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The Hague, Netherlands

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The future of self-connect and the implications for the Dutch aviation sector





Today's Agenda

-  **Self-connect today**
-  **Top candidates for growth**
-  **Dutch Aviation: threat or opportunity?**
-  **Where next?**

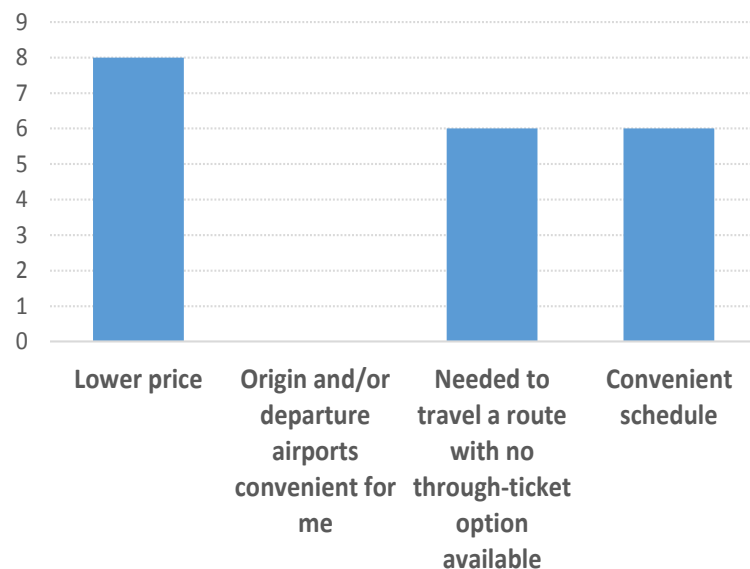
Self-connections Today



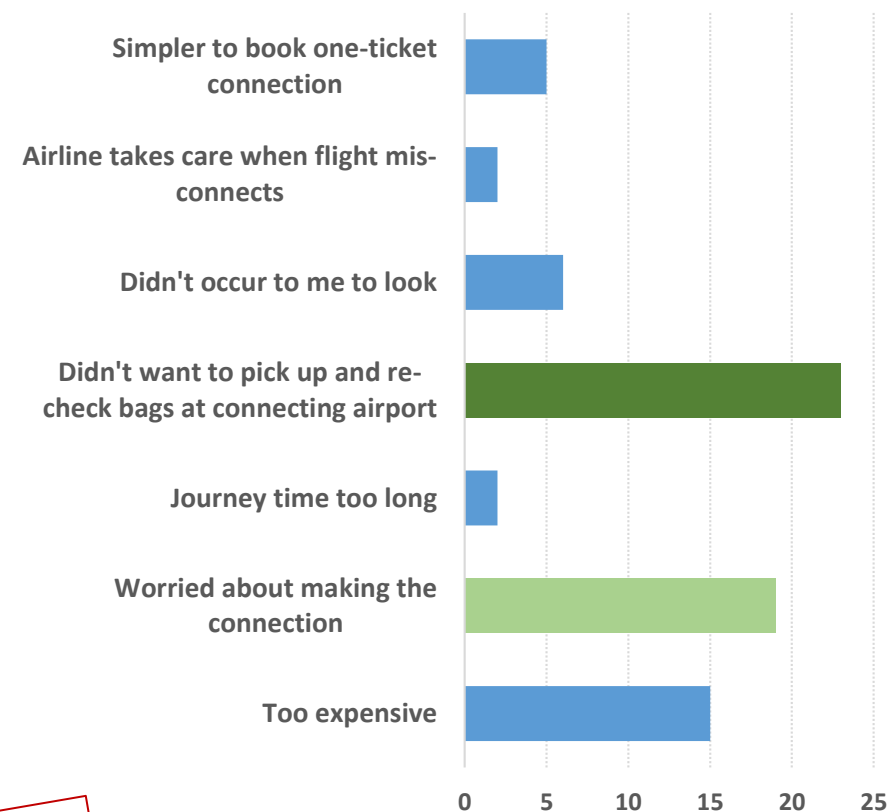
Why do people self-connect?

- Price
- Market not served direct, online or interline
- Schedule

Which factor was most important in your decision to make a self-connecting journey?



Why didn't you buy two separate tickets?

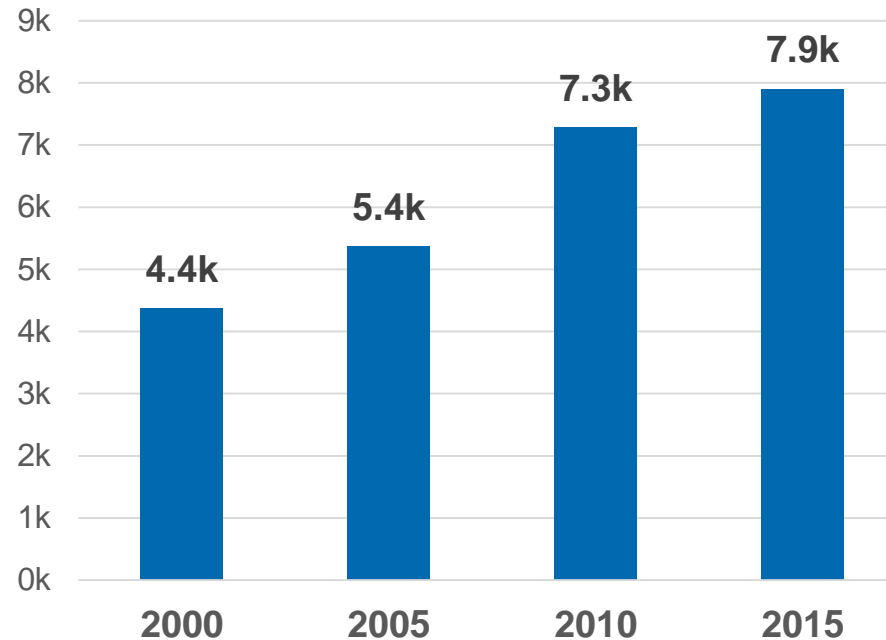


WARNING! ICF SURVEY RESPONDENTS ARE SAVVIER THAN AVERAGE AIR TRAVELLERS!

The traditional connections market in Europe is large, despite increasing direct services

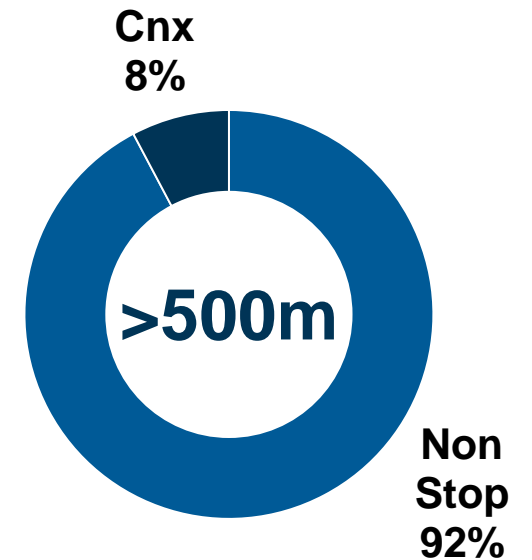
- >500m intra-EUR journeys per year
- 42m (8%) journeys connect
- Equivalent to 84m connecting airport pax or 168m total airport pax across EUR airports

Intra-Europe Market
Unique Direct Services
2000–2015



4%
CAGR

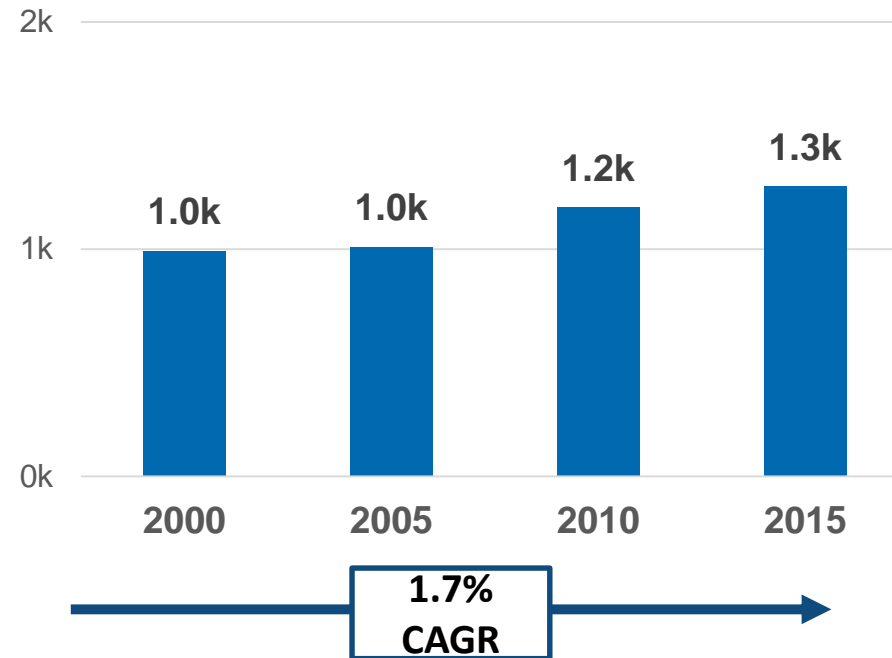
Intra-Europe Market
Nonstop vs. Connecting Service
2015



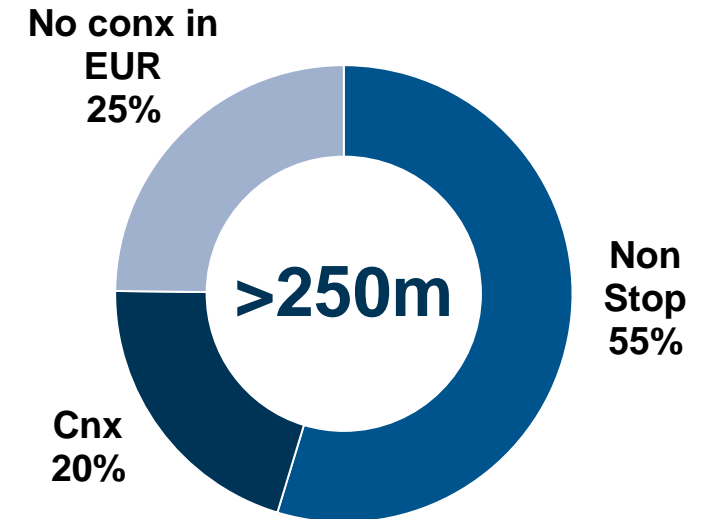
Long-haul markets have a higher proportion of connections

- >250m extra-EUR journeys per year
- 117m (45%) journeys connect
- Half connect at EUR end
- Equivalent to 150m airport pax across EUR airports

Europe-Long Haul Market
Unique Direct Services
2000–2015



Europe-Long Haul Market
Nonstop vs. Connecting Service
2015

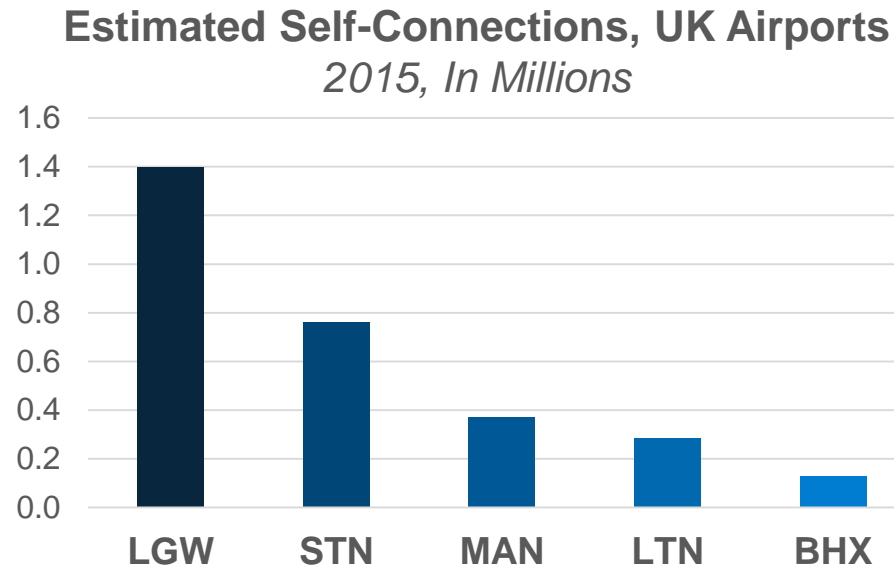


	Market Size (M)
Non Stop	142
Conx in EUR	53
No Conx in EUR	64
Total	259

Self-connections are estimated at 15m a year in Europe

- UK CAA surveys 100k+ passengers
- ~4% of independent LCC pax connecting
- Europe-wide 16m airport pax or 4m O&Ds

UK SURVEY:



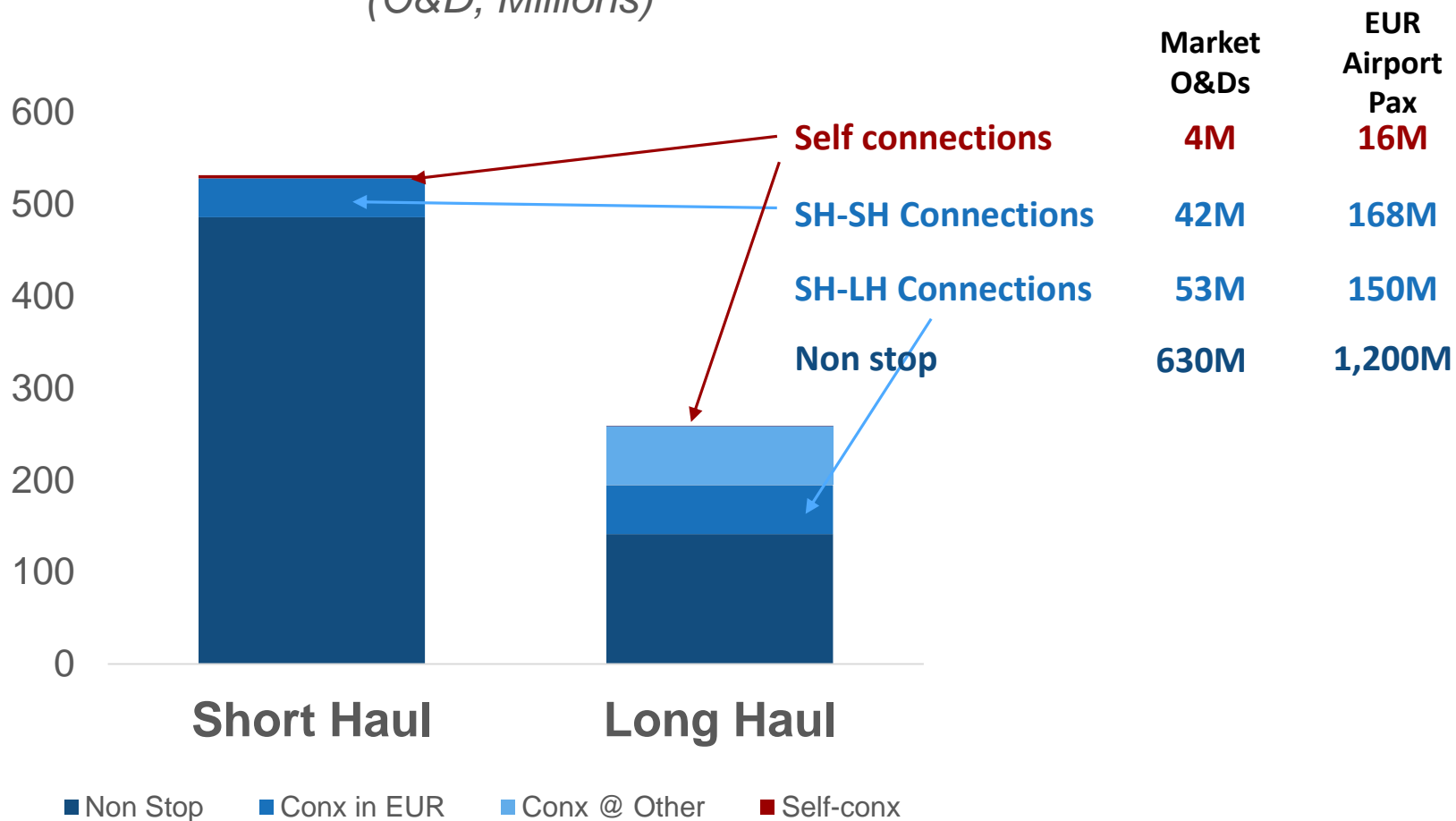
	Self Conx
Total	~3M
% of LCCs self-conx	3.7%

EUR ESTIMATE:



This represents
<10% of all transfer
pax or 1% of total
European airport
pax

2015 European Passenger
Market Summary
(O&D, Millions)



Top Candidates for Self-Connect



Self-connect is
most likely to take
off at unaligned
carriers

Incremental passengers and revenue
are the name of the game...
...ideally without incremental cost

UNALIGNED CARRIERS



easyJet



LONG HAUL LOW COST



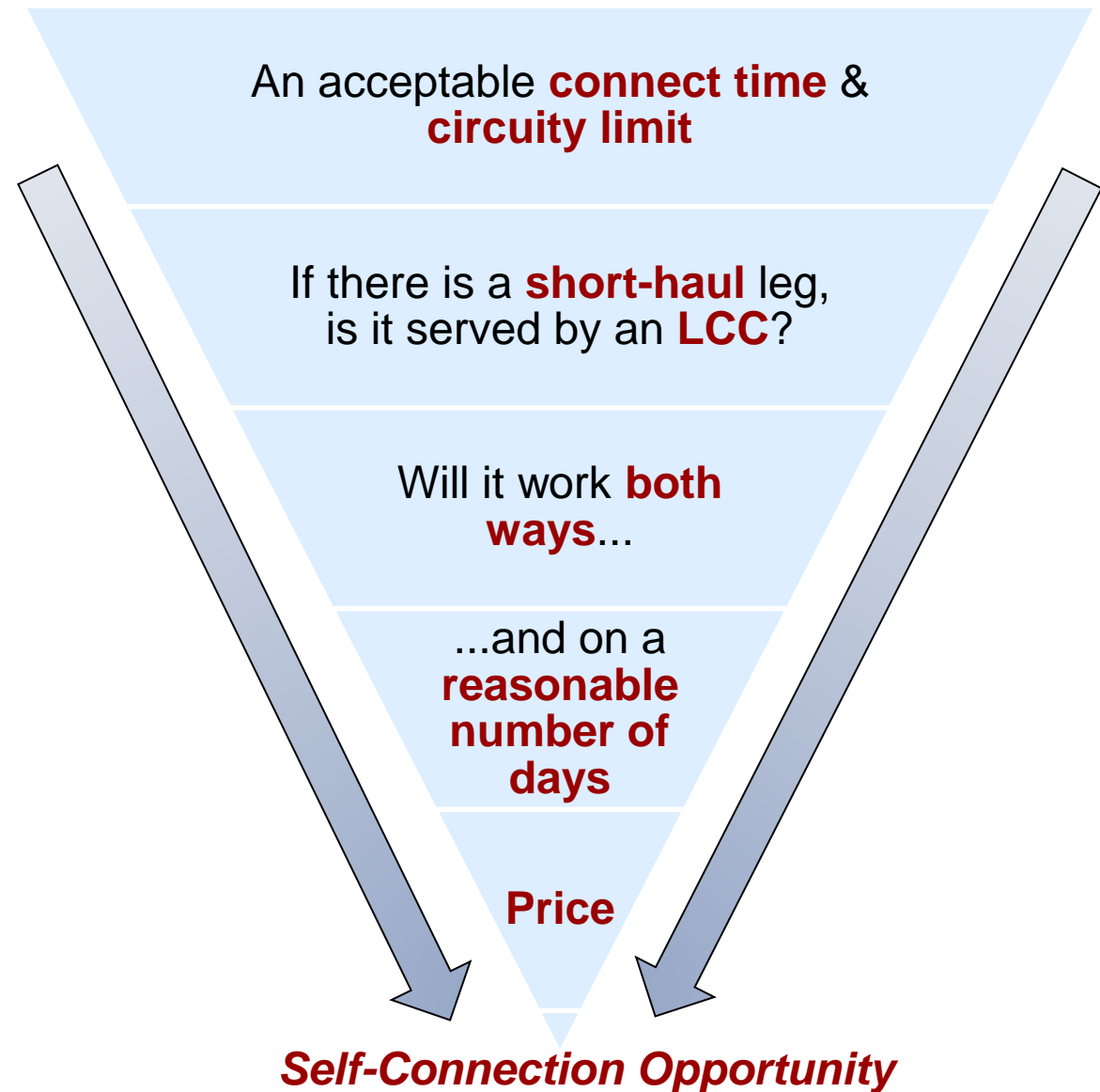
NON HUB



Airports with certain characteristics will be best placed to benefit

- Scale of network
- Variety of business models, including LCC
- Long haul helpful
- Geography helpful

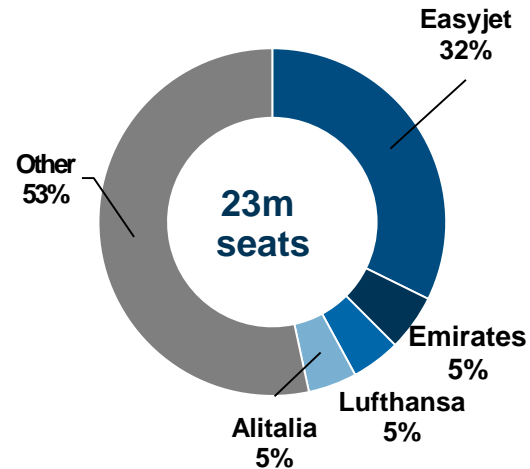
Identifying Suitable Self-Connect O&Ds



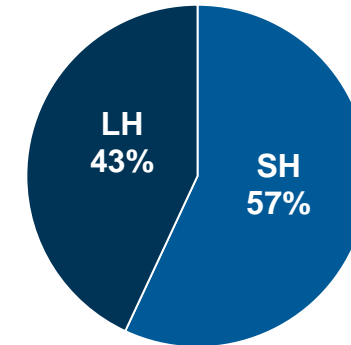
Milan is an obvious candidate for self-connections

- 132 destinations from MXP
- 17k theoretical connecting markets
- 2,500 with reasonable circuitry and connection time
- 800 unique markets that work in both directions
- 360 more than 4pw
- 40% of these no direct service
- 13mppa in these O&Ds

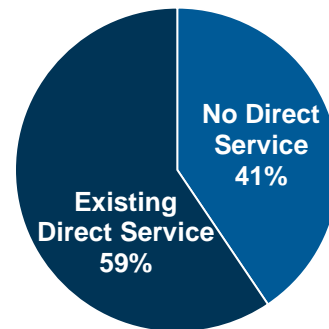
Annual Seat Capacity
2015



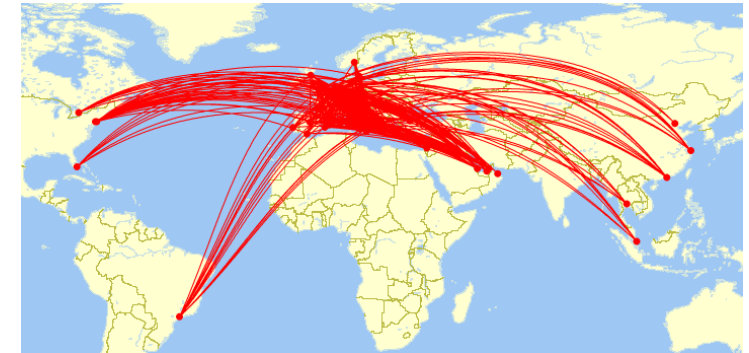
SH/LH Split of Self-Connection O&Ds
at MXP



Potential Self-Connecting
O&Ds



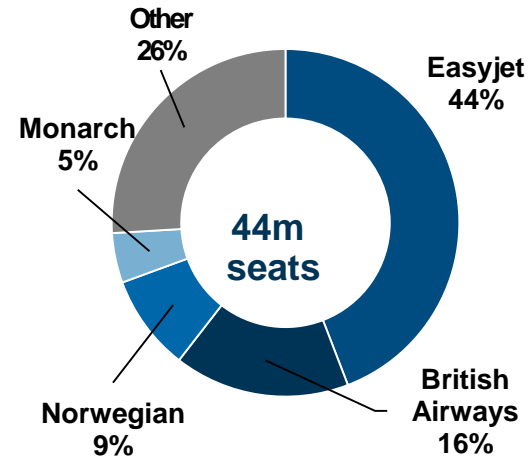
Top 360 Self Connections at MXP by
Addressable Market



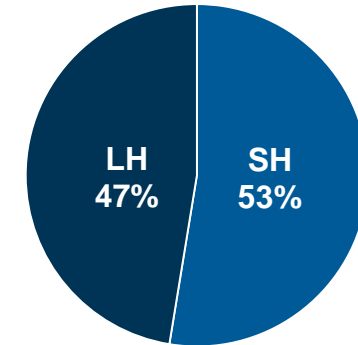
....So is Gatwick

- 188 destinations from LGW
- 36k theoretical connecting markets
- 5,600 with reasonable circuitry and connection time
- 2,200 unique markets that work in both directions
- 900 more than 4pw
- 65% of these no direct service
- 30mppa in these O&Ds

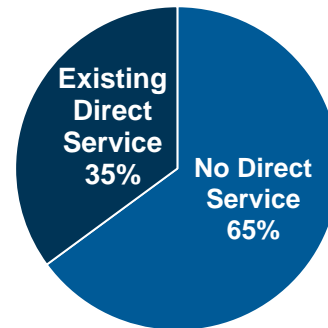
Annual Seat Capacity
2015



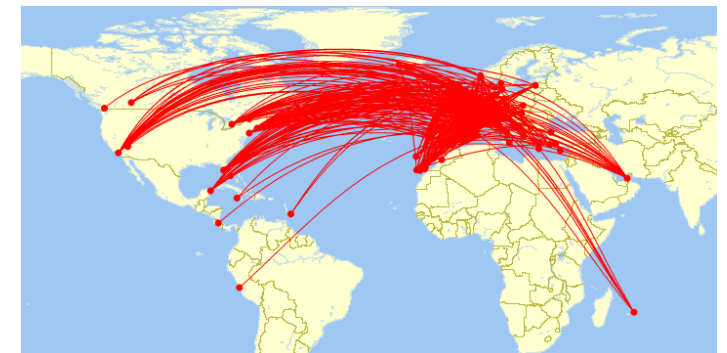
SH/LH Split of Self-Connection O&Ds
at LGW



Potential Self-Connecting O&Ds



Top 500 Self Connections at by
Addressable Market at LGW

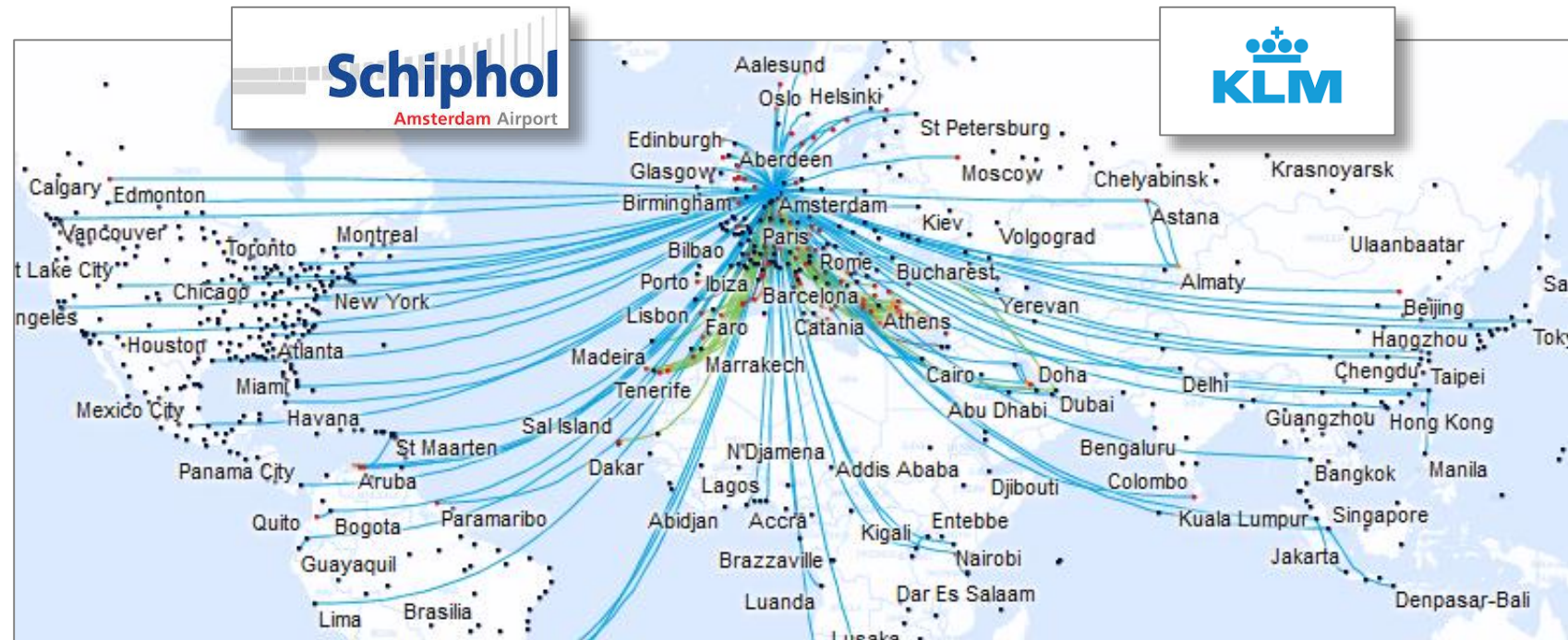


Dutch Aviation: *Threat or Opportunity?*

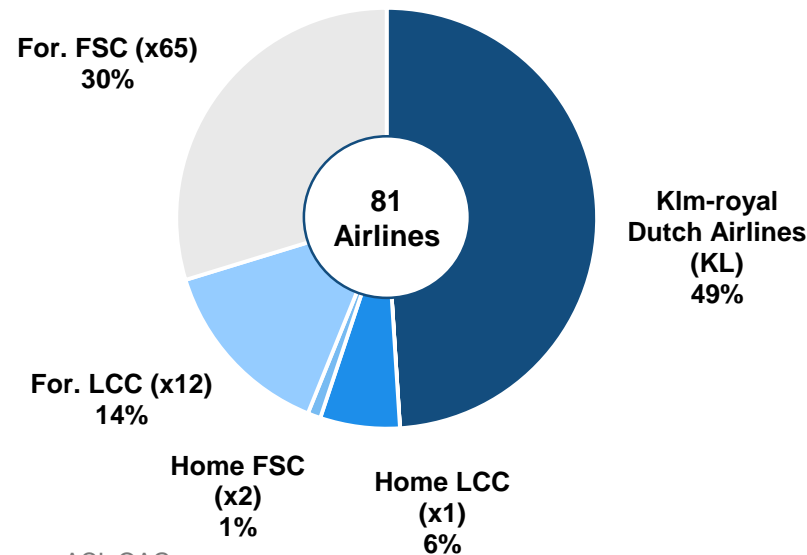


Schiphol and KLM and world class aviation names, dominating Dutch aviation

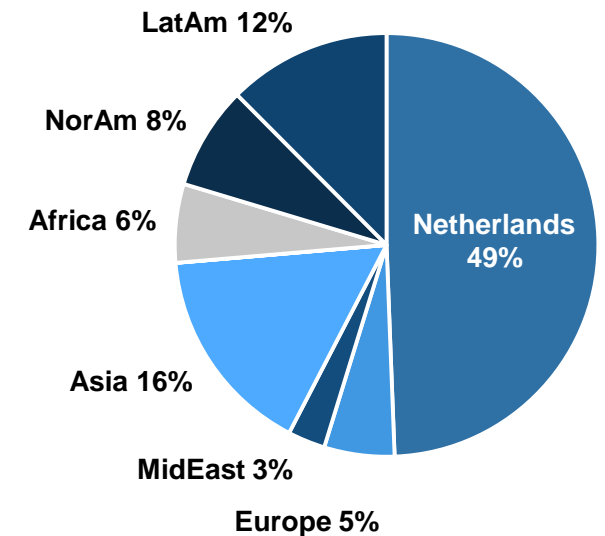
- AMS 58mppa, 40% transfer
- 5th busiest airport in Europe
- 14th busiest airport globally
- KLM 28mppa, 70% transfer
- 8th highest international pax



AMS Airlines, 2016



KLM ASMs by Region, 2016

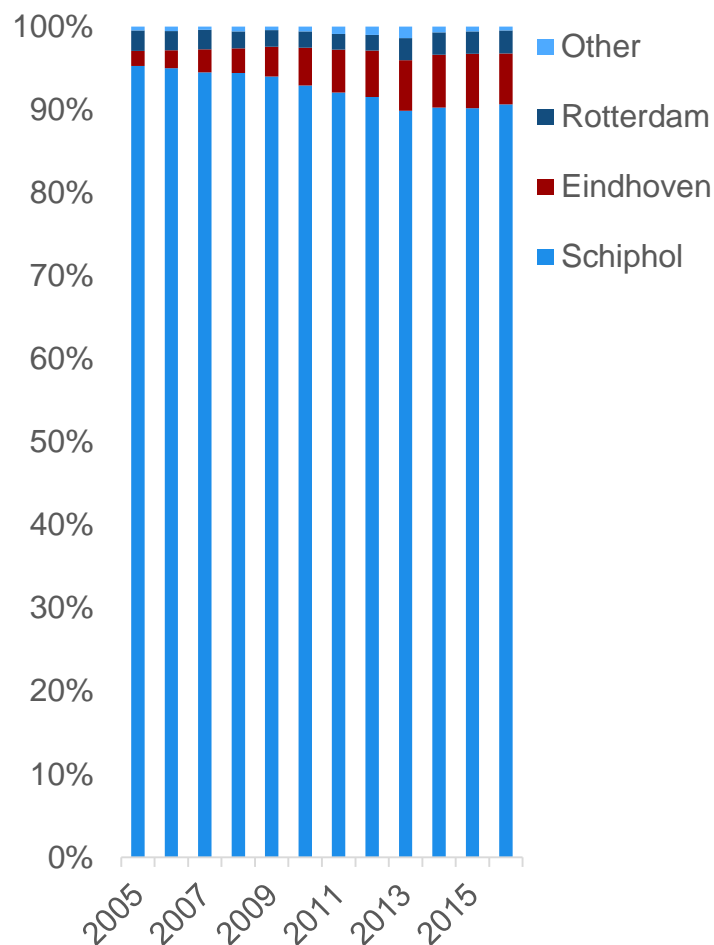


Schiphol accounts for over 90% of Dutch aviation capacity

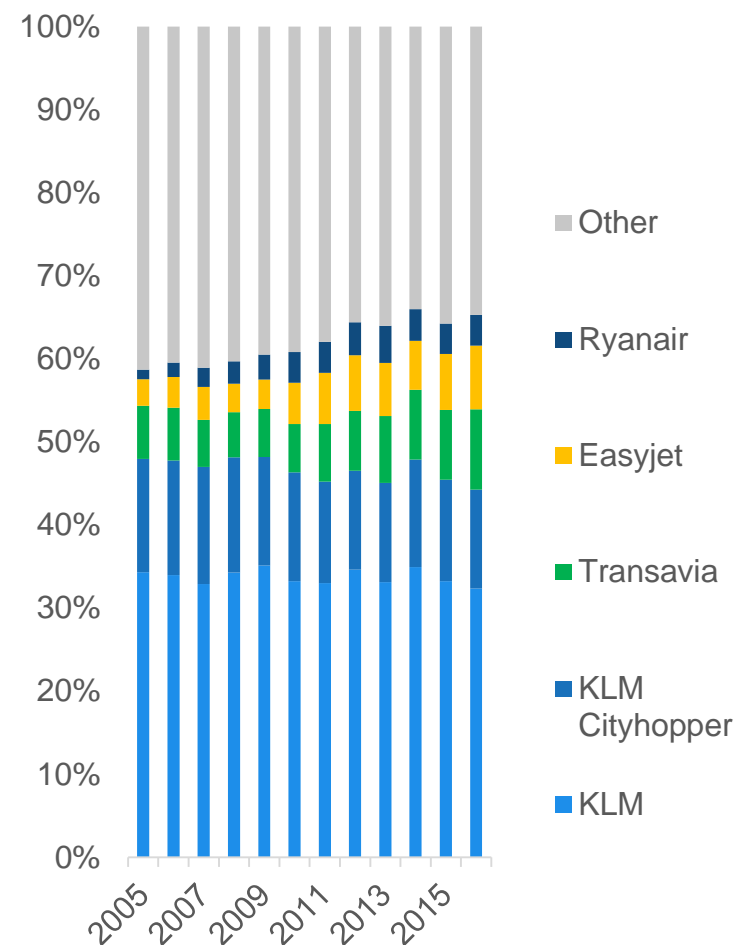
- LCC penetration remains low by European standards

It's not all about KLM at AMS....but it is pretty much

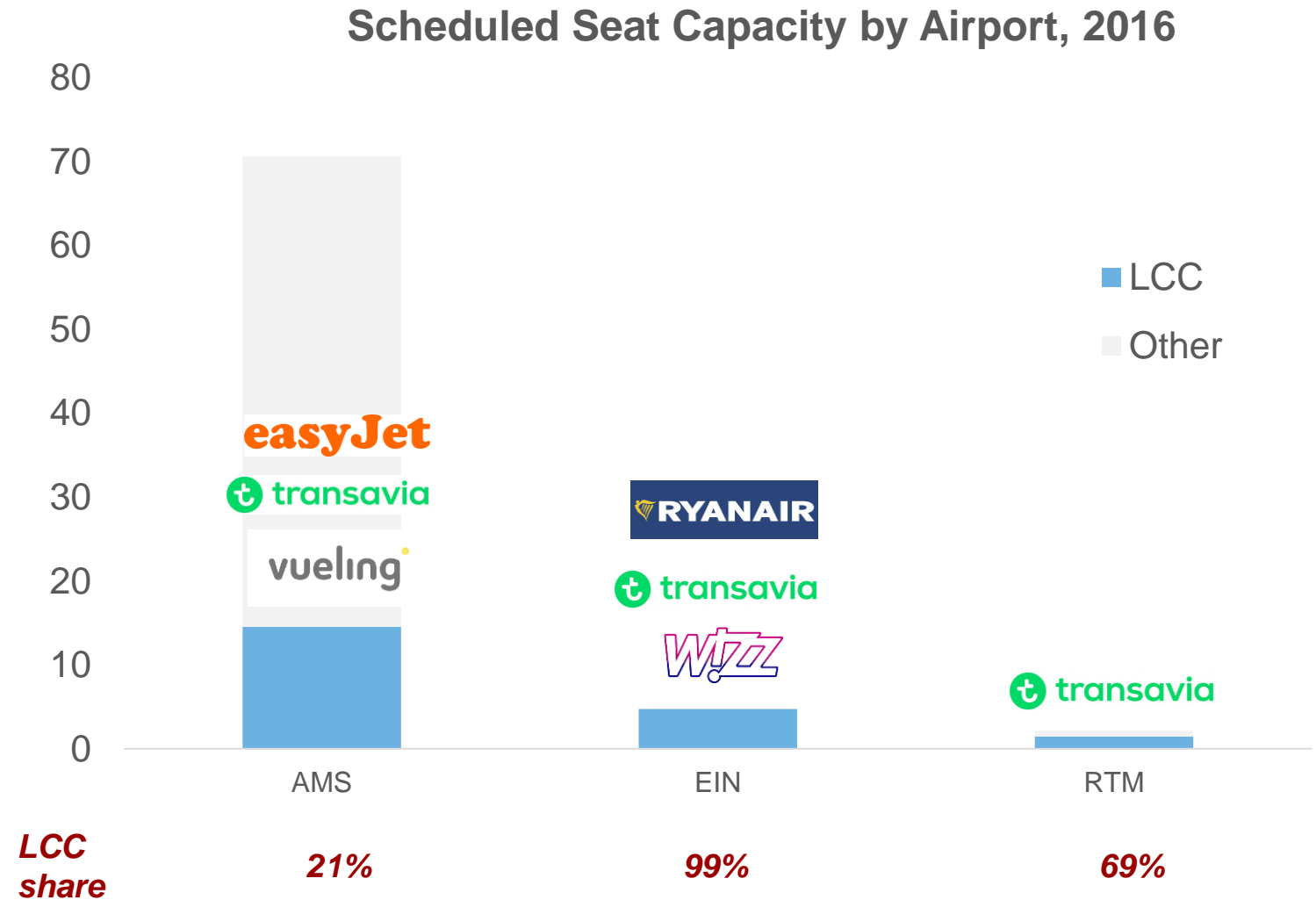
Annual Seat Capacity in Holland



Annual Seat Capacity in Holland



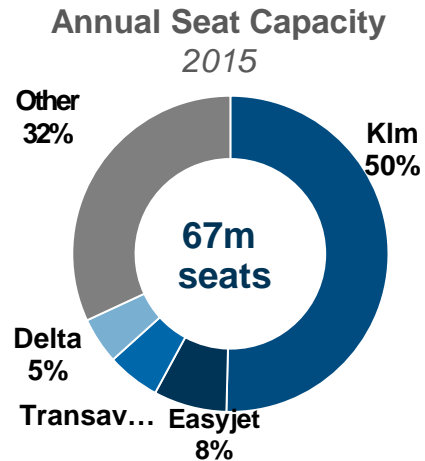
LCCs are making
their mark outside
AMS but scale is
limited



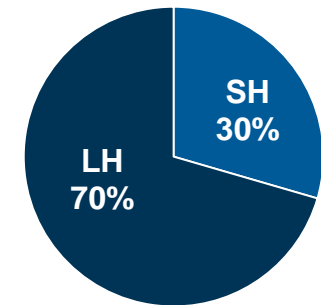
Schiphol is not a typical self-connect airport....

- 238 destinations from AMS
- 57k theoretical connecting markets
- 7,500 with reasonable circuitry and connection time
- 2,400 unique markets that work in both directions
- 1,000 more than 4pw
- 50% of these no direct service
- 40mppa in these O&Ds

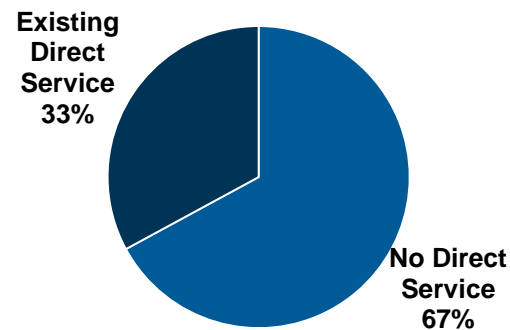
....but it offers significant self-connect potential for passengers, mostly on long-haul



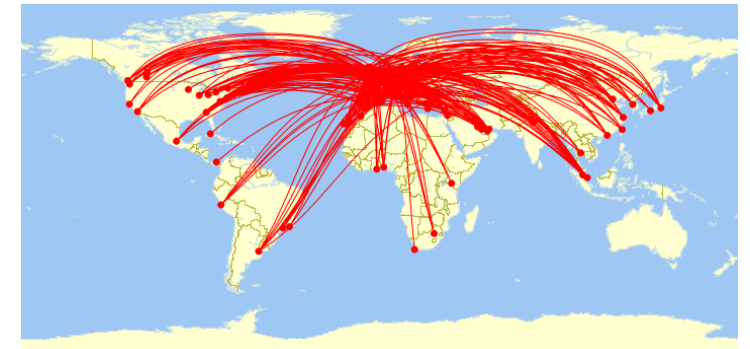
SH/LH Split of Self-Connection O&Ds at AMS



Potential Self-Connecting O&Ds

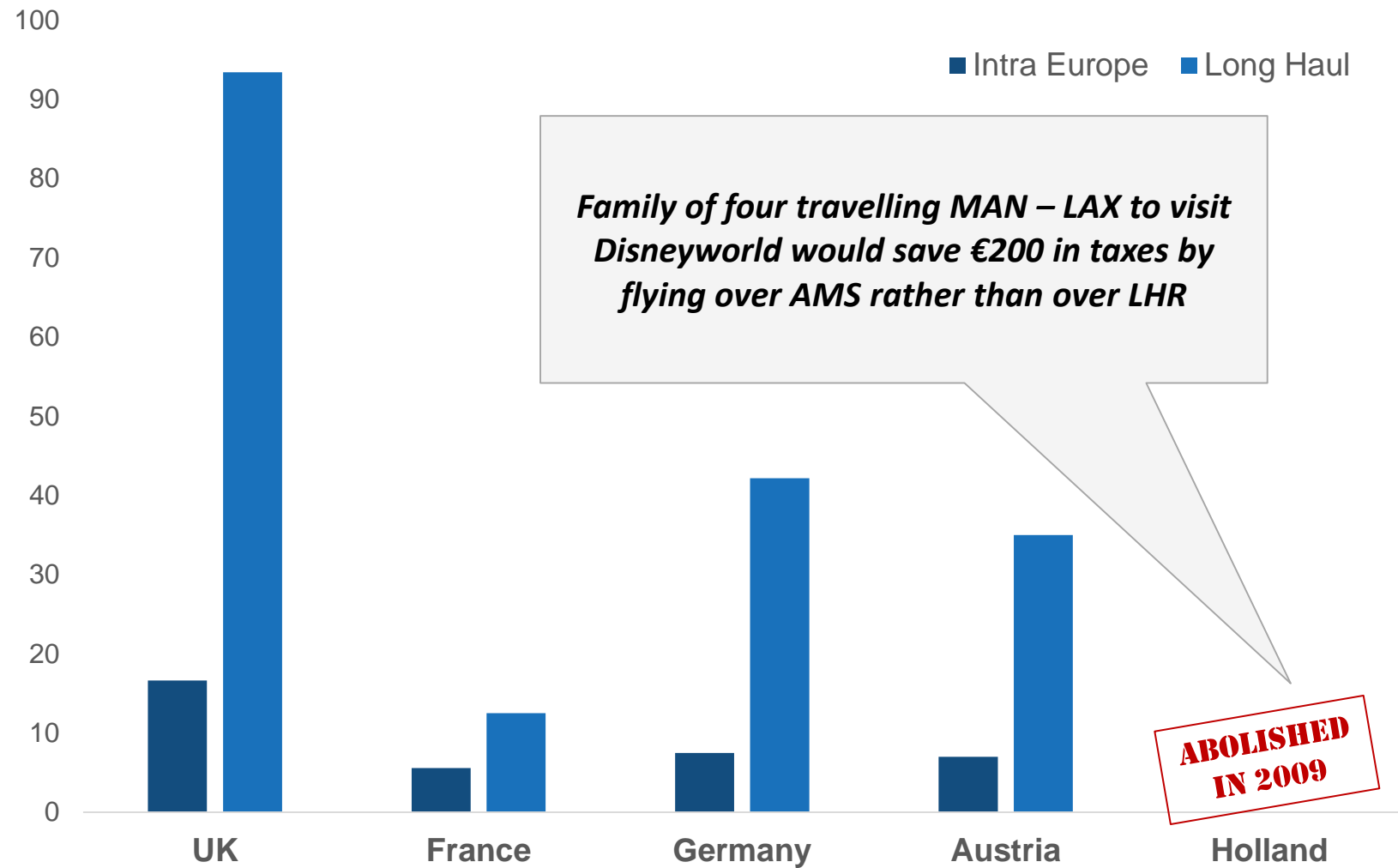


Top 500 Self Connections by Addressable Market at AMS



Taxation adds a further element of risk or opportunity; depending on where you are

Typical Aviation Taxes by Haul and Country of Departure



Where Next?

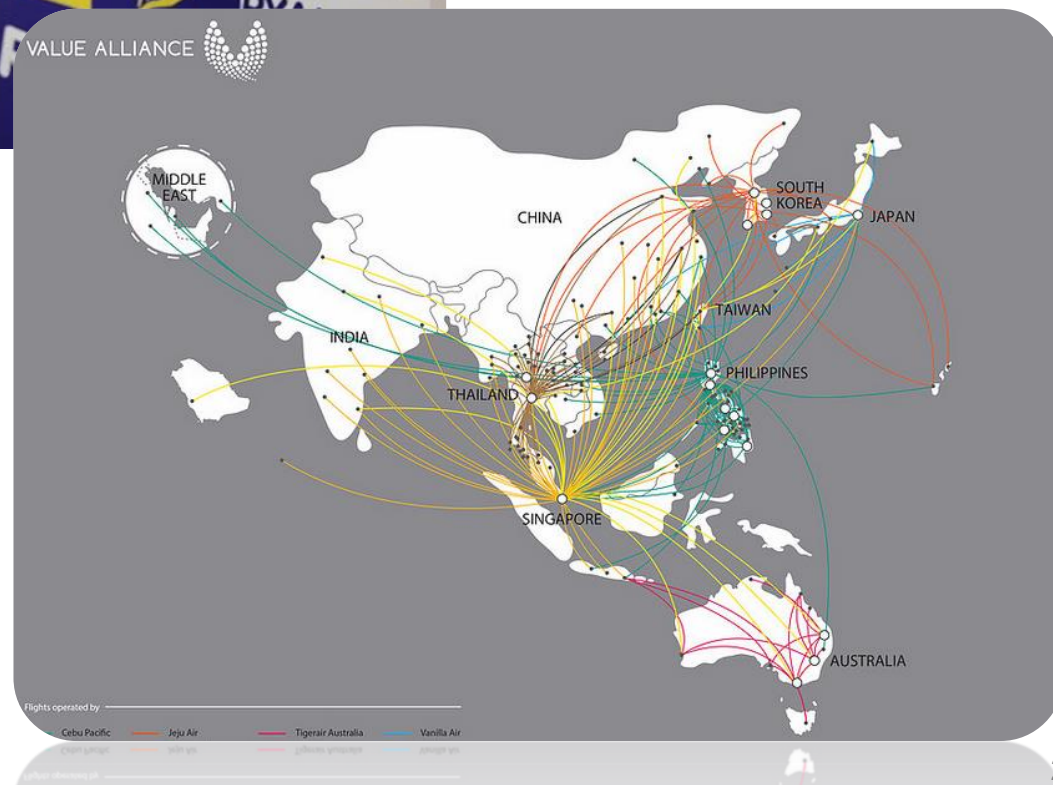


The LCCs are evolving, competing with each other and with legacy carriers



Own metal Cnx

LCC Alliance in Asia



ICF believes that distribution and risk sharing are the key hurdles

Who will raise awareness and availability of self-connections?



Meta search

Airports

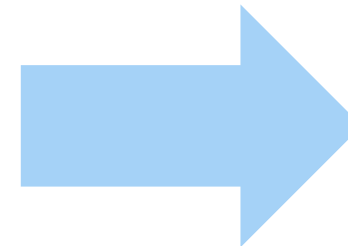
Airlines

OTAs

Other??

Who will shoulder the risk of missed connections?

- Schedule risk
- Lost bags
- Directionality
- Compensation (EC261)



- Operating airline
- Travel Agent
- Airport
- Third party insurance
- Handling Agent



In Summary...

- Self-connections have always existed, mostly used by independent, price-sensitive travellers on unusual itineraries
- Technology, network densification and passenger acceptance are leading to increased opportunities for self-connections
- Some of this activity will compete with traditional connections; some will lead to new demand
- Largest opportunity at airports with network scale, large share of LCC, some long-haul and helpful geographic location
- Even hubs such as AMS may see some opportunity, especially in the face of large taxation differences (e.g. ADP)
- Although potential is significant, hurdles to large-scale take-up remain and self-connect is not likely to replace traditional online and interline connections any time soon
- The key business decision for airlines and airports is whether this is a threat or an opportunity and to plan accordingly



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THANK YOU!

For questions regarding this presentation, please contact:

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With thanks to Nishaan Rama and Rob Walker, ICF

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