



# Convenient and intelligent Navigating at busy stations



**UIC next station**  
TEHRAN 2019

**Mohammad Amin Sohrabi**

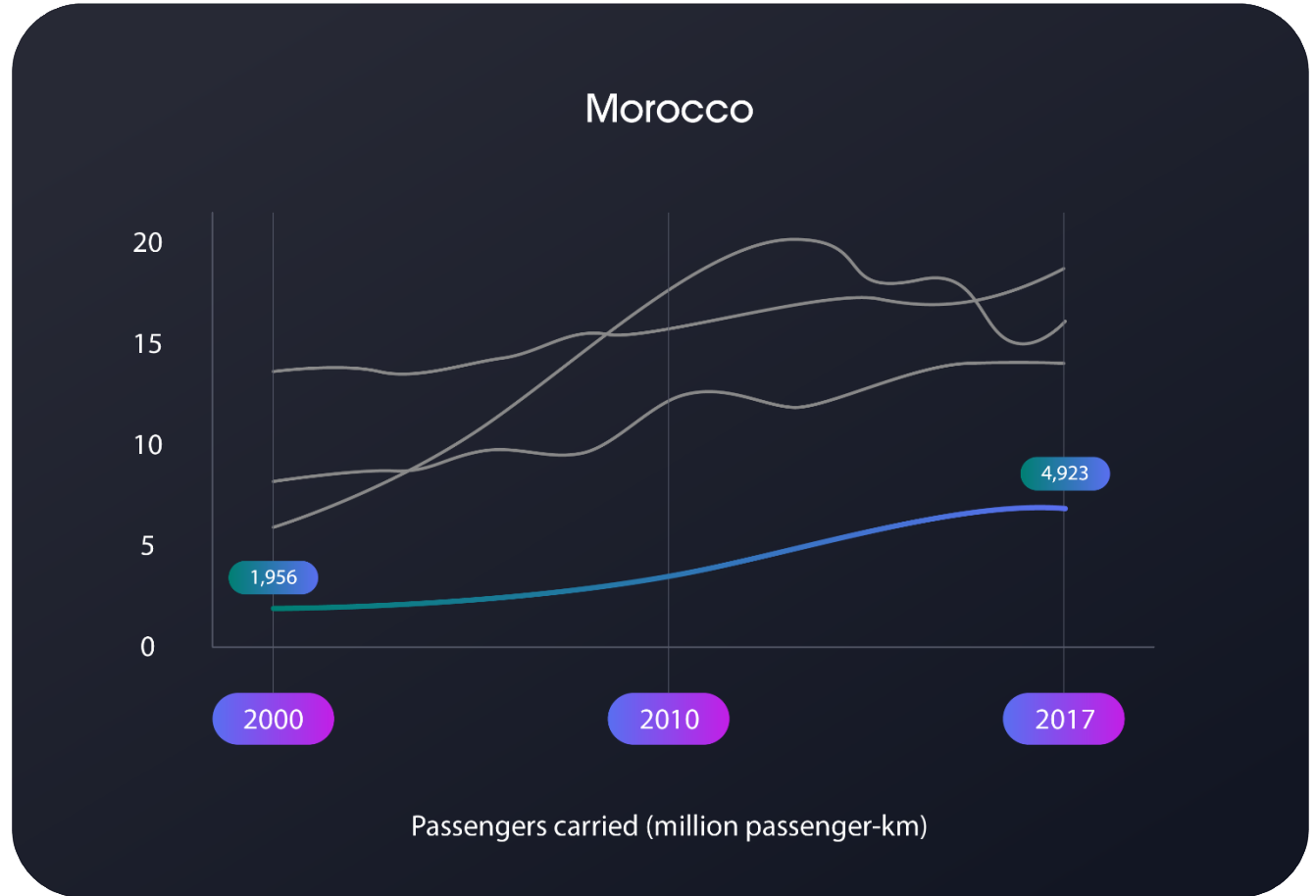
Radrail

*Product Manager*

## Statistics:

# Development of Public RAILWAY Transportation From 2000 To 2017

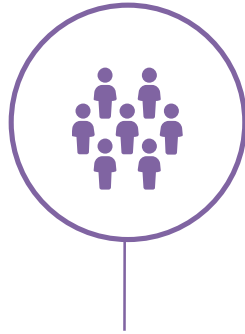
Data.worldbank.org



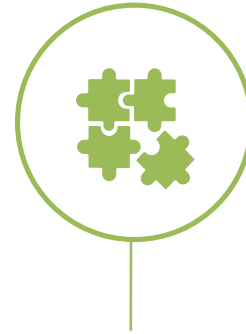
## Station Challenges:



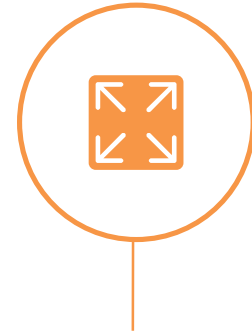
Increasing  
Railway users



Crowded  
stations



Problems  
arise



Efficient extension  
of the station

## Survey:

Understanding  
the most  
important factors  
in passengers  
satisfaction in  
stations



The following results were obtained  
from a survey conducted by Tehran  
Railway Station

It was found that  
the most important and time consuming  
parts of the trip for passengers are:

- ✓ Time to reach destinations in station
- ✓ Finding the exact location of the facilities
- ✓ Finding the exact departure point

To solve these problems:



Using smart solutions,  
Navigating passengers by AR

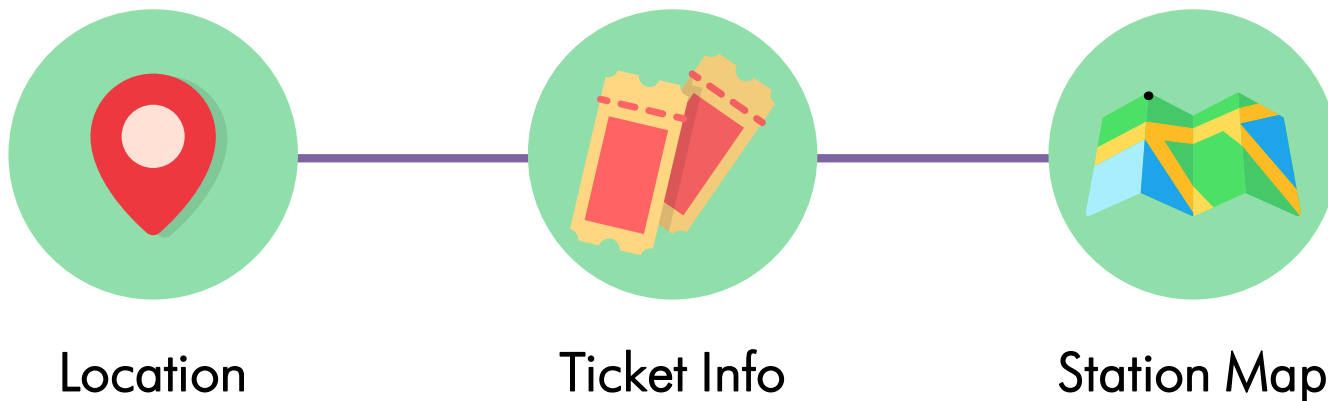
**Station Guidance Application**

# What is Station Guidance Application?

- Indoor Navigation
- IPS and GPS
- AR Technology

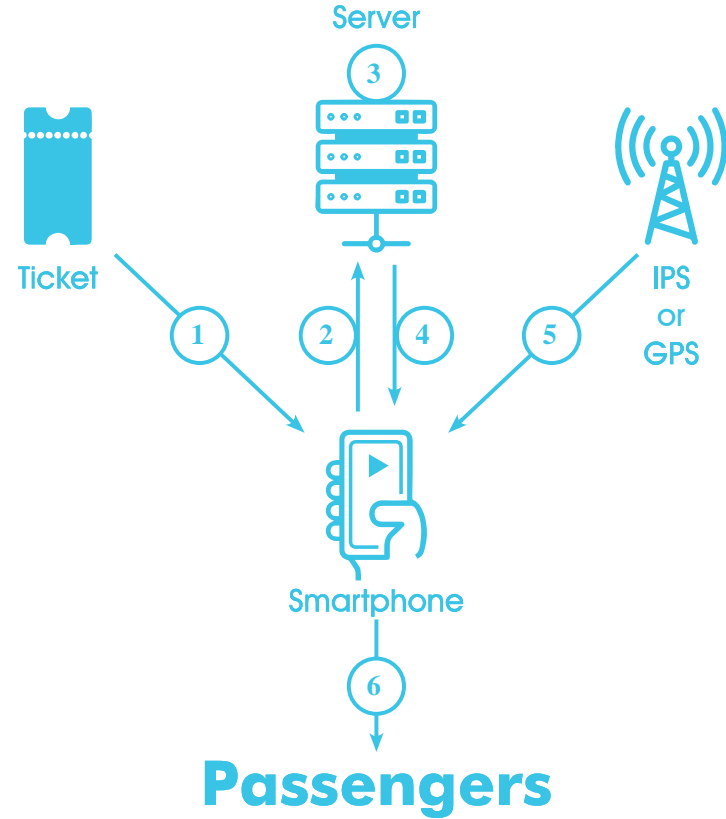


## How it works?



## How it works?

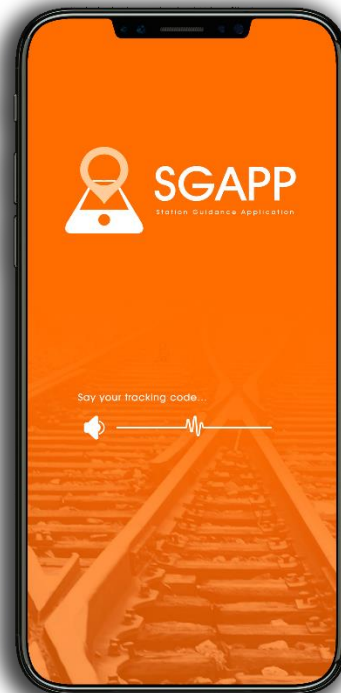
1. Insert tracking code to the App.
2. The inserted tracking code will be sent to the server.
3. All information about the ticket, as well as seat number, train number, wagon number and station map are in server.
4. The related information will be sent to the phone so application will be able to detect exact location of train and departure platform.
5. Station map is saved in application. Phone location gained from GPS or IPS. By using locations and station map, SGAPP would find the best way to your destination
6. SGAPP shows you the navigation in AR/Voice.





## How to use?

### Inserting tracking code



## How to use?



Directions as a virtual line to destination

## How it works?



Turn-by-turn Voice Navigation to destination

## Other features

- Real time information
- Door to door transportation
- All station facilities
- Link to other applications



## Contact:

This project was done by  
**RADRAIL**

**www.radrail.ir**  
info@radrail.ir

Technology Incubator of  
Iran University of Science and Technology

**MohammadAmin Sohrabi**  
SGAPP Product Manager  
mn3sohrabi@gmail.com

**Saba Karimi**  
Railway Transportation Engineer  
Saba.karimi92@gmail.com

**Thank you**  
for your kind attention