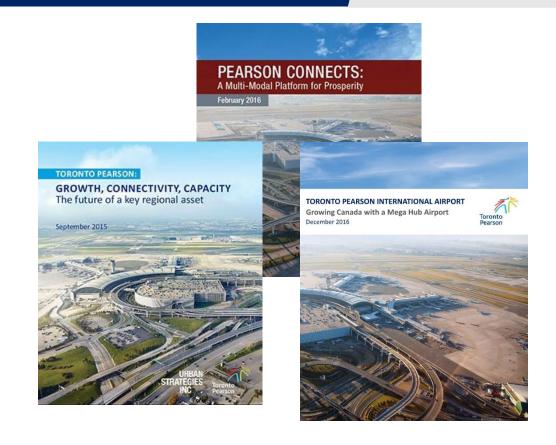


Stakeholder engagement



The GTAA has been proactively engaging stakeholders to outline how it is preparing to meet growing demand for the past two years.

Our Master Plan update in 2017 will explain our infrastructure and planning needs to achieve this vision over the next 20 years.



Engagement activities



- Industry and community consultative committees
- Public workshops
- One-on-one meetings and briefings
- External organizations and committee presentation
- Public meetings

- Employee forums
- Public tours
- Social media outreach
- Community events
- Community investments
- Public Surveys
- Residents
 Reference Panel
- Open houses



Key components of our Master Plan



Executive Summary,
Retrospective,
Guiding Principles,
Strategic Context
and Demand
Forecasts

Chapters 1-5

Infrastructure Plans
Chapters 6-11

Land Use Plan, Conclusions and Recommendation

Chapters 12&19-20

Impacts and Mitigation

Chapters 13-18

Our world has changed since 2007



	Characteristic	2007	2017	Key Takeaway	
	GTA Population	5.9 M	6.9M	There's a million more people in the GTA	
	Percentage of population with cellphones	60%	83%	We're much more mobile and connected	70 Anth
	Number of ultra-long haul nonstop (+6,000 miles) destinations from YYZ	5	13	Aircraft can fly further than ever before	
	Real cost of airline ticket to Vancouver	\$284 (2017 dollars)	\$215 (2017 dollars)	It's getting cheaper to fly	
	Median age of Ontario resident	39	41	We're getting older	
	G7% of Global GDP	53%	47%	Emerging economies are growing faster	
	Years since the Leafs won the Stanley Cup	40	50	Whatever	1

Key Chapter Updates



Master Plan Key Chapters	2008 v. 2017 Key Difference

- 5. Demand Forecast
- Faster increase in passengers, slower increase in cargo and aircraft movements
- Why? More demand but in bigger, fuller planes

exports

- 6. Airside System Do not see need for sixth runway in next 20 years
- **Why?** Advancements in air navigation technology and bigger, fuller planes
- 7. Passenger Terminal
- **System** through terminal
- 8. Ground Access System **Regional Transit Centre**
- reduce congestion and emissions 9. Cargo & Logistics
- logistics network Why? More wide body aircraft, multi-modal nature of air cargo, supporting

- Focus on technology advancements which have altered movement **Why?** Decreases the need for terminal space per passenger.
- Moving to high capacity, low emission ground access model concept of a
- Why? Increase speed and reliability of access, improve regional connectivity,
- More belly cargo vs freighters and the airport as part of an integrated

Key Chapter Updates



Master Plan Key Chapters	2008 v. 2017 Key Difference
10. Aviation Fuel	Review of the full supply chain and consideration of future power sources Why? Longer stage lengths, ensuring a resilient supply chain and advent of alternative fuels
11. Utilities	Focus on ensuring feeder capacity keeps up with our projected growth. Why: Identify and resolve potential blockages to our growth
12. Land Uses	Focus on densification Why: Toronto Pearson is relatively land constrained and to support transit ridership
13. Interface with Surrounding Area Plans	Recognition that Toronto Pearson anchors the second largest employment zone in Canada Why: Better outcomes from integrated land use and transportation planning with neighbours.

Key Chapter Updates



Master Plan Key Chapters	2008 v. 2017 Key Difference
14. Regional Airports Network	Recognition that we operate in a network of regional airports, similar to large metropolitan regions worldwide, and a formal coalition has been established Why: Framework for optimal use of regional airport capacity and ground access investments
15. Corporate Responsibility	Commitment to economic, social and environmental impact on region and country Updated 30 NEF contour Why: To reaffirm commitment to mitigating our impacts



Toronto Pearson in 2037



2016

2037

44 million passengers

85 million passengers

456,000 total aircraft movements

632,000 total aircraft movements

106 passengers / air carrier movement

140 passengers / air carrier movement

450,000 tonnes of cargo

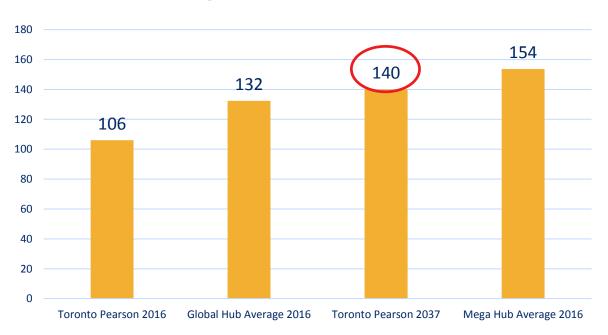
950,000 tonnes of cargo

Passengers Per Movement:

How Do We/Will We Compare?



Passengers/Air Carrier Movement



Accommodating regional demand: Southern Ontario Airport Network







Toronto Pearson's regional transit centre: strategically located to support a more integrated transit network





Concept rendering: Regional transit centre and passenger processing facility





Connectivity and frequent service attracts new firms, increases property value



More than half of companies consider international transport links to be an essential factor when locating a business in Europe (European Cities Monitor survey)



Frankfurt Airport





Schiphol



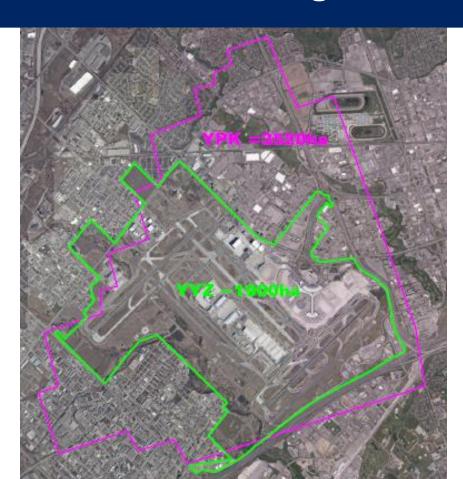
Airport Land Area (ha) Benchmarking





Toronto Pearson vs. Pickering Land Area





Land Use Plan



Land Use Categories

- 1) Airfield
- 2) Passenger Terminal
- 3) Ground Access
- 4) Other Airport Development e.g. such as cargo facilities, flight kitchens, hangars, car rental facilities and hotels
- 5) Environmental Protection Areas

Cross-hatching, that is dual designation of land, is permitted. No changes proposed to land-use categories.

Land Use Plan to 2037

Minimal changes from current LUP

- 1. Addition of ~30 ha of Boeing Lands at Derry and Airport Roads
- 2. Regional Transit Centre and processor
- 3. North and midfield terminal expansion options protected
- 4. Phased terminal expansion including additional gates, more baggage capacity, with eventual single contiguous terminal
- 5. Plan still protects for sixth runway but does not anticipate a new runway is needed to accommodate capacity



Noise Exposure Forecast and Land Uses



- GTAA has established an Airport Operating Area (AOA) based on the NEF 30 contour which is embedded in Municipal official plans.
- For new, non-urban airports it is recommended to avoid residential developments within NEF 25 noise contour.
- Current modeling of the future noise exposure scenarios is underway.



Impacts and Mitigation



Achieving our vision to be the best airport in the world relies on managing the airport responsibly. We are working to maximize the economic benefits that Toronto Pearson brings, while carefully managing our environmental responsibilities and being a good neighbour to our local communities.





Environmental program





- Partners in Project Green
- On-site apiary, YYbeeZ
- Waste diversion
- Air Quality Study
- Electric Vehicle (EV) charging stations
- Level 3 (Optimization) Airport Carbon
 Accreditation

Community Investment: Propeller Project





Signature Program - Uplift Fund:

Championing access to employment for our neighbours by supporting research, advocacy work and public-facing programs that enable local area residents to gain the skills, connections and opportunities to be meaningfully employed in communities near the airport and beyond.

Nest Fund:

Supports programs and organizations that have a positive impact on communities surrounding Toronto Pearsonm with priorities in: environment, community and employment.

Noise Management





- Residents' Reference Panel
- New Noise Monitoring Terminal installations
- Noise Management Benchmarking Study
- GTAA & NAV CANADA's Toronto Noise Mitigation
 Initiatives (The 6 Ideas)
- Survey on Noise Fairness & Airport Growth
- Community Environment and Noise Advisory
 Committee (CENAC)
- 5-Year Noise Management Action Plan (late 2017)

