The Airline Baggage Tracking Challenge

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End to End Baggage, Project Coordinator

How many of you…
Flew here?
Checked a bag?
Had no issue?

About IATA

Mission and aims of IATA

REPRESENT, **LEAD** and **SERVE** the airline industry

- ↗ Promote safe and secure air services
- ↗ Provide means of collaboration
- ↗ Cooperate with ICAO and relevant organizations

Baggage
Industry figures

Baggage industry figures

4.08 billion scheduled passengers in 2017

5.57 Mishandled bags per 1000 passengers in 2017

70.5% Drop in rate of mishandled bags since 2007

Baggage industry figures

99.5%

In the right place at the right time!

Why do we want to track bags?

Why track bags?

Reduce global baggage mishandling

99.5% bags ☺

0.5% ☹ = 22.7 million bags

2.3 billion $US

Increase efficiency in baggage operations

4.08 billion 2017 pax

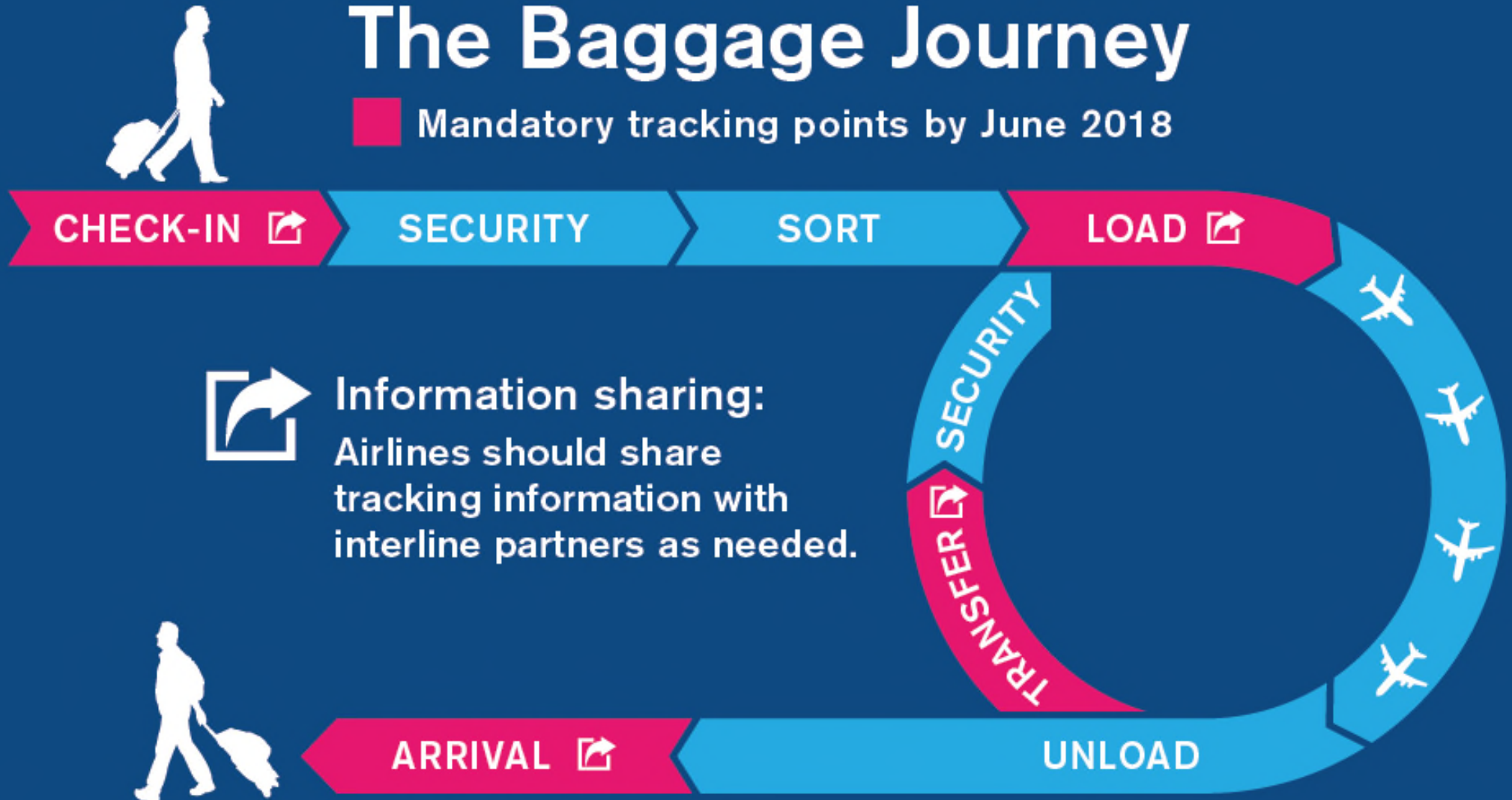
7.8 billion 2036 pax

Better passenger experience

Resolution 753

The Baggage Journey

Mandatory tracking points by June 2018



Information sharing:

Airlines should share tracking information with interline partners as needed.

Airlines for America®
We Connect the World

A4A RESOLUTION
#A4A30.53

IATA

IATA RESOLUTION
#IATA753

IATA's Resolution 753 journey

PSC(35) Dublin
October 2013

IATA Resolution 753 voted by all IATA member airlines

PSCRM(34)
June 2014

IATA Resolution 753 published in the PSCRM*

1 June 2018

IATA Resolution 753 becomes effective

** IATA Passenger Services Conference Resolutions Manual*

Where does RAIN RFID fit?

Alexandre de Juniac

IATA Director General and CEO

Where does RAIN RFID fit?

Member Airlines mandated IATA to meet customer expectations for **real time** tracking of baggage.

One year to develop a global standard for **RAIN RFID inlays in all** baggage tags by 2020.

Where are we now?

- Active sub-working group
  - Updated global standard (RP1740c)
  - Developing an implementation guide

- IATA End to End Baggage
  - Creating an industry global development plan on **HOW** to implement RAIN RFID efficiently

Usage of RAIN RFID

- Unique identity (TID)
- ID transmitted in the .M of the BSM/BPM
- Can identify bags in a point or in an area
- Read rate 99.5%
- Single or permanent use (tag less / EBTs)

Levels of RAIN RFID

INLAY ONLY

Inlay in baggage label
& pre encoded AFI

INLAY PLUS ASSOCIATION

RAIN RFID (TID) associated with 1d barcode (LPN) in the airline systems

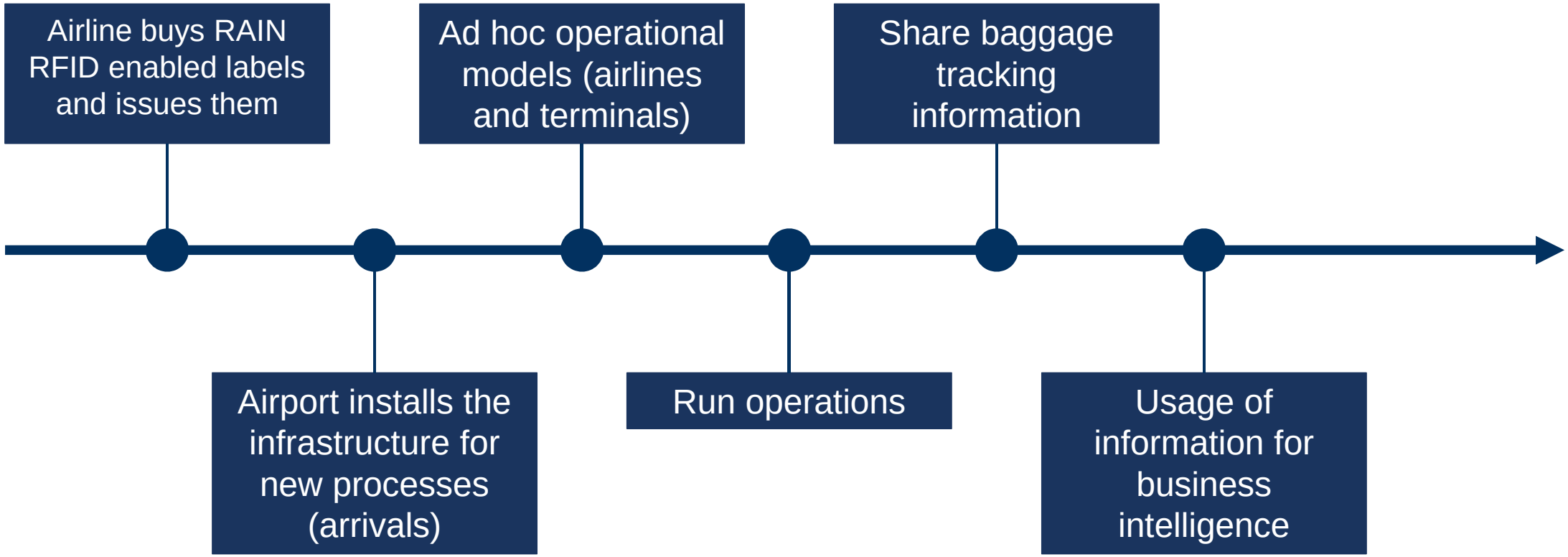
BASIC INLAY ENCODING

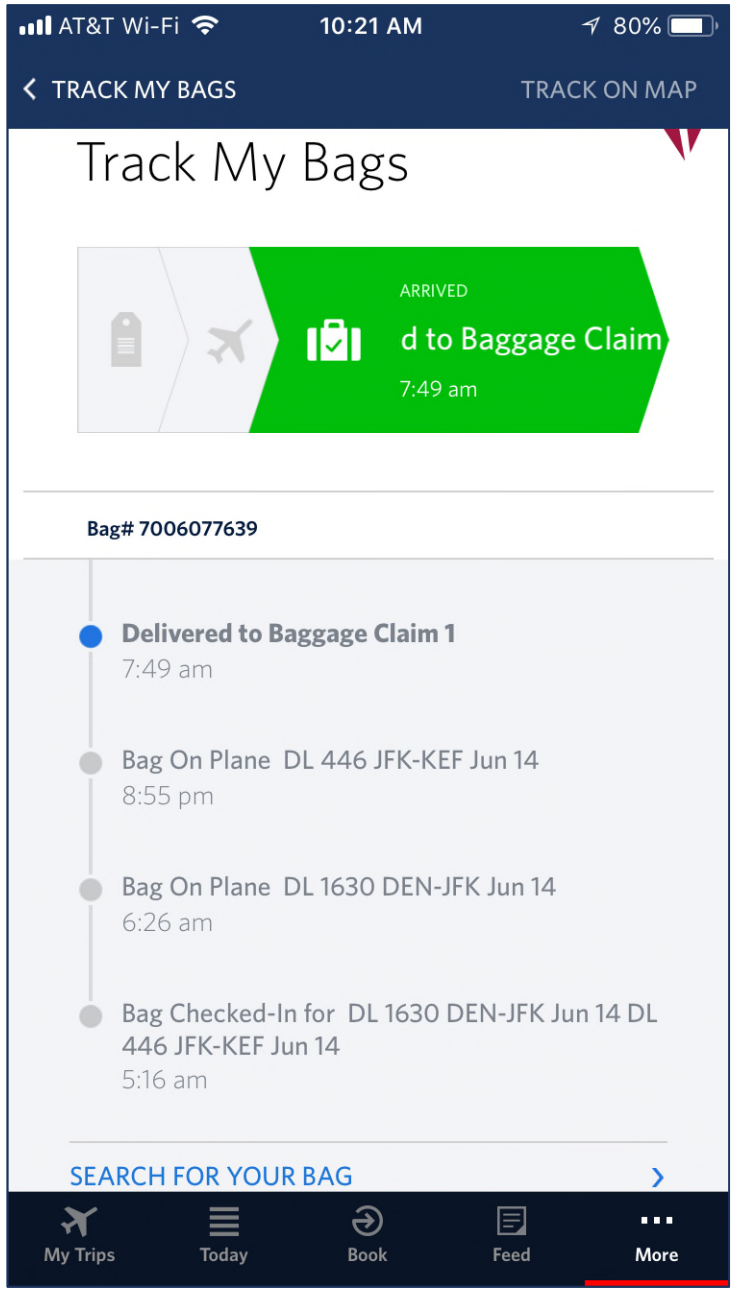
RAIN RFID inlay is encoded with
LPN
& date
& EPC memory

RICH INLAY ENCODING

RAIN RFID inlay is encoded with LPN
& date
& additional information
& EPC and user memory

Implementation outline

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80%
TRACK MY BAGS
TRACK ON MAP
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Bag# 7006077639
Delivered to Baggage Claim 1
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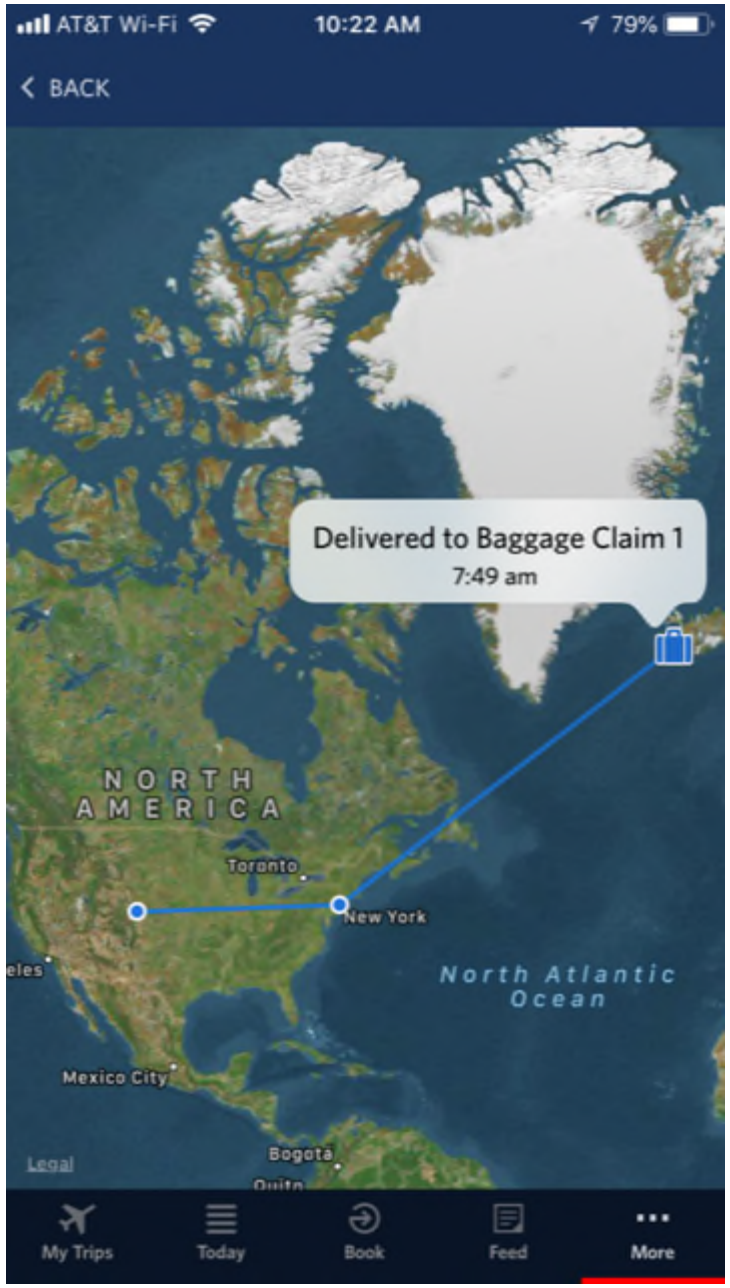
Bag On Plane DL 446 JFK-KEF Jun 14
8:55 pm
Bag On Plane DL 1630 DEN-JFK Jun 14
6:26 am
Bag Checked-In for DL 1630 DEN-JFK Jun 14 DL 446 JFK-KEF Jun 14
5:16 am
SEARCH FOR YOUR BAG
My Trips
Today
Book
Feed
More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Legal
My Trips
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AT&T Wi-Fi
10:22 AM
78%
BACK
Delivered to Baggage Claim 1
7:49 am
Legal
My Trips
Today
Book
Feed
More

Industry collaboration

- Operation models (airlines and terminals)
- Stakeholders
- Usage of information for business intelligence

RAIN RFID is coming to Baggage!

Questions?

Contact us at baggage@iata.org

Thank you

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