

# What makes an airport attractive for e-Commerce logistics providers

Air Transport Colloquium 2018

# Outline

- 1. Introduction
- 2. E-Commerce Market
- 3. Cross-border e-Commerce Strategy Factors
- 4. AHP-method
- 5. Summary of Findings
- 6. Conclusions

### **Challenges and Opportunities**



LT yield will approach average variable cost of freighter operations

in hac habitasse



Expected to be below 1 USD/kg in 2023

2016-20: Cross-Border e-Commerce



2 – 5% growth
via perishables & e-Commerce;
rest is almost zero sum game

e-Commerce growth, the not-to-be-missed opportunity IATA Cargo Strategy, 2018

modo sagitus cu a.

"The airfreight world is slowly changing from B2B to B2B2C" from Emirates

"With e-Commerce traditional import and export processes change...the links in the chain become fewer and fewer... With a higher degree of integration in the supply chain, the logistics market is getting smaller

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growth by 22%/year

Cross border shipping for e-commerce

Zenda removes the challenges of shipping

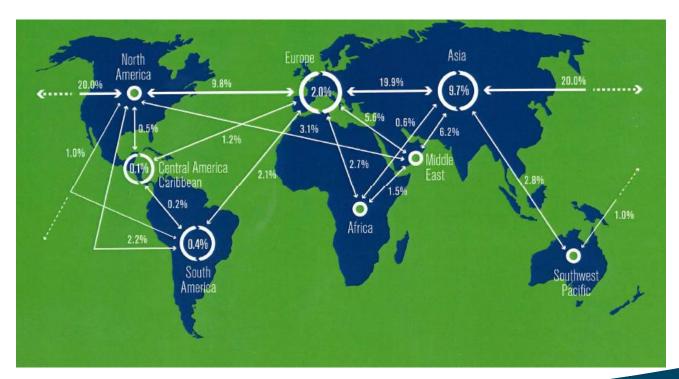
**eMarketeer** 

Cross-border shipping was never built with simplicity – until now. Zenda fills the void between express and postal delivery, with a single upfront cost and end-to-end tracking from your fulfilment center to your customer's door.



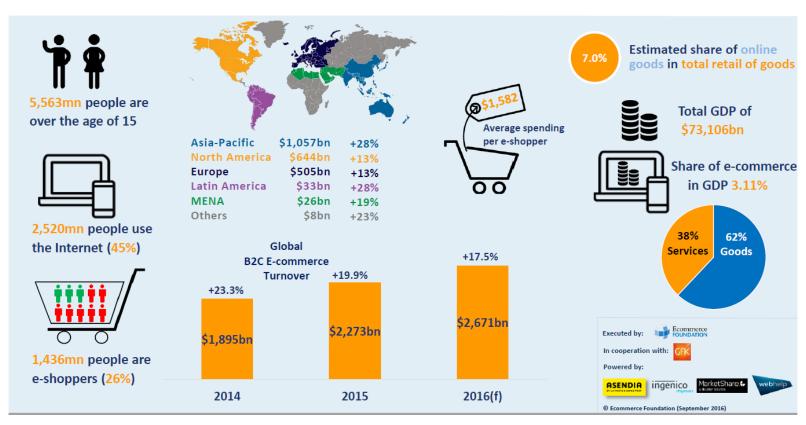
#### Trade lanes and routes are maturing

- 1. Maturing air cargo lanes USA → Europe
- 2. Opportunities in Asia Pacific
- 3. Key = to add higher value to the service offerings
- → Role of airports to add value in the chain is increasing!



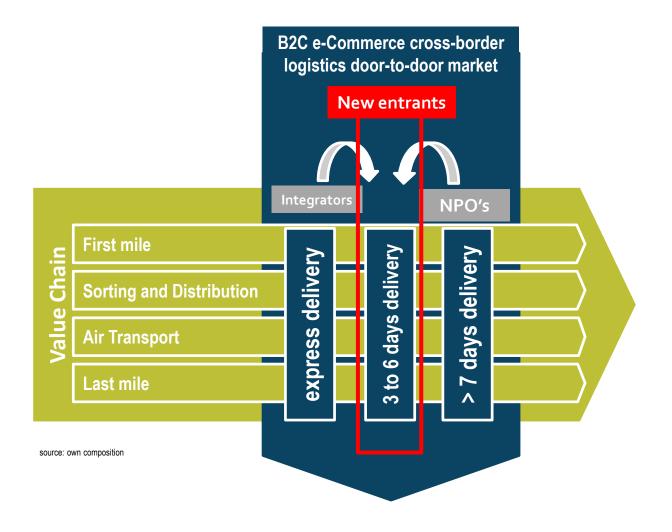
#### The parcels and express market continues to grow fast

2015 Global Key B2C e-Commerce Data of Goods and Services



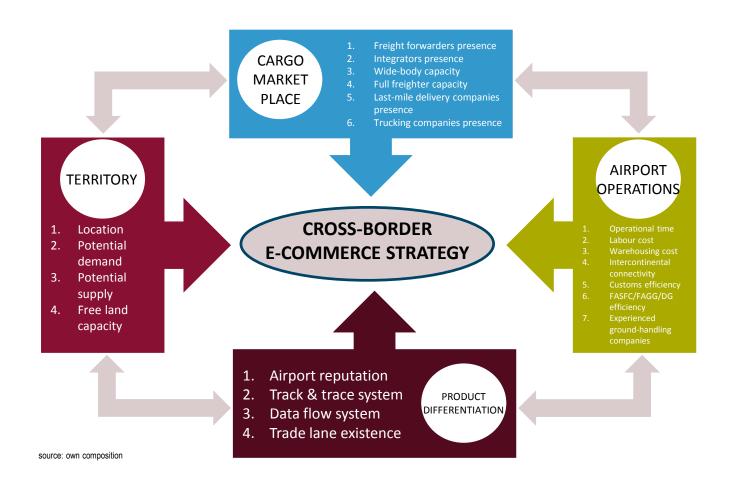
source: Ecommerce Foundation

# Current delivery chain business models are fading

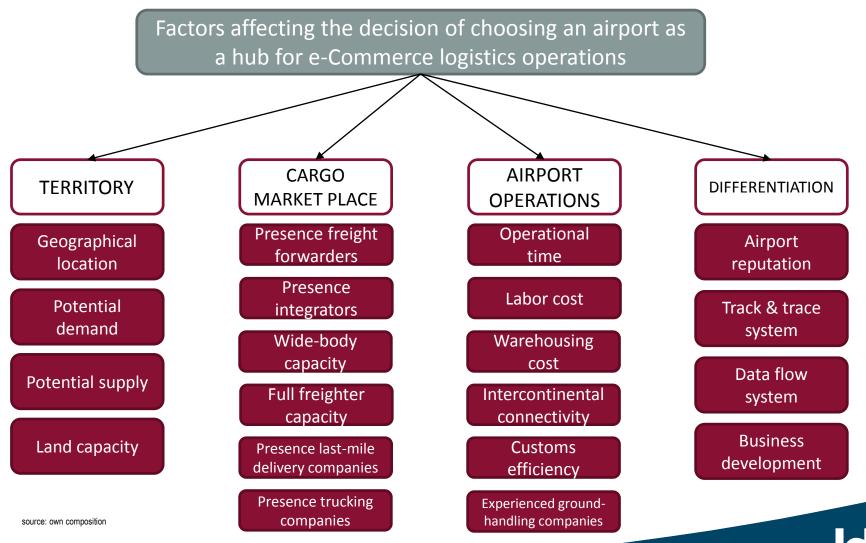




#### Cross-border e-Commerce Strategy Factors



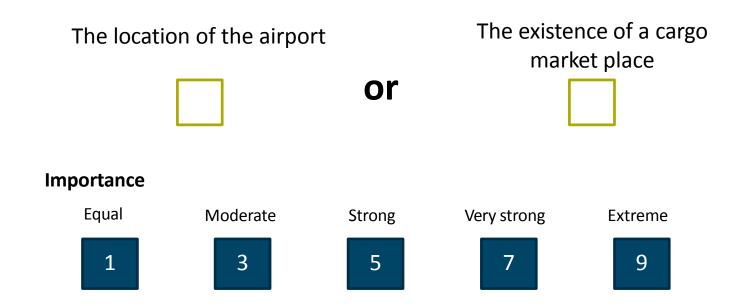
→ Validated by industry: interviews Belgian & Chinese ecommerce players



The Fundamental Scale for Pairwise Comparisons		
Intensity of Importance	Definition	Explanation
1	Equal importance	Two elements contribute equally to the objective
3	Moderate importance	Experience and judgment moderately favor one element over another
5	Strong importance	Experience and judgment strongly favor one element over another
7	Very strong importance	One element is favored very strongly over another; its dominance is demonstrated in practice
9	Extreme importance	The evidence favoring one element over another is of the highest possible order of affirmation

Intensities of 2, 4, 6, and 8 can be used to express intermediate values. Intensities of 1.1, 1.2, 1.3, etc. can be used for elements that are very close in importance.

What is more important for a company to establish at an airport to do e-Commerce operations...



$$\mathbf{A} = (a_{ij}) = \begin{bmatrix} 1 & w_1/w_2 & \dots & w_1/w_n \\ w_2/w_1 & 1 & \dots & w_2/w_n \\ \vdots & \vdots & \dots & \vdots \\ w_n/w_1 & w_n/w_2 & \dots & 1 \end{bmatrix}$$

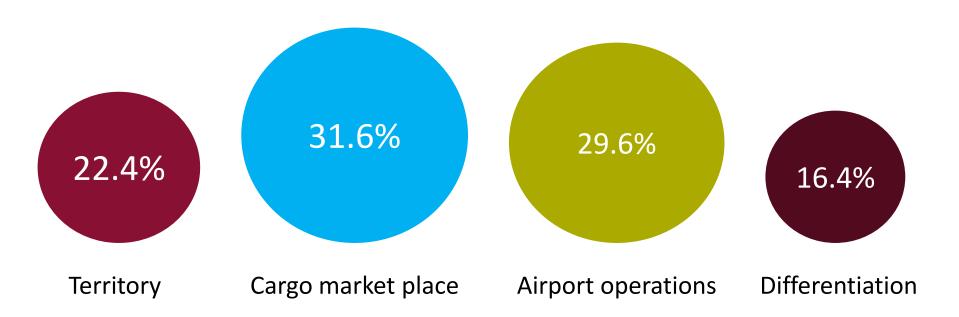
$$[W,\lambda] = eig(A)$$

Consistency Index = 
$$\frac{\lambda_{max} - n}{n - 1}$$

Consistency Ratio = 
$$\frac{Consistency\ Index}{Random\ Index} < 10\%$$

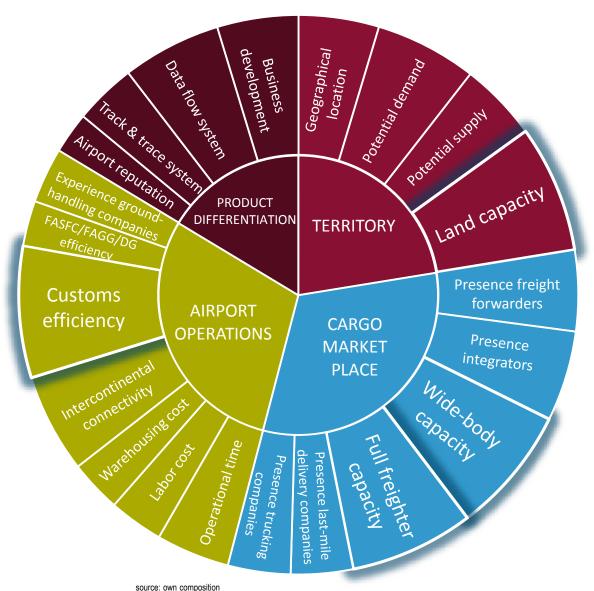
#### Summary of findings





source: own composition

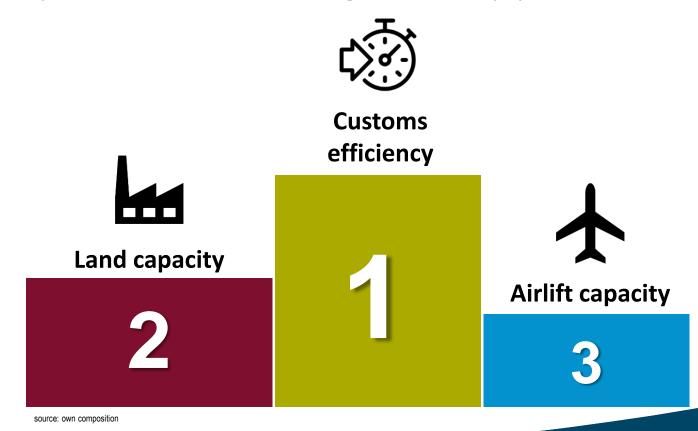
#### Summary of findings



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#### Summary of findings

- 1. Efficient & fast custom pre-clearance
- 2. Expansion landside
- 3. Expansion airside: full freighter + bellyspace



#### **Conclusions**

- 1. E-Commerce = main growth driver for air cargo → Cross border e-Commerce is expected to grow >30% per year
- 2. Study identified a number of key factors contributing to the success of an airport for e-Commerce:
  - 1. Customs pre-clearance capabilities
  - 2. Land or warehouse capacity
  - 3. Intercontinental airlift capacity
  - 4. E-Commerce branding



# Thank you for your attention!

Questions?

