## Developing a Regional Airport and Ground Transportation Plan for Southern Ontario

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# Understanding regional airport & ground transportation needs for Southern Ontario

- Airports require long-term planning cycles of 20-30 year periods in order to support the development of large scale infrastructure like terminals and runways
- As part of its long-term planning process, the GTAA is studying the regional airport and ground transportation network in Southern Ontario
- We developed a perspective on growth for the economy, population, air travel and ground transportation requirements of the region

 The study was supported by McKinsey & Company, The Centre for Spatial Economics (C4SE) and Professor Eric Miller

 We consulted with all levels of government,

including the Province (MTO, Finance, Municipal Affairs, Tourism), Transport Canada, Metrolinx, City of Toronto

 We are engaging with 10 regional airports in Southern Ontario to understand their growth plans and operational capabilities We studied the macroeconomic conditions in Southern Ontario and the implications on ground and air transportation 30 years from now



# After 2032, the region will not be able to accommodate expected increases in demand for air travel, even with GTAA planned capacity investments



1 Projection for Southern Ontario passenger traffic (excluding Ottawa) based on base case economic and population growth 2 Estimated maximum regional capacity assuming no additional investment, except Pearson

SOURCE: C4SE Economic Model; GTAA data; regional airport data; McKinsey analysis

### Driving times to Pearson will increase over the next 30 years



1 Does not correlate to flight departures. This chart represents when passengers leave to reach the airport on average 2 hours earlier

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### Toronto Pearson is increasingly becoming a major global hub airport

Airport name	Passenger traffic, 2014, Millions	Change in passenger traffic between 2013 and 2014, %
London Heathrow	73.4	+1.3%
Dubai International	70.5	+5.5%
Charles de Gaulle	63.8	+2.6%
Singapore Changi	54.1	-0.2%
John F. Kennedy International	53.2	+5.8%
Toronto Pearson International	38.6	+6.8%

# There are multiple options for regions to accommodate growing air passenger demand

	Description	Example airport
<b>1</b> Build a single, large airport	<ul> <li>Large hub airport to handle all current and future demand (connecting and O&amp;D traffic)</li> </ul>	Dubai Airports Connecting the World
<ul> <li>Develop a robust</li> <li>regional airport</li> <li>system</li> </ul>	<ul> <li>Network of regional airports throughout across greater Toronto</li> <li>Could be mixture of dual-hubs, hub and spoke, and separate</li> </ul>	THE PORT AUTHORITY OF NY & NJ
	O&D-focused airports	
<b>3</b> Status quo	<ul> <li>Pearson builds out to capacity</li> <li>Limited coordination amongst airports and ground transportation to accommodate</li> </ul>	BER BERLIN BRANDENBURG AIRPORT
	demand	

### 2 Approach and examples to regional airport systems

- Multi-airport systems are increasingly common in city-regions; ~60 'systems' worldwide
- Multi-airport systems can have a division of roles between the airports involved
- The GTAA is working closely with stakeholders to assess the development of a multi-airport system in Southern Ontario

 Regional airport systems around the world

 London: London Heathrow – Gatwick – Luton – etc.

 Heathrow M

 Vashington, DC: Ronald Reagan National –

Washington Dulles International

Reagan National Airport

Dulles International Airport





**New York:** John F. Kennedy International – Newark Liberty International – La Guardia – etc.





# Ground transportation is an integral component for a regional airport system

#### Why ground transportation matters

- Increases airport access for travelers and employees
- Connects airport to city center and other transport nodes (e.g., regional airports)
- Drives airport growth
- Requires integrated planning with city and region, including roadways

### Typical modes of "best-in-class" ground transportation

- High speed rail
- Heavy rail
- Bus rapid transit

#### Some airports have gotten it right...



### The last mile...transportation to Pearson



#### Proposed SmartTrack plan



#### **Proposed GTA west corridor**



#### **Union Pearson Express**



# Key considerations in supporting regional air traffic growth

- Airports are economic catalysts; driving major regional economic benefits
- Global cities have prioritized airports as part of their growth plans
- There are multiple ways to accommodate investment in airports (e.g., new airports, expanding existing system of airports)
- Ground transportation is critical to airport and regional growth