

Airline IT, Distribution and Mobile

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IT Strategy, distribution, and mobile developments



IT issues

- Tech savvy customers expect tech competent (travel supply) companies
- Airlines tend to have older legacy systems
- Move to IP required but costly. Transition very complex
- Localised silos within the company
 - How do we as a company effectively use and share data?
- IT issues with implementing strategies
 - E.g. price unbundling is difficult if GDS cannot sell unbundled products
- Communicating with partners
 - Especially within alliances, sharing data and securing data at the same time

Incompatible IT service providers throughout the industry (Philippines Airline)

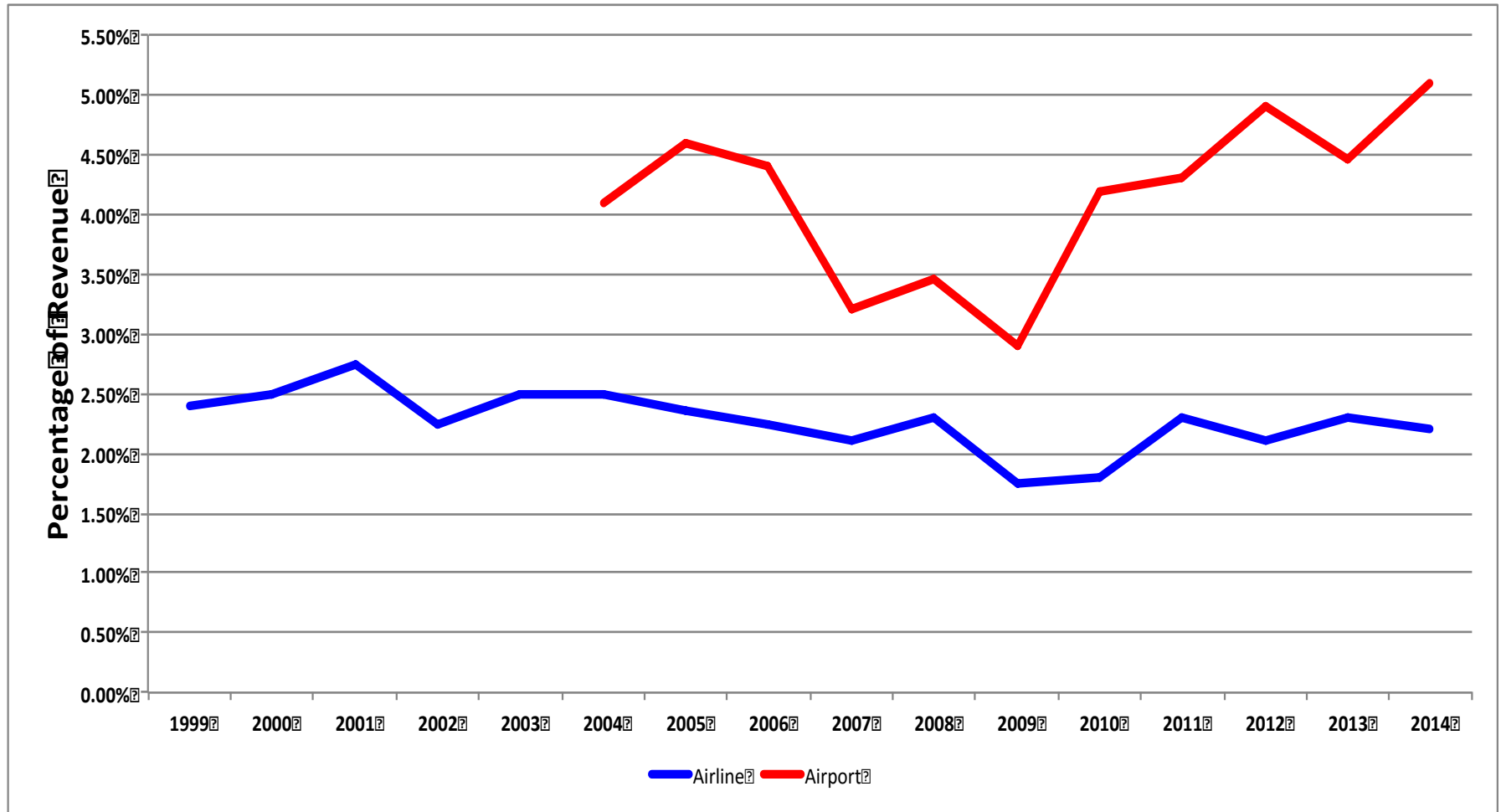
- On-line Reservations - by Plantigo (Amadeus)
- E-Ticketing – Sabre
- Frequent Fryer Programs – Mercator
- Revenue Accounting – Oracle
- Revenue Management – Another Supplier



Effective IT Strategy

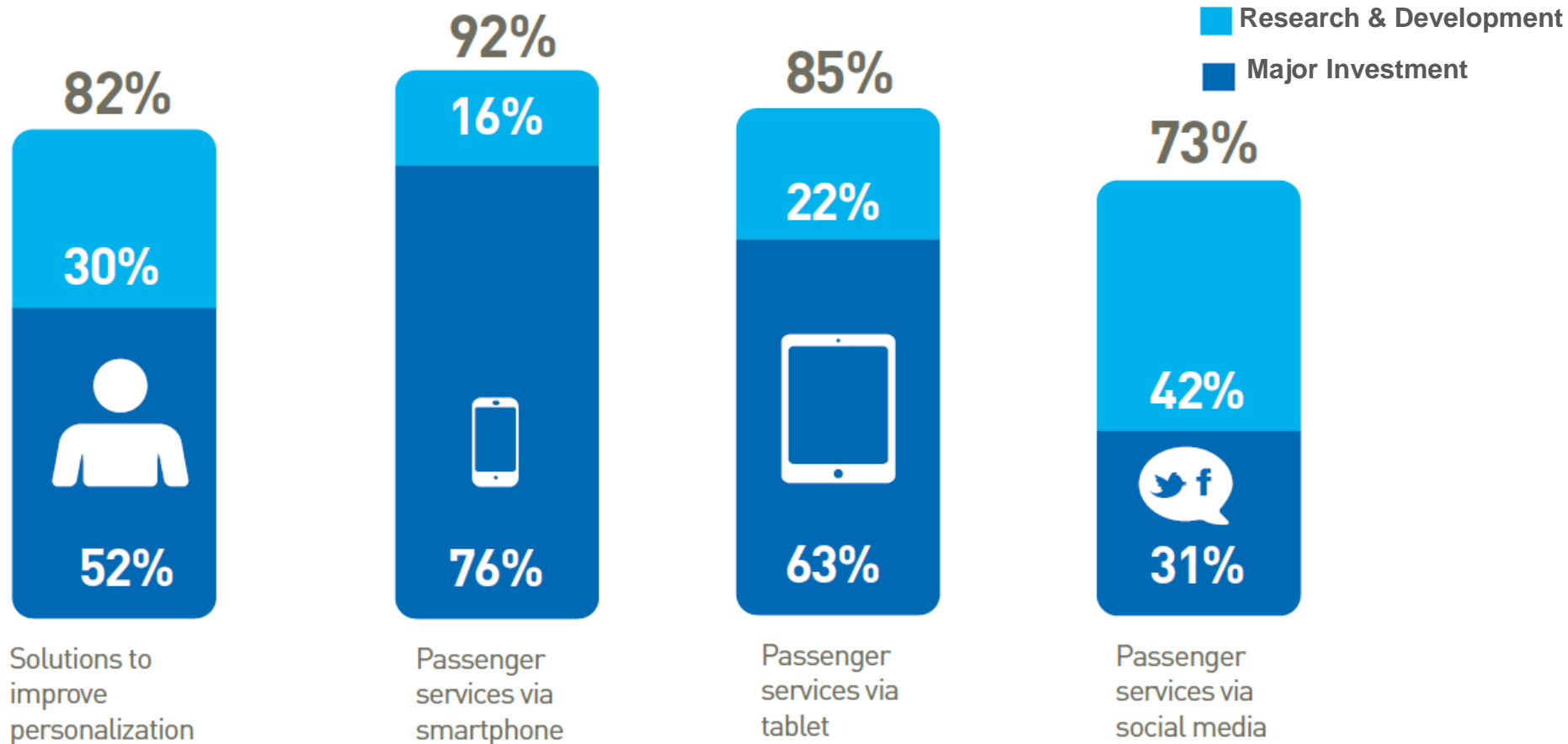
- Reduce in-house silos/complexity
- Outsource – especially reservations/sales; inventory; departure control,
 - e.g. BA/IB./AA to Altea (Amadeus)
- Maximise on-line sales
- Simplify passenger travel (SPT)
 - Electronic ticketing
 - Automated check-in (including baggage)
 - Common user self-service kiosks
 - Radio frequency identification baggage tags
- Improve customer relations management
- Employ middleware solutions for “seamless” travel service

Airline & Airport IT investment as a percentage of revenues



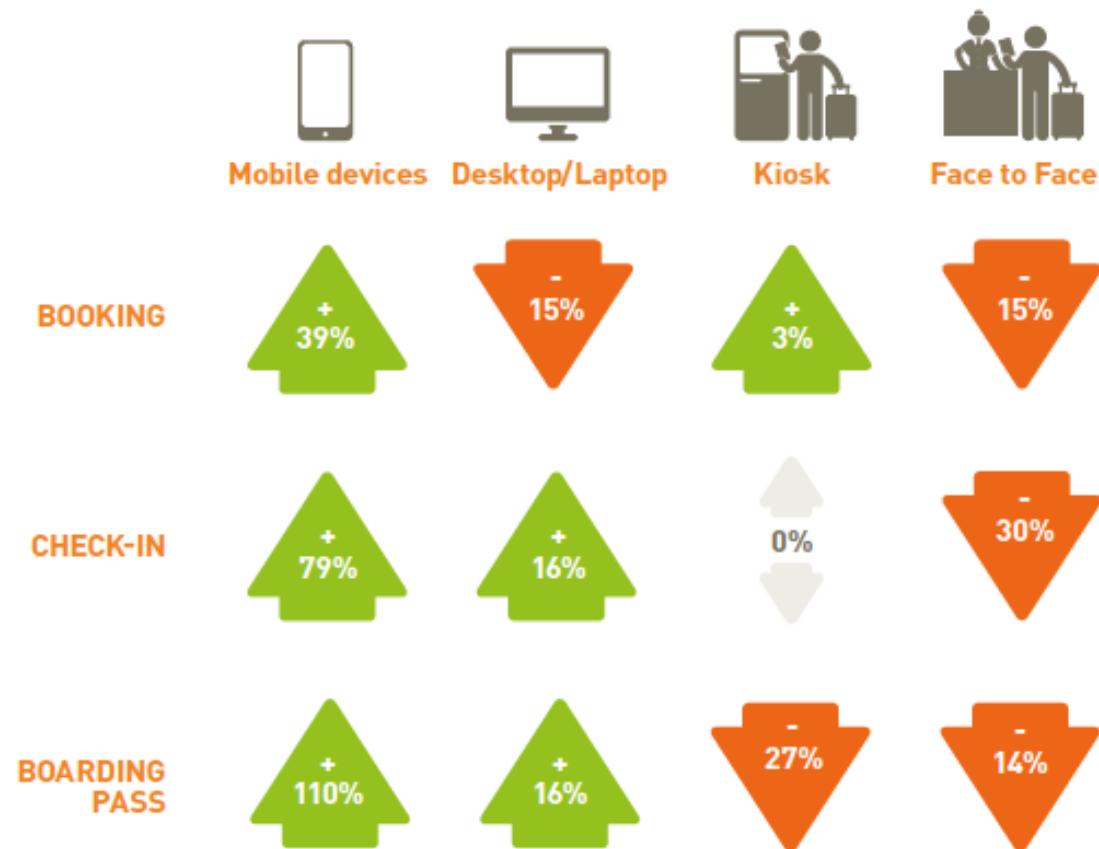
IT applications that Airlines are investing in - 2015

% of global airlines investing in:



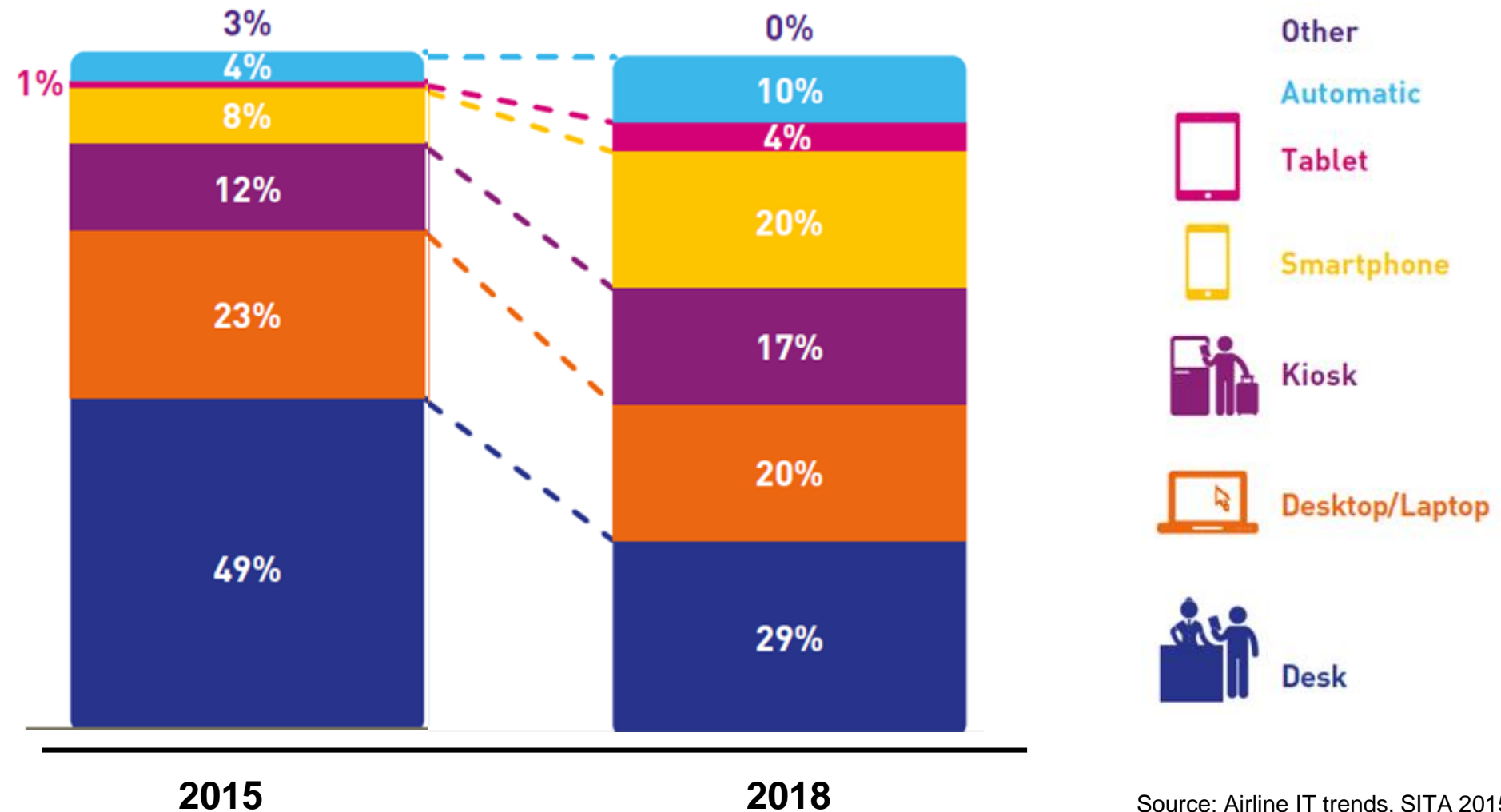
The Smart Phone is where the IT focus is right now

EXPECTED GROWTH RATES FOR BOOKING, CHECK-IN, BOARDING PASS IN 2016



Global Check-in Channel Mix (2015 data)

% of passengers by channel checking in



IT applications that Airlines are investing in – 2015

- Over the coming years the majority of airlines will offer WiFi
- Data (Movies) from onboard silo's can be streamed to hand held devices
- Mobile Apps will allow passengers to book destination services such as Taxi's, Restaurants
- IT tools in the form of Beacons located in the Airport which will use Bluetooth, WIFI, NFC to connect to passengers mobile device.
- By 2018 70% of airlines plan to keep passengers up to date with the location of their Baggage
- Airlines can be notified of the passenger's location in the airport, which will ensure
- On-Time departure. This will be essential when passengers are connecting from different flights

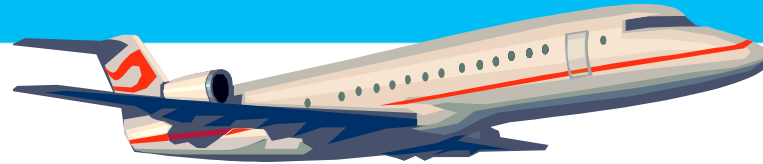
Distribution



Distribution costs falling

- Direct distribution
 - Airlines are pushing sales towards direct sales on web
 - Airlines selling tickets on their website incur no costs
- Reducing travel agency commissions
 - Airlines are reducing or removing agents fees (which had been up to 12% of fares)
- Airlines pushing GDSs to lower fees
 - GDSs have introduced “low cost” reduced functionality solution

Ways an airline distributes/sells its product



Direct Channels



**Airline
Website**



**Airline
Reservations**



**Airport or
CTO**

Powered by airline

Indirect Channels

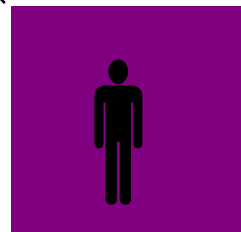


Travel Agent



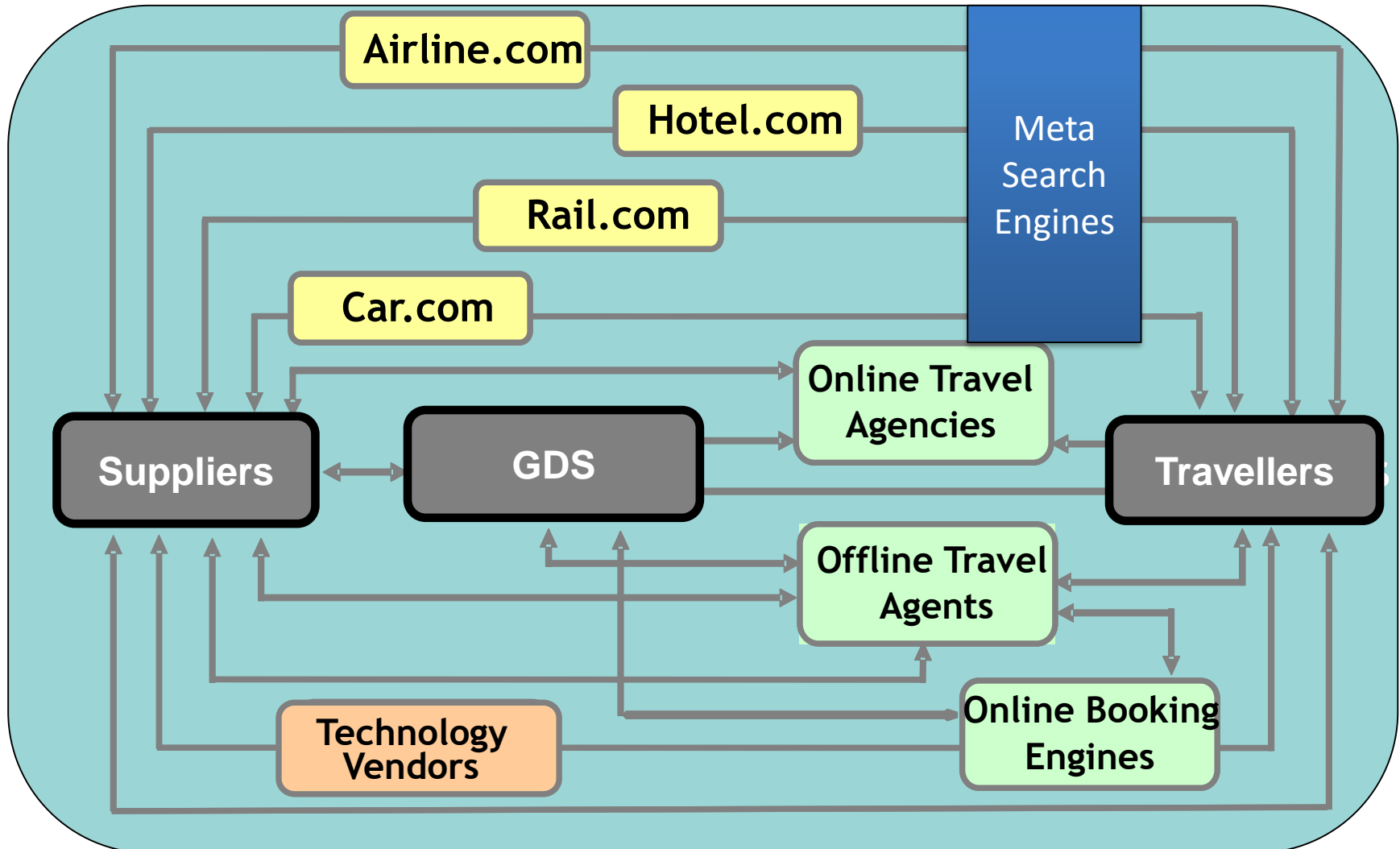
**Online Travel
Agencies**

Powered by GDS

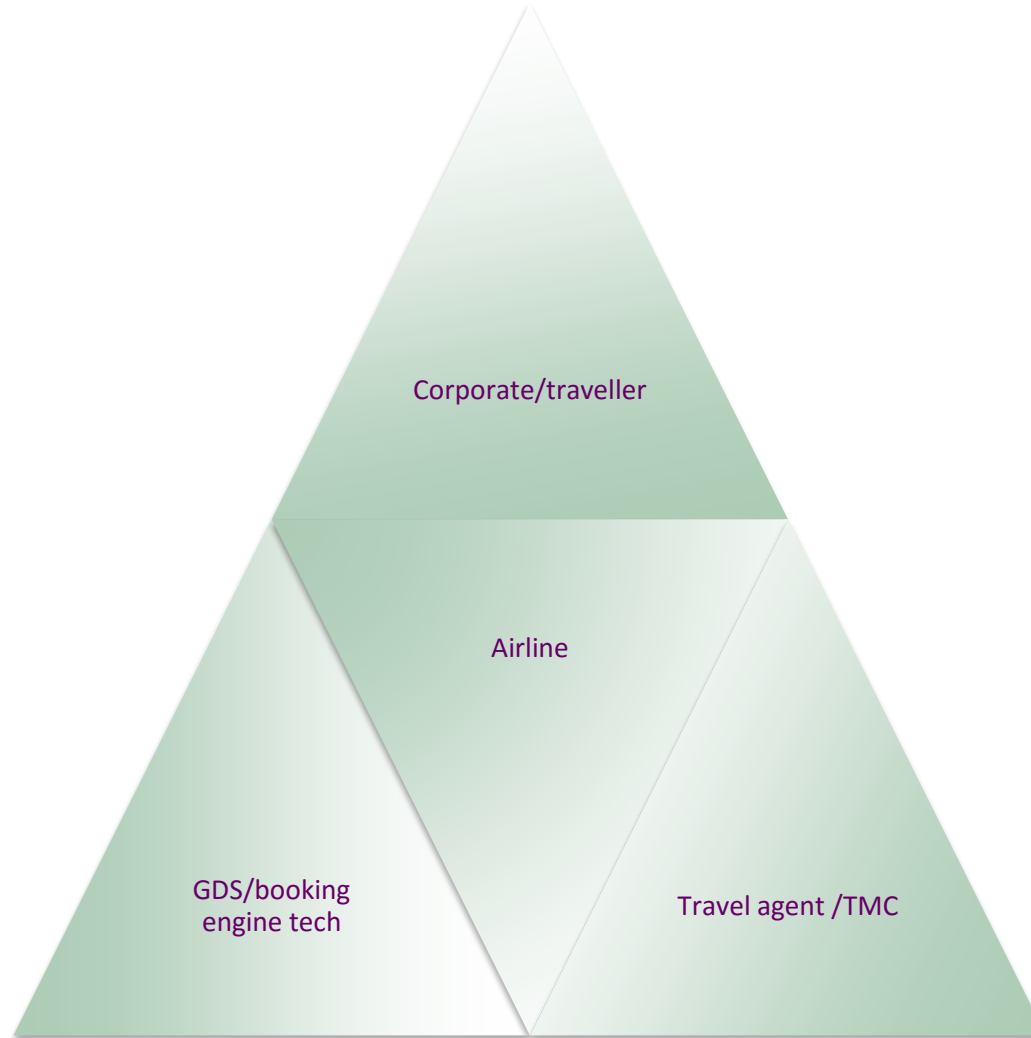


Customer

Distribution Channels



A tense pyramid



Detail on GDS

- Schedules, prices and availability are provided around the world in real time, 24/7;
- GDS participation facilitates sales via online travel agencies;
- Over 500 airlines are participants on Galileo, Amadeus or Sabre + car; hotel; rail and cruise;
- Subscribers access the GDS for free; airlines pay fees for using the infrastructure, technology and global reach of the GDS
- GDS are NOT Global – some airlines are not subscribers and not all content is available to all GDS companies.
- **For a GDS access to full content (the inventory of the airlines) is a vital part of their business.**
- Many low cost carriers are listed on a GDS
 - 15% of easyJet seats sold to business travellers are transacted over GDS (annual report 2009)

Factors affecting distribution strategy

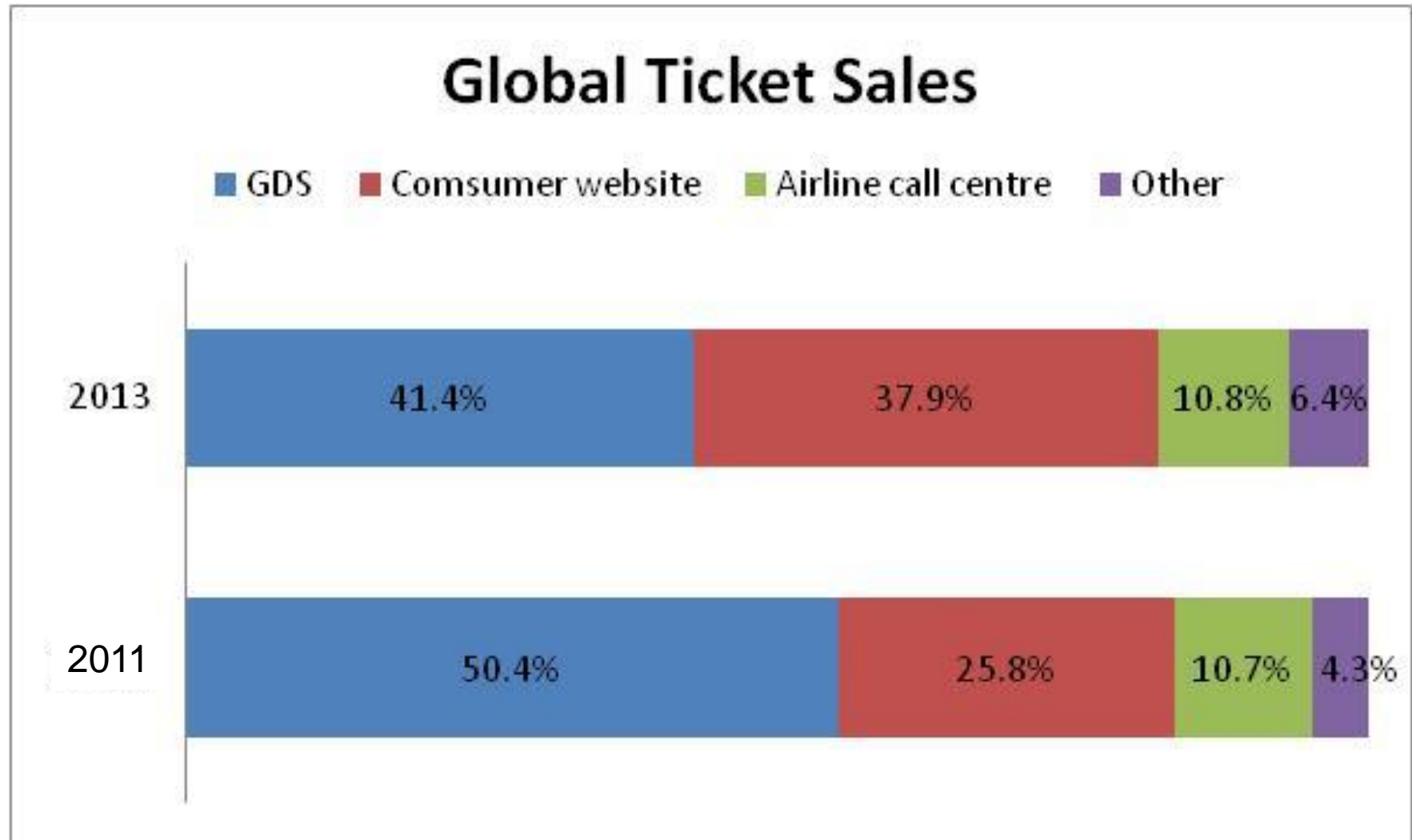
- Airlines drive to reduce costs
 - Distribution has been around 20% of operating costs
 - BA's selling costs – 15% in 1999 reduced to 4% in 2009
 - BA's selling costs – £33.27 per passenger in 1999, £11.14 in 2009
 - EasyJet's selling costs - £1.87 (advertising, merchant fees and commissions) in 2012
- Airlines wishing to have more direct contact with their clients
- Technology has provided the possibility of a direct channel between the airline and its customers
- Disintermediation - as airlines doubt the ability of agents to influence customers' choice – especially in home markets
- GDSs fees
- Large corporates are more professional in the way they purchase travel products

Airline Business Survey in 2010

Travel Distribution: Continuous shift in distribution channels



Continuing channel shift



The distribution value chain

- Airlines spend \$5bn per annum on GDS fees
- Cost as % of ticket prices
 - GDS 8 - 11%
 - Travel Agency 1 - 2%
 - Mercantile fee 2 - 3%
 - "typical cost" for an airline accepting a credit card charge is \$7-10 per ticket (Airline Business, Feb 2010)

Source: UATP(Universal Air Travel Plan), Airline Business July 2005 and July 2006

Average TSP costs per passenger (2012)

- Turkish \$22.35
- Emirates \$36.42
- BA \$19.65
- EasyJet \$ 1.87
- Ryanair \$ 2.05

Why airlines want traffic on home website

- 'Ownership of customer'
- Promote brand
- Up-sell to passenger
 - Ancillary revenues cannot be easily handled on GDS
- Maximize yield;
- Cut out intermediaries;
- 'Cheapest' form of distribution
- BUT NEEDS TO DRIVE TRAFFIC TOWARDS WEBSITE

Airline strategy

- In home markets
 - Drive business to website
- Where network is not dominant
 - Continue to work with Travel Management Companies and GDS but....
 - ...push costs of GDS to TMC and ultimately the customer

GDS New Fee Structures

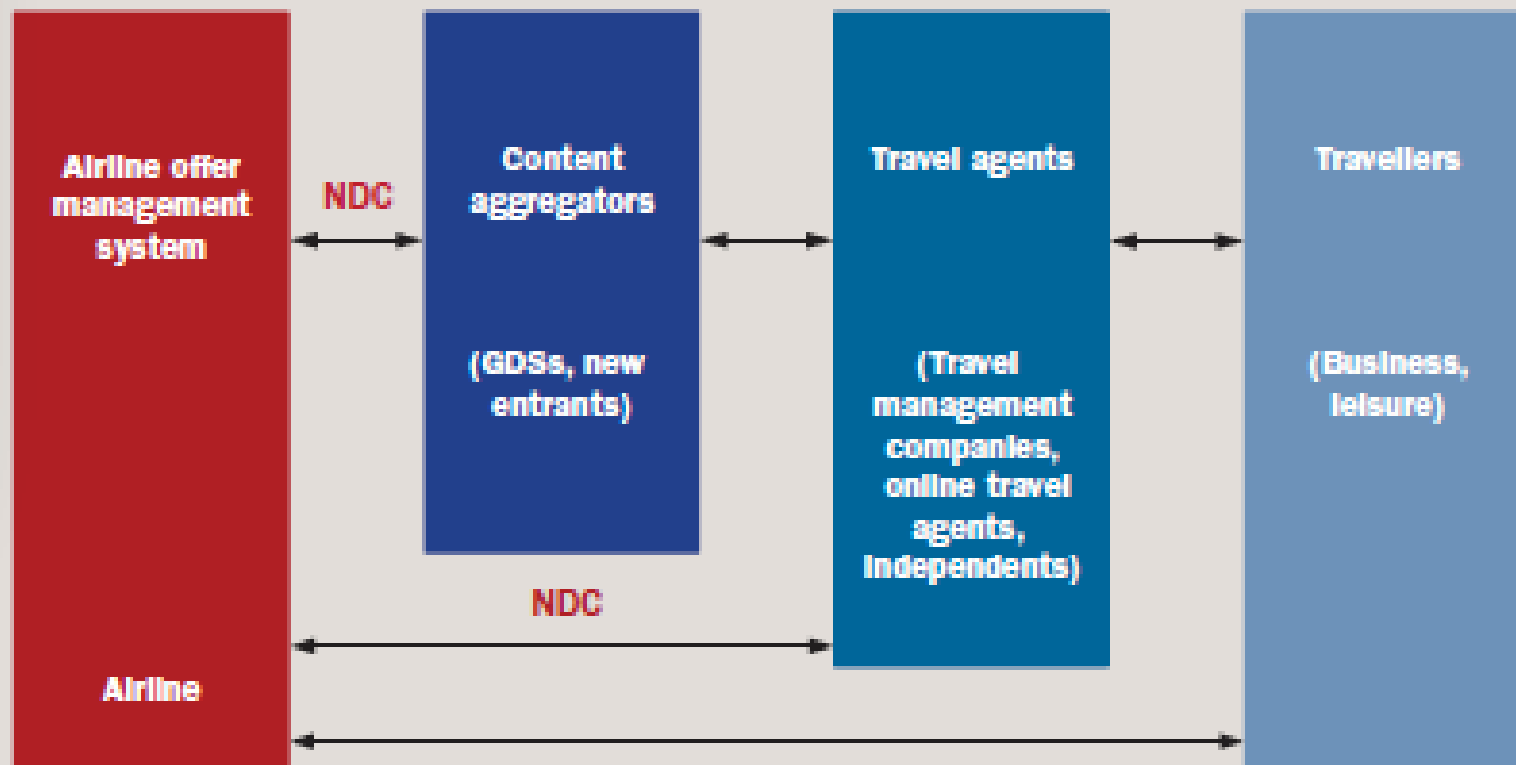
- In US GDSs were deregulated in 2003
- Sabre, Travelport and Amadeus have full content agreements with all of the US majors
 - Agents can “opt in” to work with airline’s preferred GDS
 - Agents can “opt out” and not use airline’s preferred GDS
 - pay the airline a \$3.50 per segment surcharge for any bookings
- Full content deals in Europe
 - Lufthansa finalised a deal with Amadeus in Jan 2010 after two years negotiation
 - GDS secures access to full content for TMC in exchange for lower prices for GDS service
 - Airline passes on €4.90 per sector to TMC.
- TMCs still need access to full content so will pass on any additional costs to travellers in service charges

IATA's New Distribution Capability (NDC)

- IATA are currently (2014/15) piloting a new XML language based distribution capability set up the airlines.
 - The obvious intention is to by-pass GDSs and to add the ability to take bookings on ancillary services which cannot be easily done through the GDSs.
 - Essentially booking engines are coming full circle, back to when they original CRSs were established by airlines.
- The concerns of many are data privacy, tailored (ie. not transparent and the same for all buyers) offers, and inability to easily compare rates.

IATA's New Distribution Capability (NDC)

IATA'S NDC TRANSACTION FLOW PLAN



SOURCE: IATA

Value to airline from 'new' intermediaries



- Drive new and higher volumes of web traffic to airline.com
- Obtain and sell it to airline at lower rate that it can acquire itself
- Increase brand exposure
- Send more qualified traffic

airline.com

Google is key...

Google

cheap flights to zurich

Search: ☒ the web ☐ pages from the UK

Search Advanced Search Preferences

Keyword buying on key terms

Web

Results 1 - 10 of about 86,900 for [cheap flights to zurich](#).

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Search for cheap flights to Zurich with Skyscanner. The fastest way to find the cheapest low cost airline prices. Save time and money on budget, ...
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My Vacations - UK based online travel agent to book cheap flight, travel insurance, search for hotel, find latest deals on package holidays and city break, ...
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Keywords to get top placement in Yahoo or Google at approx \$0.60 to \$1 USD per click

Natural searches and results come up for free but depend on content of site relevant to search algorithm

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We search 500 Airlines to find the cheapest flights to Zurich!
Opodo.co.uk/Flights/Zurich

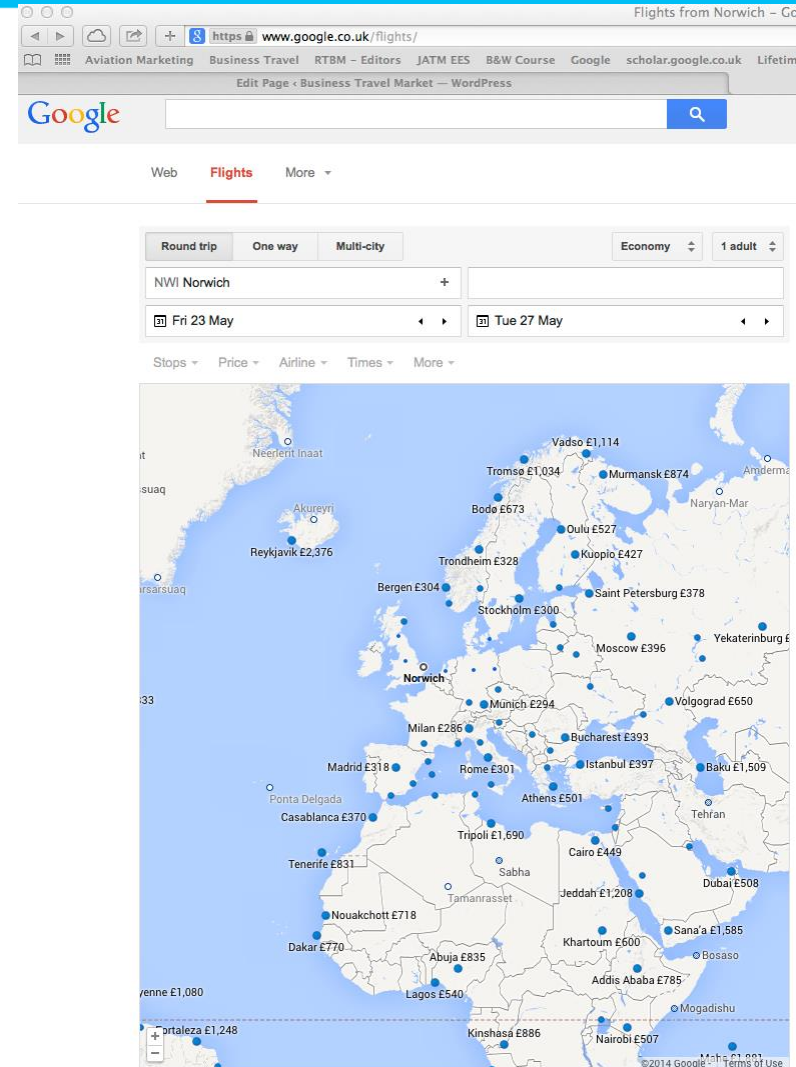
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Source: Andrew Wong, Trip Advisor

Google to enter res market?

- In June 2010, Google purchased ITA, a flight information software firm.
- ITA was one of the two GDS bypass companies that lead to the GDSs revising their remuneration systems in 2006/7
- Google's dominance of the online search market may lead to bias in ITA's listings....

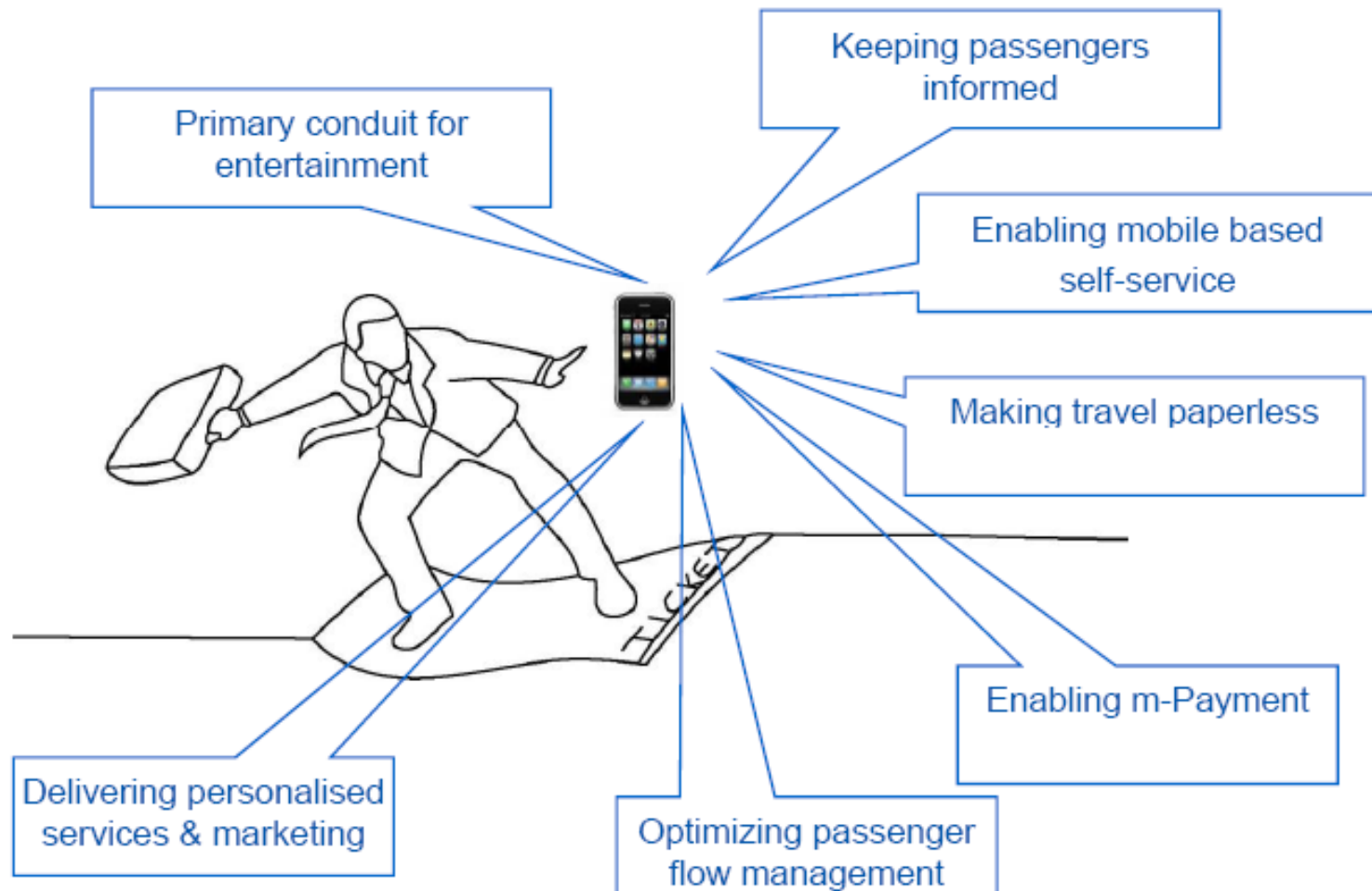


Mobile apps

- Out of the 7 billion people on the planet 4.8 billion have a mobile and only 4.2 billion own a toothbrush!!

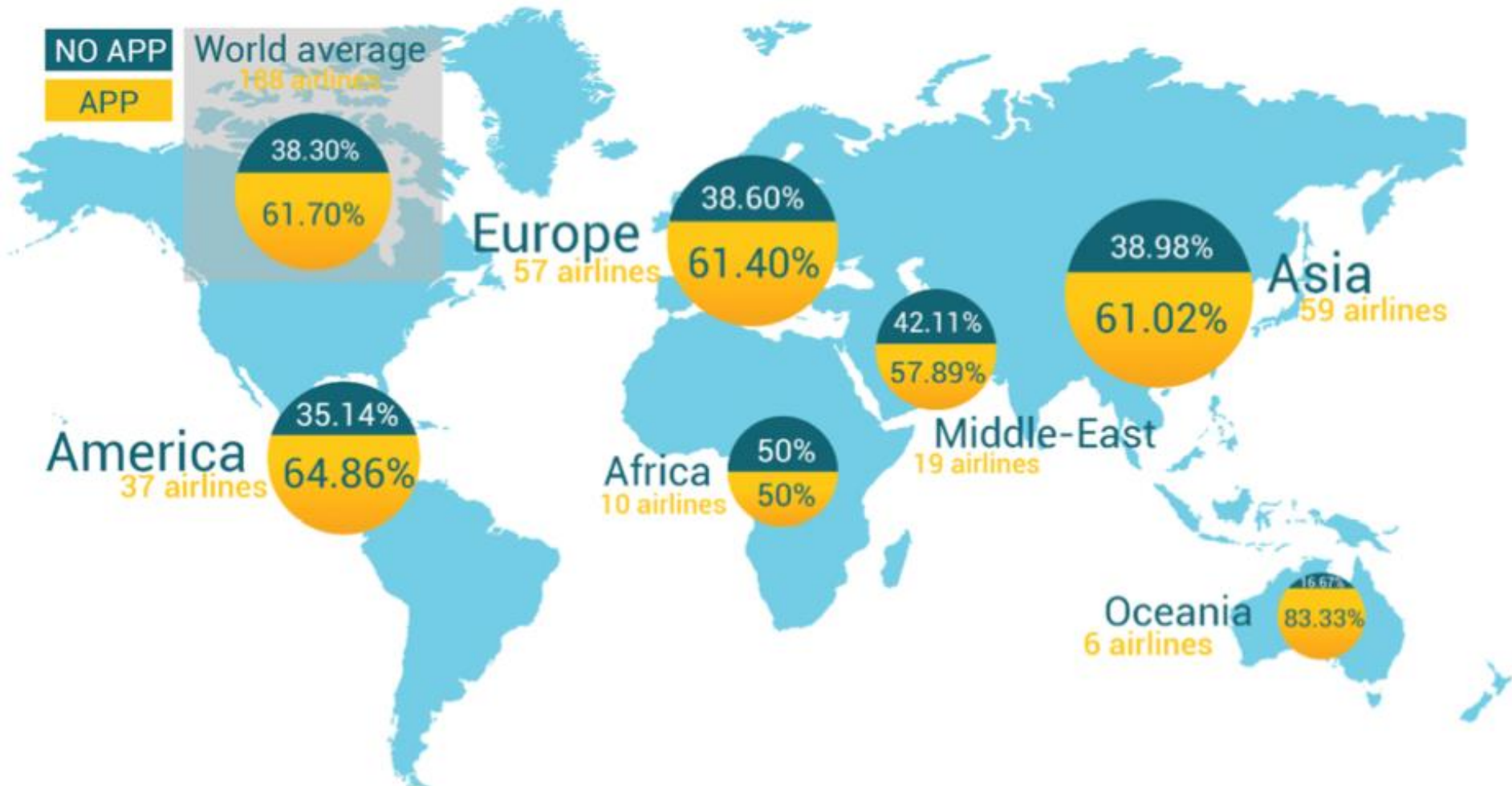


Mobile devices make it easier for travellers to go outside policy

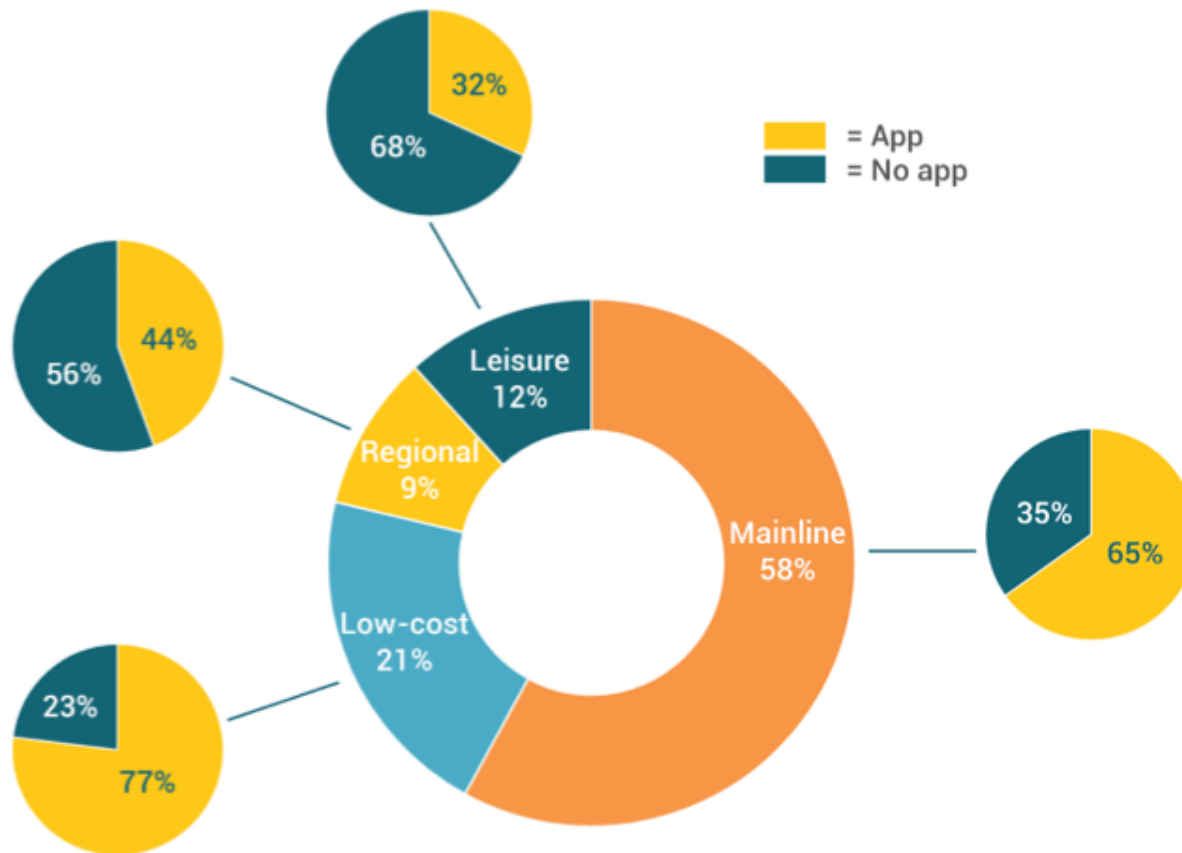


And harder to reconcile T&E

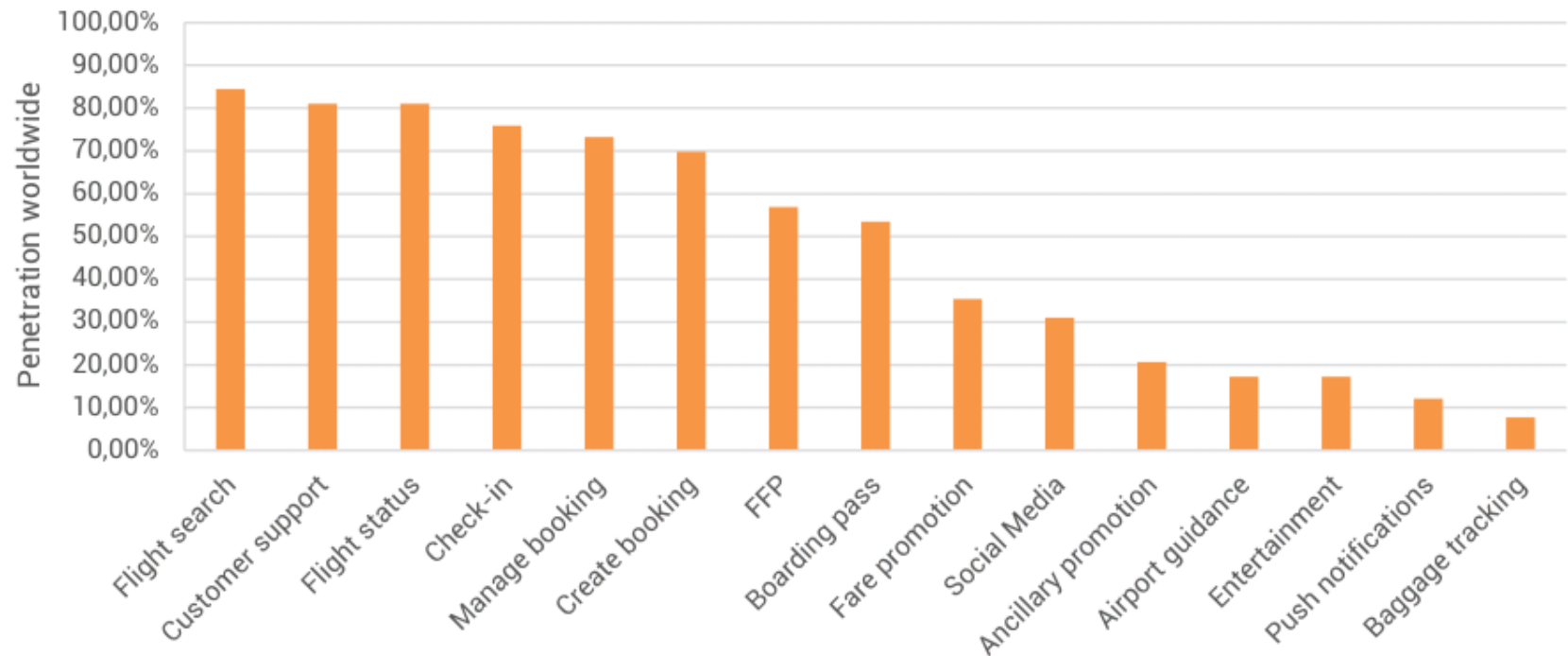
Mobile app adoption by airlines



Mobile app penetration by airline type worldwide



Features offer on mobile apps by Top 200 airlines worldwide



Features offered on apps by largest 200 airlines

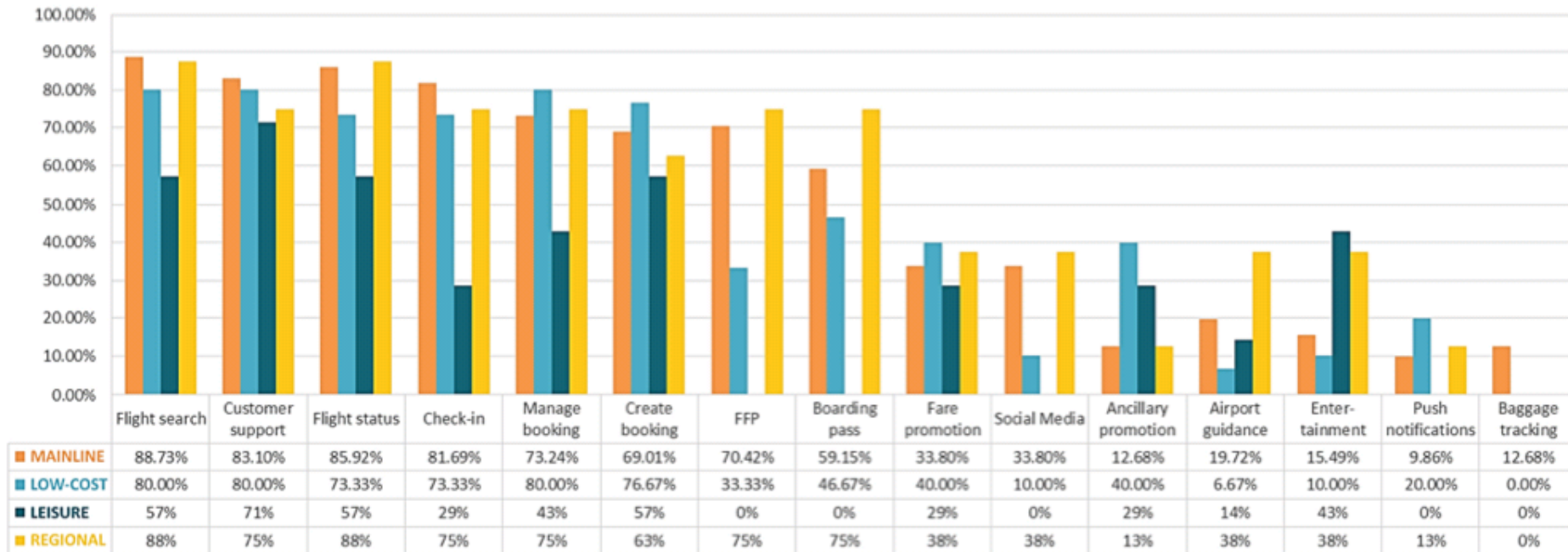
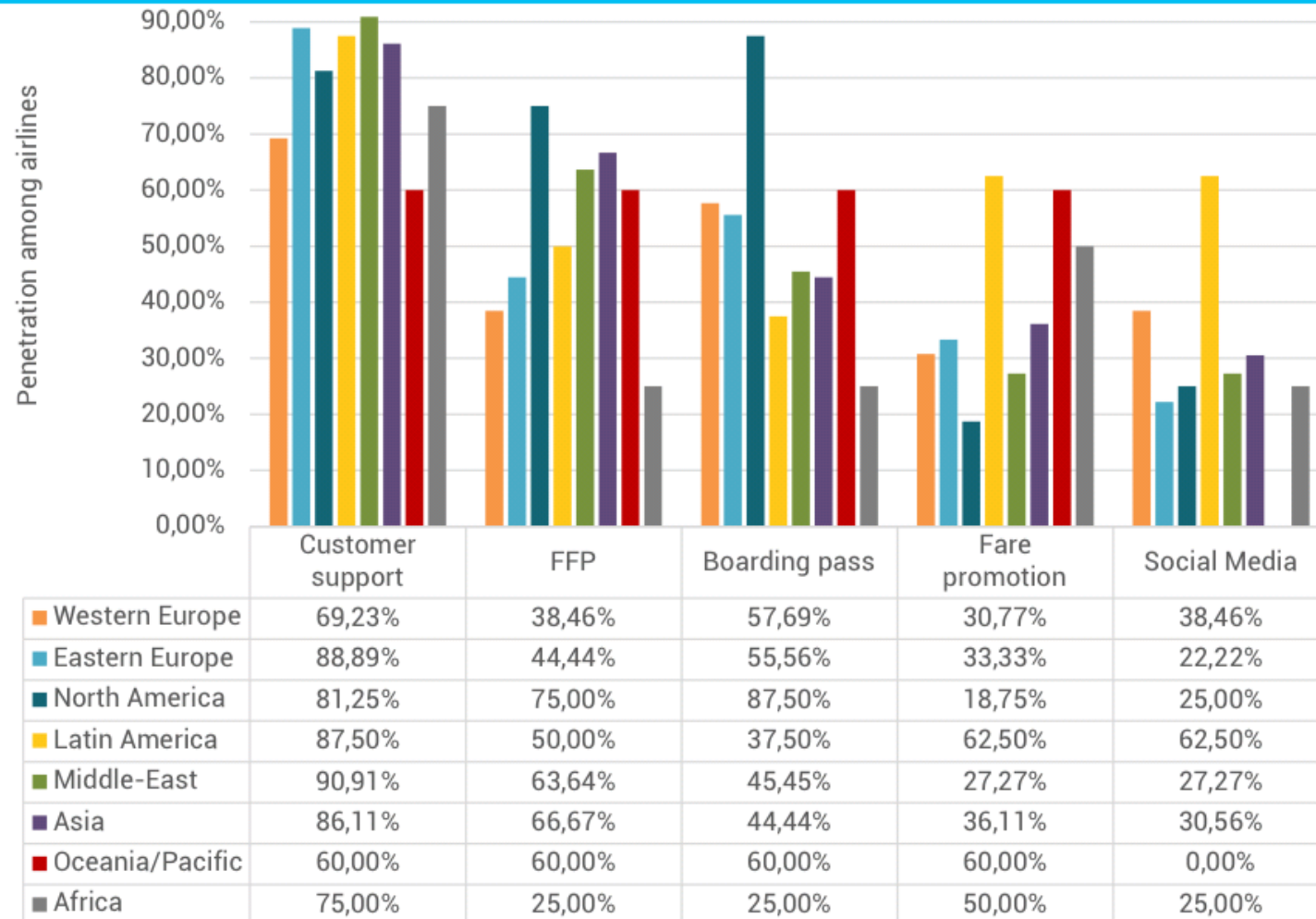


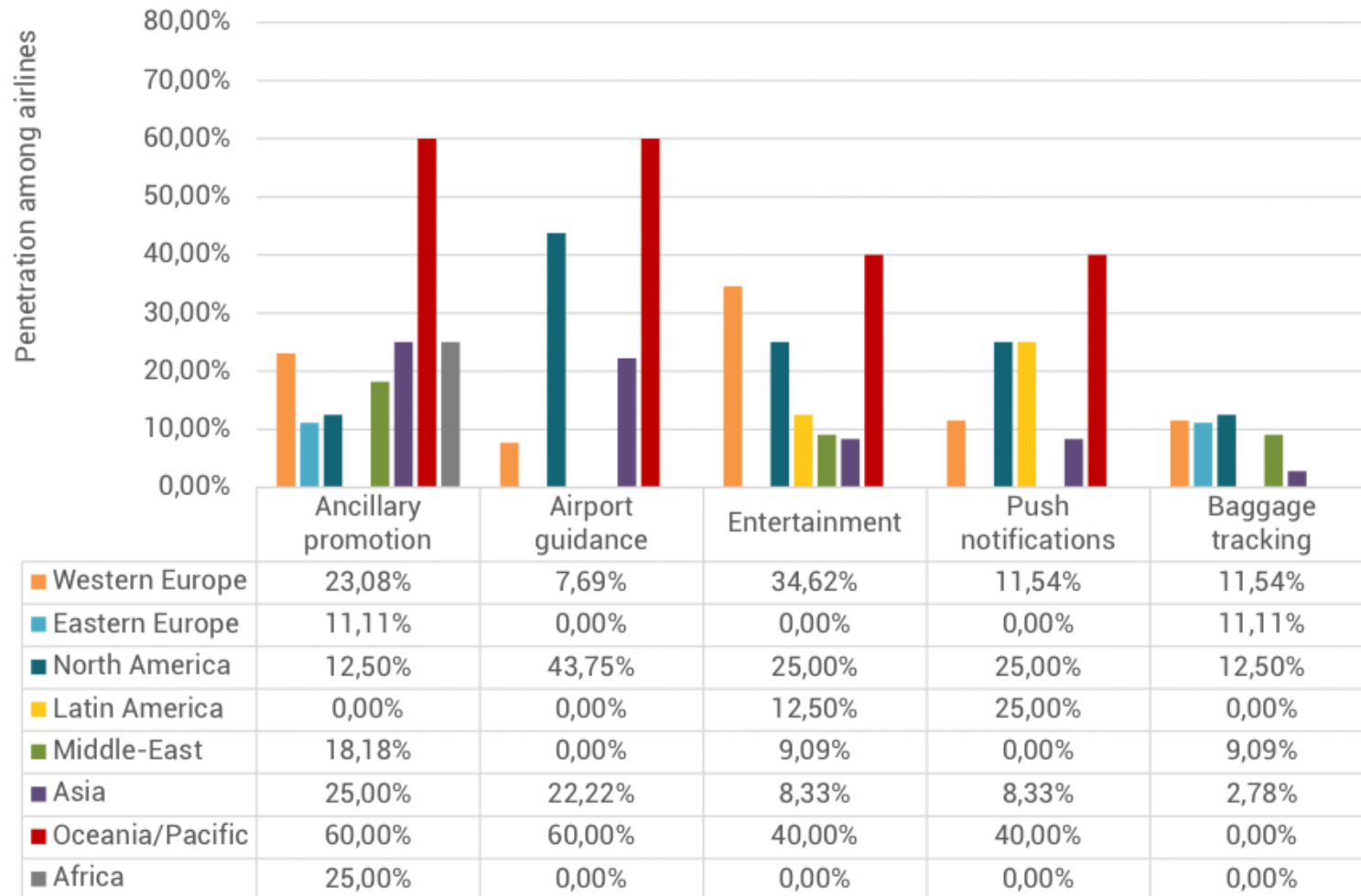
Figure 3.5: Feature penetration per airline class

Apps: High penetration features per region



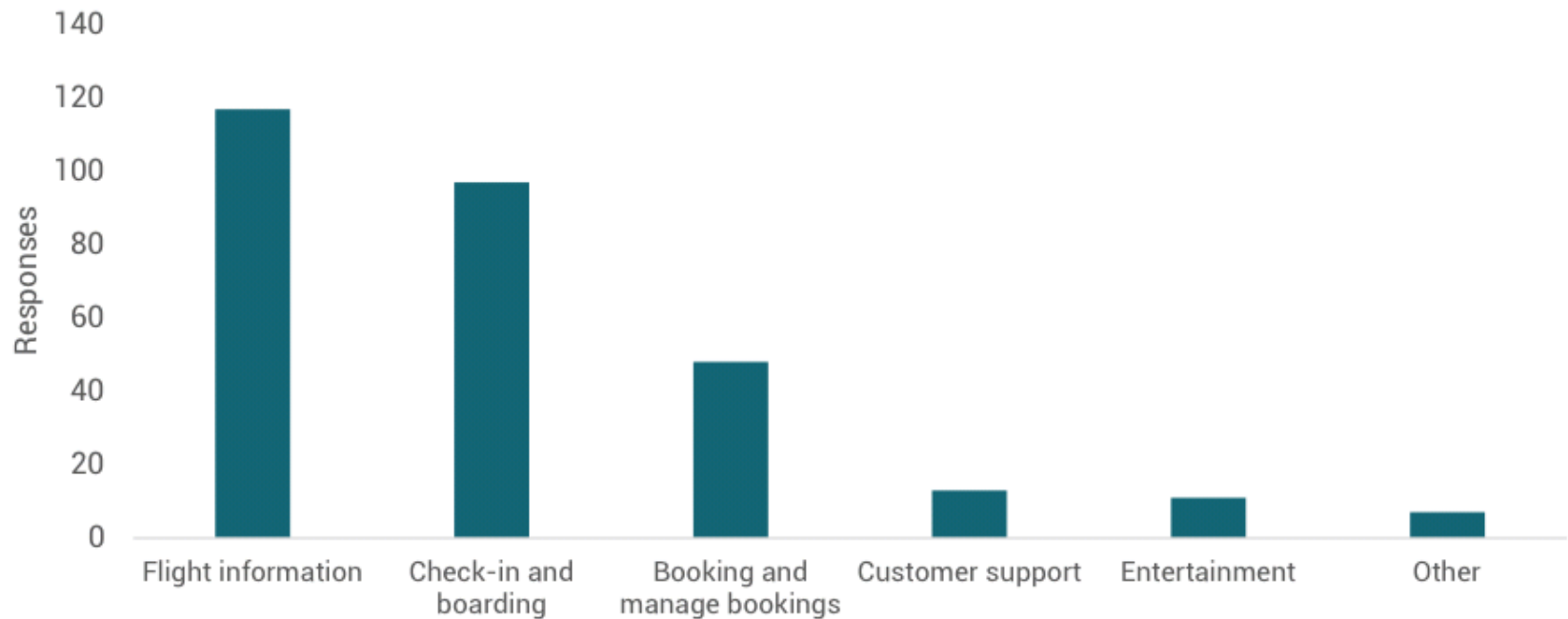
Source: Cranfield, Vermeij, 2014. Survey of top 200 airlines worldwide, and survey of 200 passengers

Apps: Low penetration features per region



Source: Cranfield, Vermeij, 2014. Survey of top 200 airlines worldwide, and survey of 200 passengers

Main feature usage on mobile apps by passengers



Thank you!

