



Kelowna International Airport

Master Plan 2045

Presentation to City Council September 19, 2016



YLW Master Plan 2045 Presentation Overview

- Our Progress and Current Status
- Review of Master Plan 2045 Study Components
- Stakeholder and Public Consultation



- Key Findings
- Highlights and Recommendations
- Next Steps and Timing



YLW Master Plan 2045 Our Progress and Current Status



- Updated air traffic forecasts
- Completed two internal YLW workshops and one consultant integration workshop

- Refined analysis and detailed recommendations
- Completed stakeholder and public consultations





YLW Master Plan 2045 Master Plan Study Components: At-a-Glance





Air Traffic Analysis and Forecasting: Air Traffic and Passenger Growth



Apron and Aircraft Parking (Infrastructure)



Airside System: Runways and Taxiways



Air Terminal Building



Airport Economic Impacts



Public Roads, Access and Vehicle Parking



New Regulatory Requirements



Commercial Land Development: Airside and Groundside



Potential Land Acquisition Areas



Noise Contours and Other Environmental Considerations



Stakeholder and Public Consultation Timeline and Process: Three-phase Approach



Final Master

Stakeholder and public feedback was considered in all three phases of the YLW Master Plan 2045

		Plan Development
Preliminary Maste Plan Developmen		Finalize All Consultations and Issue Consultation Summary Report
Key Stakeholder Consultations	Key Stakeholder and Public Consultations	SUMMER 2016 - NOV 2016
MAR – JULY 2015	JULY 2015 – SUMMER 2016	



Stakeholder and Public Consultation Outreach Summary



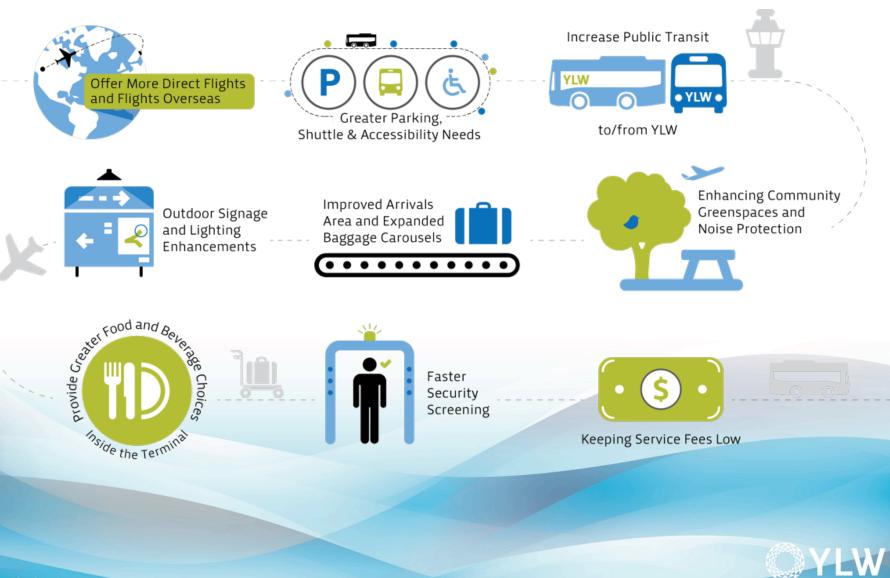
- Stakeholder meetings included the City and our Committees, Business and Government Partners, Chambers of Commerce, Regional Districts, Neighbouring Municipalities, and Aboriginal and First Nations Partners
- Two public open houses were also held in 2016 (Feb 27 and Aug 20)
- Print, online and social media awareness
 and engagement also completed
- Over 10,000 hits to Master Plan webpage
- To date, over 300 surveys completed, and over 100 were submitted online (33.4%)





Stakeholder and Public Consultation Feedback Priorities





Key Findings



Master Plan Findings

YLW's current development strategy remains valid



YLW generates significant direct economic impacts over **1,400 jobs** and a CDP of **\$152 million**



Passenger traffic is forecast to increase from **1.6 to 3.5 million** passengers by 2045 Aircraft movements are forecast to increase by approximately 50% - most will come from air carriers



Current Official Community Plan (OCP) zoning should be preserved - a future OCP amendment may be required



New aerodrome regulations will impact planning Current runway capacity and length are sufficient to meet future demand



Apron will require five new remote aircraft parking stands and one new terminal gate stand by 2045



Air terminal building will require an expanded departure lounge and baggage claim areas Current roadways and parking facilities require **reconfiguration** and expansion



More commercial land (on YLW land) is required

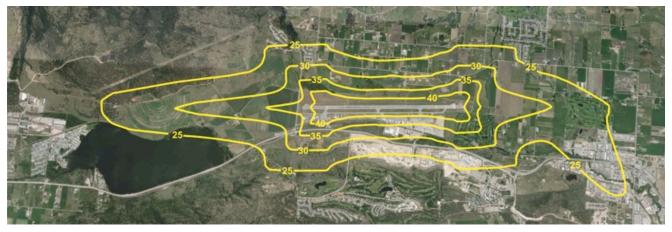


Additional land (off YLW property) is required in addition to the golf course acquisition



Highlights of YLW Master Plan 2045 Noise Exposure

2025 Noise Exposure Forecast



2045 Noise Exposure Forecast





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Highlights of YLW Master Plan 2045 Kelowna 2030 OCP



Recommendation:

- Maintain existing land use protections around the airport to prevent future encroachment of incompatible development
- Align current Official Community Plan (OCP) wildlife protection and habitat enhancement objectives to consider airport–specific operational requirements
- Request removal of Agricultural Land Reserve (ALR) situated within YLW boundaries from Agricultural Land Commission (ALC)
- Review YLW Aeronautical Zoning (i.e. height restrictions under approach/departure paths) based on recommended runway protection







Recommendation:

Mill Creek

- Retain existing Mill Creek channel and locate any future airside projects east of the runway beyond the Creek
- Regionally coordinate management and control strategies for Mill Creek

Glycol Collection

• Develop a glycol collection system that allows waste water treatment prior to being discharged into downstream receiving waters or sewer system



Highlights of YLW Master Plan 2045 Runway Length



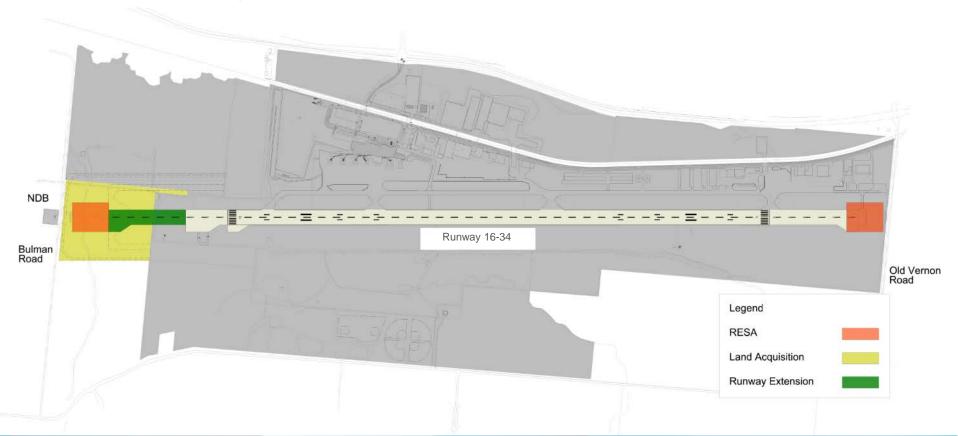
- Protect for Non Precision Runway for larger aircraft such as the B767 A330; and newer B787, A350
- Short-term: Implement Runway End Safety Areas (RESA)
- Longer-term: Extended Runway within airport boundaries
 up to maximum 10,000 ft length





Highlights of YLW Master Plan 2045 Runway Length

Recommended Layout





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Recommendation:

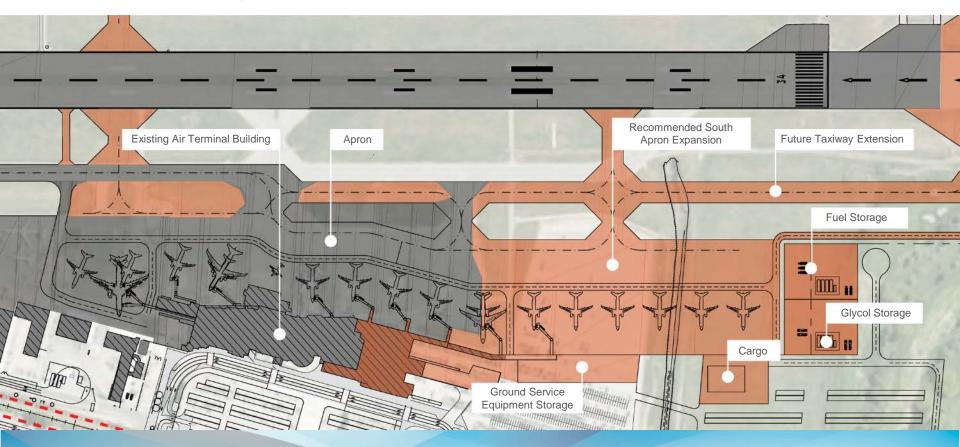
- Add one to two terminal gates by 2036 2040
- Add two to three remote parking stands by 2025
- Five total needed by 2045







Recommended Layout



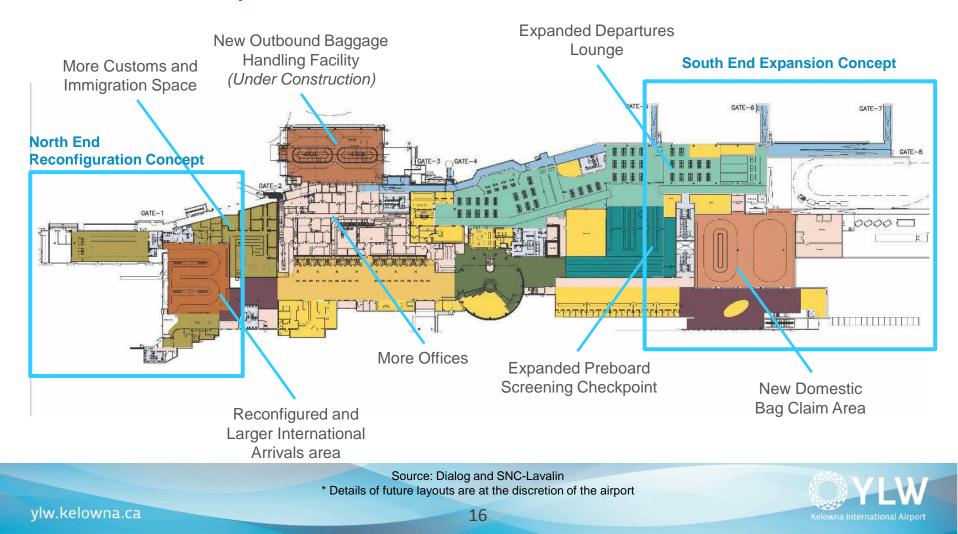


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Recommended Layout



Highlights of YLW Master Plan 2045 Air Terminal Building



Terminal Demand-Capacity

		Existing, Incl. New Bag Make Up /HBS (m2)	Updated ATB Functional Program Requirements (m ²)					
	Note		2016	2020	2025	2030	2035	2045
Enplaning								
Departures Concourse Area (incl. check-in queue)		1,447	756	854	968	1,031	1,151	1,321
Check-in Counters (excl. queuing)		175	124	138	152	166	179	195
Preboard Screening Checkpoint		457	429	429	572	572	572	715
Departures Lounge (Usable)	1	793	969	1,105	1,274	1,375	1,544	1,770
Departures Lounge (Underutilized)	1	396						
Concessions, including storage		1,104	1,113	1,358	1,601	1,824	2,041	2,451
Bag Make-up/HBS		1,042	448	511	589	636	714	819
ATO Support/Airline Offices		648	612	712	819	928	1,346	1,553
Deplaning								
Domestic Bag Claim	2	595	691	1,012	1,012	1,012	1,012	1,012
International/Transborder Bag Claim	2	248	321	321	642	963	963	963
CBSA PIL, Secondary and Support		488	371	455	594	632	688	688
All								
Arrivals Lobby Landside		294	236	276	299	305	313	348
Car Rentals/Tour Operators		44	263	320	363	388	401	453
Total All Spaces		7,731	6,333	7,491	8,885	9,832	10,924	12,288
Demand less than 95% of Capacity Demand within 95% and 110% of Capacity Demand > 110% of Capacity								





Recommendation:

- Reconfigure road network accessing the terminal, segregate terminal traffic
- Progressive upgrade to Highway 97 / Airport Way intersection
- Develop dedicated bus/shuttle loop
- Expand short and long-term parking lots, and car rental lot
- Create terminal plaza

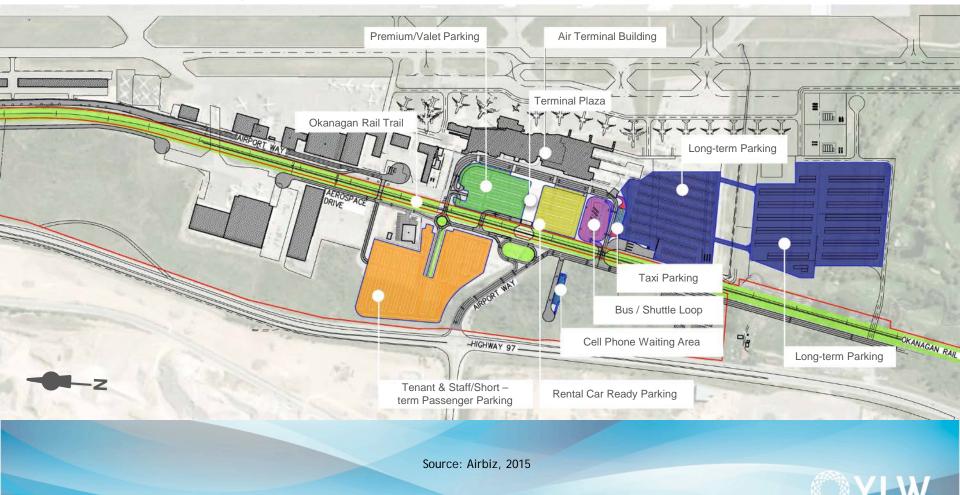
Master Plan analysis has identified that a parkade is not required



Highlights of YLW Master Plan 2045 Car Parking and Roads



Recommended Layout

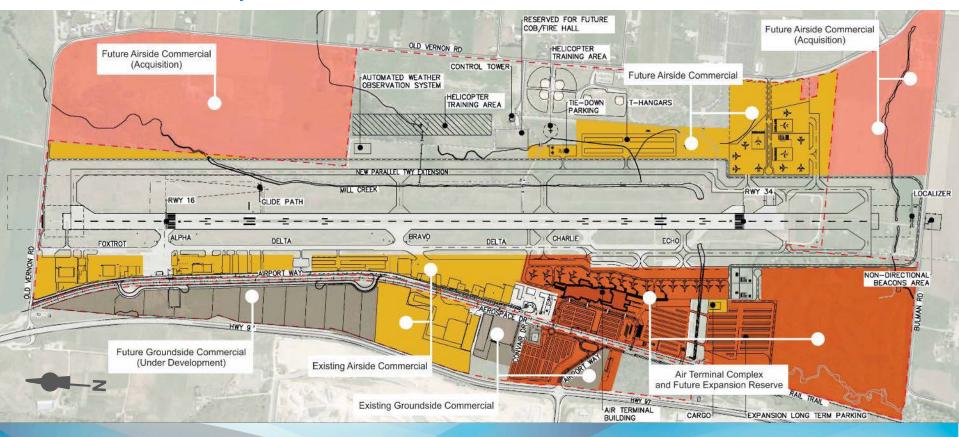


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Recommended Layout

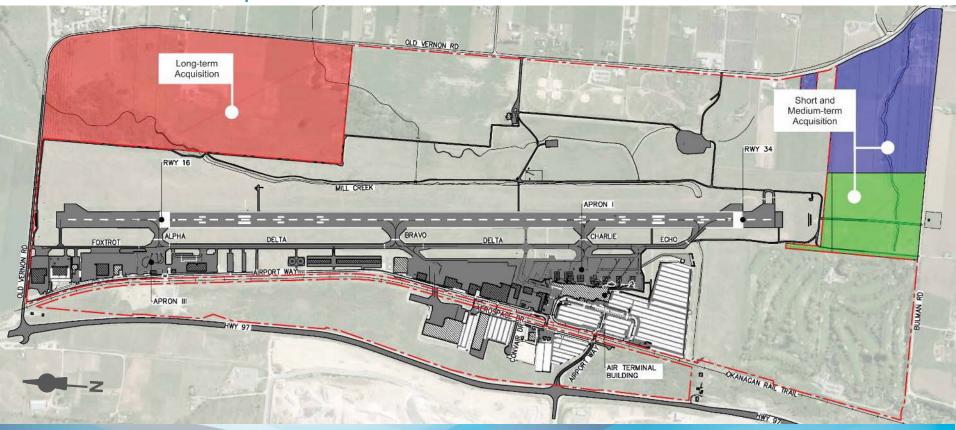




Highlights of YLW Master Plan 2045 Land Acquisition



Recommended Acquisition









- Council Feedback 7 October 2016
- Finalize Stakeholder Consultations 7 October 2016
- Finalize Master Plan 2045 Document Late October/November 2016
- Presentation to Council for Master Plan 2045 Endorsement November 2016

