Poznań Airport

Mobile Passenger Information System
- pilot investment

Wrocław, Poland

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l.p.	Topic
1.	Poznań Airport – interconnectivity and intermodality
2.	Poznań Airport solution – mobile application
3.	Future development of Poznań Airport Guide

1.
Poznań Airport -
- interconnectivity
and intermodality

- As one of several airports in Europe, Poznań Airport is located in a **convenient distance from the city** center. The distance of **6 km west** of dowtown Poznań spares weary and expensive commutation.

- The airport is located **at the main artery** leading to the city center, main railway station, Poznań International Fair and City Football Stadium.

- The construction of the **western part of Poznań bypass (S11)** made it possible to reach **A2 highway** in a speedy and comfortable way avoiding high traffic in city center.

PUBLIC TRANSPORT

- ❑ Poznań Airport is connected with the city center by **two lines of public buses** (including one express line) leaving from in front of the terminal every 20-30 min.
  There is also a night bus operating at late hours.

- ❑ Bus schedules are **synchronized** with flight schedules.

- ❑ Depending on traffic, a journey to the city center takes **20-30 min**.

- ❑ Right in front of arrival hall there is a 24/7 **taxi stand.**

- ❑ At the arrival hall, six **car rentals** offer their services to Poznań Airport passengers.

❑ Poznań Airport is conveniently connected with the main railway station which offers **railway connections to almost all cities in Poland and a wide range of cities abroad.**

❑ Poznań main railway station undergoes a **great modernisation** – currently the new passenger terminal has been constructed.

❑ Further development includes adjoing **regional coach and bus station, key tram stops** and a **park&ride parking complex**.

❑ The whole investment named **Poznań Intergated Transportation Center** will be a real hub for passengers using different transport modes.

PARKING LOTS

- ❑ Along with airport infrastuctural development and a constant increase in traffic level, an **extension of parking spaces** is being carried out.

- ❑ It is recommended that, at airports, there should be at least **1 parking place to 1000 handled passengers**.

- ❑ Exisiting and newly built parking spaces are divided into **short-term and long-term lots** operated by **professional parking operators**.

PASSENGER TERMINAL
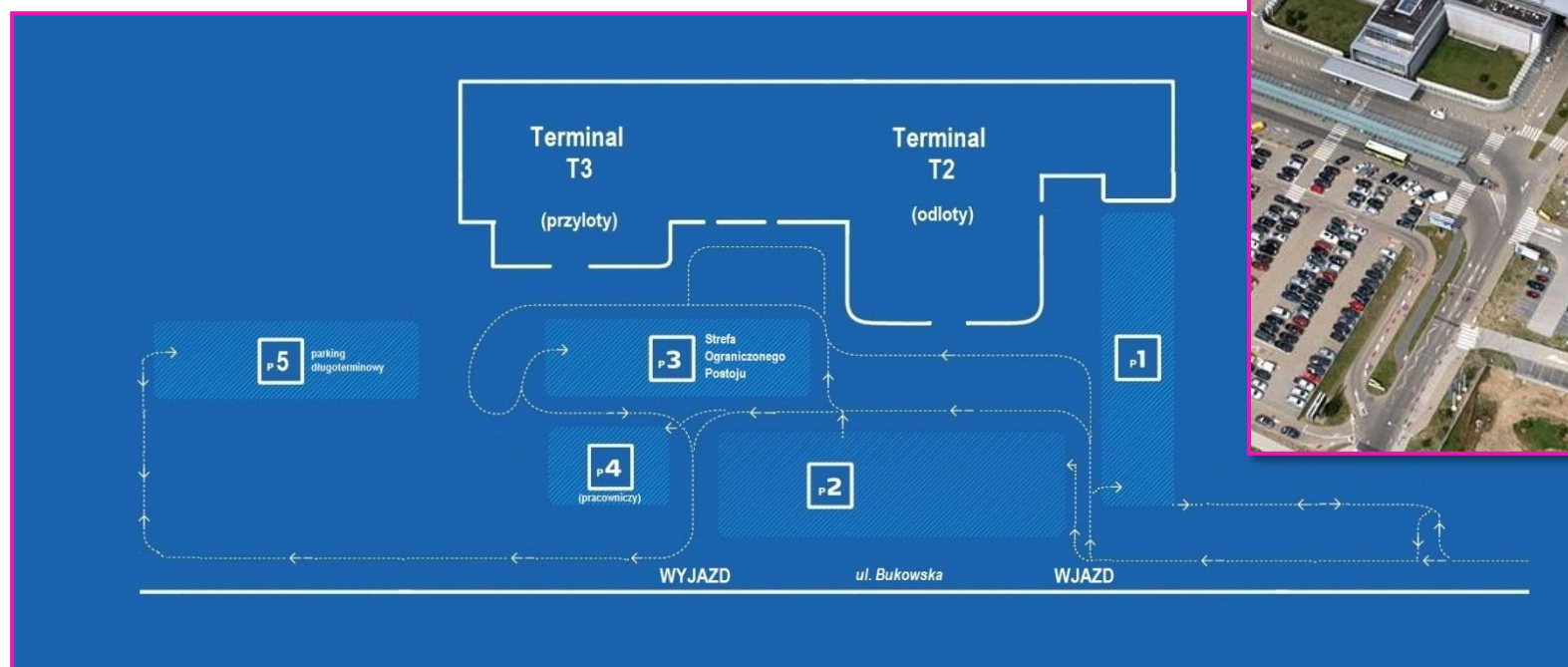
❑ In May 2012, the construction of a new passenger terminal consisting of an arrival hall and check-in hall was finished. Opening of the new terminal resulted in **an increase in total passenger terminal capacity – from 1.5 million to 3 million passengers per year.**
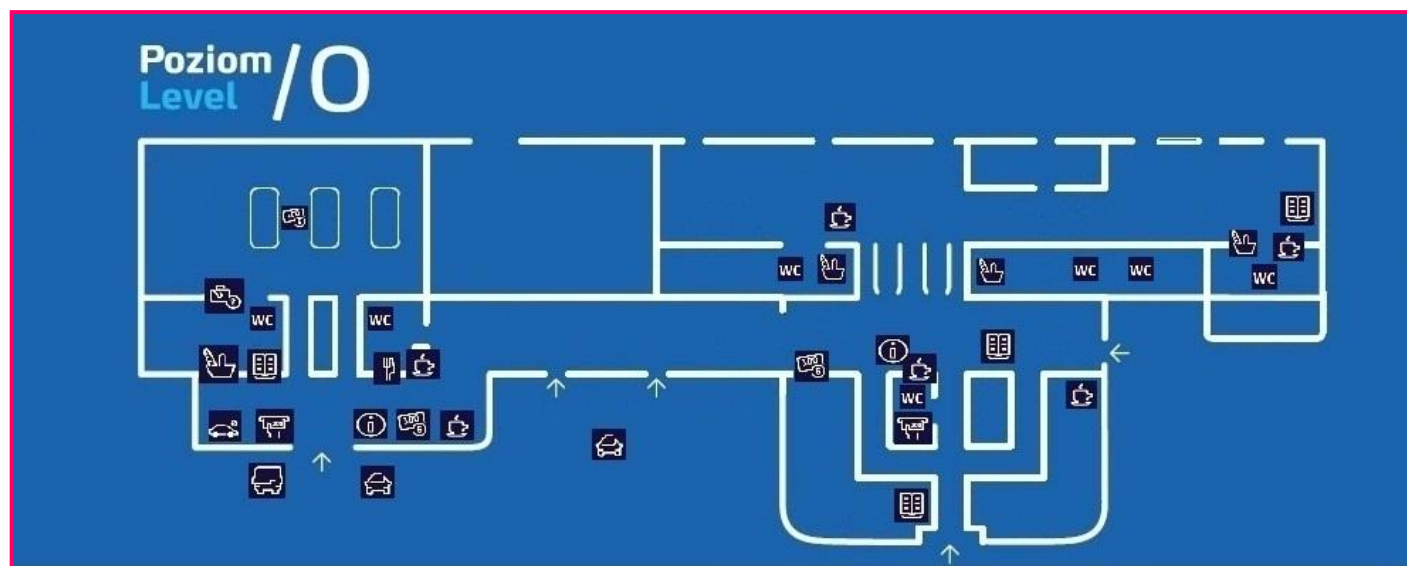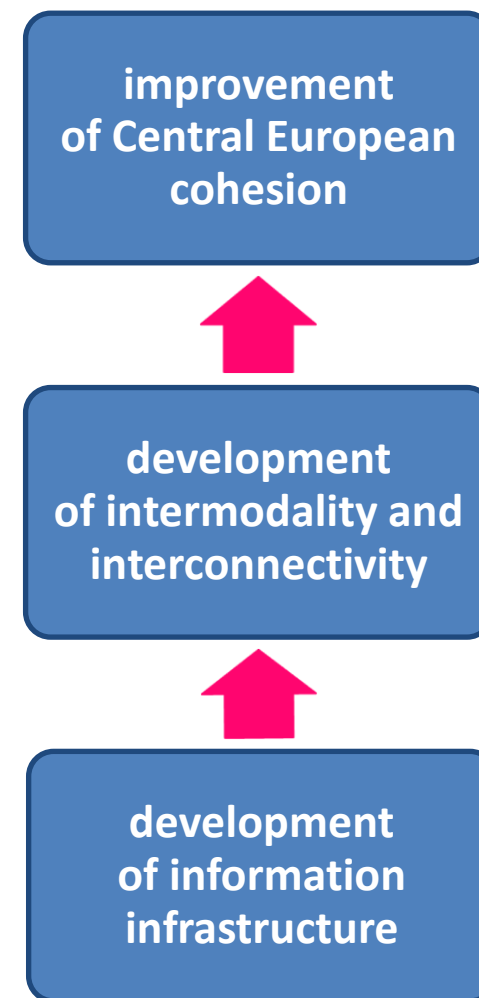

❑ Both terminals provide the passengers with a **wide variety of services** – bars, restaurants, kiosks, duty-free shops and car rentals.

PROJECT OBJECTIVES

❑ CHAMPIONS Project aims at the **improvement of internal cohesion** of Central Europe through a **development of intermodality and interconnectivity**, which is an interconnection of air and public transport.

❑ To reach these goals, the Project stimulates **development of information infrastructure (e.g. Passenger Information Systems)**, which Poznań Airport is implementing as the pilot investment of CHAMPIONS Project.

❑ Poznań Airport decided to approach the issue in a modern and innovative perspective and, as a pilot investment, introduce a

Mobile Passenger Information System on smart phones

improvement of Central European cohesion

↑

development of intermodality and interconnectivity

↑

development of information infrastructure

2.
Poznań Airport solution
- mobile appliaction

Corresponds

with airport logo in:

- ✓ **colors**
- ✓ **fonts**
- ✓ **character**

GUIDE:

- ✓ **passenger-friendliness**
- ✓ **assistance**
- ✓ **comfort**
- ✓ **leadership**
- ✓ **security**

GUIDE to:

- ✓ **airport**
- ✓ **city**
- ✓ **bus**
- ✓ **hotel**
- ✓ **parking**
- ✓ **and many others…**

MOBILE APPLICATION

Mobile Passenger Information System on smart phones.

The system will be composed of two elements:

- ❑ **Analytical server and data base**

    (licensed to the airport by the contractor)

- ❑ **Moblie application**

   (an output of the pilot investment

    owned by the airport).
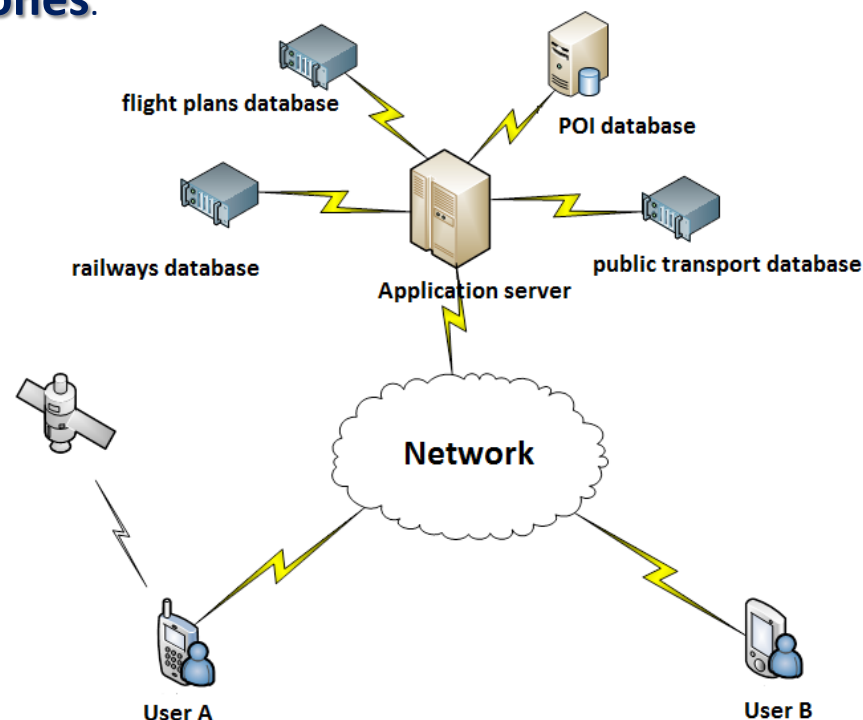
It is planned to implement various functions of the mobile application **in stages** depending on technological development, users' needs, and airport financial condition, but the basic platform of communication between the airport, public transport providers and passengers shall be initiated by the pilot investment which is the core output of CHAMPIONS Project.

APPLICATION FUNCTIONS

The mobile application will operate on Android devices and will provide the passengers with a set of functions within the four following topics:

- ❏ **timetables of flights** operating from and to Poznań Airport

- ❏ **multimodal trip-planner** not only to/from the airport but also in the city of Poznań and the region

- ❏ **public transport schedule** covering the whole city and surrounding suburbean areas

- ❏ **Poznań Airport parking plan** providing information on prices and pre-booking possibilites

- ❏ **airport layout** presenting services available at Poznań Airport

- ❏ **point of interest** search in the city of Poznań
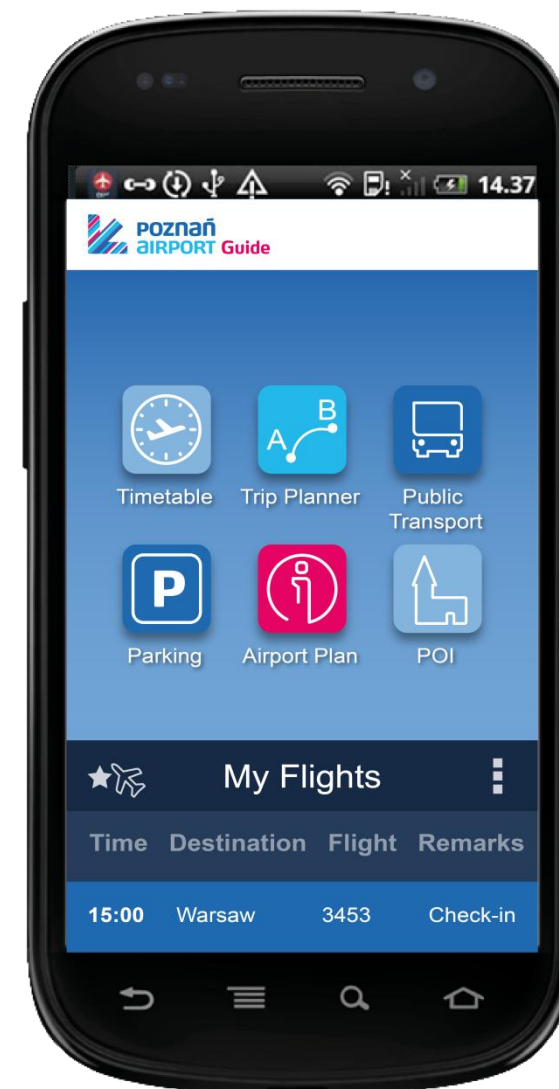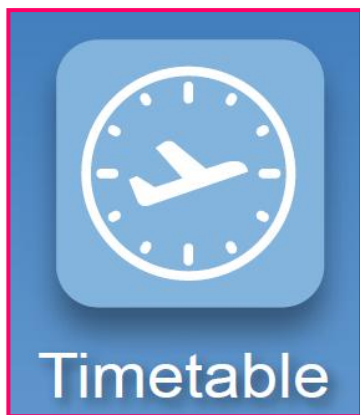
TIMETABLE

- **real-time** information on flights operating from/to Poznań Airport

- identical with information presented in the airport main hall timetable

- **updating** and synchronising information with the application server **in 1 sec intervals**

- possibility of **status tracking** of chosen flights stored in the „My flight" section

- visual and aural **alerts** on the status of chosen flights (e.g. delay, cancellation)

# TRIP PLANNER
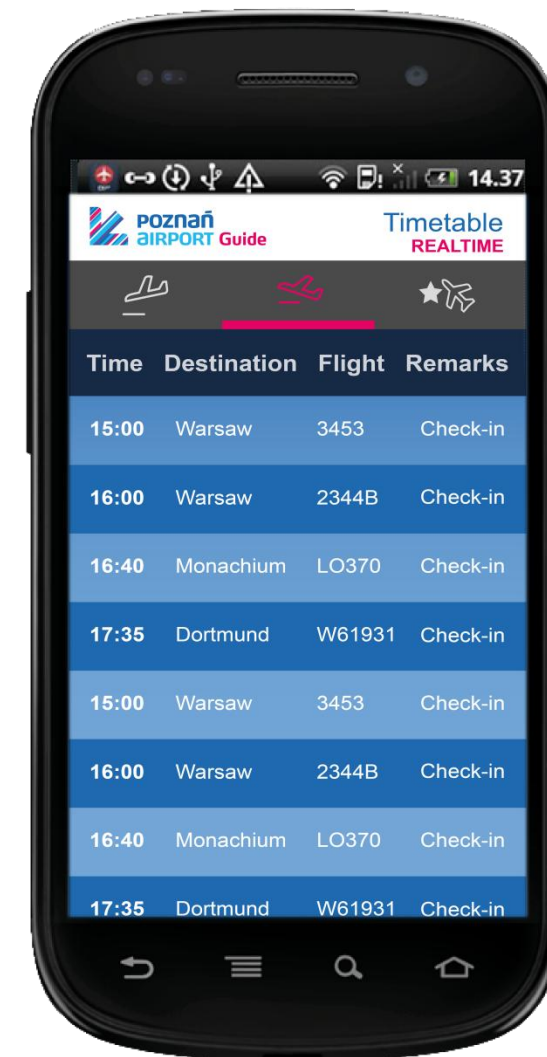
Trip Planner

- ❏ **multimodal trip-planner** considering:

  - initial and target localization

  - time constraints (arrival time)

 - mean of transport (public transport, car, taxi)

- ❏ route search results presented:

  - **on a map** and

  - as **directional step-by-step instructions**

- ❏ user's position will be estimated via GPS and directional instructions will be **uploaded from Google Maps**.
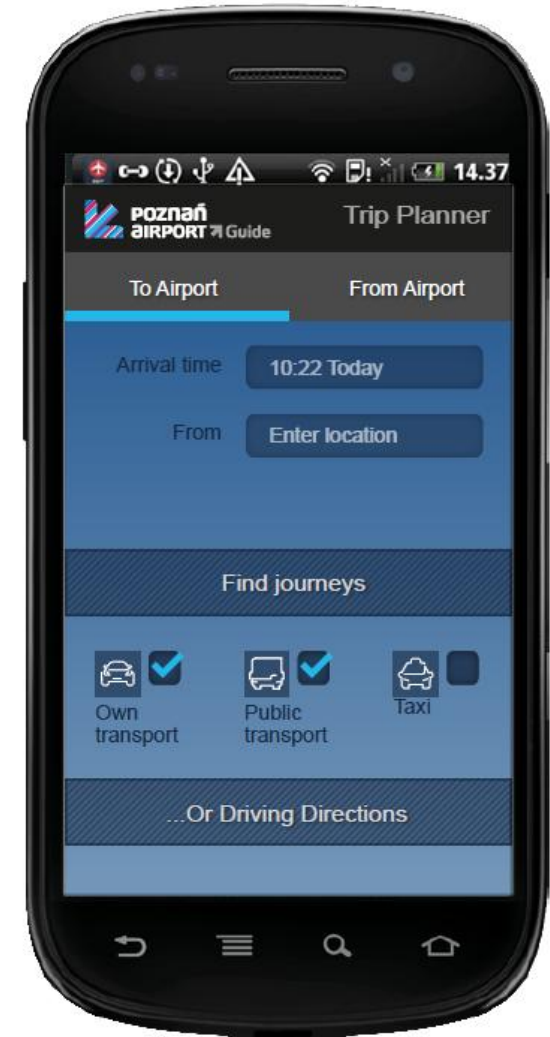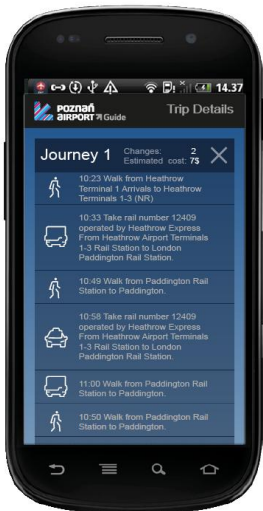
PUBLIC TRANSPORT

❑ Public transport schedules allowing for search by:

- **lines**

- **stops**

- **routes**

❑ The application covers **not only Poznań public transport but also suburban buses** from neighboring towns.

❑ Poznań Airport signed an agreement with Poznań Public Transport Management thanks to which the public transport **schedules are regularly updated**.
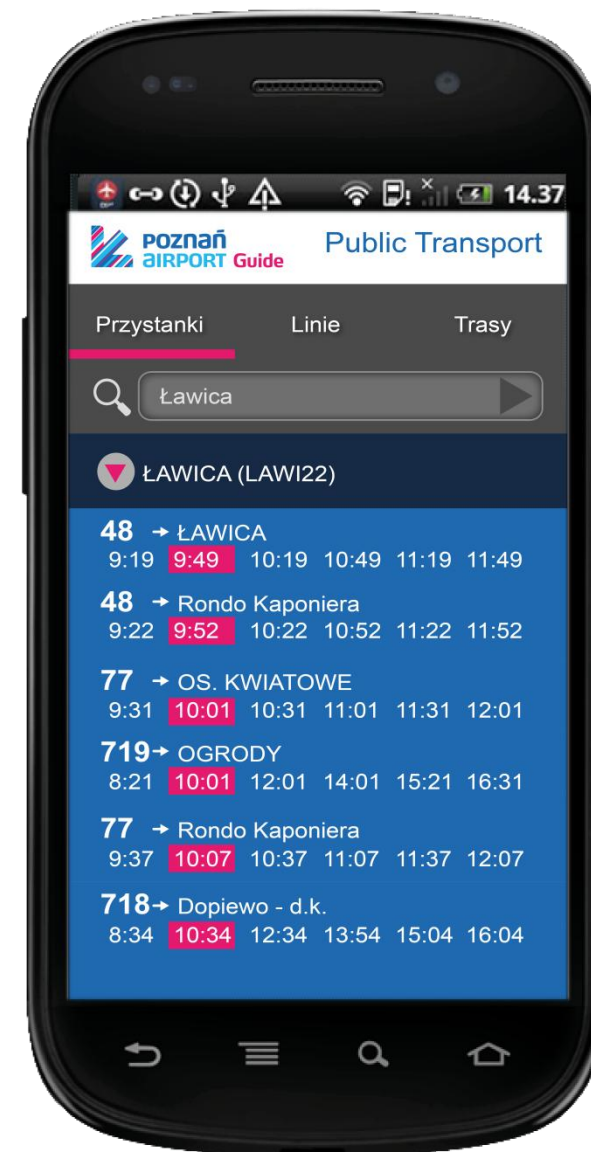
PARKING

❑ Poznań Airport **parking plan** providing information on:

- number of parking places available
- parking entrances and exits
- prices
- pre-booking possibilites

❑ For prices and pre-booking, users will be redirected to **parking operators' websites**.

❑ User needs to define estimated parking time (e.g. 1 day, 3 days, 2 weeks) and the application will **suggest short-, mid- or long-term paking lots.**
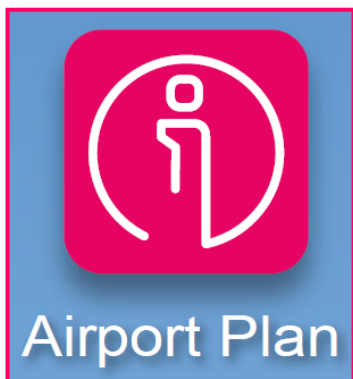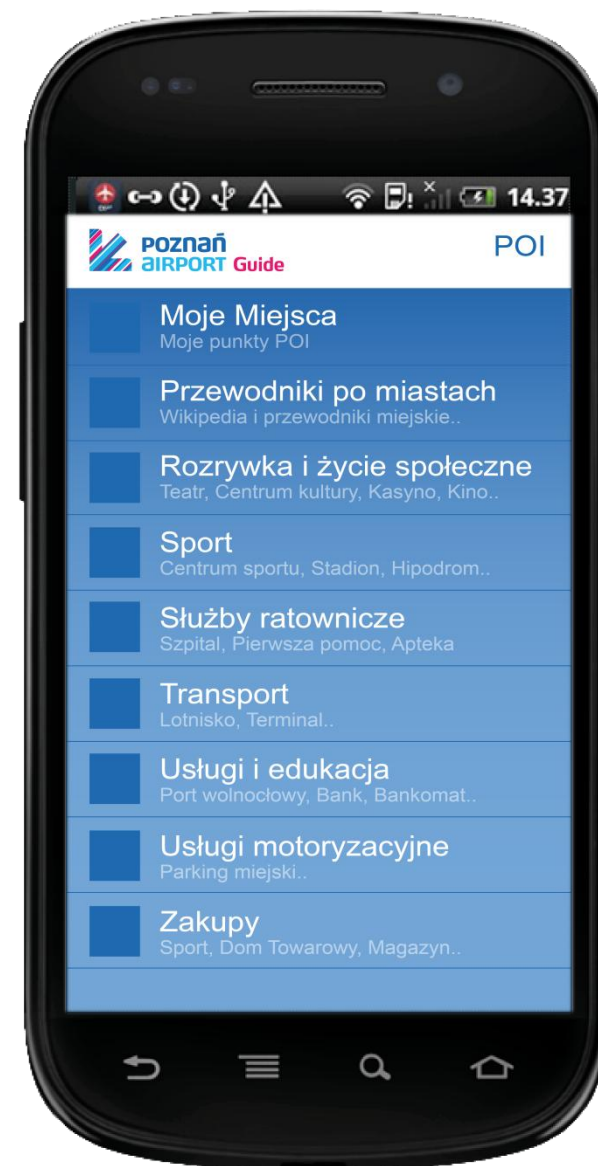
AIRPORT PLAN

❑ presentation of **terminal layouts** facilitating spatial orientation at Poznań Airport

❑ presentation chosen **points of interest** at the airport (bus stops, toilets, ATMs)

❑ presentation of **services available** at the airport (restaurants, cafes, car rentals)

❑ magnification of chosen POIs to depict their **precise localisation**

❑ due to non-commercial character of the Project, **no brand names** are mentioned
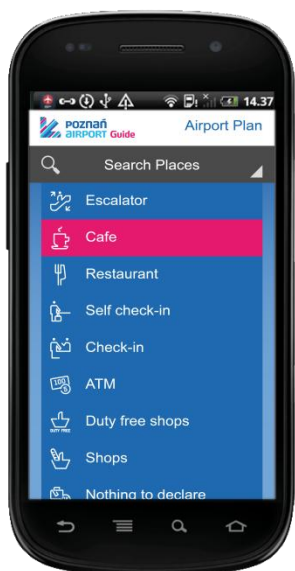
POINTS OF INTEREST

- database of points of interest in the city

  of Poznań including such branches as:

  - **monuments**

  - **entertainment**

  - **sport**

  - **medical services**

  - **and many others**

- point of interest search through:

  - text engines and

  - presentation of near-by POIs on a map

- User may define their **favorite POIs**

  (e.g. chosen hotel, conference center

  or monument).

POI

MILESTONES

Milestone 1	Status
1. Presentation of flight timetable (static)	
2. Trip planner from/to the airport (driving directions)	
3. Airport plan (terminal layout)	
Milestone 2	Status
1. Flight timetable (dynamic)	
2. Presentation of Points of Interest on the map	
3. Presentation of public transport timetables	
4. Implementation of the application on a target server	
5. Publication of the application on Google Play and airport website	
Milestone 3	Status
1. Presentation of train timetables	
2. Polish-English language version	
3. Tests	

❑ The application will be **distributed for free via Google Play**, formerly known as the Android Market - a digital application distribution platform allowing users to browse and download music, books, movies, television programs, and applications that were published through Google.

❑ On Google Play, applications can be downloaded directly to an Android device or onto a personal computer.

❑ Google Play can **automatically update the applications** the user selects, or users can update them on a per-case basis or update all applications at once.

❑ In October 2012 Google Play had 700,000 applications available to download, matching the number of apps in Apple's App Store.

3.
Future development
of Poznań Airport Guide

❑ CHAMPIONS pilot-investments are to constitute an **initial platform triggering a long-term development** of the whole passenger information system.

❑ In compliance with this idea, Poznań Airport plans to implement various functions of the Mobile Passenger Information System **in stages** depending on technological development, users' needs, and airport financial condition.

❑ The functions co-financed by European Development Fund will be non-commercial and publically available, however there are plans to add **other, non-EU-funded modules** which will assist the user in their commercial searches.

It is planned that, in the future, Mobile Passenger Information System will provide the passengers of Poznań Airport with such services:

- ❑ public transport ticket purchase
- ❑ payment of parking fees in parking zones
- ❑ purchase of flight or train tickets
- ❑ excessive luggage fees payment
- ❑ online check-in
- ❑ hotel room booking
- ❑ ordering a taxi
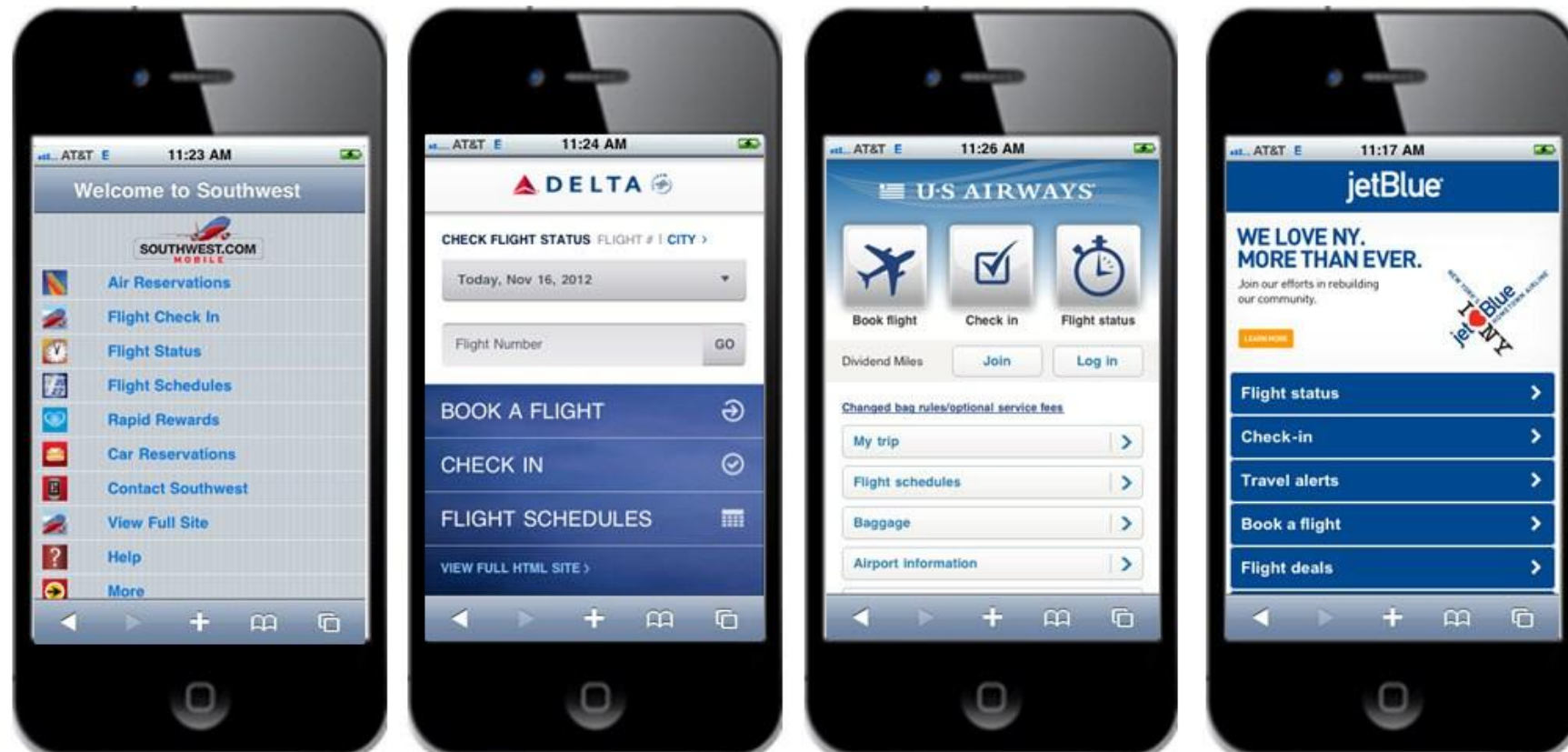- ❑ renting a car
- ❑ payment of airport parking fees

❑ Mobile application may also be used to respond to the needs of passengers and airport users. Thanks to a system of **mobile questionnaires** filled in by application users, it will be possible to get cost-free, valuable and constructive feedback which may serve as an argument for further development initiatives at the airport.

❑ Furthermore, thanks to application's additional functions, it may be possible to create **loyality programs** for frequent travelers visiting Poznań Airport.

❑ As at other world airports (e.g. in Manchester), the application may serve to reach the users with a unique commercial offer tailored specially according to their desires.

Are you a mobile flyer?

Thank you
for your attention...