

#### **ASIA-PACIFIC TELECOMMUNITY**

15th APT Policy and Regulatory Forum (PRF-15)) 3-5 August 2015, Singapore

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3 *August*2015

#### **SITA**

**Emerging Technologies in the Air Transport Industry** 

**Contact:** 

Tel:

Email:



### CONTENTS

- Who we are
- What do we do
- Industry Trends
- Innovation in the Air Transport Industry (ATI)

### SITA – Who we are

- Non commercial Cooperative Society established in 1949 for members in the ATI
- Object of the Society:

To foster all telecommunication and information processing matters directly or indirectly connected with the transmission and processing of all categories of information required in the operation of the air transport industry, and to study the problems relating to them, with the aim of promoting in all countries safe and regular air transport.



### SITA is not a PTT/Telco

- Not for profit cooperative society for ATI members
- Non commercial, non political, impartial
- Do not own network facilities
- Lease network facilities and capacity from other services providers
- Do not operate or provide services to the public
- Closed user group/private network for SITA members in the ATI, government and NGOs only



### **INDUSTRY LEADERSHIP**

- Nearly every passenger trip relies on our technology
- SITA supports almost every airline and airport in the world
- Specialists in air transport IT
- 100% owned and driven by industry

WE CONNECT

13,500 air transport

industry sites

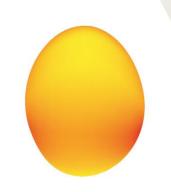
200
Countries and territories served

1,000
Airports - presence

2000+
Strong global service team

65+
years industry
experience

### COMMUNITY OWNED, COMMUNITY DRIVEN



430 SITA members 35+
AIR TRANSPORT CIOS
on SITA's Board
and Council

100% Owned by and dedicated to air transport 30+
Customer Advisory
Board members

# SOLUTIONS ACROSS ALL SECTORS



Airlines



Airports



Aircraft



Governments



Ground Handlers



Air Traffic Control



Aerospace



Travel Distribution



### THE BUSINESS WE RUN



### Communication & Infrastructure

Global and local services for all air transport sectors



#### **Airport**

Passenger, baggage, operations



#### **Passenger**

Passenger management and distribution



#### Government

Border management



SITA OnAir

In-flight connectivity C Air-ground, operations, eAircraft



#### **CHAMP Cargosystems**

Cargo management, community integration, eCargo



#### **SITA Bureau Services**

ANSP Billing & revenue management

# WORKING GLOBALLY AND LOCALLY

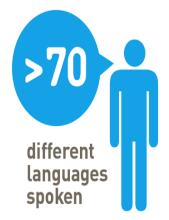
- One of the most international companies on earth
- A strong local presence
- Service staff on hand to help

4500 SITA staff











# INDUSTRY TRENDS



# THE FUTURE IS PERSONAL





# THE CONNECTED TRAVELER IS EVERYWHERE

A new era of continuous engagement?



## 18% of passengers carry a smartphone, tablet and laptop





### PERSONALIZATION THROUGHOUT

On the move, at the airport, in-flight

Strong mobile investment from all stakeholders







# INNOVATION



### **VISONARY INNOVATORS**

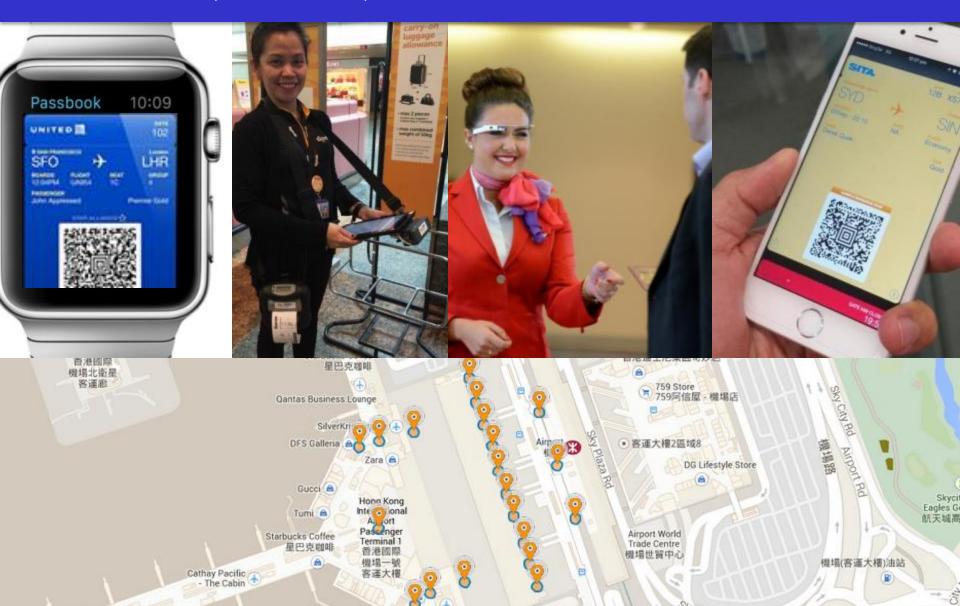
- Committed resources and funding for the industry's future
- SITA Lab engine of innovation
- Collaboration with customers, partners and industry bodies





# Innovations for the Air Transport Industry: Wearables, Mobiles, Beacons

SITA Labs



### Next 2-10 years: Wearables!



### Wearables

### - scanning on the go





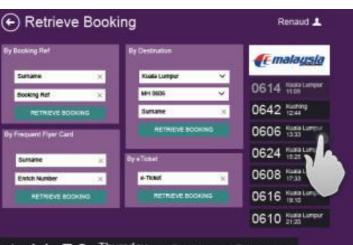






# Mobile Check-in agent with Tablets



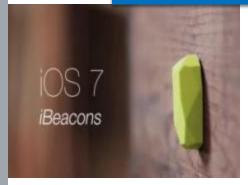


### Introducing Beacons



#### Beacons are:

- Small, cheap (\$10-\$40 USD), ultra low power (2-9 year battery) easy to mount
- Broadcast content over Bluetooth (BLE)
- Works with all smartphones and tablets
- Wake up every 1/10 of a second allowing transfer of real-time information
- Actions include real-time notifications, indoor navigation, assets tracking and much more based on location



















### REQUIRES AN APP

(bluetooth on and service opt-in)



#### apps require web services:

schedule & actual flight info

airport info

shops, restaurants, services, descriptions, hours of ops, etc

walk times

wait times

terminal maps

product & service search

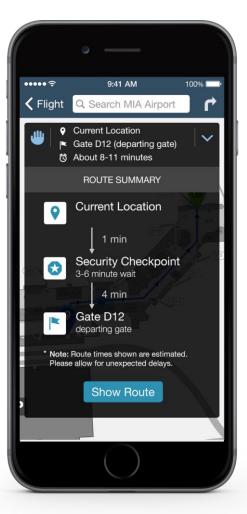


# **Location Based Services**Passenger view

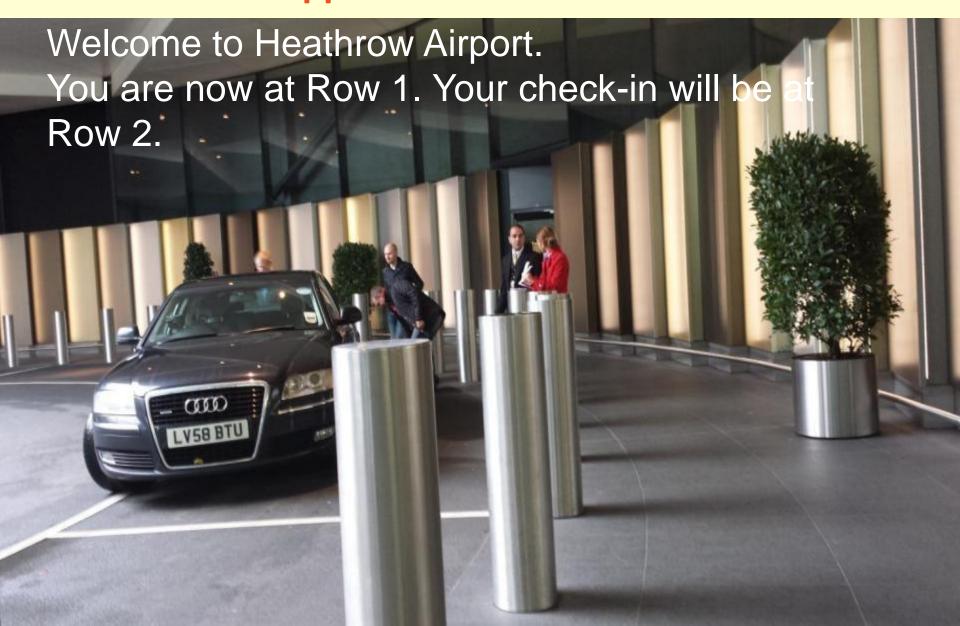
- Where I am?
- Where I need to go?
- How to get there?







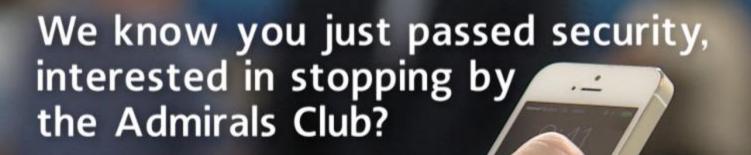
# Beacons can be used as a trigger to display information, launch a mobile app or transact with a server



Beacons can promote retail or services. In CPH, a restaurant offered passengers a free glass of wine for a meal purchase

"53 minutes to GATE open. Walk time from here is 7 minutes. Why not come in for a meal?"



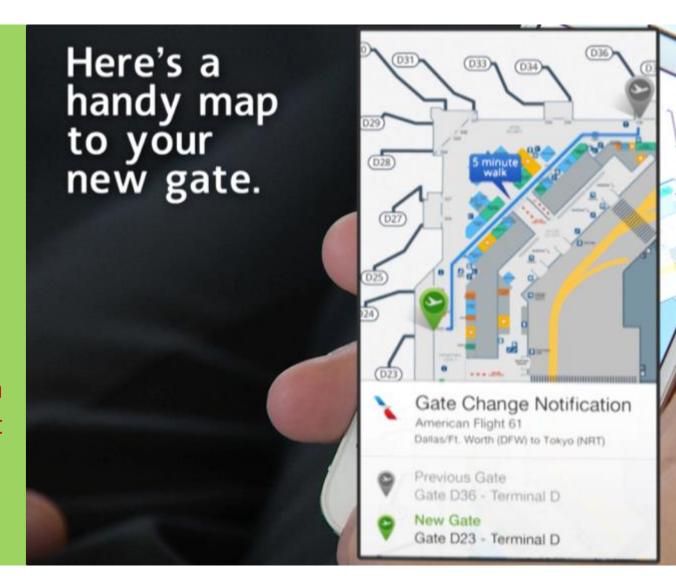


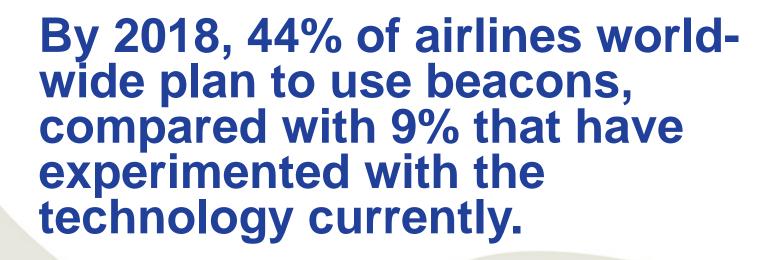
Beacons are location aware, and can be integrated with way finding.

They can also trigger interaction with application server for airport services.



- Enriched way finding experience for passengers
- Gate change event can use beacons to provide relative direction. The beacon registry can offer updated flight and date information





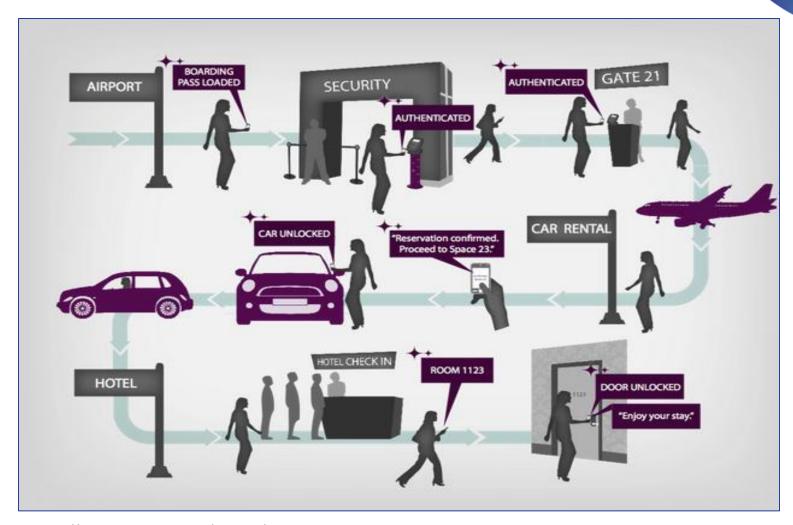




The Future Is Here?



### NFC, wallets and travel



http://www.cnet.com/news/hilton-to-replace-hotel-room-keys-with-smartphones



### Wall Street Journal – 15<sup>th</sup> July, 2015

"Technology Will Speed You Through the Airport of the Future"

"Car-parking robots, tracking beacons and facial recognition systems aim to make travel relaxing"



#### Screenshot from WJS online



From robots to facial recognition systems, airports are employing programs to provide efficient service to customers. WSJ's Scott McCartney and Tanya Rivero discuss. Photo: AP

#### Screenshot from WJS online



'Ray,' the car-parking robot at the Düsseldorf Airport, in Germany, delivers cars to the curb after passengers land and increased garage capacity by 32%. PHOTO: ANDREAS WIESE

Wearables with biometric authentication, drones, robots.... the list goes on....

Can Regulations catch up?





# THANK YOU