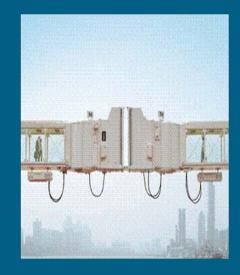
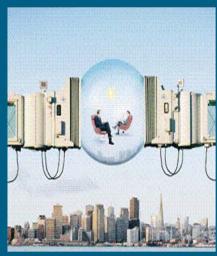


# From transporting to connecting people

Strategic opportunities for Airlines in a connected world





#### October 2010

James Crowther (jacrowth@cisco.com) Cisco Director and NL Lead Cisco IBSG (Internet Business Solutions)

### **Contents**

- 1. Introduction Cisco
- 2. Video: the next voice
- 3. Public TelePresence
- 4. Strategic rationale for airlines

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5. Conclusions



# Introduction: Cisco

#### The Cisco Vision

changing the way we work, live, play, and learn. sm







to shape the future of the Internet by creating unprecedented value and opportunity for our customers, employees, investors and ecosystem partners

## Cisco Today...





Networked Economy 2.0 2010

Collaboration / Web 2.0 2008



Network is the Platform 2006



**Network of Networks** 

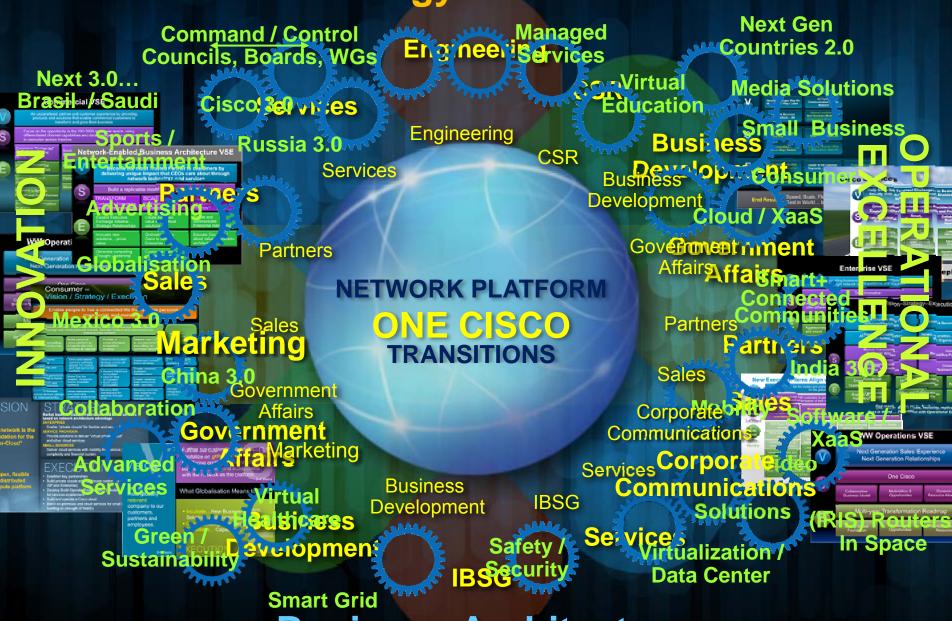
2000



All in one Data / Voice / Video 1997

### "Market Transitions Wait For No One"

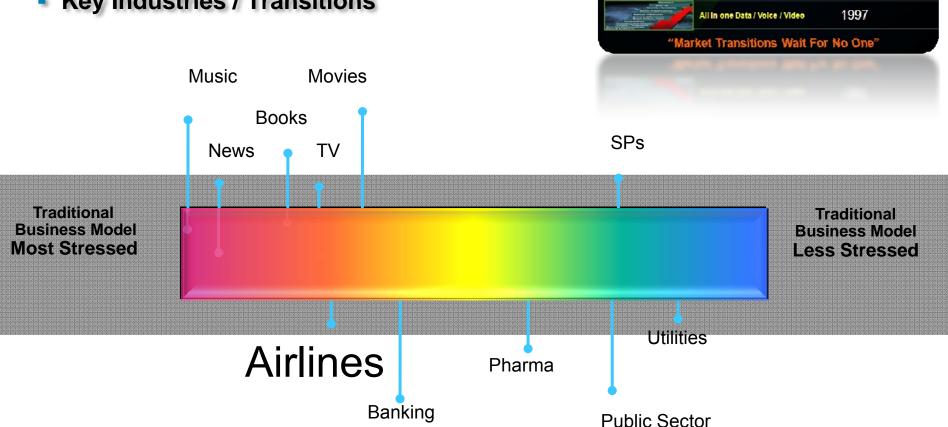
# **Technology Architecture**



**Business Architecture** 

### Market transitions...

- Connectivity... Network Enables
- Video, Cloud, Collaboration, Virtualization
- **New Market Adjacencies**
- **Key Industries / Transitions**



orked Economy 2.0

Collaboration / Web 2.0

Network of Networks

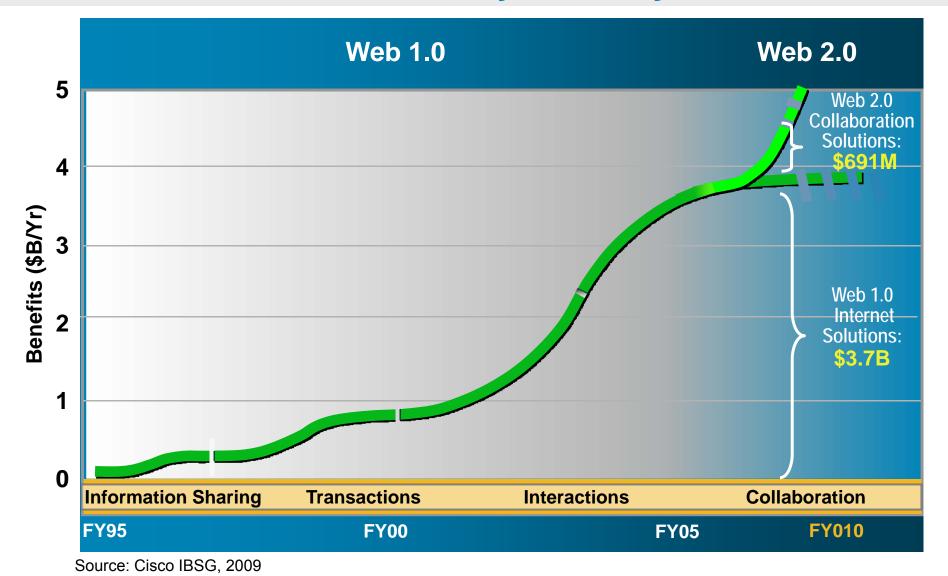
2010

2008

2006

2000

### **Cisco's New Productivity Journey**



#### **Collaboration Acceleration Within Cisco**



**Productivity** 

19,4 40,0 since Jan 08 500+ new users per week!

Collaboration



Travel Savings

Over 20,000 users viewed C-Vision videos over 100,000 times!

**Video Sharing** 



Web 2.0 Content

**Group Discussions** 

Statement of the statem

#### Forums

24,000 threads and messages
Up 95% in Q4!

Contact Info Expertise CONTROSCON Learn about expertise
Randy Jewell Submit

#### **Directory 3.0**

190,000+ hits A DAY! 8400 have added Expertise

Connect with Experts



Video: The next Voice



## Gartner - Video Telepresence Will Replace 2.1 Million Airline Seats Per Year by 2012

: NRC NEXT Publicatie Datum : 13-10-2010

Pagina : 20 Oplage : 83.369

Frequentie: 5x per week

Advertentiewaarde Regio

: € 21980,00 : landeliik

# Het lijkt alsof je samen aan één tafel zit

Dat komt omdat alle openbare virtuele vergaderzalen van Cisco wereldwijd identiek zijn

▶ Eerst dook je met collega's een hok in om te vergaderen. Later zat ie met meerdere mensen tegelijk te overleggen per gsm, mail of chat.

En nu is er telepresence.

Door SJOERD SCHOLTEN

als de apparatuur. De camera's leggen niet alleen de vergadering vast, maar zoomen ook in op degene die op dat moment aan het woord is.

Virtueel vergaderen zou de effectiviteit verhogen. "Mensen kijken min-

der weg of op hun mobieltje omdat ze constant in beeld zijn", zegt directeur Boorsma. Op het beeldscherm verschiint tien minuten voor het einde van de vergadering een klokje. Als de

kunnen enkel contact maken met ruimtes die gebruik maken van Cisco's systeem. "Hun zalen zijn wel heel luxe. Maar wij zijn daarentegen ook weer een stukje goedkoper."

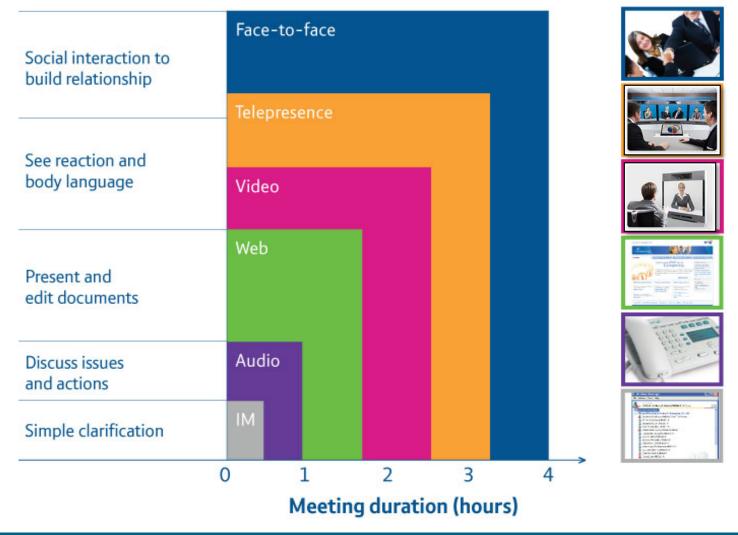
De opening van de eerste telepresence locatie is volgens vergaderdeskundige Wilbert van Vree "een logische stap" in de trend van vergaderen op afstand die halverwege de jaren negentig begon. Hij promoveerde

Industry \$3.5 billion annually

## **Dynamics of collaboration**

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#### Meeting needs



# What's Driving Video Collaboration and Cisco TelePresence Adoption



#### Travel for Global Collaboration

- How far can you travel in a day?
- How many companies can you reach?
- How can you cross cultural barriers?



#### **Budget Cuts... doing more with less**

- How do you find new efficiencies?
- Can you be in the office and at the customer?
- How do you leapfrog the competition?



#### Being Away... from home and the office

- How is meeting more also living better?
- How many nights at home can you give to your team?
- What is your carbon footprint?

## Cisco's Strategy

### TelePresence for Everyone, Everywhere





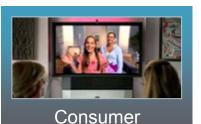




**Public Suites** 

**Business to Business Business to Consumer** Consumer to Consumer





#### Benefits of an Integrated Architecture

Comprehensive Interoperability Security, Scalability, Reliability

Virtualized Collaboration **New Business Models** 

Social Networking Interaction **New Ecosystems** 

# Cisco TelePresence Market Momentum October 2010

#### 550+ Customers with 3500+ Rooms

- The top four global investment banks
- 64 Financial Services Customers
- 62 top high tech companies
- 84 service providers globally
- The four largest WW food/beverage firms
- 32 retail and consumer goods companies
- 8 of the largest pharmaceutical companies
- 27 global energy companies
- 33 healthcare companies
- 12 top U.S. research universities
- 50 education institutions
- 78 public sector organizations







### **Global Market Share: Q1 CY2010**

#### **Personal**

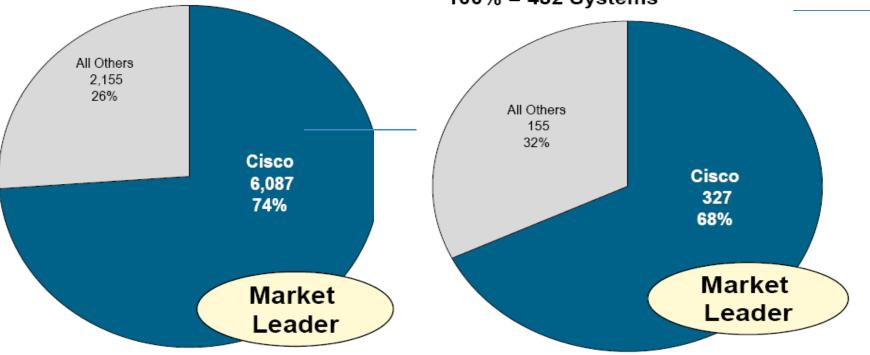


Q110 Desktop TelePresence Shipments 100% = 8,242 Systems

Life Size



Q110 Immersive TelePresence Shipments 100% = 482 Systems



# CTS3210 – 14 to 18 participants



# CTS1100 – TelePresence (2 participants)



Meet ūmi | What You Need | ūmi Support

Pre-Order

Introducing Cisco ūmi The new way to be together.

Meet ūmi ▶



See How Families Connect with ūmi >



Cisco ūmi Telepresence. The new way to be together.



## **Public TelePresence**



# Introducing the Cisco TelePresence Suite

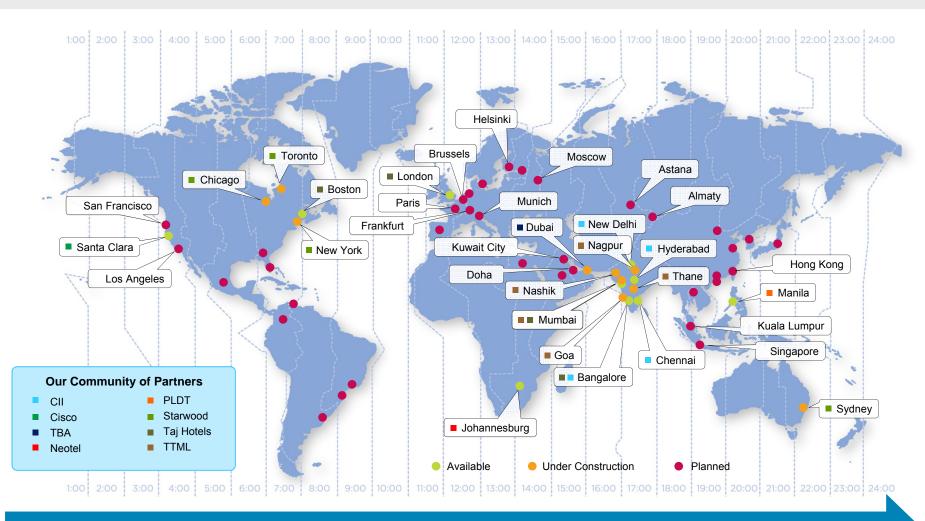
3979 Freedom Circle Santa Clara, California





1 CTS 3200 Room 2 CTS 3000 Rooms 4 CTS 1000 Rooms

### **Public Cisco TelePresence Suites Locations**



February 2010 10 rooms End of Q2 2010 35 rooms End of Q1 2011 80 rooms

End of Q4 2011 140 rooms

### **Public Cisco TelePresence Suites**





























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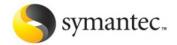






















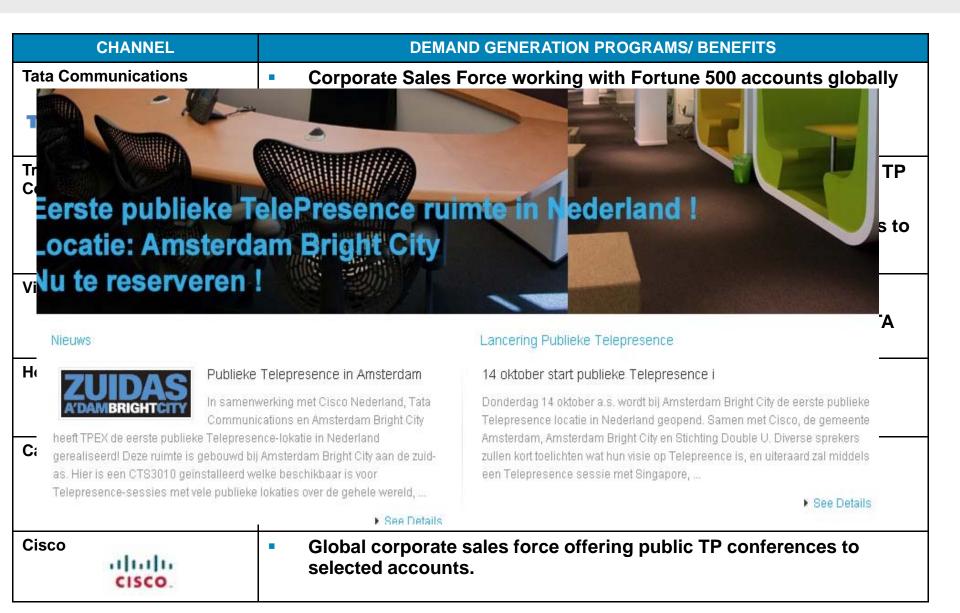


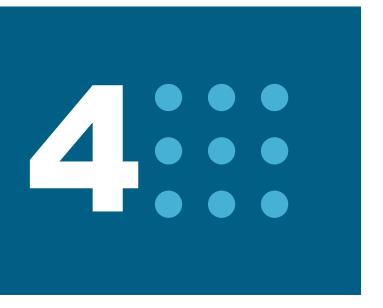






# TCL is developing a global Demand Generation Program to fill all rooms on the network





# Strategic rationale for Airlines

# The "new" world requires a different strategic response and additional knowledge and competencies

Key drivers of change (outside-in)

- (R)Evolution of Technology;
   Connectivity as game changer
   → Customer Technology. WEB technology /cloud/bio/nano
- 2. Demand for differentiated travel?!
- **3. Gravity moving East!** (Growing Middle class Asia!)
- 4. Sustainable Business Model→ Alternative Energy

Strategic response (inside-out)

"connected" airline/groups!

-Flight - Intermodal - Personal - towards Society What must we develop? Choices to be made! (new competencies)

- 1. Gain proprietary insights into the behaviour of (emerging) customer groups
- 2. Use technology to connect and drive innovation and differentiation. Develop architecture for full connected world
  - 3. Leveraging strengths "customer database & brand" in current & future markets
- 4. Develop new "alliances" & partnerships enhancing open innovation and co-creation. Insights and follow through on "Multiple World differentiation opportunities

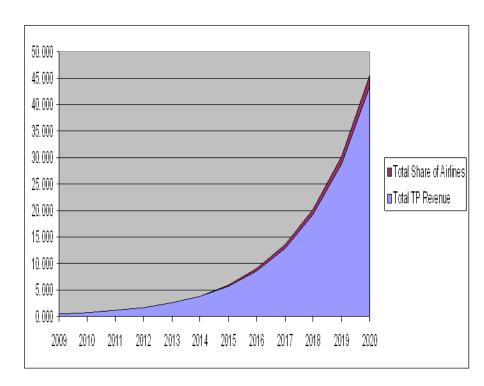
### The TelePresence opportunity

- Rapidly-maturing virtual collaboration technologies such as TelePresence are also impacting travel by offering substitutes for how people connect.
  - •69 percent of companies agree that these technologies have the potential to significantly reduce the number of flights taken by their organizations.
  - •Conditions are ideal for the incubation and growth of technology substitutes for air travel.
  - 64 percent of American senior business and technical decision makers are considering telepresence investments over the next 24 months.
  - The immersive experience of TelePresence offers a realistic substitute for in-person meetings, helping telePresence utilization surpass traditional videoconferencing by a factor of 10
- •Airlines are well positioned to work with their hospitality, travel, and service provider partners to benefit from these trends
- •Expanding to value chains transporting people to connecting people, utilizing TelePresence to provide adjacent business opportunities, innovative airlines will maintain revenues during travel disruptions and achieve even higher earnings during times of normal operations.

### Revenue Impact Public TelePresence by 2019

- •Cisco IBSG sees airlines earning 3% of the total revenues from the TelePresence market in the next 5 years, and 5 percent of revenues by 2015.
- •Costs and traditional barriers to entry for this new disruptive technology will come down quickly as market adoption and penetration rates increase
- •The user experience will continue to improve
- •In 2020, \$2.2 billion of potential revenue upside exists for just selling pubic TelePresence with margins between 52 and 58 percent

Public TelePresence Revenue Opportunity for Airlines



Source: Cisco IBSG Economics and Research, 2010

### An Opportunity Emerges: Public TelePresence

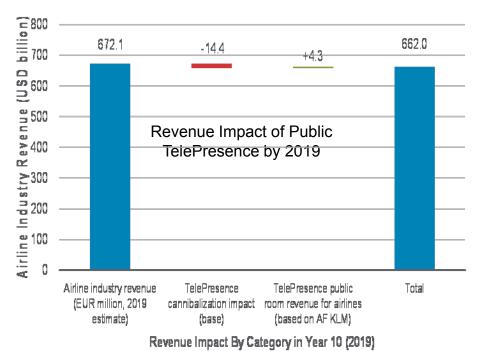
#### **Exploring New Approaches**

In response to these challenges, airline executives have implemented a number of tactically-oriented changes in three main areas:

- 1) unbundling services such as charging for food and extra luggage,
- 2) reaching out to ecosystem partners to offer new services like ringtones, and
- 3) adding technology services including Internet access while flying. While these changes have had a positive impact, the magnitude of the challenges requires a more strategic approach and a fundamental re-architecting of the airline business model.

#### **Benefits**

- •Revenue impact of TelePresence on business air travel is presently marginal, the technology offers a **first-mover advantage** as well as new revenue opportunities.
- •Cannibalization impact will be just 2.1 percent or \$14.36 billion of airline revenue by 2019.
- •Airlines can, however, offset approximately 30 percent or \$4.26 billion of this loss with public TelePresence room service offerings by 2019
- •Increased TelePresence use could eventually i Increase travel in some segments



#### The rationale for this business case NOW is twofold

## 1. Strategic relation to current business

- TP will replace part of business
  - lt is happening as we speak (Philips, Shell)
  - Is a realistic alternative to travel
  - Gartner expects TP will replace 2,1 M airline seats by 2012
  - 67% of travel managers indicates they will stimulate videoconferencing
- TP is a logical extension of the business
  - Address meeting needs not just travel needs
  - Become 'the most connected airline'

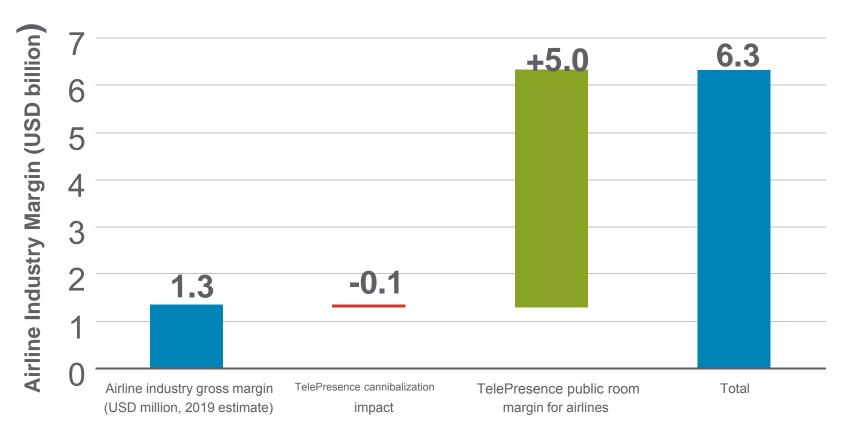
## Airlines can move in this business and learn about it

# 2. Airlines can play a significant role, thereby only improving longer term sustainability

- Strong assets: distribution, network intelligence, customer base and brand
- Hedge against longer term cannibalization risk
- Business case has both short as long term potential
  - First airline mover advantage is key to get the best business case and highest value creation
  - Vice versa is valid too: If we wait too long, the opportunity is probably gone forever.

Innovators needs to do it NOW, but exposure/risks need to be mitigated

# EBT margin of Public TelePresence can have +5% impact on total revenues



Margin Impact By Category in Year 10 (2019)

# Airlines have hidden strategic assets that can provide competitive advantages in this new market

Categories	Airlines' Strategic Assets				
Customer Bases	•Largest airline in the world				
	•250 global accounts, 1,500 key accounts, 25,000 small-to-medium enterprise (SME) accounts				
Customer Intimacy	•One of the largest frequent-flyer programs in the world				
	•Approximately 12 million business customers that travel to more than 240 destinations worldwide with intimate knowledge of flying patterns in target segments				
Partnerships	•"Air-Miles" partnerships with many of the leading hotel chains, rental companies, and travel agencies globally				
Physical Networks	•Largest airline network consisting of 240 destinations worldwide				
	•Strategic hubs at Charles de Gaulle airport in , and Schiphol airport in				
	•Significant presence at 's Heathrow airport				
	•Recently upgraded their entire aircraft fleet which now includes more than 569 planes				
Brands	•Innovation industry leader, experience with lounge branding				
	•Emerging strategy to connect people in the broadest sense				
Real Estate	•Established city and airport offices in 240 destinations				

#### Airlines need to rely on a mix of partnerships in the hospitality, travel, service provider & technology

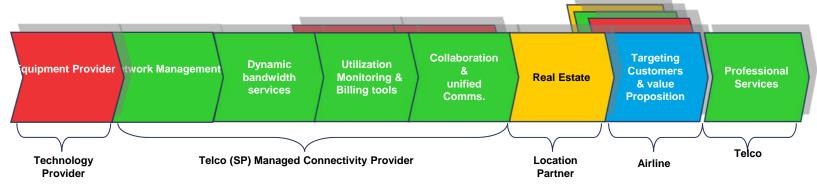
Asset Categories	Strategic Assets						
	•Real estate and rooms at highly-accessible locations						
Hospitality Companies	•Staffing at TelePresence locations 24 hours a day, seven days a week						
	•Sales & Marketing expertise and resources such as website reservation and customer loyalty programs						
Travel Firms	•Go to Market						
Service Providers	•Unlimited connections between third-party rooms enables a "network effect"						
	•Hosting and management of telecommunications & TelepPresence infrastructures						
	•Concierge services including meeting scheduling, booking, user assistance enables TelePresence reservation and inventory management						
	•Help desk management and support for technical and billing enquiries						
	•Reporting including usage and performance, billing and financial metrics, travel avoidance, and environmental impact						
Technology Companies	Business innovation leadership and technology improvement						
	•TelePresence systems and processes as well as experience with setup and operation						
	•Telecommunications carrier partnerships and market overview enables "network effect"						
	•Extended enterprise relationships and franchises allows for connections to third-party rooms						
	•Sales, marketing, and branding expertise and resources						

### Developing a Public TelePresence capability

#### 1. Align core strengths

- •Marketing, sales, and branding power (including loyalty programs.
- Operational knowledge—.
- Partner networks in the hotel, hospitality, and travel industries—
- Booking and concierge
- Virtual community

#### 2) Enter new value chains



#### 3) Build partnerships to enable new services

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- Capturing the mind- and wallet-share of customers who need to connect and collaborate with other people to get their jobs done, as well as stay in touch with friends and family.
- Staying connected while travelling internationally or even as an alternative to travel, however, is still a challenge. Roaming issues, broadband connections, and access to online entertainment all make it difficult to stay connected.
- Currently, this market is dominated by telecom service providers that, in general, earn extra revenues from their travelling customers who are using their services abroad. Airlines' frequent flyer databases could be highly attractive to service providers wanting to develop global connectivity services.

# Driving utilization to the max, at acceptable price levels, is key in the business model

#### Cash flow sensitivity analysis

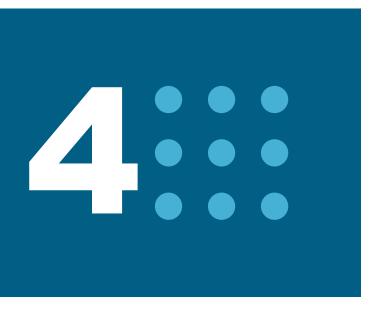
Cumulative cash flow end of year 5 in € mio



#### **Profitability sensitivity analysis**

EBIT margin in year 5 in percent

	ge rate 'h¹ ( <del>€)</del> 300	400	500	600	700	800
30%	-64%	-25%	-1%	14%	25%	33%
35%	-35%	-3%	16%	28%	37%	43%
40%	-12%	14%	29%	39%	46%	51%
45%	7%	28%	40%	48%	53%	57%
50%	22%	39%	49%	55%	59%	61%



### **Conclusions**

#### **Conclusions**

- Although headwinds are abating, the airline industry will always face challenges to business profitability and continuity from economic, environmental, and political events.
- Fortunately, technological advances, especially in the area of TelePresence, are now making it possible for innovative airlines to transform their business models from transporting people to connecting people..
- Airlines can increase revenues while reducing the competitive threat of new technologies that, over time, will decrease air travel.
- For airline companies seeking telltale signals for broad market adoption of this non-traditional opportunity before getting started, look for the following seminal events.
  - Broad adoption of TelePresence across Global 500 enterprises. The top 100 companies already own or have plans for implementation.
  - Hospitality franchises announcing entry into public TelePresence suites across their businesses and meeting properties.
  - Temporary office providers shifting from video conferencing to TelePresence in meaningful numbers.
  - Non-traditional enterprises joining the fray with innovative models for business and personal TelePresence interactions.
- Airlines that aspire to harness the market in the early stages should prepare now

# But first, are we.... "transporting businesses"?





