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### Presentaciones Día del Inversor

Como continuación del hecho relevante de fecha 16 de marzo de 2016 (número de registro 236333) referido a la celebración del Día del Inversor el día 2 de junio de 2016, se adjuntan las presentaciones de dicho evento (información solo disponible en inglés).

En Madrid, a 2 de junio de 2016.

**Amadeus IT Holding, S.A.**



**Shaping  
the future**

LONDON 2016 INVESTOR DAY

At the heart of travel



# Amadeus Technology

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June 2016

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# Introducing the 'New Normal'

The power shifts to end-users and drives our technology agenda

Cloud

Real-time analytics and big data

API

Security and compliance

Traveller power

## End-user centric travel

- Lack of loyalty in reservation business
- Strong emphasis on level of service (availability & speed)

### Our customers want:

- 100% availability
- Sub-second response times end-to-end
- Compliance and security requirements

## Personalisation is power

- Our customers are fixed-cost businesses driven by top line growth
- Merchandising & personalisation can drive this growth

### Our customers want:

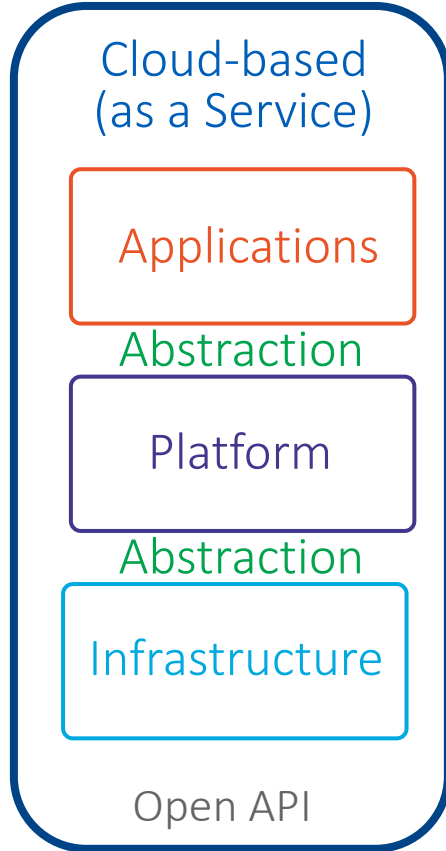
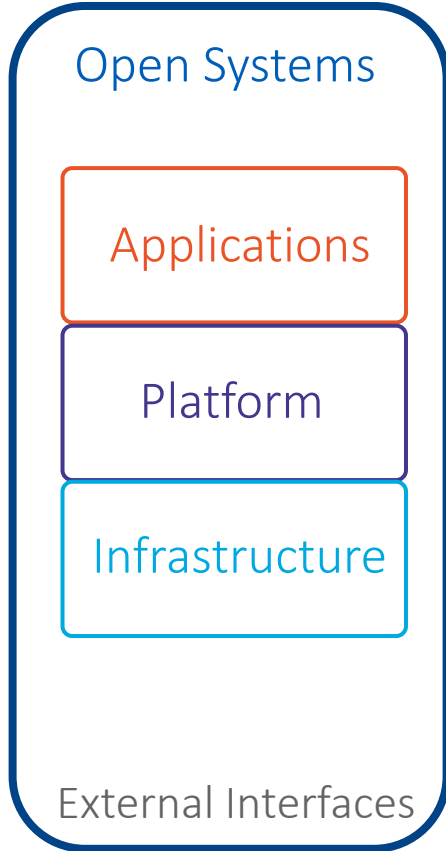
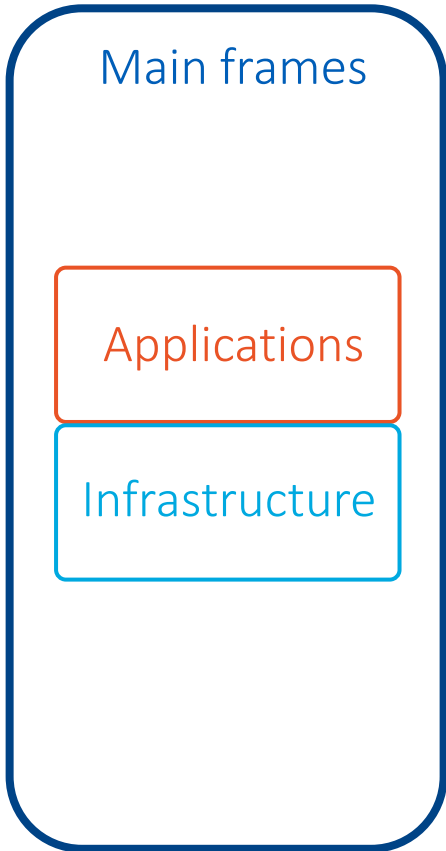
- Deeper understanding of end-user behaviour
- Massively reduced deployment time of new services / offerings

## Customisation and openness

### Our customers want:

- Massively reduced deployment time of new services / offerings
- Integration with best-of-breeds applications

# Toward cloud-based service architecture



# Amadeus technology evolves with major industry shifts

## 1. IT industry introduces new technology

Web technology, databases, cloud, big data...

## 2. Amadeus builds technology roadmap

The new technology is mature and scalable enough with support from mainstream vendors

## 3. Amadeus develops business & products

We deliver new products to support growth & business opportunities

### WEB TECHNOLOGY

- 1994:** first web browser (Netscape)
- 1996:** Amadeus creates Web unit and starts development
- 2000:** Amadeus launches eRetail, our first eCommerce platform for airlines and web-based front office

### OPEN SYSTEMS

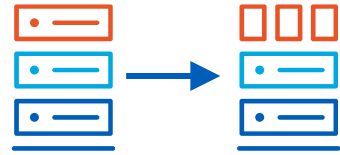
- 1992:** Oracle true relational database
- 1998:** Amadeus launches first Open Systems project
- 2004:** Amadeus launches Altéa, our airline IT business on Open Systems

### CLOUD and BIG DATA

- 2006:** Amazon Web Services and Google MapReduce – Hadoop
- 2012:** Amadeus launches Cloud initiative
- 2015:** Amadeus launches Amadeus Cloud Services

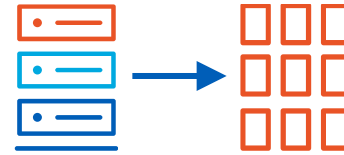
# Amadeus Cloud Services: the building blocks

Enabling  
redundancy



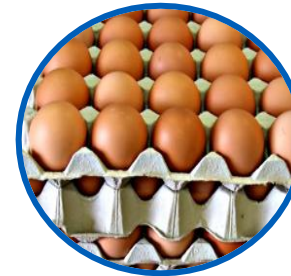
**Virtualisation:** One physical server / network / storage can run several applications in **isolated** environments. Typical provider: **VMware, KVM** (open source)

+



**Grid deployment:** One single application is distributed on (a lot of) **small physical servers**. Typical configuration: **Google, Amazon, ...**

Ensuring  
isolation



Scaling up  
automation,  
monitoring  
and recovery  
systems



From manual  
monitoring and  
recovery...

... to automated  
monitoring and  
recovery



# Amadeus Airline Cloud Availability

Helps to increase airline revenues by capturing every sales opportunity



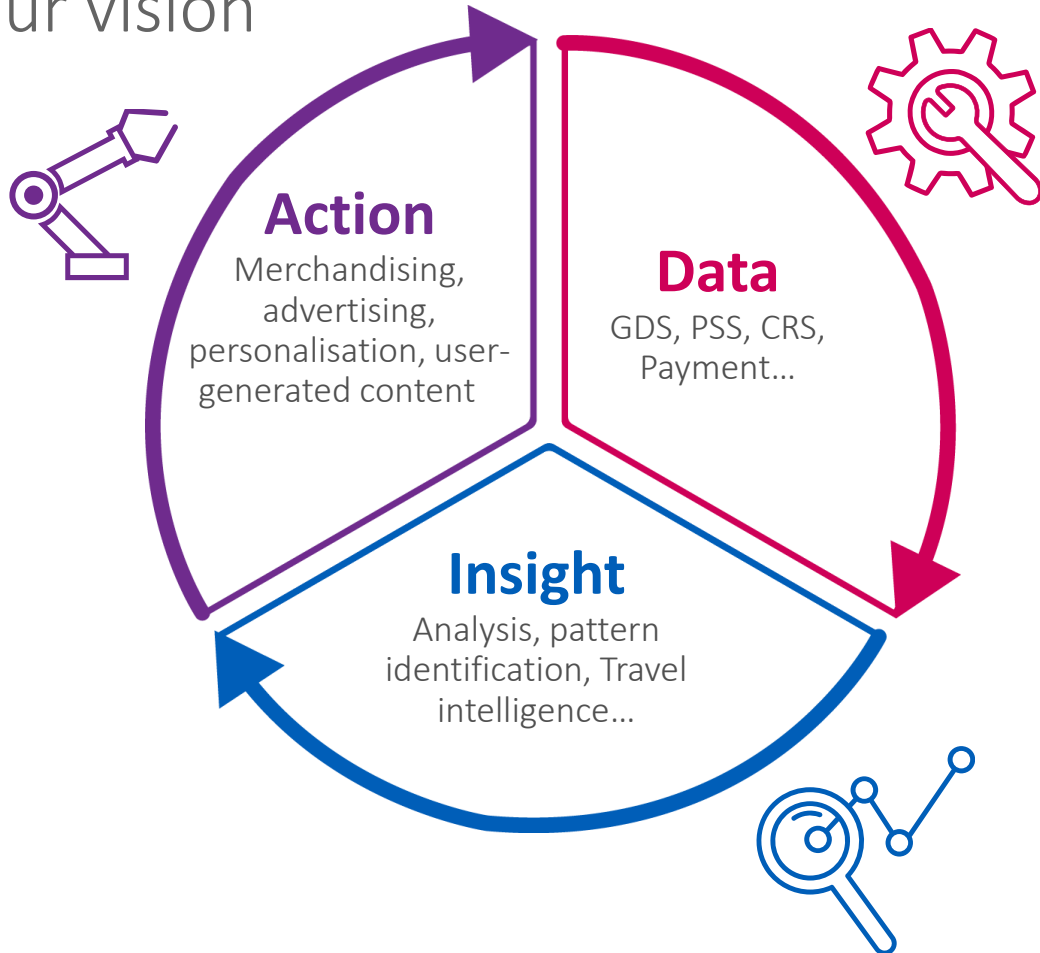
Amadeus Airline Cloud Availability accurately applies airlines' sophisticated revenue management strategies across Shopping platforms in real-time, thereby ensuring precise and consistent product offers to every single search demand



# Big data: Data driven transactions – Travel Intelligence

Linking all players, all events, all channels – From ‘Search’ to ‘Ask’

Our vision



## Big volumes

All sources: transactions data, image, text ...

## Distributed databases

Across systems and data centres: with data integrity and consistency

## Complex document management

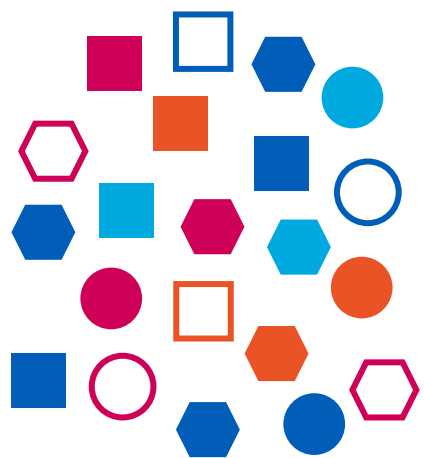
Non-structured data: all formats, text documents, natural language ...

## Real-time Analytics

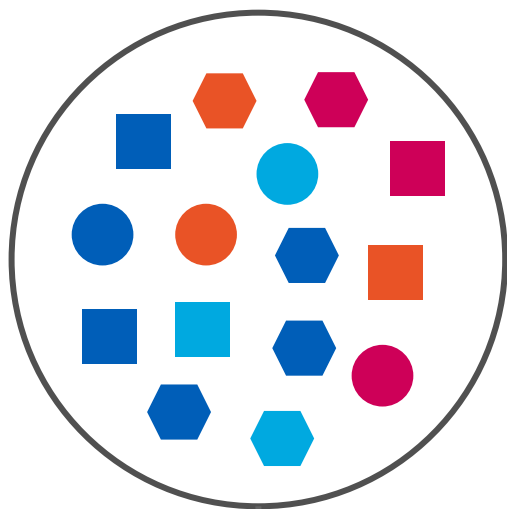
Reporting and mining: pattern finding, machine learning, interactive visualisation ...

# Predictive Analytics

Collect data

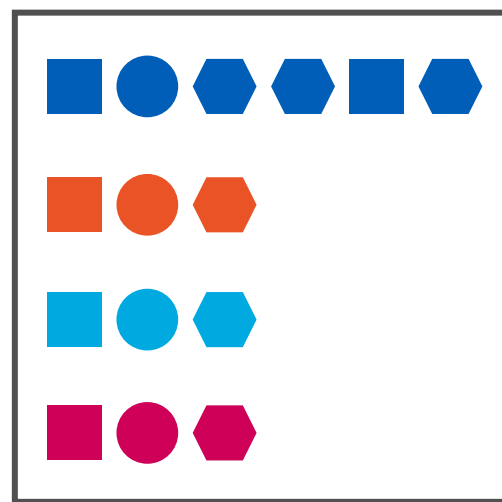


Clean data



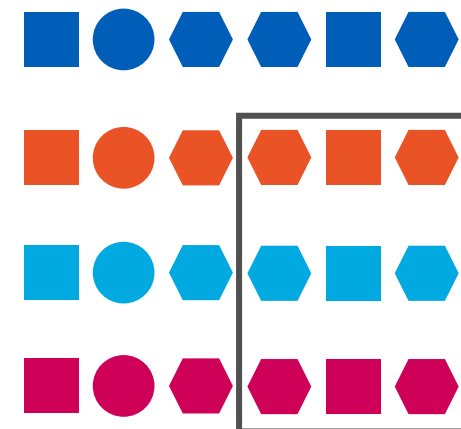
hindsight

Identify patterns



insight

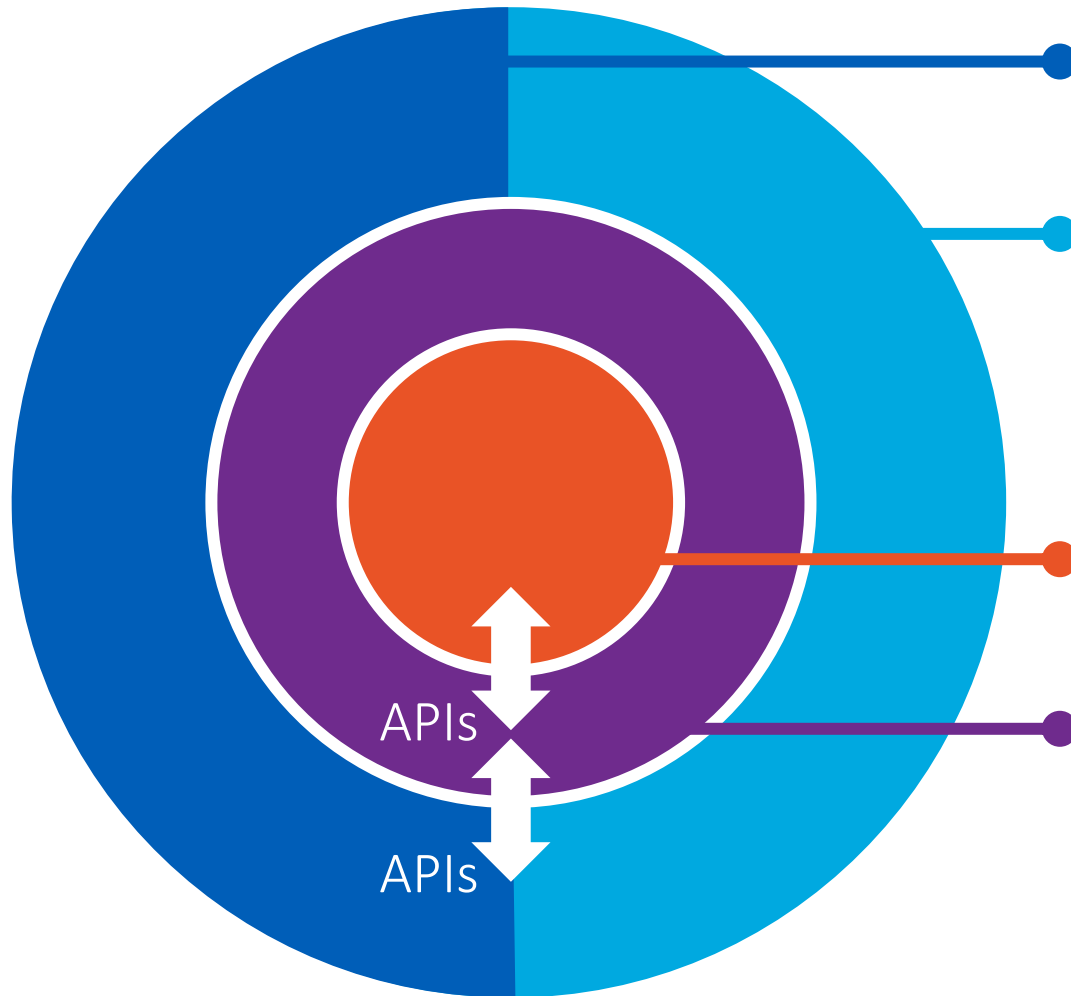
Make predictions



foresight



# Toward Amadeus Open API



- Third-party developments

- e.g. airline websites

- Custom developments

- R&D bespoke

- Partners

- Other external

- Core

- (e.g. PNR, Ticketing, Search...)

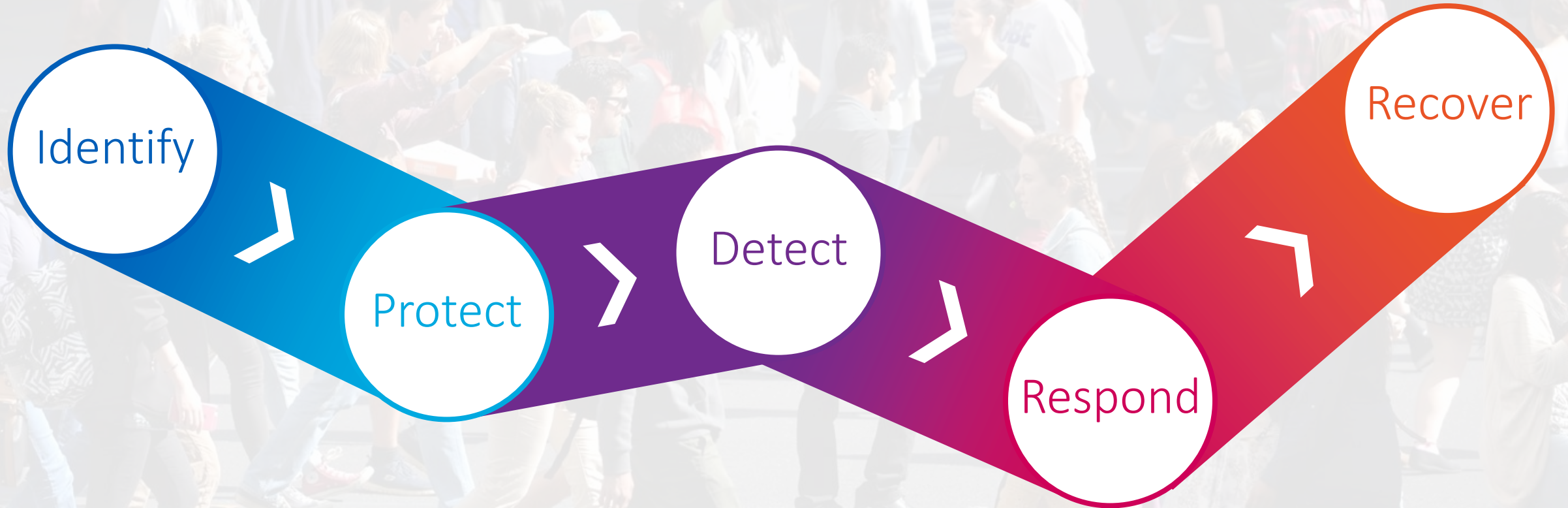
- Next generation products

- e.g. Travel Intelligence, Mobile, eCommerce...



# Security at Amadeus:

We follow best practice in the IT industry



Resilience is the ability of systems to resist, absorb, and recover from an attack.

# Our technology agenda fits new challenges and business opportunities

Travel is becoming more complex

- \_ New ecosystems and new entrants
- \_ More intelligence in functionality
- \_ More technical requirements

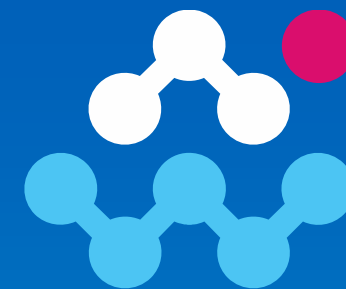
Amadeus understands well all these changes

- \_ We anticipated them with past technical investments
- \_ Our technology agenda opens new business opportunities

Amadeus is uniquely positioned

- \_ Largest portfolio of travel applications
- \_ Capability to embrace complex technology
- \_ Full control from Development to Operations

Thank you!



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# New Businesses update

Francisco Pérez-Lozao  
Senior VP, NBU

June 2016

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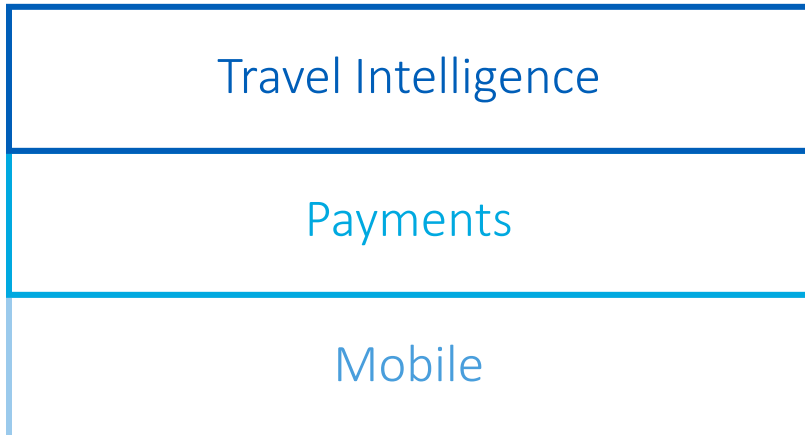


# New Businesses Unit (NBU) recap

## Vertical Businesses

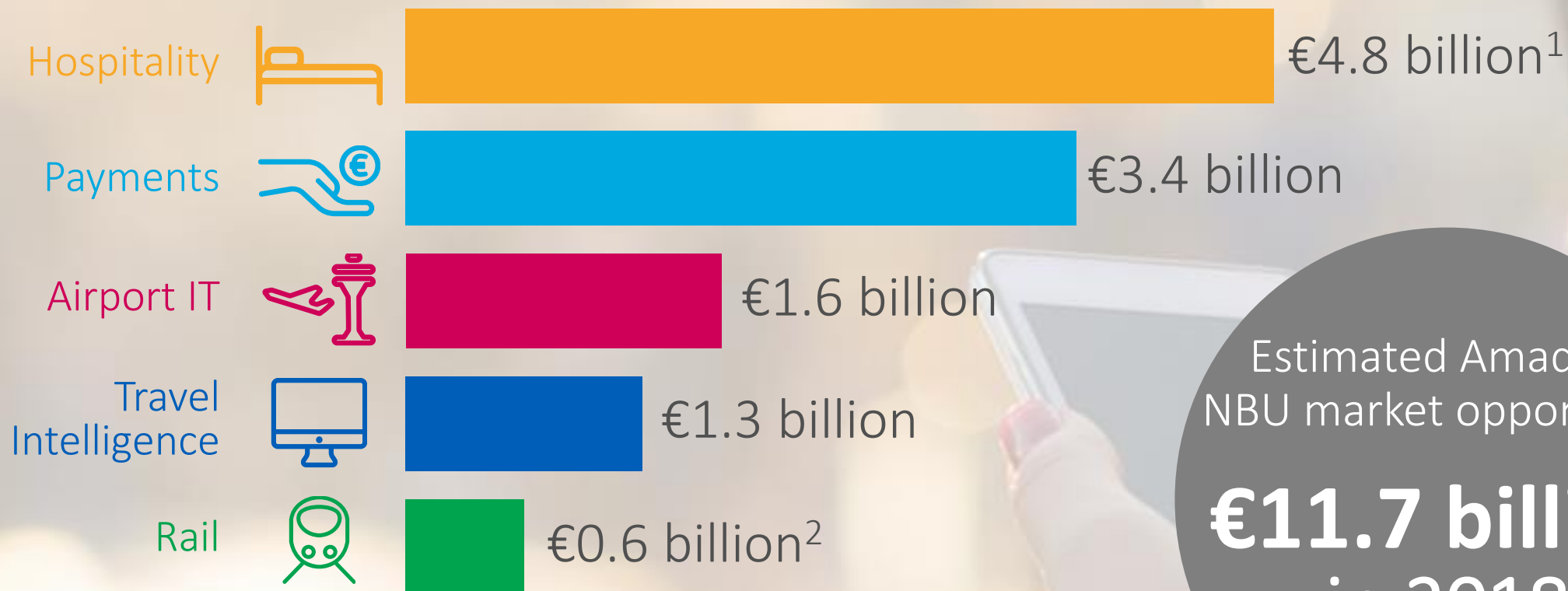


## Transversal Businesses



- \_ Progressing positively on our business diversification initiated in 2012
- \_ Combination of organic growth and M&A
- \_ c. 1,950 fully dedicated professionals
- \_ Significant sector expertise brought on-board
- \_ Business expansion beyond Europe, into Asia and United States
- \_ Customer base expanded significantly since creation
- \_ Flagship customers with us
- \_ Relevant business partners

# NBU addressable market



Estimated Amadeus  
NBU market opportunity

**€11.7 billion**  
in 2018

Source: Amadeus internal estimates

<sup>1</sup> Includes Hospitality IT and Distribution

<sup>2</sup> Includes Rail IT and Distribution

# Hospitality IT and Distribution

- All major chains as customers
- Roughly 25,000 properties as IT customers in 150 countries
- Over 1.3 million hotel shopping options in Distribution
- More than 1,000 professionals worldwide
- Three acquisitions to accelerate business: Newmarket, Itesso and Hotel SystemsPro
- Relevant landmark agreements: IHG signed as launch customer for a next-gen Guest Reservation System
- Next-gen Property Management System under construction with Itesso



# Payments



- \_ Over 500 customers (mostly airlines and travel agencies)
- \_ 250 million payment transactions processed in 2015
- \_ Broad range of product offering both to the merchant and the payer side
- \_ Team of over 130 experts



# Airport IT

- \_ Close to 100 airport operators, 100 ground handlers and 30 airlines as customers
- \_ Over 400 professionals worldwide
- \_ Comprehensive product portfolio
- \_ Acquisitions: UFIS and AirIT
- \_ Relevant landmark agreements: Copenhagen Airports, Avinor

YOUR LONDON AIRPORT  
*Gatwick*

onata

INNS' BRUCK AIRPORT

PERTH AIRPORT

AVINOR

Copenhagen Airports

CPH

sats

M /Munich Airport





CELEBI  
CELEBI GROUND HANDLING INC.

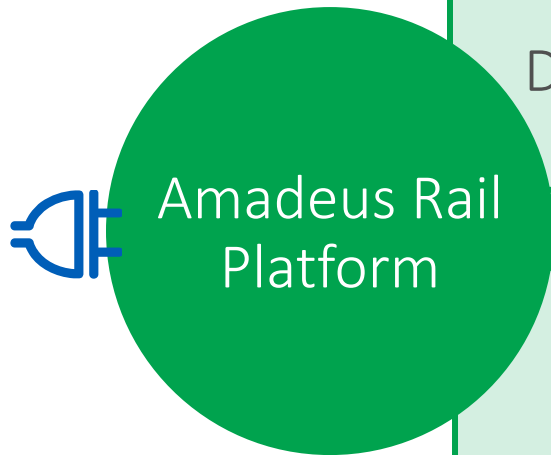
swissport

FINNAIR



# Rail IT and Distribution

-  OTAs
-  Offline TAs
-  Corporates
-  Fly by rail



- \_ 90 railway companies distributed in 170 countries
- \_ A team of 180 rail experts
- \_ Relevant landmark agreements: BeNe RI signed as launch customer for a rail community, cloud-based IT platform



# Travel Intelligence

## DATA

### Enriched analytics

Continuous data enrichment to bring unique insights

## TECHNOLOGY

Flexibility and speed of big data technologies

## EXPERTISE

Dedicated team of data scientists with deep travel expertise

- More than 140 customers
- Close to 140 professionals
- Relevant landmark agreements: Qantas signed as launch customer for schedule recovery

We leverage on a unique combination of **big data assets, cutting-edge technologies and expert data scientists**, to bring our customers actionable insights with which to shape the future of their business



### Market Insight

To better understand market dynamics



### Performance Insight

To better monitor own performance



### Traveller Insight

To better analyse traveller behaviour

# Mobile has reshaped the travel industry

**+50% ecommerce**  
comes through a  
mobile device

Mobile internet usage has  
overtaken desktop

New computing  
platforms will  
handle **40%**  
of mobile  
interactions  
in 2020

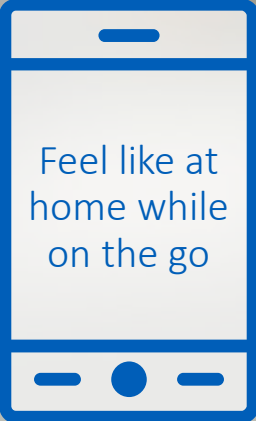
Mobile footprint growing: **1.4BN**  
smartphones shipped in 2015

Source: industry sources

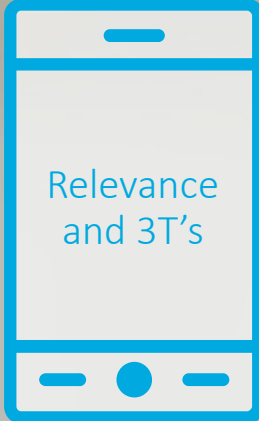


# Amadeus' focus on mobile

Corporations



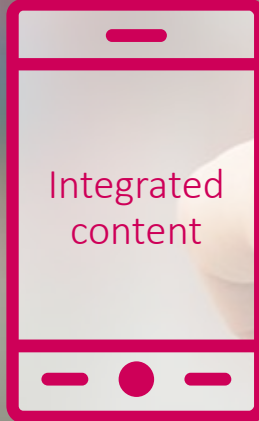
Travel agencies



Airlines



End-consumer



# Connecting the dots



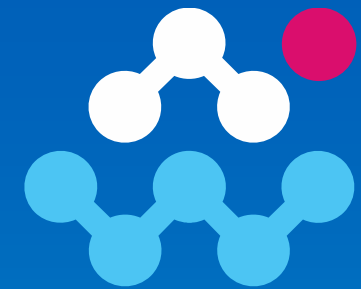
Expanding and  
penetrating in  
different spaces

Creating cross-area  
synergies and  
efficiencies

Enriching our  
core businesses

To develop the  
most integrated  
travel experience  
possible

Thank you!



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# Amadeus Hospitality IT

Lee Horgan  
Head of Hospitality IT

June 2016

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1.

What is happening in  
the marketplace?



# Macro trends - Disruption in the hospitality space

## Trends driving disruption

### Changing demographics and consumer behaviors

- \_ Desire for information, transparency, personalisation and trust.

### Technology enablers

- \_ Big data, mobility, social.
- \_ Decreasing cost of transactions.

### New entrants and consolidation/ M&A

- \_ Customer obsession and innovation.
- \_ New entrants disrupting the market with no physical control of assets.

### Travel providers' response

- \_ Major investment in infrastructure to connect to venues where customers interact.



## New players entering the space to address customer needs

### 1. Search and other technology companies

- \_ Access to information
- \_ Scalability
- \_ Resources

Google



### 2. New business models

- \_ New ways for customers to engage, purchase and experience, harnessing technology in innovative ways

airbnb



U B E R

# Hospitality industry focus

What's keeping hospitality executives awake at night?



How can I streamline with so many legacy systems from so many vendors?

Can I influence guests to generate positive reviews?

How do I create guest loyalty?

How can I regain control of my distribution?

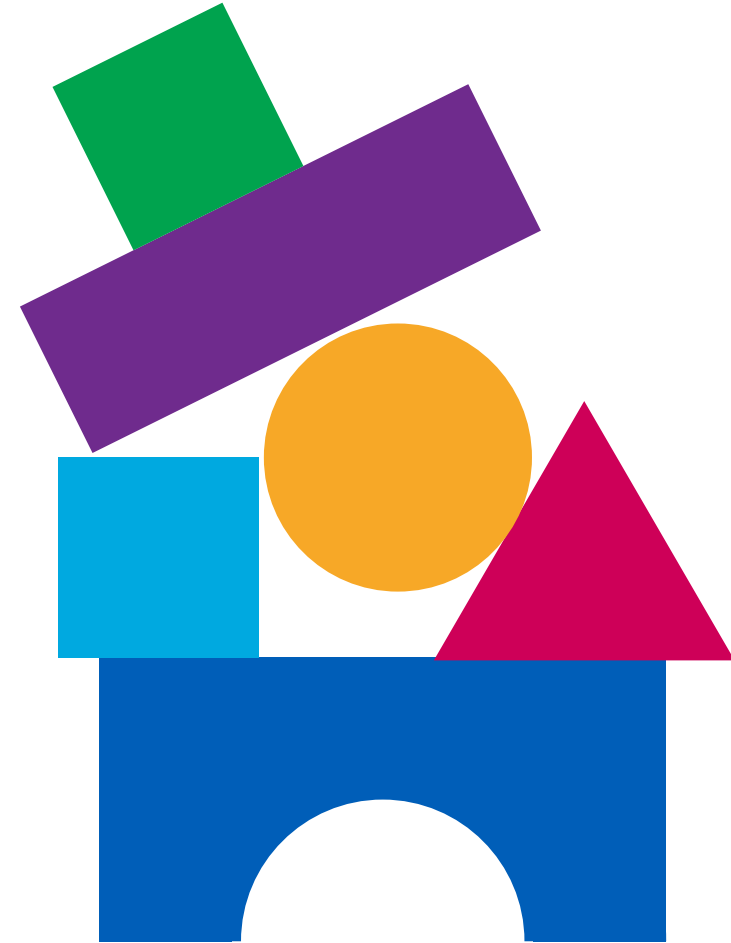
How do I increase revenue and drive value for my franchisees?

What can I do to improve employee productivity and efficiency?



# The IT solution challenge in the hospitality industry

**Dated and fragmented technology** is holding back sales, efficiency and the brands' ability to create *a unique customer experience*



# No supplier with an end-to-end solution

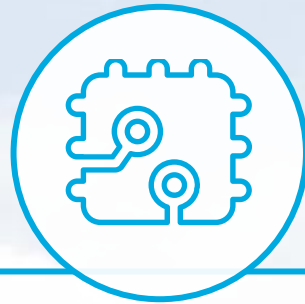
## Hospitality IT competitive landscape



# Amadeus unique value proposition



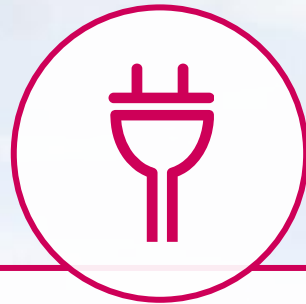
Next generation on-the-cloud solutions



Component-based and seamlessly integrated IT portfolio offering



Community model



Low risk migration



Financial effectiveness: from CAPEX to OPEX

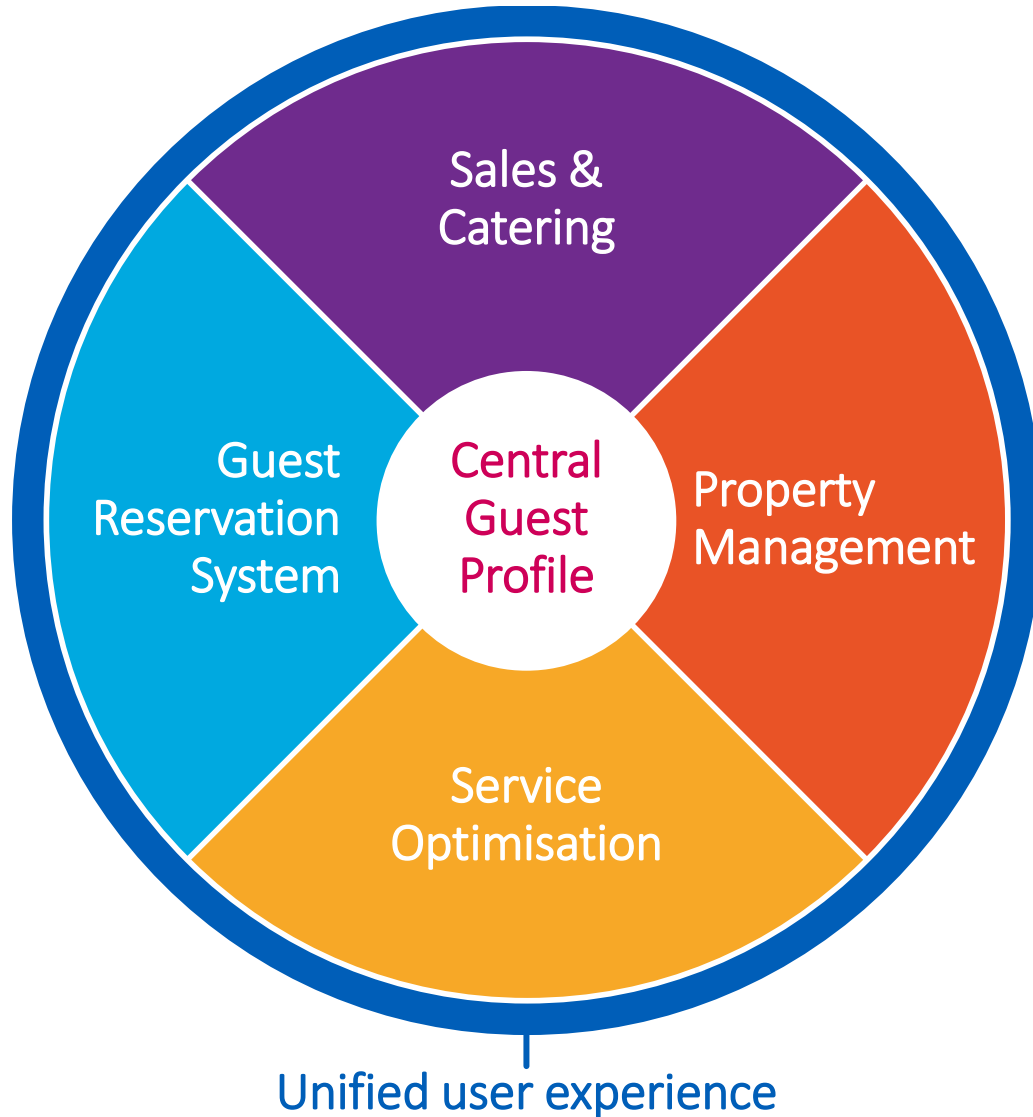
2.

How are we addressing the opportunity in Hospitality?



# Our strategy

Drive towards a single solution with a services-based approach



Amadeus  
Hospitality  
Solution

## A single vision and evolving platform

- \_ Guest-centric to enable seamless integration of components
- \_ Best-of-breed solutions that are proven market leaders
- \_ Unique enterprise-class, yet modular platform

# Amadeus Guest Reservation System (GRS)



Built on open technology and as a cloud-based system



Centred around the possibility for hotels to personalise the end-to-end guest experience



Built to be agile in adapting to the always connected guest



Highly available and reliable platform, with unlimited capacity for volume and transactions



Built to accommodate emerging technologies (beyond social and mobile) and evolving guest behaviours and preferences



Cost effectiveness, pay per use model

# Amadeus Guest Reservation System

IHG as our launch customer

## Why IHG is the ideal launch partner:

- \_ Brand and consumer driven company: guest engagement is a priority
- \_ Long track record of technology investment and a leader in innovation
- \_ >5,000 properties in c.100 countries, hotels of all profiles – from Holiday Inn Express to InterContinental
- \_ Clear vision as to what a next-generation GRS needs to look like

The IHG/Amadeus community model GRS:  
***A foundation to deliver on our vision for the hospitality industry***



# Keith Barr

Chief Commercial Officer, InterContinental Hotels Group

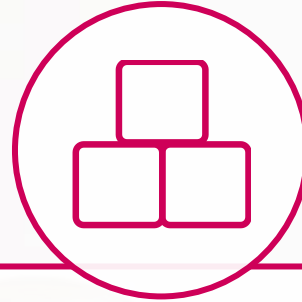




# Amadeus Property Management System (PMS)



New gen-PMS (ELS): scalable, dynamic and highly available based on Microsoft Azure



Component-based system



Effective use of data, single source of truth design



Tightly integrated to the GRS: inventory, rates, customer profiles...



Cost effectiveness, pay per use model



1,800 customers to Itezzo's heritage solutions

# Amadeus Sales & Catering for MICE\*



Newmarket “Delphi” and HSP leading market position and expertise



“Surround the PMS”, with numerous interfaces; complementary to the Amadeus portfolio with high-value applications for hoteliers



Credibility in the market with a very strong customer base (23,000 catering venues)



Go forward solutions built on cloud technology



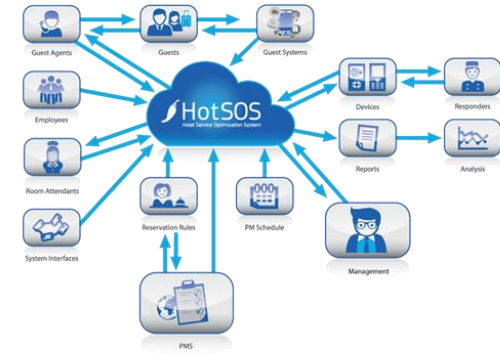
High market penetration across all customer segments: top-chains, casinos, mid-chains and independent hotels



Award winning Customer support

\*MICE: Meetings, Incentives, Conventions and Exhibitions

# Amadeus Service Optimisation



HotSOS, a multi award winning **Service Optimisation** solution from Newmarket, an Amadeus Company

Originally developed for **luxury hotels** our solution is now being implemented by **hotels across all segments**



**Room readiness and cleanliness** are the two most common complaints cited by hotel brand surveys

Guest are willing to pay a **premium rate for best-in-class service** (20% Leisure / 11% Business)



An open platform that integrates with over **80 different API partners**; powering the workflow for all leading **hotel technology** companies and supporting all leading **mobile platforms**

# To become the reference end-to-end IT provider for the hospitality industry

Strong focus on key hotel systems

Seamless integration, modularity, reliability, scalability, optimal use of data

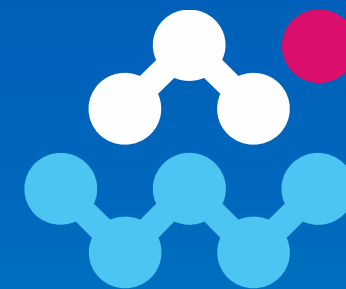
Cost-effective, pay-per-use model

Community model to reduce spend

Global reach

Uniquely positioned to partner with hoteliers to help them achieve their business goals

Thank you!



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