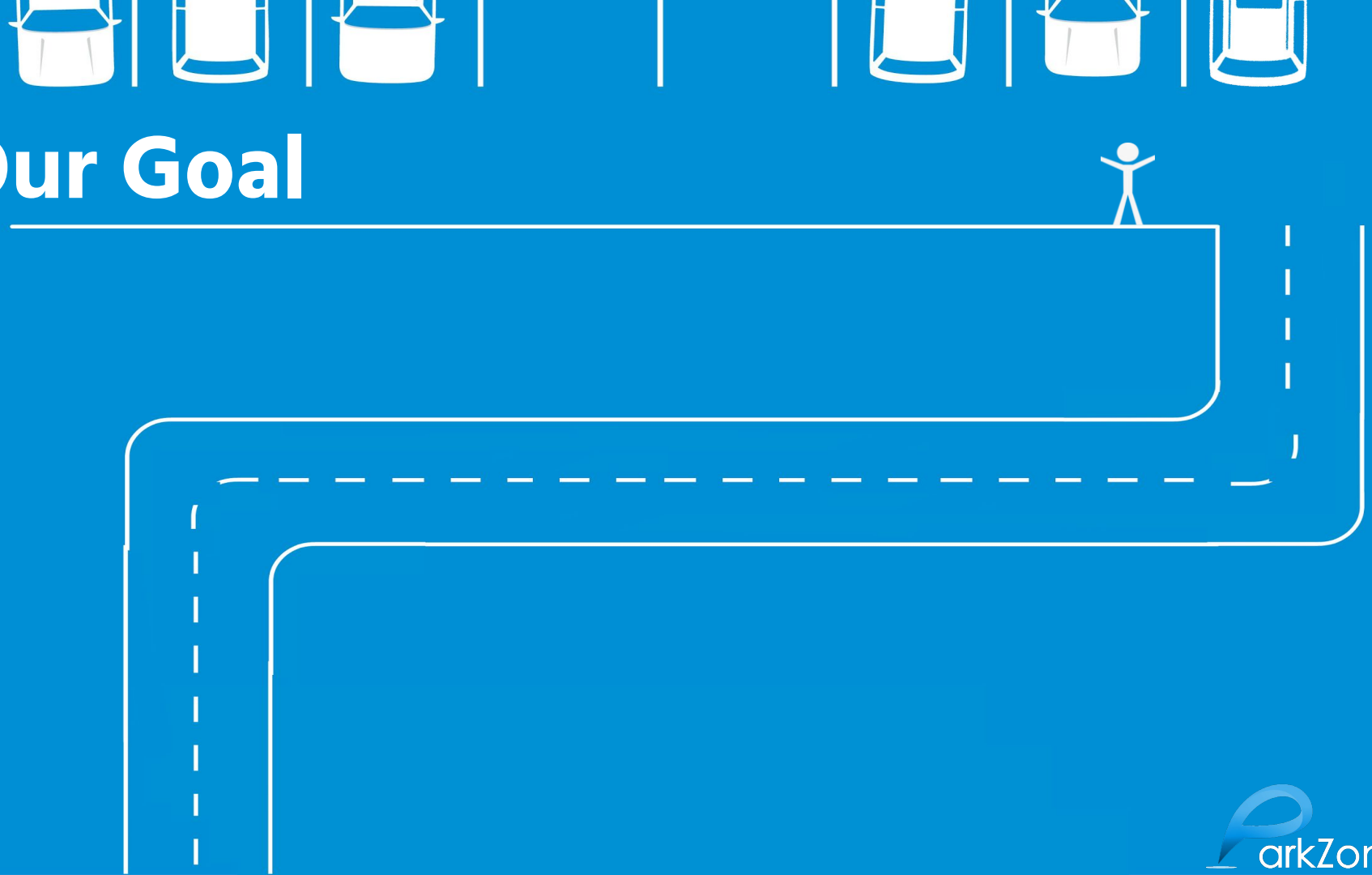

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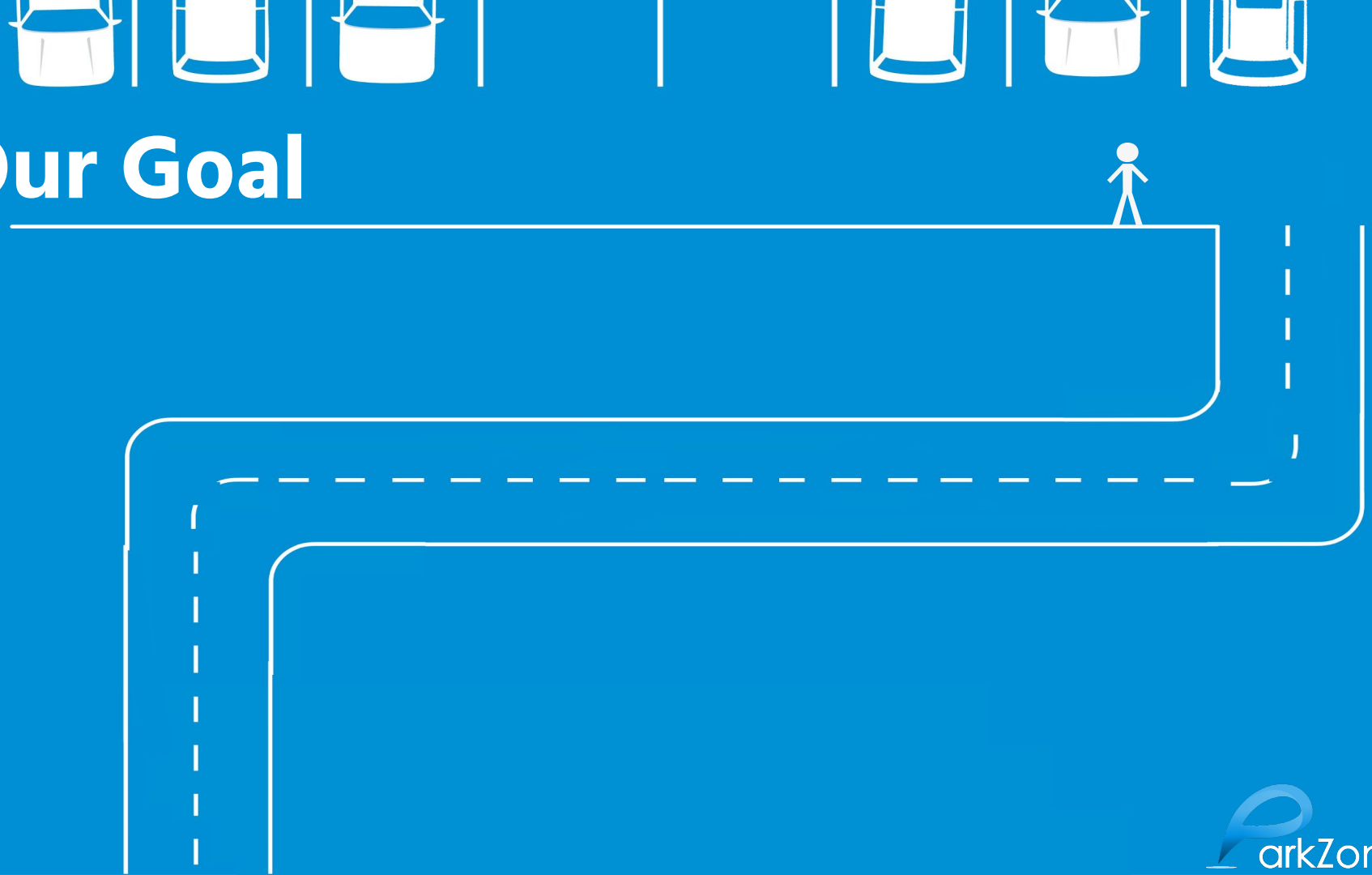

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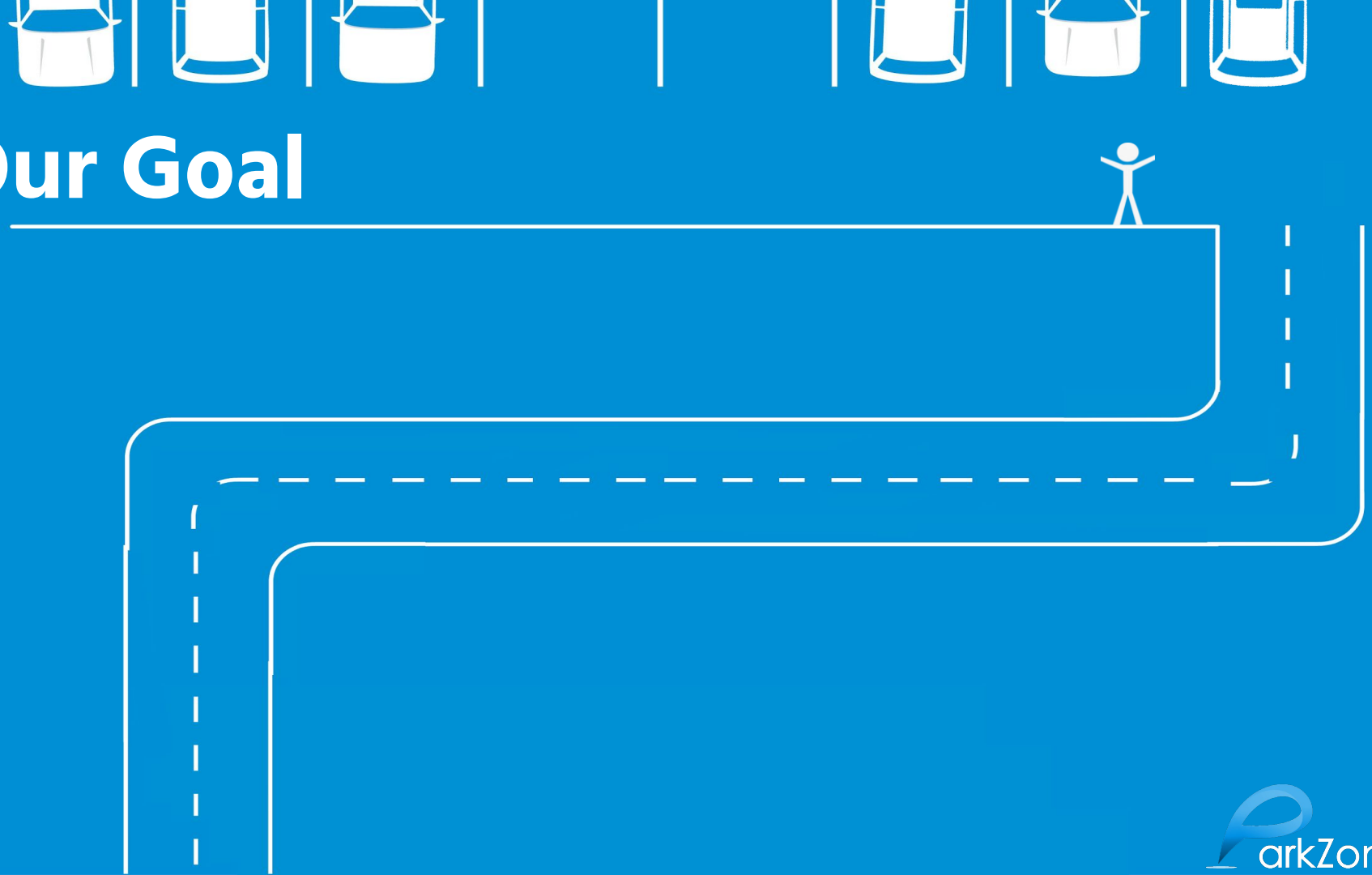
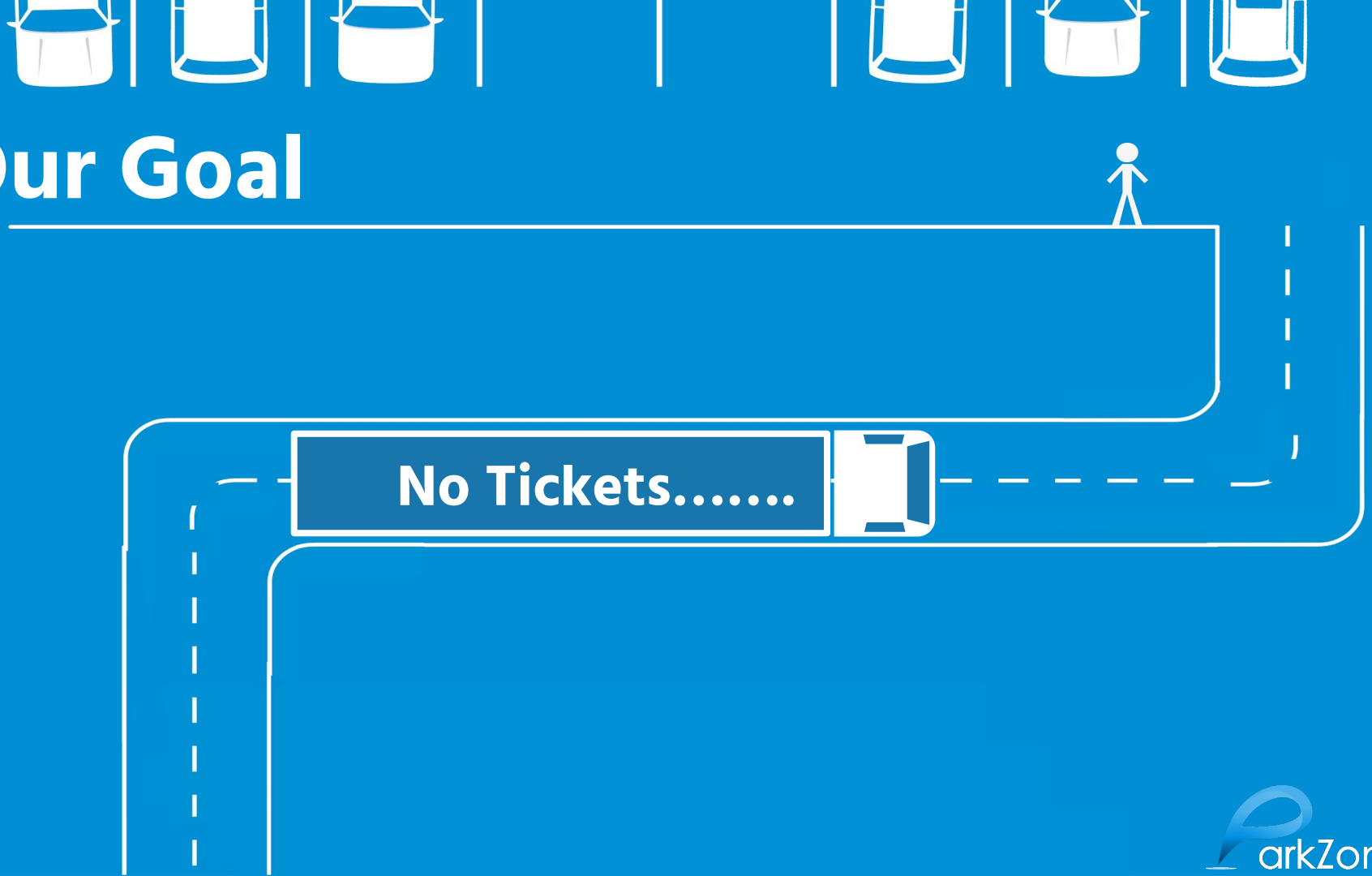


Our Goal

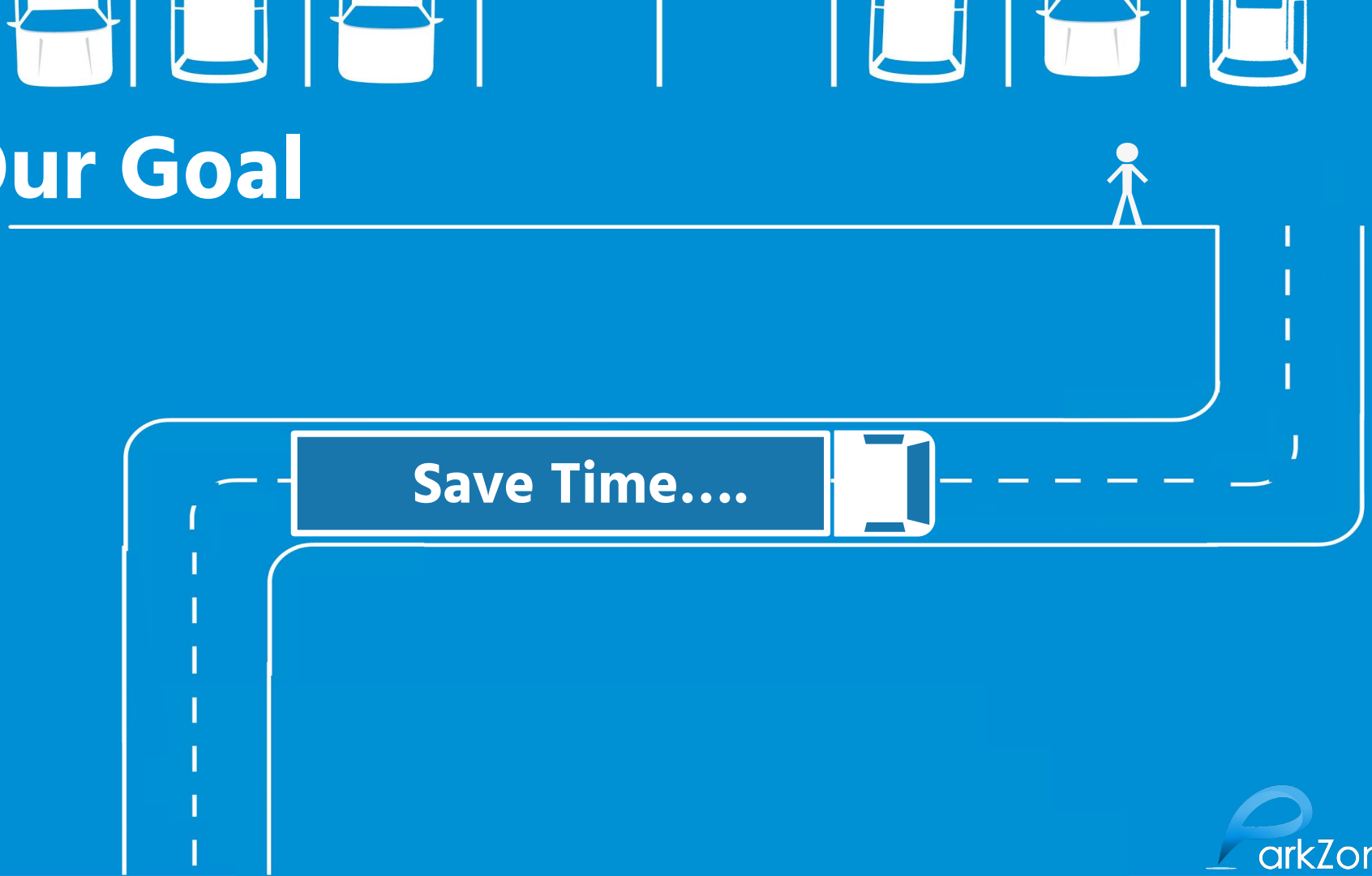
ParkZone

Our Goal

Our Goal



Our Goal



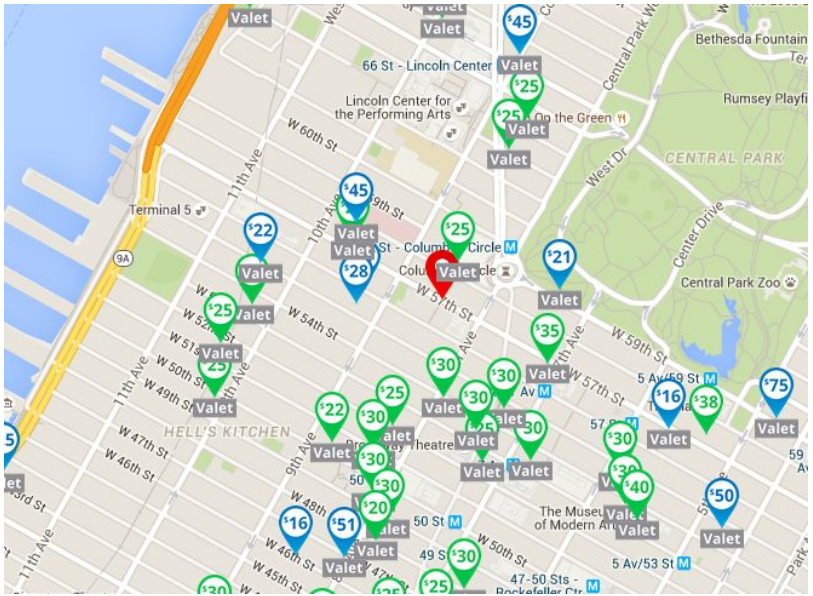
ParkZone

Our Goals

- Create a hassle free application that makes finding parking Easy.

What Are We Doing?

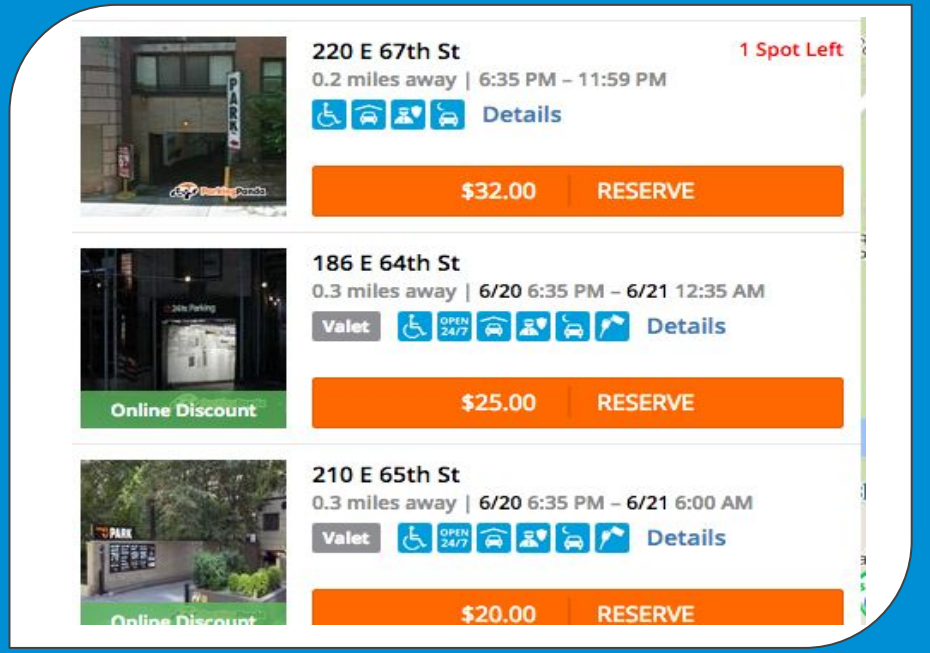
- Web app that finds the closest/best priced parking garage or potential parking spot closest to the user.



ParkZone

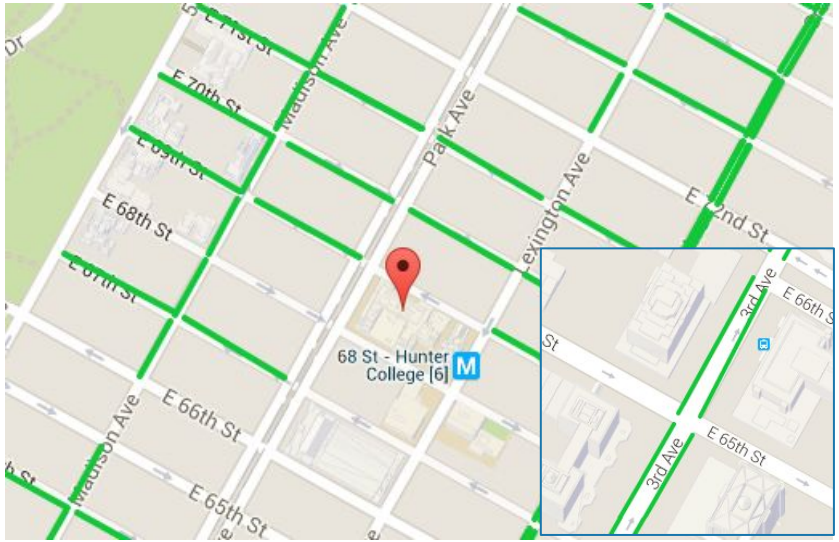
What Are We Doing?

- The user will enter a location. Using that, we will return to them a list of the closest parking garages and their prices/rates.



What Are We Doing?

- Also we will alert them of where they can and can not park on the road based on parking signs.



The Data

- Data on parking garage times, rates, etc. will be collected from publicly available information online.

Central Parking System

Imperial Parking Systems

Edison Park Fast

IMPARK

Park icon — We Park New York!

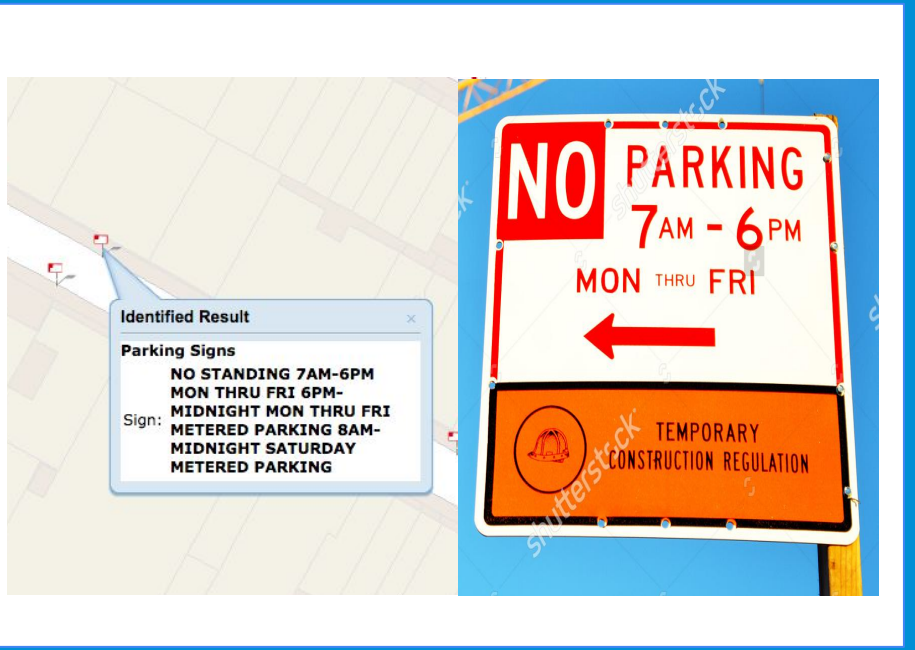
Quik Park

arkZone

The Data

- Data on parking signs will be taken from the Department of Transportation's website.

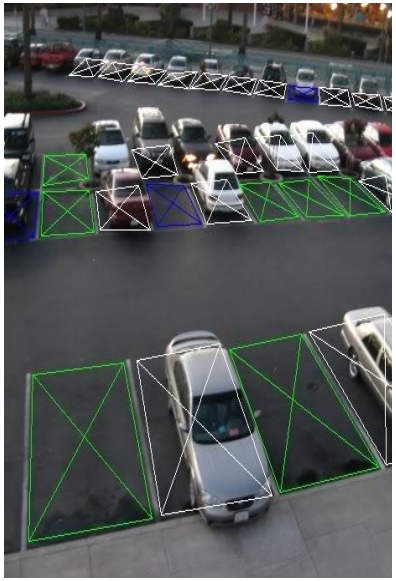
  http://www.nycdot.info



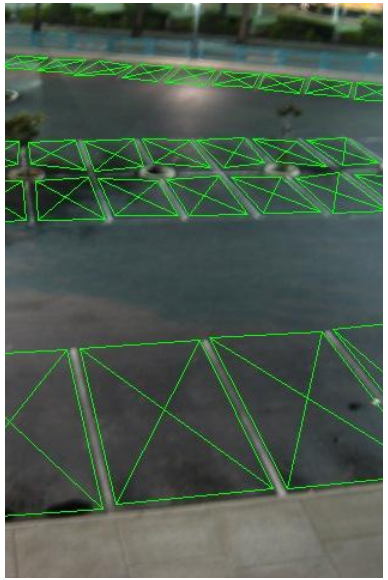
The Data

- Public cameras (also via DOT) and their real time feeds in order to help aid with finding a parking spot for the user.

Occuppied



Vacancy



ParkZone

Languages & Tools


Python


HTML


CSS


JavaScript

SQL

Languages & Tools

Python

Django
A high-level Python
Web App framework

Languages & Tools

HTML

CSS

JavaScript

Bootstrap
The most popular HTML, CSS, and JS framework

Languages & Tools

SQL

SQLite
open-source
database engine

Languages & Tools

OpenCV

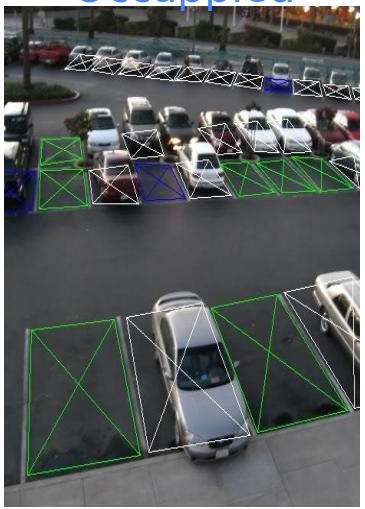
OpenCV (Open Source Computer Vision Library) is an open source computer vision and machine learning software library.

Languages & Tools

OpenCV

OpenCV

Occuppied



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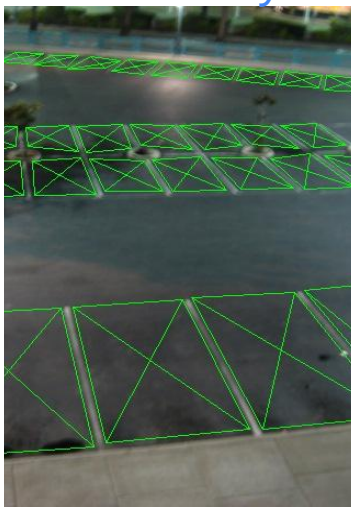

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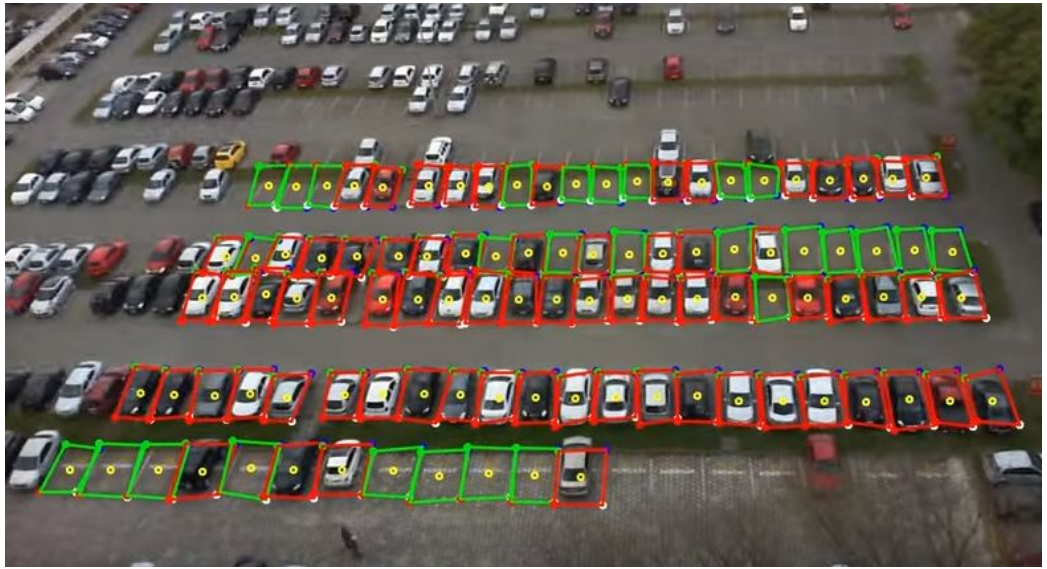
Languages & Tools

OpenCV



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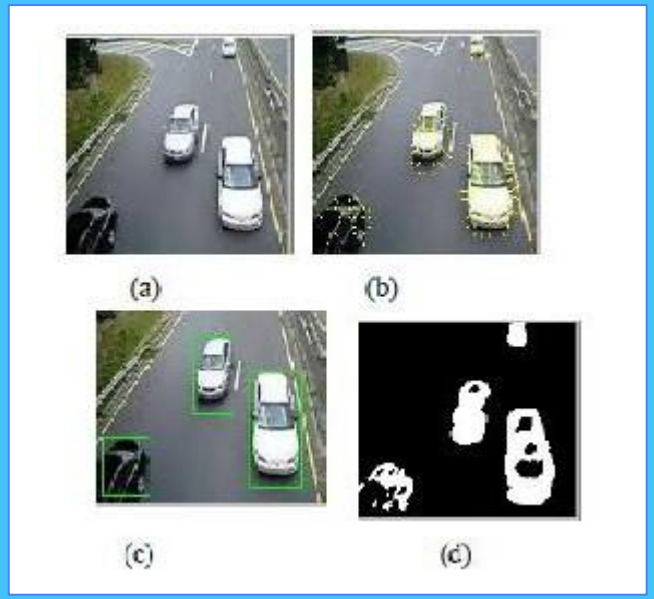
Languages & Tools

OpenCV



arkZone

Languages & Tools

OpenStreetMap

OpenStreetMap is built by a community of mappers that contribute and maintain data about roads, trails, cafés, railway stations, and much more, all over the world.

Languages & Tools

MapBox

An open source mapping platform for custom designed maps.

Languages & Tools

CartoDB

CartoDB is a location intelligence and visualization engine

Languages & Tools

http://{s}.api.cartocdn.com/{basemap_id}/{z}/{x}/{y}.png

http://leaflet-extras.github.io/leaflet-providers/preview/

Languages & Tools

OSM Buildings

OSM Buildings uses geometry data from OpenStreetMap to create 3d Maps

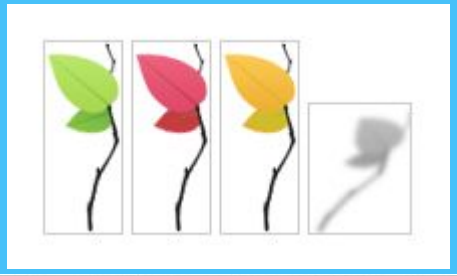
Languages & Tools

LeafLet

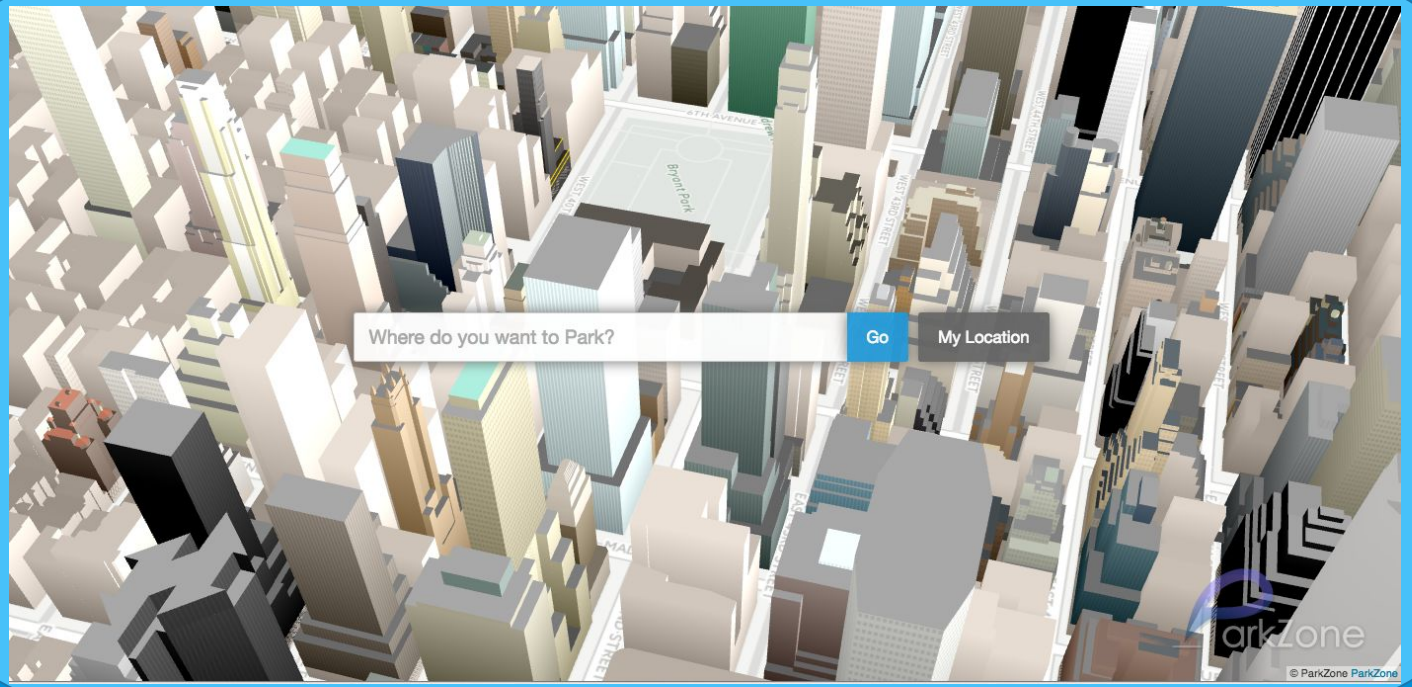
an open-source JavaScript library
for mobile-friendly interactive maps

Languages & Tools

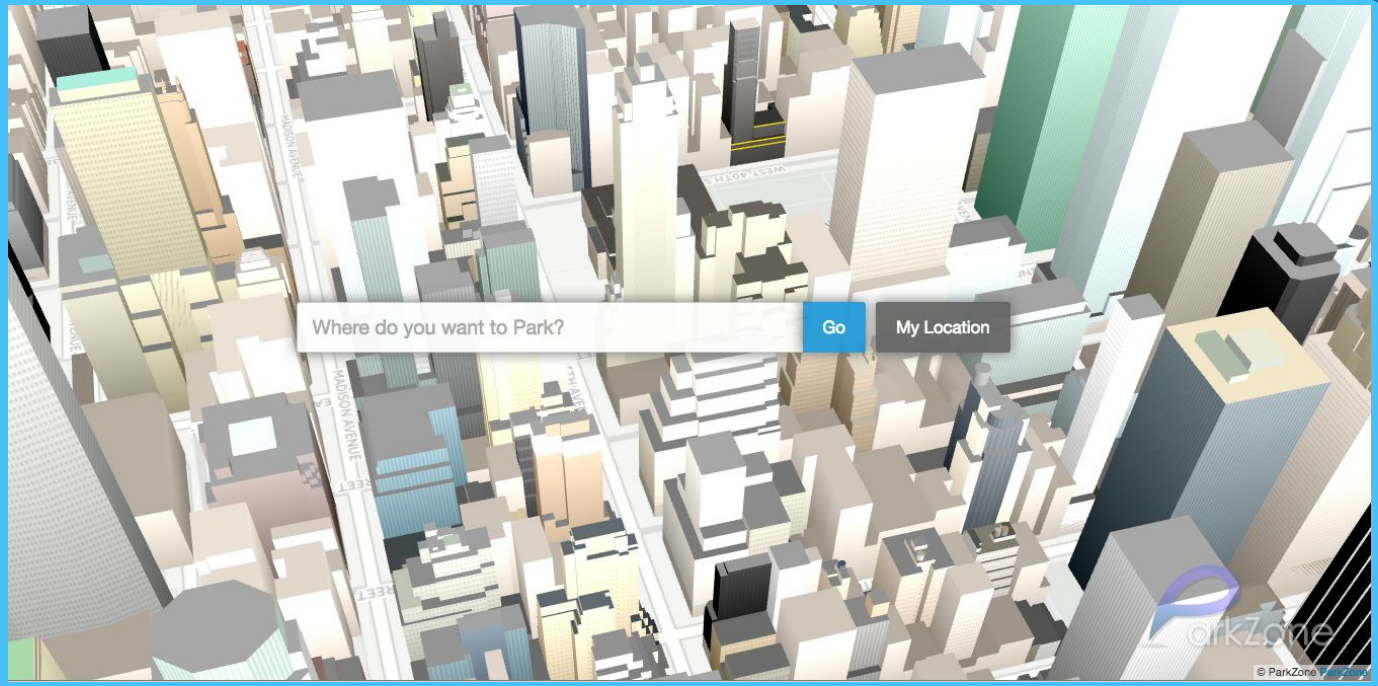
LeafLet



ParkZone


Where do you want to Park?
Go
My Location
Bryant Park
© ParkZone ParkZone

ParkZone



Languages & Tools

Heroku

Cloud Application Platform

is a platform as a service (PaaS) that enables developers to build and run applications entirely in the cloud.

Languages & Tools

GitHub

Online project hosting

Is a Git repository hosting service, but it adds many of its own features.

https://github.com/ramitix/ParkZone

arkZone

Languages & Tools

GoDaddy

Internet domain registrar and web hosting company

www.ParkZone.us

Project Challenges

- Data on parking signs will be taken manually from the Department of Transportation's website.(longitude, latitude, parking info.)
- Image progressing will have not be able to differentiate between a human and car on a parking spot.
- Website cache or preloading to minimize the lag of the 3d maps
- Custom Markers on the map and map layers.
- Plot the markers based on GEO. location.
- Make Dynamic Markers to change based on the price .
- Change street parking availability based on time.
- Map search autocomplete based on google maps API without google maps

Work Distribution

Michael Medina

Ramy Atalla

Mark Lindo

Work Distribution

Michael Medina

Collecting data “parking garages/street parking /cleaning parking signs
HTML/CSS ”Front-end”
Database Creation/management
client-side scripting “JavaScript”

Work Distribution

Ramy Atalla

Collecting data (parking garages/street parking /cleaning parking signs)
HTML/CSS (Front-end)
Server-side (Domain/Hosting/deployment)
Database Creation/management
client-side scripting (JavaScript)
OpenCV python
3D map Creation/Map Api
Graphics Design
UI/UX Design

Work Distribution

Mark Lindo

Collecting data “parking garages/street parking /cleaning parking signs
HTML/CSS ”Front-end”
Database Creation/management
client-side scripting “JavaScript”