

Appendix C : Master Plan 2045 Consultation Summary Report

Master Plan 2045 Consultation Summary Report

November 2016

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1. EXECUTIVE SUMMARY

In March 2015, the Kelowna International Airport (YLW) engaged SNC-Lavalin’s Airports & Aviation group and its consultant team to update the existing Master Plan 2025. Updating the existing Master Plan 2025 will guide future airport development and cost effectively meet aviation demand, while considering potential environmental and socio-economic impacts.

In partnership with YLW and the City of Kelowna (the City), the team developed **Master Plan 2045** in support of **YLW’s vision to become the best mid-sized airport in North America**. The team has applied previous YLW and City data, including the Stakeholder and public issues and outcomes from Master Plan 2025, along with current analysis and engagement to guide Master Plan 2045.

Of particular importance to the success of Master Plan 2045 is strategic communication and engagement with Stakeholders and the public not only in Kelowna, but also in the surrounding area. One key deliverable of YLW’s Master Plan 2045 was to **‘encompass input from the communities and stakeholders served by YLW and ensure it is reflected in development.’**

To meet this objective, our team developed a *Master Plan 2045 Communication and Engagement Plan* as a three-phased framework to strategically inform and engage Stakeholders and the public about the long-term growth and development of YLW, and more acutely understand the current and future interests and priorities of those served by YLW in the region. The Plan was developed in accordance with the City’s *Engage Policy* in collaboration from City and YLW communications staff.

This framework identified emerging issues, opportunities and key recommendations that extend beyond Master Plan 2045, and that will support the overarching 5-year Strategic Plan, the City’s Official Community Plan and other Capital, Planning and Infrastructure initiatives in Kelowna and surrounding areas. Stakeholder outreach included input from government agencies, regional districts, neighbouring municipalities, business and community partners, chambers of commerce, the University of British Columbia Okanagan (UBCO) and other key organizations where the overlap of capital, community and master planning exists. Our Outreach Schedule that outlines the engaged Stakeholder groups is located in the Appendix of this document.

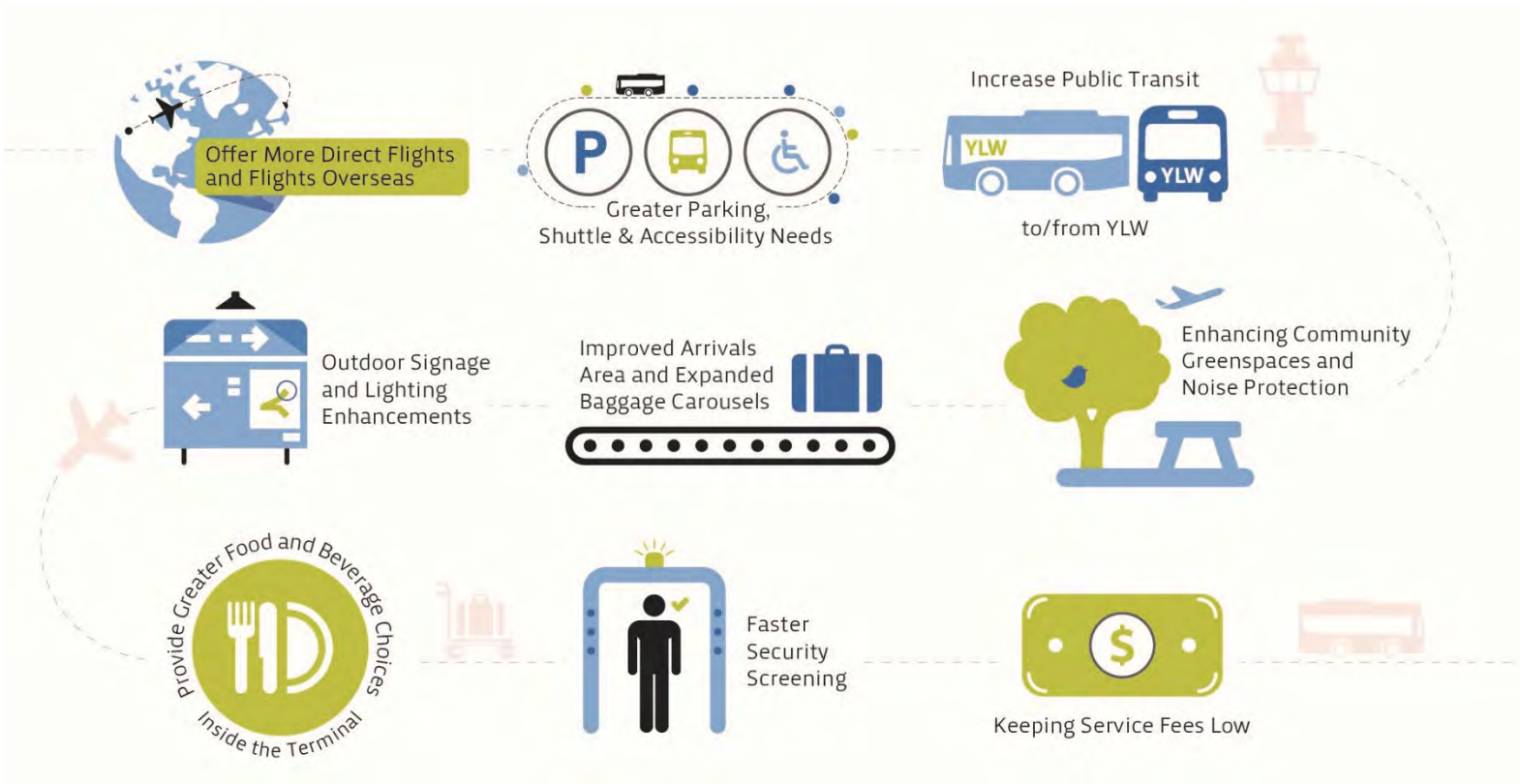
In summary, from March 2015 through October 2016, our Master Plan 2045 communication and engagement program included:

- Over 45 Stakeholder meetings, presentations and workshops were held and two open houses were hosted
- Print and electronic advertising and materials were used, including newspaper and print ads, display boards, surveys, handouts and presentations
- Over 300 feedback forms were submitted (Over 100 were submitted online)
- Advertising and posts on YLW’s website, Facebook, Twitter and Instagram were completed



Executive Summary of Public Feedback: The Top Priorities

Below is a summary of the top priorities the public recorded on their surveys at meetings and open houses (print survey responses), and online (electronic survey responses).



Along with their recommendations about what’s important to sustain and/or improve, the public expressed their satisfaction with the services that YLW offers.

Services out of the control of YLW, such as security screening (CATSA) and flight offerings (airlines), will be discussed and tracked with each agency so YLW can provide updates about improvements to tenant services.

More detail about Stakeholder and public feedback is located in Section 8 of this report.

2. MASTER PLAN 2045 FINDINGS

Our overall **Master Plan Findings** summary below is based on technical reports and analysis, changing and static regulations and so on. It is important for Stakeholders and the public to understand the technical components and outcomes of Master Plan 2045 as we consider and incorporate their priorities for the future.

These key findings form the basis for recommendations, planning and implementation of future growth and development opportunities at YLW.

Master Plan Findings

<p>YLW's current development strategy remains valid</p>  <p>YLW generates significant direct economic impacts over 1,400 jobs and a GDP of \$152 million</p>  <p>Passenger traffic is forecast to increase from 1.6 to 3.5 million passengers by 2045</p>	<p>Aircraft movements are forecast to increase by approximately 50% - most will come from air carriers</p>  <p>Amendment to the Current Official Community Plan (OCP) will be required</p>  <p>New aerodrome regulations will impact planning</p>	<p>Future runway extension required to serve new international markets</p>  <p>Apron will require five new remote aircraft parking stands and one new terminal gate stand by 2045</p>  <p>Air terminal building will require an expanded departure lounge and baggage claim areas</p>	<p>Current access, roadways and parking require reconfiguration and expansion</p>  <p>Greater commercial opportunities (on YLW land) for commercial development are required</p>  <p>Additional land (off YLW property) is required</p>
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Technical analysis and key Stakeholder input guides the findings and assists in determining next steps.

Public feedback is also critically important, and typically focusses on less technical aspects such as keeping end-user service fees low and standards high, increased accessibility, faster security screening, additional flights and direct flights to new international destinations, and so on.

For more information about the Master Plan 2045 Findings, please review the Master Plan 2045 document.

The team considers the key findings, interests and priorities of Stakeholders and the public to determine next steps and potential phased implementation through 2045.

3. STAKEHOLDER AND PUBLIC CONSULTATION: PROCESS AND TIMELINE

The Master Plan 2045 process was segmented into three distinct phases (**Preliminary, Detailed and Final Master Plan**), all with communication and outreach activities aligned as Master Plan 2045 developed. This allowed our team to conduct a technical analysis with input from key Stakeholders at specific junctions, then adding input from the public, and concluding the process with final Stakeholder consultations prior to reporting out the results.

The consultation program was in effect from **March 2015 through November 2016**, at which time the team completed the technical analysis and input to finalize Master Plan 2045 and make key recommendations.



All three phases allowed for the identification of emerging issues, opportunities and key recommendations that will extend beyond Master Plan 2045, and support the overarching 5-year Strategic Plan, the City’s Official Community Plan and other capital, planning and infrastructure initiatives in Kelowna and the surrounding area 2017 and beyond.

Based on our technical analysis, consideration should be given to airport-specific elements in the next City of Kelowna Official Community Plan revision. Continued Stakeholder and public consultation on Airport development is recommended.

4. INFORMATION AND CONSULTATION TOOLS AND METHODS

Print, Electronic and Face-to-Face

A variety of information and consultation tools were combined throughout all three phases of the Master Plan 2045:

Tools	Methods
Information Handouts	Website Engagement
Text and Images: Digital Presence	Social Media Advertising and Engagement
E-invites and News Releases	Telephone and In-person Discussions
Display Boards	Newspaper Advertising (online and print)
Print and Electronic Surveys	Meetings and Workshops
YLW Connection Magazine	Presentations
Give-aways	Open Houses

Samples of print and electronic materials are located in the Appendix.

5. STAKEHOLDER MEETINGS AND WORKSHOPS

A series of Stakeholder meetings and workshops were held to inform and engage key groups who help to guide the long-term sustainable growth and development of YLW. Meetings and workshops were held both at YLW and at off-site locations to accommodate our Stakeholders.

Resources included presentations and discussions led by Senior Airport Management, with support from YLW staff and the consultant team. Display boards, handouts and online materials were also used where appropriate.

General meetings provided Stakeholders with an opportunity to learn about Master Plan 2045 through verbal presentations followed by questions/answers. Participants were also provided with a postcard to submit their feedback online using the electronic survey.

Workshops and e-communications were also used to specifically obtain technical input that required greater analysis and planning in each section of the Master Plan 2045 document. This 'roll up your sleeves' process at the end of the second Master Plan 2045 phase allowed for staff, committees, consultants and others to provide specific technical feedback on a page-by-page basis of the draft Master Plan 2045.

Stakeholders were also encouraged to attend the two public open houses in addition to their group participation. More specifically, the second open house (held August 2016) reported out some of the top priorities that survey participants have provided to date. This interim reporting allowed Stakeholders to understand the key interests and priorities that YLW has heard from other Stakeholders and the public to date, and to provide their additional comments for thoughtful consideration.

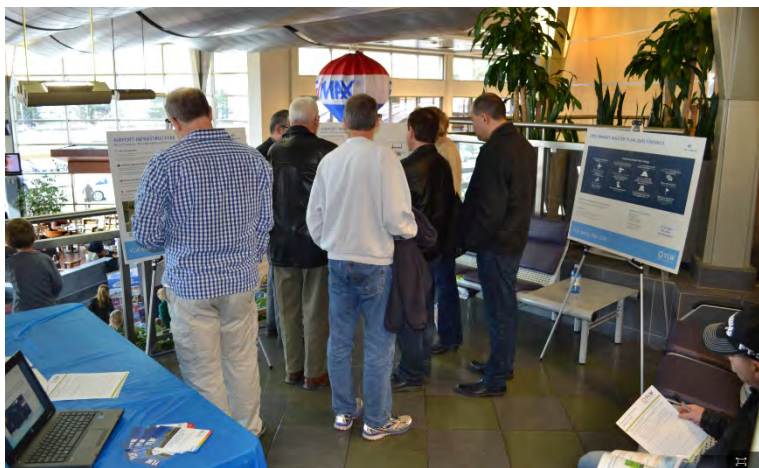
A summary of the top priorities is located in Section 8 of this document.

6. PUBLIC CONSULTATION FORUMS

Two public open houses were held to inform and engage the broad public in the second and third phase of the Master Plan 2045 process. Overall, the public expressed how pleased they are with YLW and made several notable recommendations that are further described in Section 8 of this document.

February 27, 2016 YLW Spring Travel Event (11 a.m. - 3 p.m.)

- Approximately **2,000 people attended** the Spring Travel Event held at YLW with many guests dropping by the Master Plan 2045 display.
- At the open house, **162 people completed the full print survey (10 questions) and five online surveys were subsequently received.** The print and online survey included questions that correlated to the display boards.
- Display boards, handouts, a continuous loop presentation and printed surveys were used by the team in their discussions with the public (materials found in appendices).
- Overall, the feedback from the public was positive about YLW moving in the right direction with sustainable growth. There are several notable recommendations from the public described in Section 8.



August 20, 2016 Orchard Park Mall (10 a.m. to 2 p.m.)

- Approximately 250 people dropped by the mall display with 43 people completing the condensed print survey (five questions) and 27 full electronic surveys (with 10 questions) were subsequently received.
- A number of guests preferred not to complete a survey citing they don't use YLW, they didn't have an opinion or questions, or future plans wouldn't affect the.
- Overall, the feedback from guests was very positive about YLW with a couple notable areas for improvement outlined in Section 8.
- Display boards, handouts and printed surveys were used by the team in their discussions with the public (materials found in appendices).



7. DIGITAL PRESENCE

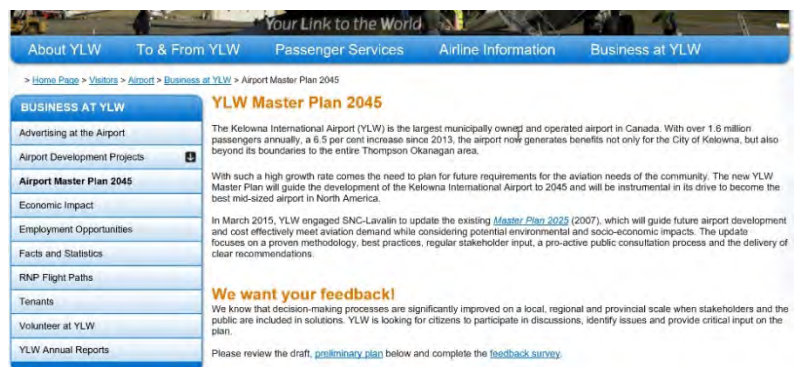
YLW uses various online and social media platforms to inform and engage Stakeholders and the public about becoming involved in the Master Plan 2045 process:

YLW Master Plan Webpage: <http://www.kelowna.ca/CM/Page4797.aspx>

Master Plan Webpage	Total Page Views	Average Time on Page
Life Time	10,646	00:02:19
Jan - Oct 2016	9,560	00:02:31
May - Dec 2015	1,086	00:01:34

The dedicated Master Plan 2045 webpage received over 10,600 hits.

The YLW website provides the public with ongoing information, presentations, invitations to participate, a link to the online survey and an e-subscription service.



Preliminary Master Plan Presentation



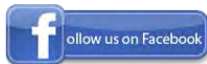
SurveyMonkey: <https://www.surveymonkey.com/r/MASTERPLAN2045YLW-1>

35% of all surveys were submitted online

315 Total Surveys Received
(43 Short and 272 Full Surveys)



110 Online 205 Print



YLW Facebook Page

(Reach: Approximately 6,900 likes)

<https://www.facebook.com/yiw.kelownairport/>



YLW Twitter Handle

(Reach: Approximately 8,200 followers)

<https://twitter.com/yiwkelowna>



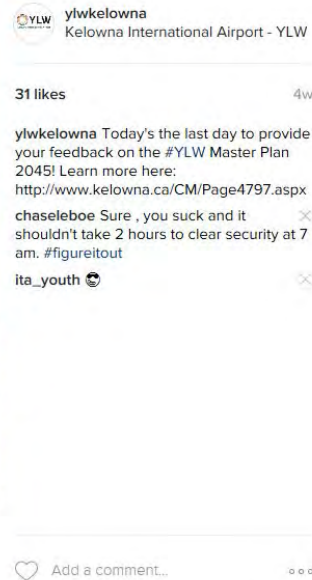
YLW Kelowna Airport @yiwkelowna · Feb 27
The YLW Master Plan presentation is happening now at the Travel Event. Make sure you stop by to give you feedback!





Instagram
(Reach: Approximately 1,500 followers)

<https://www.instagram.com/ylwkelowna/>



YLW followers were able to receive updates, posts and invitations to join the public open houses via Facebook, Twitter and Instagram.

All three platforms were used to push notifications to followers about event advertising, progress updates and encourage participation throughout Master Plan 2045.

Several Orchard Park Mall open house guests indicated that they dropped by the mall specifically because they had received the social media invitations that YLW issued before and during the event.

8. Stakeholder and Public Feedback: Comment Summary

Stakeholder feedback expressing their top priorities focused on more **technical and operational** aspects of Master Plan 2045, and includes analysis and recommendations for elements such as:

- highway intersection improvements
- expansion of vehicle parking to accommodate all the different parking and ground side services
- expansion of the air terminal building to the south to accommodate current and future growth
- increased separation from the runway to taxiway due to regulations and larger aircraft wingspans
- runway end safety area (RESA) requiring more land to accommodate the safety zones
- sustainable practices enabling greater and greener ground transportation options

Stakeholder feedback has been analyzed by the technical team and is being considered in the planning and implementation of Master Plan 2045.

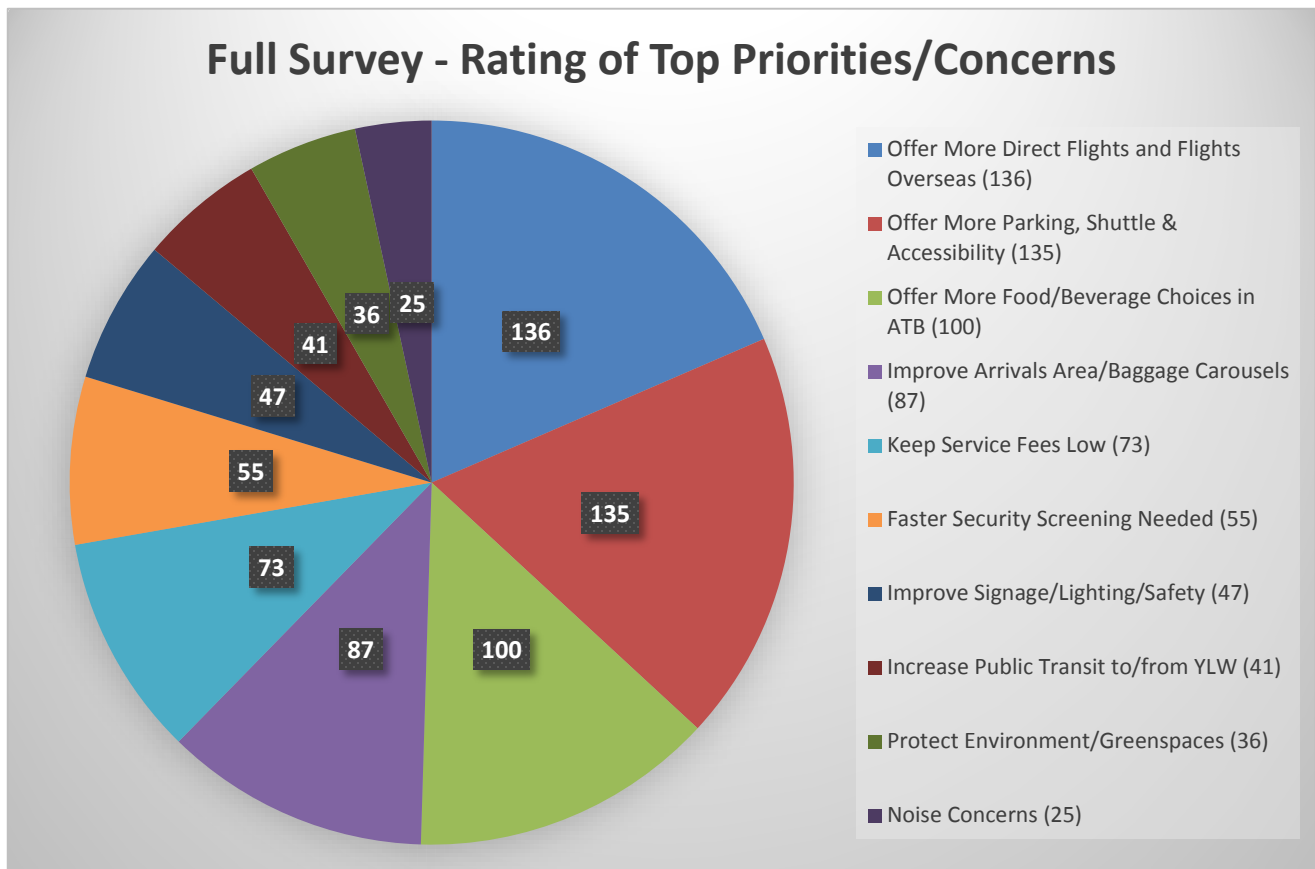
Public feedback is highlighted in the Executive Summary (Page 4 of this document) and broken out below.

- The full survey (10 questions) was used in print at the February 2016 Travel Event and online. A total of 272 full surveys were submitted.
- A condensed survey (5 questions) was used at the August 2016 Orchard Park Mall display for the ease of shoppers travelling through the mall who preferred not to answer detailed questions. A total of 43 short surveys were submitted (refer to page 17 for responses).

Below is a summary of the full survey responses from the Travel Event and the online responses.

This chart **highlights the number of requests and/or concerns expressed by the public** (not the number of people, as one person may have had multiple requests/concerns).

272 Full Surveys Received (162 print, 110 online)



The tables to follow outline the **frequency of the top priorities/concerns mentioned** by respondents in their survey answers. Note that respondent may have referenced one key priority multiple times throughout his/her survey, which has been captured in the tables to follow.

It is important for the Master Plan 2045 team to understand how many times concerns are raised to appreciate the breadth and depth of priorities and concerns (by topic and the number of times raised).

Q1. YLW’s Vision and Strategic/Economic Development

What are your interests and priorities for YLW to consider as part of its long-term planning?

Offer Direct Flights and/or Flights Overseas	76
Greater Parking, Shuttle and Accessibility	56
Increase Public Transit to/from YLW	12
Outdoor Signage and Lighting Enhancements	15
Improve Arrivals Area & Expanded Baggage Carousels	19
Environment/Enhancing Community Greenspace	3
Noise Concerns	9
Greater Food and Beverage Choices Inside the Terminal	14
Faster Security Screening	15
Keeping Service Fees Low	12



The public cited that increased direct flights within Canada and to U.S., flights overseas to Europe and to warm destinations are a priority. Increased and easily accessible parking, increased shuttle services within YLW and to/from downtown, and increased accessibility within the Air Terminal Building (ATB) are also important.

Q2. Please tell us your opinion about **how YLW can maintain and/or improve its Key Success Drivers** (Board 3)

Offer Direct Flights and/or Flights Overseas	10
Greater Parking, Shuttle and Accessibility	11
Increase Public Transit to/from YLW	4
Outdoor Signage and Lighting Enhancements	4
Improve Arrivals Area & Expanded Baggage Carousels	3
Environment/Enhancing Community Greenspace	5
Noise Concerns	0
Greater Food and Beverage Choices Inside the Terminal	2
Faster Security Screening	13
Keeping Service Fees Low	12



The public cited that keeping service fees low, especially for short and long-term parking, for all services inside the ATB and for small aircraft operators is important. Faster security screening is a priority in this category, along with increased direct/overseas flights, greater parking/shuttle services and accessibility both outside and inside YLW.

Q3. What questions or comments do you have about **the future of air traffic growth?**

Offer Direct Flights and/or Flights Overseas	40
Greater Parking, Shuttle and Accessibility	1
Increase Public Transit to/from YLW	1
Outdoor Signage and Lighting Enhancements	4
Improve Arrivals Area & Expanded Baggage Carousels	0
Environment/Enhancing Community Greenspace	8
Noise Concerns	13
Greater Food and Beverage Choices Inside the Terminal	1
Faster Security Screening	2
Keeping Service Fees Low	2



Similarly to the answers for Q1., the public cited that accommodating larger aircraft to enable more direct local-to-international destinations, and airlines offering an increased choice of destinations, is a priority. Increased aircraft frequency and increased noise concerns were also expressed. Noise complaints were isolated and counted separately within the Environment category to understand exactly how many noise complaints were mentioned.

Q4. What are your thoughts about **the runway, apron and aircraft parking?**

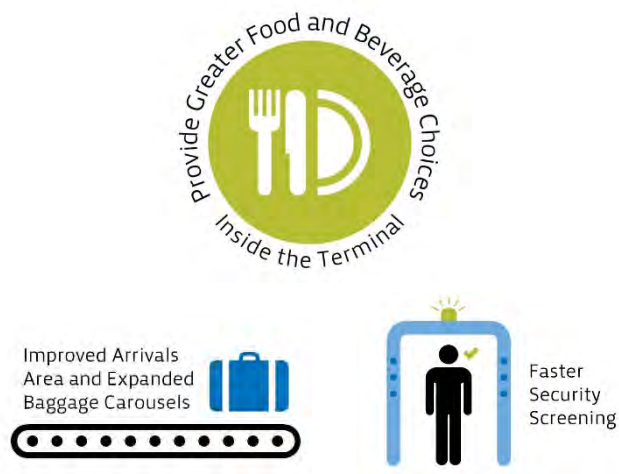
Offer Direct Flights and/or Flights Overseas	3
Greater Parking, Shuttle and Accessibility	17
Increase Public Transit to/from YLW	4
Outdoor Signage and Lighting Enhancements	1
Improve Arrivals Area & Expanded Baggage Carousels	2
Environment/Enhancing Community Greenspace	0
Noise Concerns	0
Greater Food and Beverage Choices Inside the Terminal	0
Faster Security Screening	0
Keeping Service Fees Low	1



The public predominantly requested to increase easily accessible vehicle parking, increase the safe parking of private aircraft and increase overall accessibility with an aging local population. Further, the public cited that increased public transit services to/from YLW to downtown and to other locations in Kelowna is important.

Q5. What would you like to see **maintained and/or improved inside the ATB?**

Offer Direct Flights and/or Flights Overseas	0
Greater Parking, Shuttle and Accessibility	5
Increase Public Transit to/from YLW	0
Outdoor Signage and Lighting Enhancements	6
Improve Arrivals Area & Expanded Baggage Carousels	59
Environment/Enhancing Community Greenspace	1
Noise Concerns	0
Greater Food and Beverage Choices Inside the Terminal	82
Faster Security Screening	21
Keeping Service Fees Low	0



The public has significant requests for greater food and beverage choice inside the ATB before and after the security area. Requests for Starbucks and a pub were specifically mentioned. Also, improving/expanding the arrivals area and expanding baggage carousels to provide greater access, more seating and less crowding is important. Complaints about very slow security screening are also cited as considerably important (this top priority was reiterated by the Orchard Park mall survey respondents).

Q6. Please tell us what is important to you about **maintaining and/or improving car parking and roads in the long-term?**

Offer Direct Flights and/or Flights Overseas	0
Greater Parking, Shuttle and Accessibility	39
Increase Public Transit to/from YLW	12
Outdoor Signage and Lighting Enhancements	12
Improve Arrivals Area & Expanded Baggage Carousels	0
Environment/Enhancing Community Greenspace	2
Noise Concerns	0
Greater Food and Beverage Choices Inside the Terminal	0
Faster Security Screening	0
Keeping Service Fees Low	41



The public cited the importance to keep service fees low, specifically for short and long-term parking. Further, some respondents requested YLW to provide more parking, with several asking specifically for a parkade. Respondents requested improved access on/off Hwy 97 and within the YLW property (e.g. parking lots begin close to the ATB). Some respondents noted the importance of having to increase facilities and services yet want to ensure that fees remain low (e.g. in favour of sustainable growth but keep end-user costs low).

Q7. What questions or comments do you have about **current and/or future land development both on and off YLW property?**

Offer Direct Flights and/or Flights Overseas	0
Greater Parking, Shuttle and Accessibility	6
Increase Public Transit to/from YLW	1
Outdoor Signage and Lighting Enhancements	1
Improve Arrivals Area & Expanded Baggage Carousels	2
Environment/Enhancing Community Greenspace	14
Noise Concerns	1
Greater Food and Beverage Choices Inside the Terminal	1
Faster Security Screening	0
Keeping Service Fees Low	0



The public cited that continued air quality monitoring and compliance, protecting community spaces (such as trails/parks) and continued operation of the Shadow Ridge Golf Course is important. There are no moderate comments in opposition of YLW’s future development, but fiscally responsible and fully accessible growth (by all modes of traffic, especially by car and for pedestrian traffic) are priorities.

Q8. Based on the preliminary 2045 MP findings please tell us **any other questions or comments for consideration** in the final MP 2045.

Offer Direct Flights and/or Flights Overseas	6
Greater Parking, Shuttle and Accessibility	5
Increase Public Transit to/from YLW	4
Outdoor Signage and Lighting Enhancements	0
Improve Arrivals Area & Expanded Baggage Carousels	2
Environment/Enhancing Community Greenspace	2
Noise Concerns	0
Greater Food and Beverage Choices Inside the Terminal	0
Faster Security Screening	2
Keeping Service Fees Low	4



The public reiterated two top priorities for YLW’s sustainable growth: offer more and direct flights within Canada, the U.S. and other destinations internationally (especially to Europe and warm climates); and to offer greater parking close to the ATB, additional shuttles and increased accessibility outside and inside the ATB.

Q9. If you attended our open house in-person, please **tell us what you thought about the open house, the materials and the help of our team** (February 2016 open house only).

107 comments rated YLW’s outreach as informative, good, very good and excellent, and the public expressed its appreciation for continued community outreach.

11 indicated the area was too crowded and the boards were difficult to access at times, and very few negative comments were provided overall.

Q10. Please outline **any other comments** you may have about Master Plan 2045 or YLW in general.

Offer Direct Flights and/or Flights Overseas	1
Greater Parking, Shuttle and Accessibility	0
Increase Public Transit to/from YLW	3
Outdoor Signage and Lighting Enhancements	4
Improve Arrivals Area & Expanded Baggage Carousels	0
Environment/Enhancing Community Greenspace	1
Noise Concerns	2
Greater Food and Beverage Choices Inside the Terminal	0
Faster Security Screening	2
Keeping Service Fees Low	1



38 additional comments of support for continued sustainable development and growth were provided, along with positive comments about YLW’s progress to date.

Other general comments were captured in each question heading and/or noted in the Other Comments summary.

Examples of Other Comments:

- Upgrade, expand and/or maintain higher standards in washroom facilities
- Family area for small children inside the ATB requested
- Improve outdoor lighting to/from all parking lots to provide more security
- Better viewing area/observation platforms inside the ATB to watch aircraft take-off and landing requested
- Easier access and larger area for passenger pick-up and drop-off requested. A cell lot was also mentioned.
- Parking machines could work better, especially in inclement weather conditions
- A parkade was requested
- More hanger space, ability to accept larger private aircraft and increased safe areas to park private aircraft requested
- More commercial development opportunities requested
- Extend the runway and/or create a second parallel runway

Below is a description of the condensed survey responses from the Orchard Park Mall open house (August 2016). Approximately 250 people dropped by the Master Plan 2045 mall display.

43 Short Surveys Received (print): Top Priorities

Faster Security Screening	21
Greater Parking, Shuttle and Accessibility/Plan for Capacity	10
Keep Parking and Other Fees Low	4
Improve Parking, Passenger Pick-up/Drop-Off and Transit to/from YLW	8
More Direct/International Flights	4
Improve Arrivals Area & Expanded Baggage Carousels	3
Signage/Safety	2



Public feedback recorded on print surveys and through verbal discussions indicate that faster security screening is imperative to correct by the Canadian Air Transport Security Authority (CATSA). This was the top priority of mall patrons who spoke with the Master Plan 2045 team.

A summary of other priorities based on the condensed five-question mall survey are noted below.

1) What can be improved with YLW’s long-term planning?

- **Oversee/improve security screening, too slow, unfriendly staff, very long line-ups**
- Improve baggage area, make it easier to get our baggage
- Improve access to/from arrival and departure gates
- Helicopter parking needed in future
- Greater accessibility/parking for all
- Better transit to/from YLW
- Happy with the plans, thumbs up

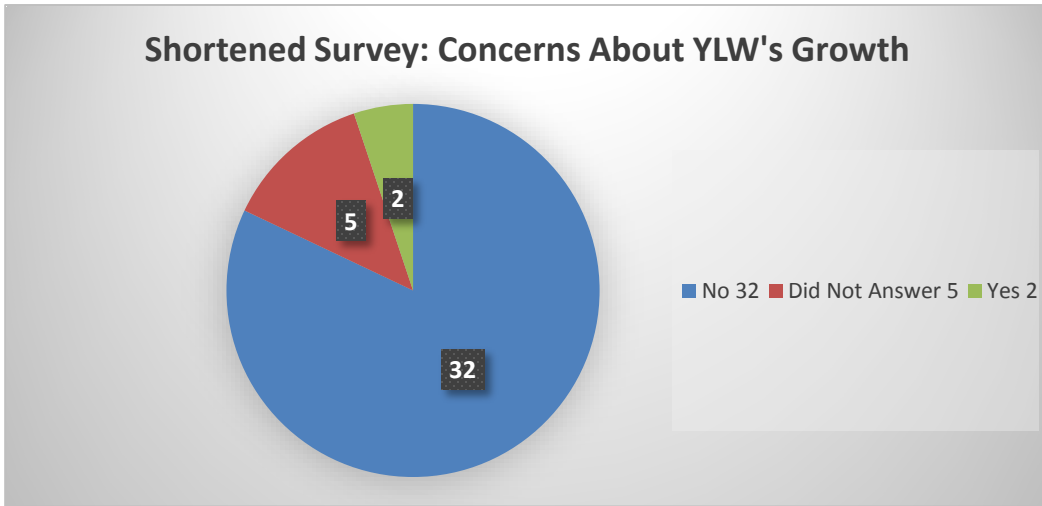
2) What long-term planning is YLW doing well?

- **Anticipating growth and traffic**
- Nice changes in departure lounge
- Facilities inside the ATB are good
- Parking, easy pick up and drop off, keeping costs down
- Flights on-time and good baggage handling
- Doing great with growth, happy about Tim Hortons and other new choices, please keep adding more choice
- Small but great, good retail, keep growing

3) What’s your most important priority for YLW’s future growth?

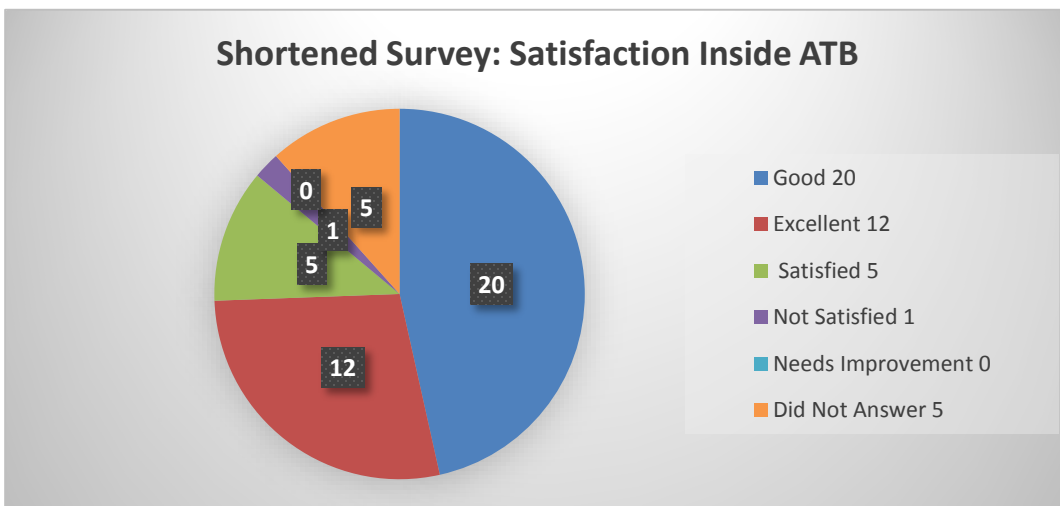
- **Improve security, speed up customs, line ups are too long**
- Public safety
- Slow baggage check-in, increase customer/friendly service
- More direct/overseas flights, terminal capacity
- Parking capacity and ease of accessibility to/from Terminal, ease of picking up people
- Less delays with incoming flights in fog/dense weather
- Airport is well laid out, easily navigated, keep up smart growth

4) Do you have any concerns about YLW's development and growth? (Yes/No and comment)



- Two (2) answered YES citing concerns over slow security, asking to keep costs/parking costs low, be mindful of the residential development in airport vicinity, and accommodate people with disabilities/increased access needs.

5) How would rate your overall experience inside the Air Terminal Building (ATB)?



- One (1) answered NOT SATISFIED citing that 'airport security is the single item that ruins the impression the airport makes on locals and visitors.'

Notwithstanding the summaries noted above, all comments from all Stakeholders and the public have been compiled and are considered as part of this final Master Plan 2045.

9. INFORMING YLW'S 5-YEAR STRATEGIC PLAN, CAPITAL PLANNING AND THE KELOWNA 2030 OCP

Master Plan 2045 Stakeholder and public consultation results will be considered in the implementation of YLW's 5-year Strategic Plan and its annual Capital planning. This means that the recommendations made by the public are carefully considered both in the short and long-term at YLW for services, operations and financial planning.

YLW will also continue to work in partnership with the City regarding potential Kelowna 2030 OCP amendments and/or the City's future OCP consultations affected by the Master Plan 2045.

As part of YLW's continued commitment to Stakeholder and public engagement, notifications about future consultations would be issued as each initiative is planned and implemented.

10. NEXT STEPS AND TIMING

As YLW concludes the final Master Plan 2045, it will seek City Council approval (November 2016) prior to considering phased planning and implementation in 2017 and beyond. This report is incorporated into the final Master Plan 2045.

Planning and implementation includes prioritizing key elements of Master Plan 2045, aligning resource and budget considerations, and staged implementation as appropriate.

More information about Master Plan 2045 endorsement and implementation will be available at <http://www.kelowna.ca/CM/Page4797.aspx>.

11. APPENDIX

The following documents are listed in the order noted below.

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Appendix 11.1.1 Master Plan 2045 - Outreach Schedule

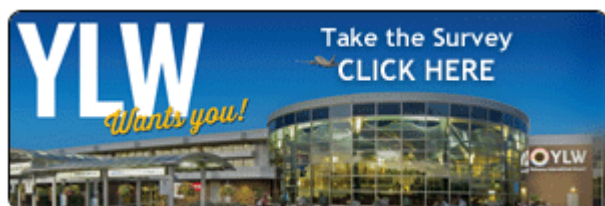
Organization	Date	Location	Notes
City of Kelowna			
Kelowna City Council Workshop	Sept 28, 2015	City Hall	Well received. No comments at that time.
Kelowna City Council Update	Sept 19, 2016	City Hall	Update to first workshop. Well received. No major feedback.
General City Staff (Lunch & Learn)	Sept 15, 2016	City Hall	Full support.
Internal Airport Staff	March 9, 2016	YLV	Fulsome discussion. Great feedback.
Planning & Real Estate	June 30, 2016	City Hall	Well received. Informal feedback from planning.
Infrastructure	Oct 4, 2016	City Hall	Minor comments. Well received.
Senior Leadership Team	Aug 24, 2016	City Hall	Well received, full support. Minor feedback.
Agricultural Advisory Committee	Sept 8, 2016	City Hall	Well received. <ul style="list-style-type: none"> - Would like parkade mentioned. - Parking isn't a good use of agricultural land. - Consider grant to agriculture to support the industry. - Great work on support of agriculture. Include mention of support for agriculture in the Master Plan. - Focus on alternate ways to get to YLV.
Airport Advisory Committee	Sept 29, 2015	YLV	Well received. Minor comments. Minutes available at kelowna.ca.
Airport Advisory Committee Update		(letter/memo)	Sent draft plan for review. No additional feedback.
Airport Consultative Committee	Sept 29, 2015	YLV	Well received. Some feedback.
Airport Consultative Committee Update		(letter/memo)	Sent draft plan for review and feedback. No additional feedback.
Business Partners			
Airport Operators Committee	May 17, 2016	YLV	Well received. No feedback.
Planning Integration Meeting	June 20, 2016	YLV	Meeting to connect teams. Included contractors working on YLV projects.
Central Okanagan Economic Development Commission	June 23, 2016	Kelowna	Asked for info on service development. Little on Master Plan.
Thompson Okanagan Tourism Association	Sept 1, 2016	Kelowna	Comments regarding Hwy 97 connectivity and transit.
Tourism Kelowna	Sept. 28, 2016	Kelowna	Well received. <ul style="list-style-type: none"> - Questions about possibility of parkade. YLV should consider partnering with the car rentals. - Esthetics – less is more concept for advertising.

			-Want Kelowna to become the second gateway to BC. - Consider a covered walkway to the long-term parking lot.
Destination British Columbia	Oct 3, 2016	Vancouver	Well received. Interested in market research and destinations.
BC Aviation Council		(letter/memo)	Sent presentation for review. No feedback.
Kelowna Senior Secondary/SD23	Feb 22, 2016	Kelowna	Well received.
University of British Columbia Okanagan- Planning Department	June 29, 2016	Kelowna	Five people in attendance. Presentation appreciated. Agreement to continue working together on infrastructure items, including parking and transit.
Interior Health	Aug 16, 2016	Kelowna	Four people present. Well received. -Need to consider reducing walking distances and the use of mobility assist devices. -Need to ensure redundancy in utility planning. -Operational consideration, such as pre-board screening to not do training during peak periods. -Continue to develop alternate forms of ground transportation. -Discussion was raised on the sensitivity to aircraft noise.
Kelowna Flying Club	April 5, 2016	Kelowna	Well received. Interested in infrastructure for General Aviation.
Kelowna Hotel Motel Association	Sept 8, 2016	Kelowna	Well received.
KF Aerospace	Oct 4, 2016	Kelowna	Enhance area for runups and compass swing.
Fortis BC (Gas and Power representatives)	Sept 9, 2016	Kelowna	Opportunity for future collaboration on projects.
Shell Canada & Carson Air	June 16, 2016	Kelowna	Well received.
Local Chambers			
Kelowna Chamber of Commerce Board	June 28, 2016	Kelowna	Well received.
Greater Vernon Chamber of Commerce	April 28, 2016	Vernon	Ten people in attendance. Well received.
Greater Westside Board of Trade	June 23, 2016	YLW	Well received. Informal feedback received.
Lake Country Chamber of Commerce	June 15 and Sept 13, 2016.	Lake Country	Well received wanted. Secondary presentation for Executives.
South Okanagan Chamber of Commerce	Jan 11, 2016	Oliver	Ten people in attendance. Well received.
Penticton & Wine Country Chamber of Commerce	Sept 22, 2016	Penticton	Well received. Interested in Farm to Flight and parking.
Kelowna Jaycees	Sept 13, 2016	YLW	Well received. Some feedback. Seven people in attendance.

Okanagan Young Professionals	Sept 9, 2016	Kelowna	Positive feedback.
Government Partners			
Local MLAs & MPs		(letter/memo)	Sent presentation for review. No additional feedback.
Provincial Agricultural Land Commission	Sept 20, 2016	YLV	Letter of support received. See Master Plan 2045 appendices.
Transport Canada	Oct 3, 2016	Vancouver	No comments received.
Regional Municipalities			
District of Peachland	Sept 6, 2016	Peachland	Well received.
District of Lake Country	Sept 13, 2016	Lake Country	Well received. Interested in airport access and parking.
City of West Kelowna	July 26, 2016	West Kelowna	Appreciation for engagement of West Kelowna. Interested in traffic growth
City of Armstrong		(letter/memo)	Sent presentation. No feedback received.
District of Coldstream		(letter/memo)	Sent presentation. No feedback received.
City of Enderby		(letter/memo)	Sent presentation. No feedback received.
Village of Lumby	Sept 6, 2016	Lumby	Very well received.
Township of Spallumcheen		(letter/memo)	Sent presentation for review and feedback. No comments for the proposed plan.
City of Vernon	Sept 12, 2016	Vernon	Well received. Received letter of support from the City. Pleased with forward-thinking plans.
City of Penticton	Sept 20, 2016	Penticton	Well received. Confident about working together and making a positive contribution toward the Master Plan.
District of Summerland		(letter/memo)	Sent presentation. No feedback received.
Town of Osoyoos	Sept 19, 2016	Osoyoos	Appreciative of engagement. Interested in cost-effectiveness of transportation links to Osoyoos.
Town of Oliver	Sept 12, 2016	Oliver	Well received. Minor comments.
Town of Princeton		(letter/memo)	Sent presentation. No feedback received.
Village of Keremeos		(letter/memo)	Sent presentation. No feedback received.
District of Sicamous		(letter/memo)	Sent presentation. No feedback received.
City of Revelstoke		(letter/memo)	Sent presentation. No feedback received.
Town of Golden		(letter/memo)	Sent presentation. No feedback received.
City of Salmon Arm	August 8, 2016	Salmon Arm	Requested by the City of Salmon Arm. Comments: - Parking can be an issue at peak times of the year, is there consideration for a parkade? - Exiting the airport is a problem– queuing to turn north on Hwy 97.

			- Suggestion to install signage for Vernon, Salmon Arm to direct traffic there. -How will new capital projects be funded? Will AIF need to be increased?
Aboriginal and First Nations Partners			
Okanagan Indian Band	Oct 4, 2016	Vernon	-Looking for partnership for employment and sponsorships. -Concerned about aircraft pollution.
Upper Nicola Band		(letter/memo)	Sent presentation for review. No feedback received.
Westbank First Nation		(letter/memo)	Sent presentation for review. No feedback received.
Penticton Indian Band		(letter/memo)	Sent presentation for review. No feedback received.
Osoyoos Indian Band		(letter/memo)	Sent presentation for review. No feedback received.
Lower Similkameen Indian Band		(letter/memo)	Sent presentation for review. No feedback received.
Upper Similkameen Indian Band		(letter/memo)	Sent presentation for review. No feedback received.
Colville Confederated Tribes		(letter/memo)	Sent presentation for review. No feedback received.
General Public Consultation			
Public Open House- YLW Spring Travel Event	Feb 27, 2016	YLW	Over 2,000 people in attendance. 167 surveys completed.
Public Open House- Orchard Park Mall	Aug 20, 2016	Orchard Park Mall	Approximately 250 people in attendance. 70 surveys completed.
Lake Country Newcomers Society	Jan 14, 2016	Lake Country	Positive feedback.
Probus Club of Westside	April 27, 2016		Approximately 80 people in attendance. Well received.

Appendix 11.1.2 Sample Print, Electronic and Radio Advertising/Invitations (2015/2016)
 Castanet.net Display Advertisements- Take the Master Plan Survey



Castanet.net Display Advertisements- Master Plan Open House



HAVE YOUR SAY! ✈️
YLW SPRING TRAVEL EVENT

DATE Saturday, February 27, 2016
TIME 11 am – 3 pm
TO Kelowna International Airport

.....
Parking is free in the long-term lot



For the latest information on Master Plan 2045, visit ylw.kelowna.ca



YLW wants your feedback on the new Airport Master Plan!

AIRPORT DEVELOPMENT



For the latest information on Master Plan 2045, visit ylw.kelowna.ca

ENVIRONMENTAL & SOCIO-ECONOMIC IMPACTS



For the latest information on Master Plan 2045, visit ylw.kelowna.ca

COST EFFECTIVE OPTIONS



For the latest information on Master Plan 2045, visit ylw.kelowna.ca

Radio Advertisement Script- Master Plan Feedback Needed (AM1150, Q103.1 & Country 100.7)

Heidi: ("Hello!" in German)

Melissa: ("Hello!" in Italian)

Sonia: ("Hello!" in Punjabi)

Adrian: ("Hello!" in Fijian)

Luminita: ("Hello!" in Romanian)

Danny: ("Hello!" in Swedish)

ANNC: Kelowna International Airport is your link to the world.

(SFX: plane)

ANNC (10s): YLW wants you! They need your feedback on the Airport Master Plan 2045.

Visit the website and complete the survey to have your say.

(SFX: plane)

ANNC: For more travel information, visit YLW.Kelowna.ca.

Kelowna International Airport – Y L W – *your link to the world!*

Print Advertisement- Kelowna Daily Courier and Kelowna Capital News - City News section

YLW Master Plan 2045 Open House

Saturday, Feb. 27 11am to 3pm

Kelowna International Airport - Terminal Building

Citizens will have the opportunity to review key aspects of the draft plan and provide valuable feedback that will be considered in the development of the final Airport Master Plan 2045.

INFO: 250-807-4300 ylw.kelowna.ca

Print Advertisement- YLW Connection Magazine (Spring 2016) Master Plan Editorial

YLW'S MASTER PLAN 2045

From the desk of Airport Director Sam Samaddar

MILESTONES AND MASTERPLANS



As we dive into 2016, I would like to take a moment to reflect on the milestones achieved at YLW in 2015, and highlight our 2045 Master Plan, a comprehensive "roadmap" that will successfully guide us over the coming years, picking up where our 2025 Master Plan left off.

In December 2015, YLW welcomed 1.6 million passengers for a second consecutive year. As well, YLW received the British Columbia Aviation Council's 2015 William Day Templeton Award for outstanding initiative and achievement in the successful development of a community airport and we received a Canadian Forces Liaison Council Employer Support Award for our support of Canadian Forces Operations. We added additional routes to our fly map and our lease with the Government of Canada for the management, operation and development of YLW was extended through 2054. A full list of accomplishments can be found in the YLW News section of this edition, on page 29.

Looking ahead, we are investing a significant amount of time and resources to complete our 2045 Master Plan by the end of this year. It is prudent to look at our infrastructure, including key elements such as land-use development and maintaining our aeronautical landscape, so that we can continue to service the needs of our growing community.

We have been encouraging public input and have made presentations to the community at events like our Spring Travel Show, held in late February at YLW. The airport belongs to everybody and we want the public to be able to voice their support and their concerns as we move forward together. Our goal is to become the best mid-sized airport in North America and the 2045 Master Plan, in conjunction with community input, helps us reach this goal. An article on the highlights of the plan can be found on the next page.

It is an exciting time for YLW and I would like to thank everyone who contributes to its success, from our employees and commercial vendors to our tourism and business partners and to the passengers who make it all worthwhile.

MISSION

"Provide safe, secure, customer-friendly affordable services and facilities that promote the Okanagan"

VISION

"To become the best mid-sized airport in North America"

Kelowna International Airport (YLW) is preparing its **Master Plan, designed to ensure successful strategic development for the facility through 2045** and supports YLW's vision to be the best mid-sized airport in North America. It picks up where the 2015 Master Plan left off, including ongoing initiatives such as the Drive to 1.6 Million Passengers and the Flight to 2020 programs.

This new long-range plan will review and update traffic forecasts and economic data; analyze all aspects of YLW's infrastructure; define future growth and development priorities; guide future capital planning and phased implementation; and provide stakeholders and the public opportunities to be engaged and provide feedback into the process.

"The Master Plan 2045 allows us to establish the long-term strategic direction for the efficient and economic development of the airport over the next 30 years and to outline development priorities," says Airport Director, Sam Samaddar. "We are able to communicate to the public the objectives for future uses of airport lands and growth of the airport and this helps us to minimize potential conflicts between uses and users of the airport and ensure compatibility with the areas surrounding the airport."

Currently YLW generates over 2,730 jobs and \$1.0 million in total provincial economic output. Passenger traffic is forecast to increase from 1.6 million to 3.6 million by 2045. Aircraft movements, most of which will come from air carrier traffic, is forecast to increase by 50 per cent. Every additional daily, year-round scheduled flight generates up to 38 full-time jobs.

The plan identifies needs such as additional commercial land acquisition and the expansion of current roadways and parking facilities. By 2035 five new remote aircraft parking stands will be needed and a new terminal gate stand will be required by 2045.

The key success drivers for YLW include operating and maintaining a safe and secure, best-in-class facility and to foster economic development for the region. Exceeding customer service expectations in collaboration with airport partners and the community are also imperative to the airport's overall success. The 2045 Master Plan is committed to core values such as excellence in safety, security and environmental performance, fiscally responsible ownership, integrity, teamwork and innovation.

"YLW is the economic engine of central British Columbia," says Samaddar. "It brings a significant amount of visitors to the region every year. The greatest strengths of YLW, from which future opportunities may be developed, include: the long-term vision and planning through the Master Plan, customer experience focus; diverse air service; strong ground transportation options; competitive cost structure; substantial non-airline revenues; effective organization and work force technology focus; community partnerships; and most importantly, the unique, world-class Okanagan Valley experience."

Detailed Master Plan development and key stakeholder and public consultations began in July 2015 and will conclude in July of this year. The public is encouraged to participate and provide feedback via an online survey that can be found online at: www.surveymonkey.com/r/MASTERPLAN2045V1

The final Master Plan is scheduled to be complete by the end of 2016.

MAPLE REINDERS IS DEDICATED TO BUILDING GREAT THINGS. SOLID TEAMS. AMAZING PROJECTS AND LASTING RELATIONSHIPS.

Maple Reinders began building the new Memorial Park in Sept. 2015 on property south of the Memorial Arena in Kelowna. Completion is expected for Fall 2016.

The additional parking is being constructed to accommodate Interior Health's new Community Health and Services Centre at the corner of Doyle Avenue and Ellis Street.

The six-story Parkade will include City office space in addition to 566 stalls of which 139 will be for public parking.

Maple Reinders Inc. is an award-winning full-service engineering, construction consulting providing creative solutions in Design-Build and Construction Management projects of industrial, commercial, institutional facilities, municipal infrastructure, and environmental projects. Maple Reinders has LEED accredited staff and services for technical direction, prequalification, quality workmanship and execution.

Contact us if you are looking for creative and value-oriented construction solutions and appreciate our founding vision of setting forestry and hard work.

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<http://viewer.zmags.com/publication/0308e268#/0308e268/1>

Print Advertisement- YLW Connection Magazine (Spring 2016) Advertisement - Inside Cover



Kelowna International Airport (YLW) is the largest municipally owned and operated airport in Canada with more than 1.6 million passengers in 2014, a 6.5 per cent increase since 2013.

With such a high growth rate, YLW needs to plan for the future.

MASTER PLAN 2045



AIRPORT DEVELOPMENT



ENVIRONMENTAL & SOCIO-ECONOMIC IMPACTS



COST EFFECTIVE OPTIONS

HAVE YOUR SAY! ✈️

YLW SPRING TRAVEL EVENT

DATE Saturday, February 27, 2016
TIME 11 am - 3 pm
TO Kelowna International Airport

Parking is free in the long-term lot

For the latest information on Master Plan 2045, visit ylw.kelowna.ca



YLW
Kelowna International Airport
Your Link to the World

Appendix 11.1.3 Sample of Social Media Posts (2015/2016)

Facebook - Sample Posts (Reach: Approximately 6,900 likes)

YLV Kelowna International Airport - YLV
Aug 18

#YLV wants your feedback on the new Airport Master Plan! Join us at the Public Open House this Saturday from 10am-2pm at Orchard Park Shopping Centre! We'll be in the Apple Courtyard! <http://www.kelowna.ca/CM/Page4797.aspx>

Read Less



10 likes, 2 shares

YLV Kelowna International Airport - YLV
Aug 20



2 likes, 0 shares

Write a comment...

YLV Kelowna International Airport - YLV
Mar 30

The new YLV Connection Magazine is now available! Read about YLV's new Master Plan 2045 and complete the survey! Read it here: <http://viewer.zmags.com/publication/560ae12c#/560ae12c/>

Read Less



4 likes, 3 shares

Write a comment...

YLV Kelowna International Airport - YLV
Aug 16

#YLV wants your feedback on the new Airport Master Plan! Join us at our last Master Plan Public Open House this Saturday, August 20th from 10am-2pm at the Orchard Park Shopping Centre! You can find us in the Apple Courtyard!

Read Less



47 likes, 5 shares

Write a comment...

Twitter - Sample Posts (Reach: Approximately 8,200 followers)

 **YWL Kelowna Airport** @ylwkelowna
Feb 27

The YLW Master Plan presentation is happening now at the Travel Event. Make sure you stop by to give you feedback!



 **YWL Kelowna Airport** @ylwkelowna
Aug 16

#YLW wants your feedback! Join us at our Master Plan Open House this Saturday from 10am-2pm at @ShopOrchardPark!



 **YWL Kelowna Airport** @ylwkelowna
Feb 26

The YLW Master Plan Open House is tomorrow at the Spring Travel Event! We want YOUR feedback! Learn more: kelowna.ca/CM/Page4797.as...



 **YWL Kelowna Airport** @ylwkelowna
Aug 18

#YLW wants your feedback on the Master Plan! Join us at the Public Open House this Saturday from 10am-2pm at @ShopOrchardPark!



 **YWL Kelowna Airport** @ylwkelowna
Mar 30

The new #YLW Connection Magazine is now available! Read about YLW's new Master Plan 2045 and complete the survey! viewer.zmags.com/publication/56...



Instagram - Sample Posts (Reach: Approximately 1,500 followers)

 Kelowna International Airport @ylwkelowna
Jul 17, 2015

Did you know that #YLW is updating the #Airport Master Plan? The updated plan will guide future airport #development and cost effectively meet #aviation demand, while considering potential #environmental and socio-economic impacts. Learn more about it at www.kelowna.ca/CM/Page4797.aspx

Read Less



20 1

 Kelowna International Airport @ylwkelowna
Aug 16 · Orchard Park Shopping Centre

#YLW wants your feedback on the new #Airport Master Plan! → Join us at our last Master Plan Public Open House this Saturday, August 20th from...

Read More



24

 Kelowna International Airport @ylwkelowna
Mar 30

Have you completed our Master Plan 2045 survey yet? We want YOUR feedback! Learn more at www.kelowna.ca/CM/Page4797.aspx



Your feedback is important and will be considered in the development of the YLW Master Plan 2045.

Please complete the survey at:
www.surveymonkey.com/r/MASTERPLAN2045YLW-1

15

 Kelowna International Airport @ylwkelowna
Aug 20 · Orchard Park Shopping Centre

We're still at Orchard Park Shopping Centre today for the Airport Master Plan Open House! We'll be here until 2pm! We want to hear your feedback!



20 1

KELOWNA INTERNATIONAL AIRPORT

Appendix 11.1.4
Open House Travel Event Display Boards February 2016



Your Link To The World Master Plan 2045

YLW's Vision and Mission

The **Vision** of Kelowna International Airport (YLW) is to become the best mid-sized airport in North America.

The **Mission** of YLW is to provide safe, secure, customer-friendly economical services and facilities that promote the Okanagan.

Your participation in the planning and implementation of our Vision, Mission and strategic development contributes to our success.

How We Get There

- ▶ Master Planning (2045)
- ▶ Strategic Plan (5-year)
- ▶ Capital Planning and Implementation
- ▶ Drive to 1.6 Million Passengers Program
- ▶ Flight to 2020 Projects
- ▶ Supporting the City's Official Community Planning
- ▶ Ongoing Public and Stakeholder Engagement
- ▶ Reporting to Committees and City Council

The Master Plan 2045

Picking up where the Master Plan 2025 left off, the Master Plan 2045 is an important short and long-term plan, slated to be completed in late 2016, that further supports YLW achieving its Vision.

The Master Plan process analyzes how best to align our infrastructure and services to changing market conditions and growth, while identifying a balanced approach to management capital and operating expenses.

Why Your Participation Matters

YLW continues to experience a high growth rate and our continued commitment is to plan and implement the future of YLW in sustainable ways.

Public and stakeholder engagement provides a continued forum to understand, explore and evaluate the future of YLW as the technical planning proceeds.



YLW Fast Facts

Kelowna International Airport (YLW) is the largest municipally owned and operated airport in Canada – and we're growing!

Our goal to welcome **1.6 million passengers** was achieved in 2014



By 2020 we anticipate serving **2 million passengers** annually



We are the **11th busiest airport** in Canada

More than **15,400 passengers** every week choose our airport as their starting destination



Our economic impact in 2010 was **2,730 jobs**, representing **\$140 million in wages** and **\$610 million** in total economic output in BC



From 2010 to 2015, our full-time employment increased by **9%**, wages increased by **19%** and our GDP increased by **27%**



Between 2010 and 2020, we will have invested over **\$92 million** in facility upgrades



YLW Master Plan 2045



THE IMPORTANCE OF THE MASTER PLAN 2045



YLW's aviation service needs and future demands require continued assessment, planning, consultation and implementation of sustainable solutions.

The Master Plan process, which includes a 5-Year Strategic Plan, is a critical tool used to guide YLW in sustainable and fiscally responsible short and long-term planning.

Updating the Master Plan links with many of the City of Kelowna's governing initiatives, particularly with the Official Community Plan (OCP) and potential future amendments. YLW's master planning also informs local and regional planning and development, such as with airline operators, travel organizations and more.

The Master Plan 2045 is one of YLW's strategic organizational components that identifies airport and aviation development and growth impacts including:

Socio-economic demand and effects

Environmental considerations

Air traffic and passenger growth

Traffic and transportation demands

Land use (both on and off YLW lands)

Infrastructure and facility services

Master Plan 2045 Goals

Review and analyze
all aspects of airport infrastructure

Update
traffic forecasts and economic data

Define
future growth and development priorities

Guide
future capital planning and phased implementation

Provide
stakeholders and the public with engagement opportunities

Apply
the final 2045 Master Plan as the way forward

Master Plan Timeline: 3 Phases



Let's Move Forward Together

From our strategic planning to expanding airport infrastructure to our preliminary Master Plan 2045 findings outlined on the next series of display boards, we would like to hear your feedback.

Stakeholder and Public Consultation

The purpose of Master Plan 2045 stakeholder and public consultations is to inform, engage and seek feedback about issues and opportunities associated with YLW's future growth and development. Topic-specific feedback is important to inform the final Master Plan 2045 as part of our overall analysis.

YLW and the SNC-Lavalin Airports + Aviation consultant team will review and analyze stakeholder and public comments from workshops, presentations, meetings, surveys and the open house that contributes to the final Master Plan 2045. A Master Plan 2045 Consultation Summary Report will also be issued to keep stakeholders and the public informed of our progress.

The implementation of the final Master Plan 2045 will be completed in phases and will depend on factors such as the speed of growth and development, capital costs to maintain and develop airport infrastructure, environmental considerations, community support and more.

YLW Master Plan 2045



MASTER PLAN 2045 COMPONENTS

These are the key topic areas that the project team is studying.
We would like to know what your interests and priorities are in these categories.

Air Traffic Analysis and Forecasting: Air Traffic and Passenger Growth

Airside System: Runways and Taxiways

Airport Economic Impacts

New Regulatory Requirements

Potential Land Acquisition Areas

Apron and Aircraft Parking (Infrastructure)

Air Terminal Building

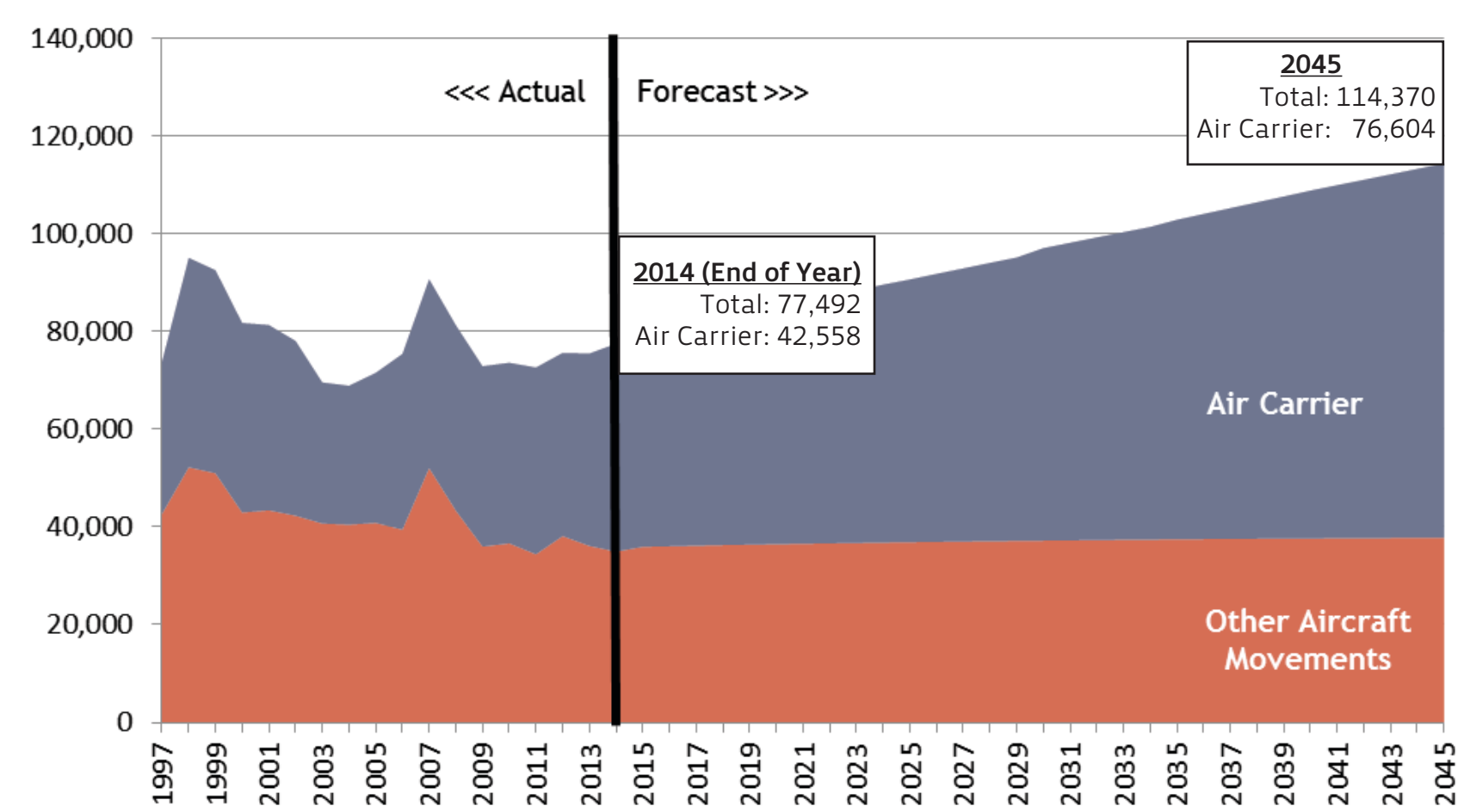
Public Roads, Access and Vehicle Parking

Commercial Land Development: Airside and Groundside

Noise Contours and Other Environmental Considerations

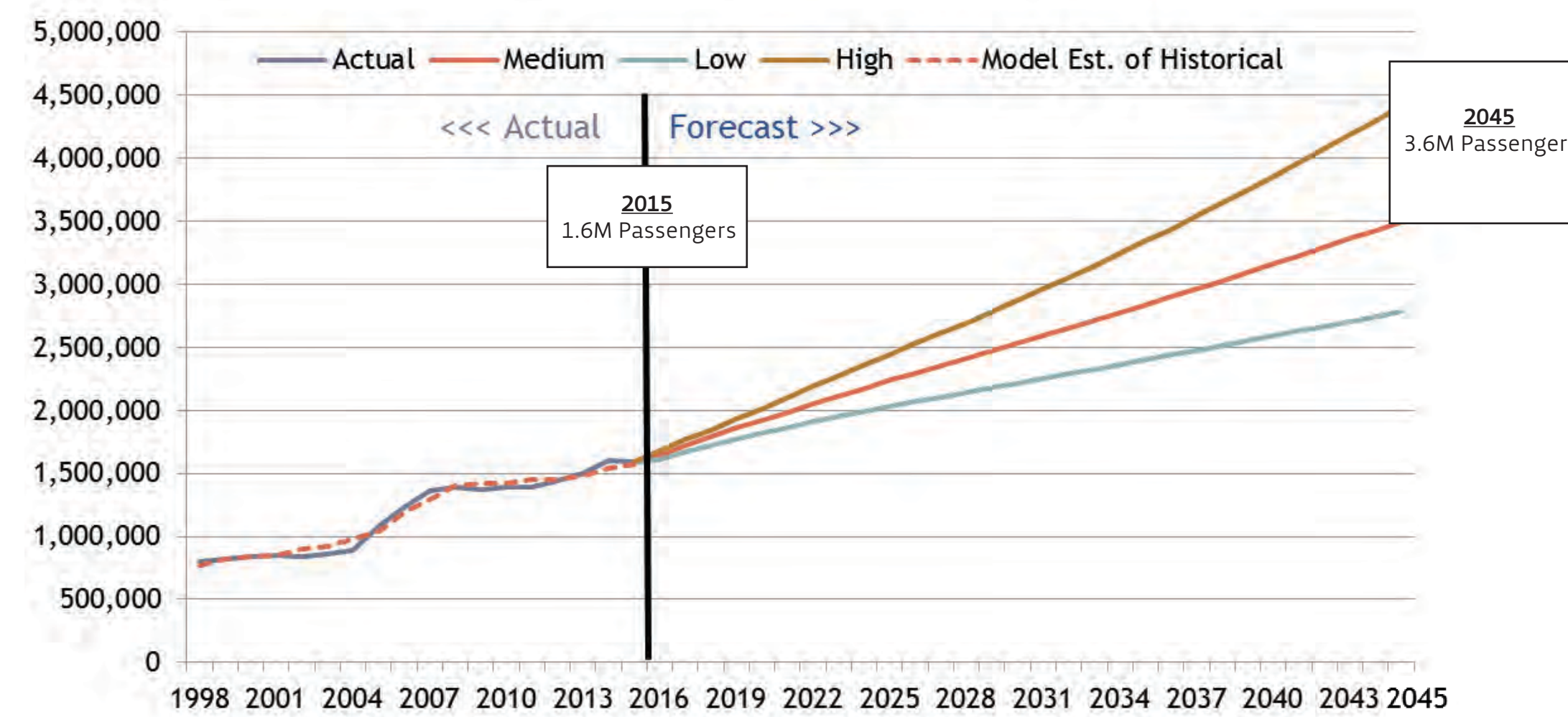
Air Traffic and Passenger Growth

Aircraft Takeoffs and Landings



Growth at 2% per year
(majority attributable to air carrier services)

Air Traffic Growth: Passengers



Passenger growth to continue at
3% annually (medium forecast)

Strategic Development Plan Key Success Drivers

Operate and maintain
safe and secure
best-in-class
facilities and services

Foster
economic development
for the region

Act
in a financially responsible and
sustainable manner

Exceed
customer service expectations
of the travelling public in collaboration with
airport partners and the community

Please Tell Us How We're Doing!

AIRPORT INFRASTRUCTURE

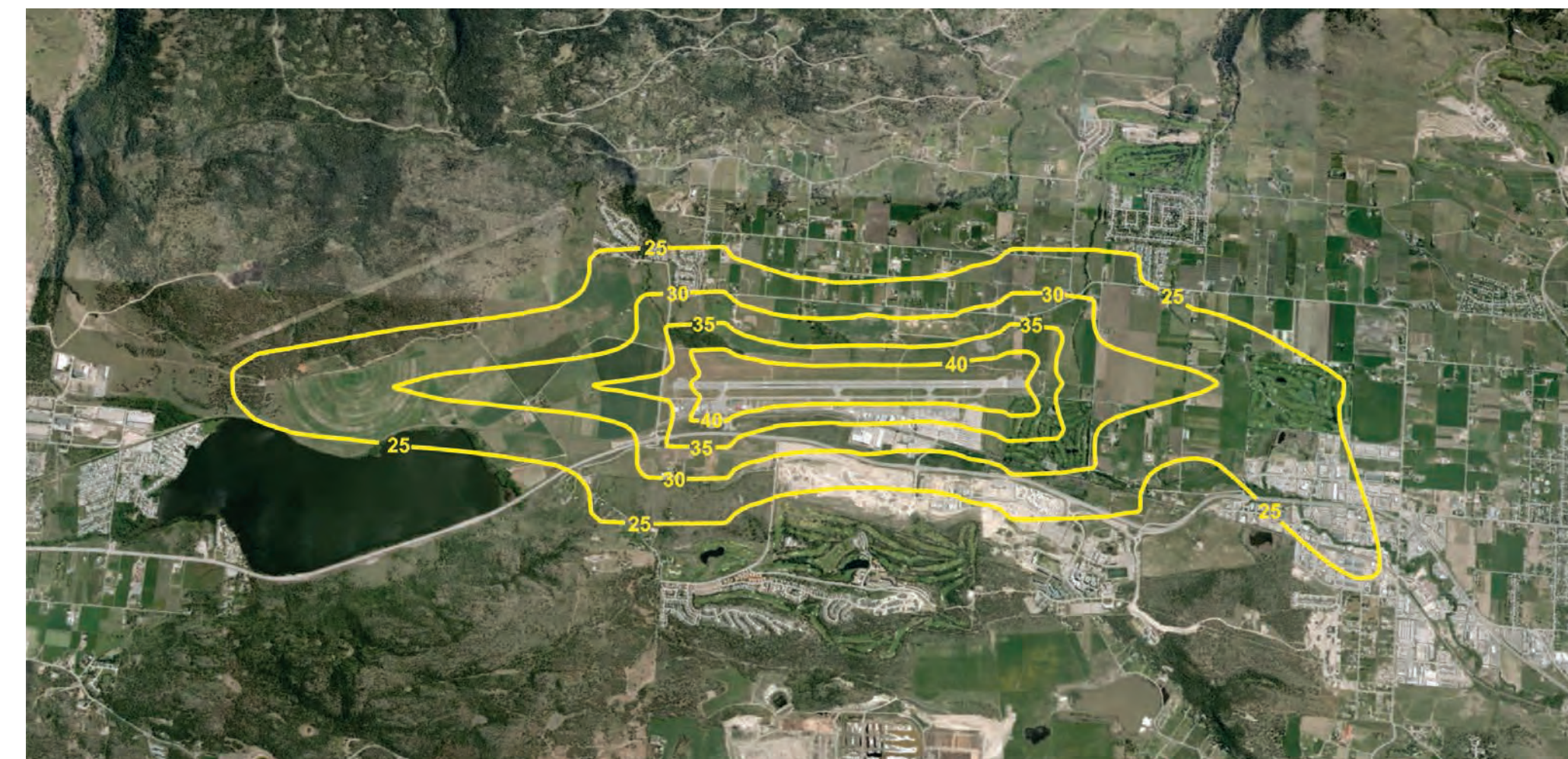
Noise Exposure, Runways/Apron and Aircraft Parking, and Land Considerations



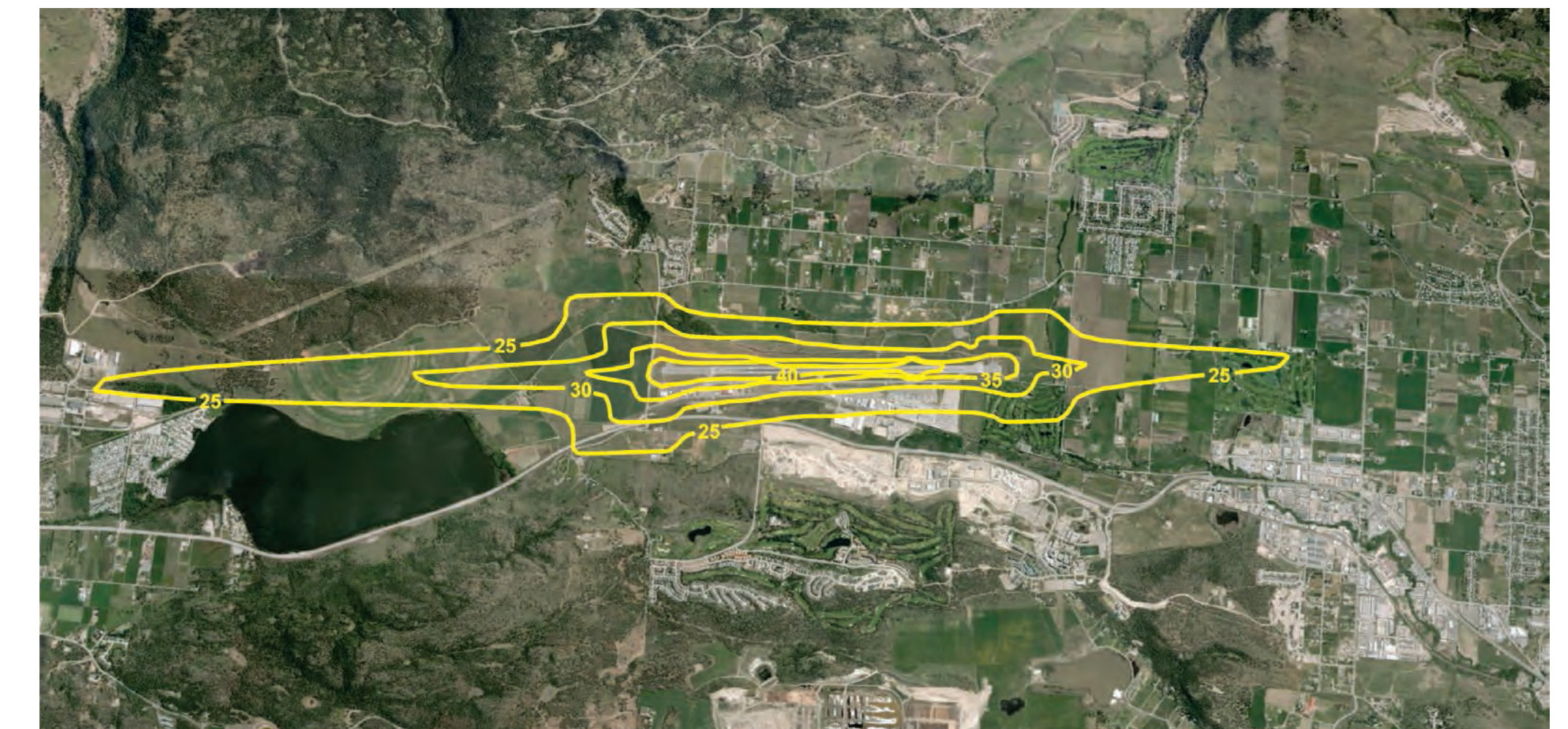
SNC • LAVALIN

?) Noise Exposure

- ▶ No changes are recommended off-airport land zoning based on the preliminary Master Plan findings.
- ▶ Noise contours depict areas of noise exposure based on frequency of aircraft movements, and are not directly related to measured noise.



2025 Noise Exposure Forecast



2045 Noise Exposure Forecast

Runway Capacity and Length

- ▶ The existing single runway meets the needs to 2045. New standards will require the addition of Runway End Safety Areas (RESA).
- ▶ Recommendation for future runway expansion on land immediately to the south of the current runway to accommodate larger aircraft as demand increases.

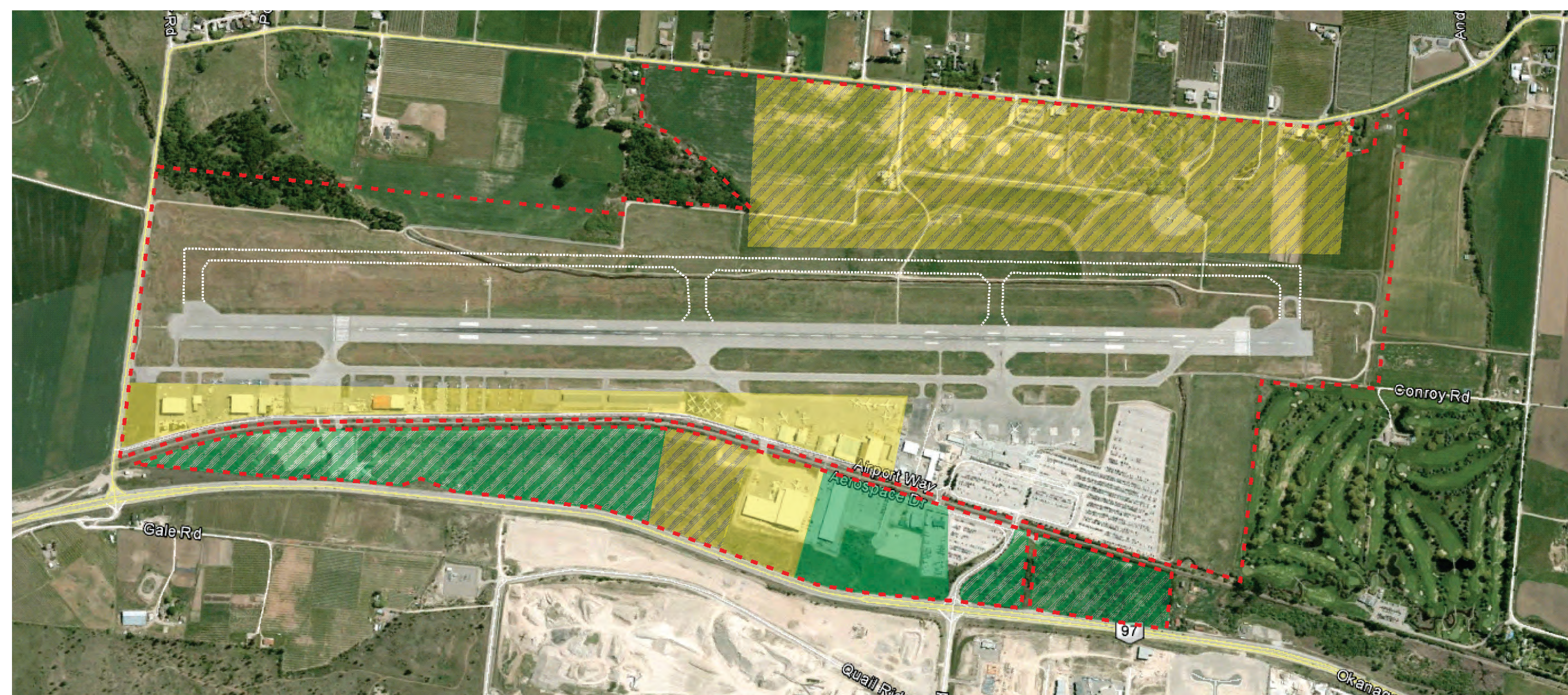
Apron and Aircraft Parking

- ▶ No new terminal gates are required until beyond 2035. One new terminal gate stand is recommended between 2035 and 2045. Five new remote aircraft parking stands are recommended by 2045. Two apron options are also under review (refer to presentation slides for graphics).
- ▶ Aircraft movements are forecast to increase by 50% (2045), which will increase future demand on groundside and airside facilities.

Land Considerations

On YLW Lands

Additional development of commercial land is required on airport property. Continued capital development also recommended.



- Existing Groundside Commercial
- Future Groundside Commercial
- Airport Boundary
- Existing Airside Commercial
- Future Airside Commercial

Off YLW Lands

Shadow Ridge Golf Course acquired to meet future demand. Also, the parcel of land immediately to the south of the existing runway recommended for future acquisition as demand increases.



- Potential Land Acquisition Areas
- Recently Acquired Land (Golf Course Still in Operation)
- Airport Boundary

AIRPORT INFRASTRUCTURE

Airport Terminal Building, Car Parking and Roads

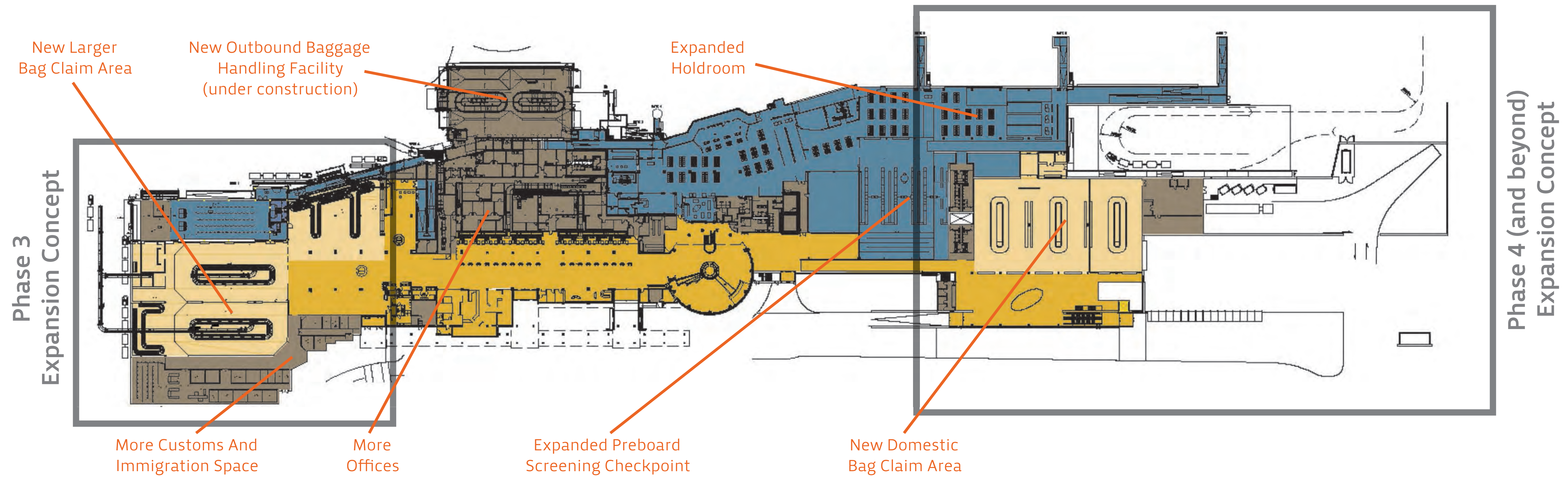
Airport Terminal Building

Current and Future (Recommended) Expansion Program

► Existing facilities require reconfiguration and expansion. Recommendation for Phase 3 and 4 (and beyond) expansion areas (see illustration below)

Source: Dialog and SNC-Lavalin

*Details of future layouts are at the discretion of YLW



Car Parking and Roads

Existing roadways and parking facilities require reconfiguration and expansion

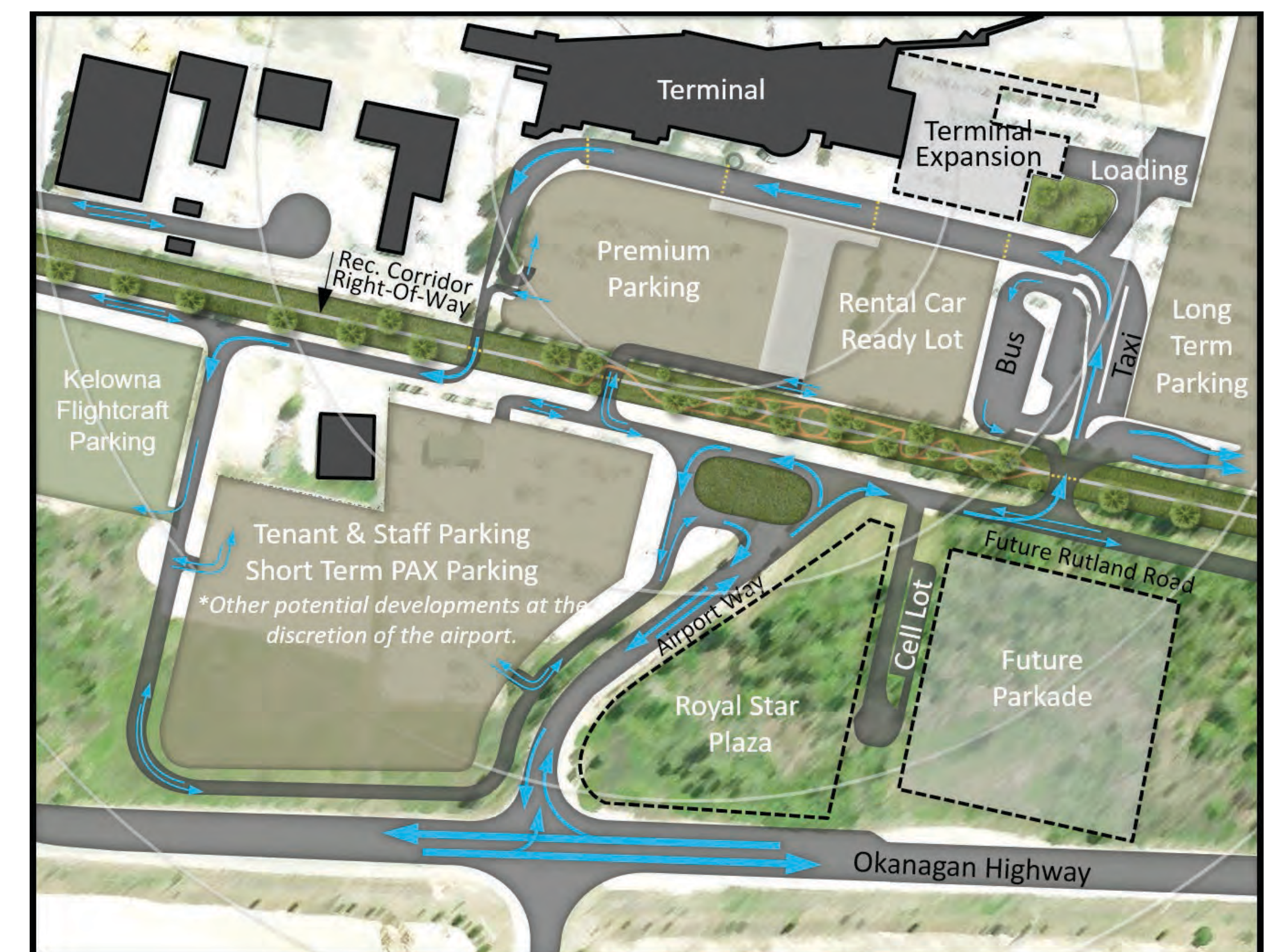
Current forecasts indicate parking facilities will not meet demand in 5 - 10 years

Recommended to increase parking stalls by 1,800 by 2045

A portion of the existing long-term lot is needed for future apron expansion -- option of relocating the lot to the south is under review

Industry trends such as share ride services will have impacts

Connectivity to/from YLW to be considered as part of overall transportation network



Source: Airbiz 2015

*Preliminary Groundside Development Proposal

PRELIMINARY MASTER PLAN 2045 FINDINGS

Preliminary Master Plan Findings

YLW's current development strategy remains valid



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



Passenger traffic is forecast to increase from **1.6 to 3.6 million** passengers by 2045

Aircraft movements are forecast to **increase by approximately 50%** - most will come from air carriers

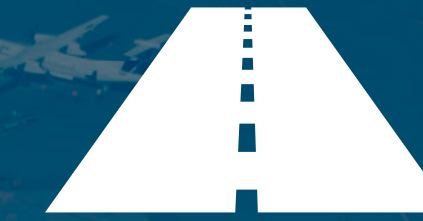


Current Official Community Plan (OCP) zoning should be preserved - **a future OCP amendment may be required**

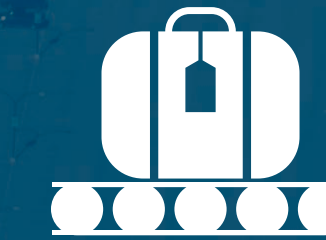


New aerodrome regulations will impact planning

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

Next Phase: Final Master Plan Development

The project team is continuing their research, analysis and recommendations through 2016 that will inform the final Master Plan 2045 development.

Have Your Say!

Your feedback into the Master Plan 2045 process is important! Please review all the material and complete the printed survey or visit us online at <https://www.surveymonkey.com/r/MASTERPLAN2045YLW-1>

Keeping You Connected

ylw.kelowna.ca
250.807.4300
airport@kelowna.ca
250.765.0213 (fax)

Airport Administration
1 - 5533 Airport Way
Kelowna BC V1V 1S1

**Thank you
for your
participation!**

Master Plan 2045 Survey

Have Your Say!



Appendix 11.1.5
Open House Full Print Travel Event Survey/Online February 2016

As Kelowna International Airport (YLW) plans for the future, your comments are important to include as part of the final Master Plan 2045.

Please provide your comments on the key topics noted below. Background information is available on the display boards and handouts, and available online at ylw.kelowna.ca.

1) YLW's Vision and Strategic/Economic Development

What are your interests and priorities for YLW to consider as part of its **long-term planning**?

2) Please tell us your opinion about how YLW can maintain and/or improve its Key Success Drivers (refer to Board three for descriptions).

3) What questions or comments do you have about the future of air traffic growth?

4) What are your thoughts about the runway, apron and aircraft parking?

5) What would you like to see maintained and/or improved inside the air terminal building?

(Survey continued on next page)

6) Please tell us what is important to you about **maintaining and/or improving car parking and roads in the long-term?**

7) What questions or comments do you have about **current and/or future land development both on and off YLW property?**

8) Based on the preliminary 2045 Master Plan findings (refer to Board six), please tell us **any other questions or comments for consideration** in the final 2045 Master Plan.

9) If you attended our open house in-person, **please tell us what you thought about the open house, the materials and the help of our team** (held February 27, 2016).

10) Please **outline any other comments you may have about the Master Plan or YLW** in general, including if you would like a member of our team to contact you.

(Please include your name and phone number above if applicable)

Thank you for your participation!

The deadline to provide feedback is June 30, 2016.

Our electronic survey is online at:
<https://www.surveymonkey.com/r/MASTERPLAN2045YLW-1>

You can submit a printed survey via email, in-person, online or by mail.

Your comments will be considered as the project team continues the analysis and recommendations that informs the final Master Plan 2045.

Keeping You Connected

-  Visit Us Online: ylw.kelowna.ca
-  250.807.4300
-  airport@kelowna.ca
-  250.765.0213
-  Airport Administration
1 – 5533 Airport Way
Kelowna BC V1V 1S1



Kelowna International Airport

Master Plan 2045

Preliminary Draft Summary

Summer 2016



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YLW Master Plan

About

- Supports YLW's vision to become the best mid-sized airport in North America
- Supports the Drive to 1.6 Million Passengers Program and the Flight to 2020 Projects (Ongoing)
- Picks up where the 2025 Master Plan left off to guide airport planning and development
- Informs the City's Official Community Plan (OCP)
- Includes a Five Year Strategic Plan



YLW Master Plan 2045

Goals

Review and Analyze

all aspects of airport
infrastructure

Update

traffic forecasts and
economic data

Define

future growth and
development priorities

Guide

future capital planning
and phased implementation

Provide

stakeholders and the public
with engagement
opportunities

Apply

the final 2045 Master Plan as
the way forward

YLW Master Plan 2045

Timeline: Three-phase Approach



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

Strategic Development Plan

Vision and Mission

The **Vision** of Kelowna International Airport (YLW) is to become the best mid-sized airport in North America.

The **Mission** of YLW is to provide safe, secure, customer-friendly economical services and facilities that promote the Okanagan.



Strategic Development Plan

Core Values

- Innovation
- Excellence in Safety, Security and Environmental Performance
- Teamwork and People
- Integrity
- Economic Development and Fiscally Responsible Ownership
- Quality Customer Experience



Strategic Development Plan

Key Success Drivers

- Operate and maintain safe and secure best-in-class facilities and services
- Foster economic development for the region
- Act in a financially responsible and sustainable manner
- Exceed customer service expectations of the travelling public in collaboration with airport partners and the community



Economic Impact of YLW Activities

YLW Fast Facts

Kelowna International Airport (YLW) is the largest municipally owned and operated airport in Canada – and we're growing!

Our goal to welcome 1.6 million passengers was achieved in 2014



By 2020 we anticipate serving **2 million passengers** annually



We are the **11th busiest airport** in Canada

More than **15,400 passengers** every week choose our airport as their starting destination



Our economic impact in 2010 was **2,730 jobs**, representing **\$140 million in wages** and **\$610 million** in total economic output in BC



From 2010 to 2015, our full-time employment increased by **9%**, wages increased by **19%** and our GDP increased by **27%**



Between 2010 and 2020, we will have invested over **\$92 million** in facility upgrades



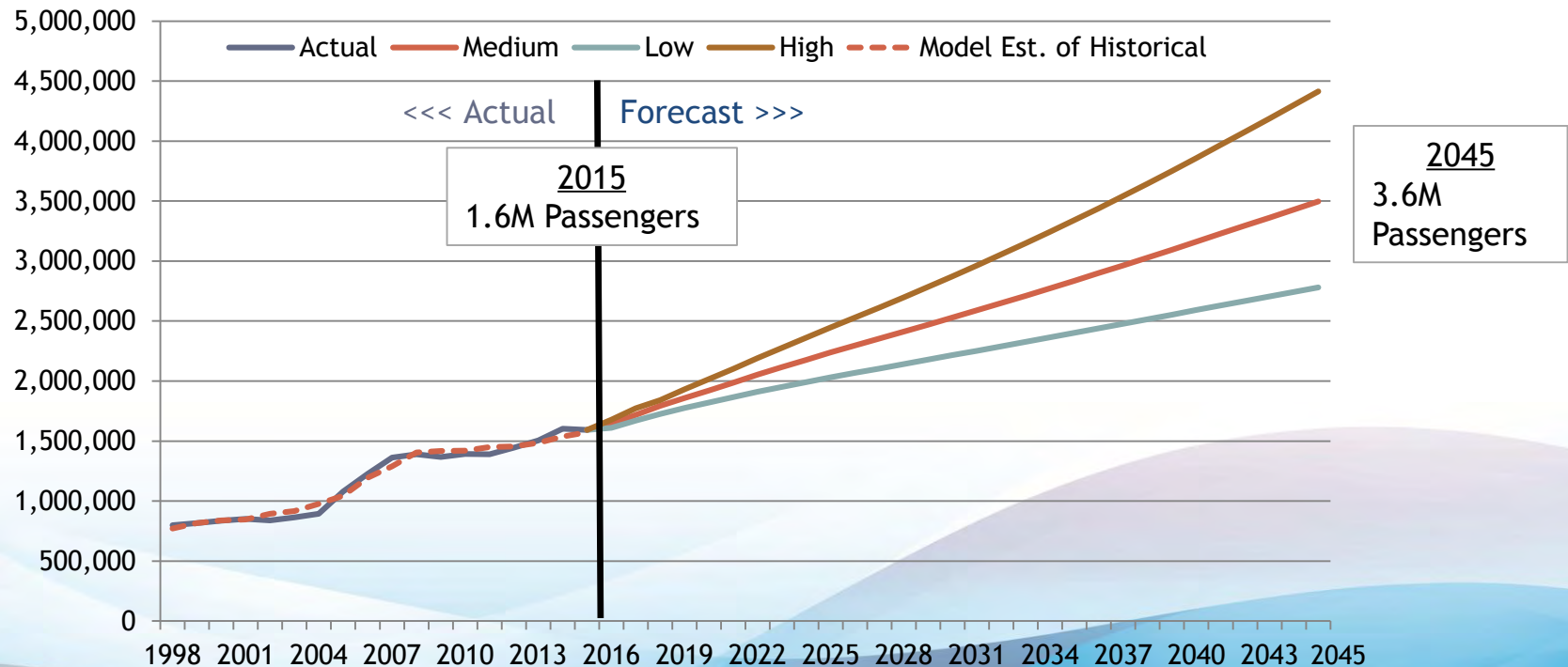
Every additional daily, year-round scheduled B737 flight also generates up to 38 full-time jobs at YLW

Air Traffic Growth



Passengers

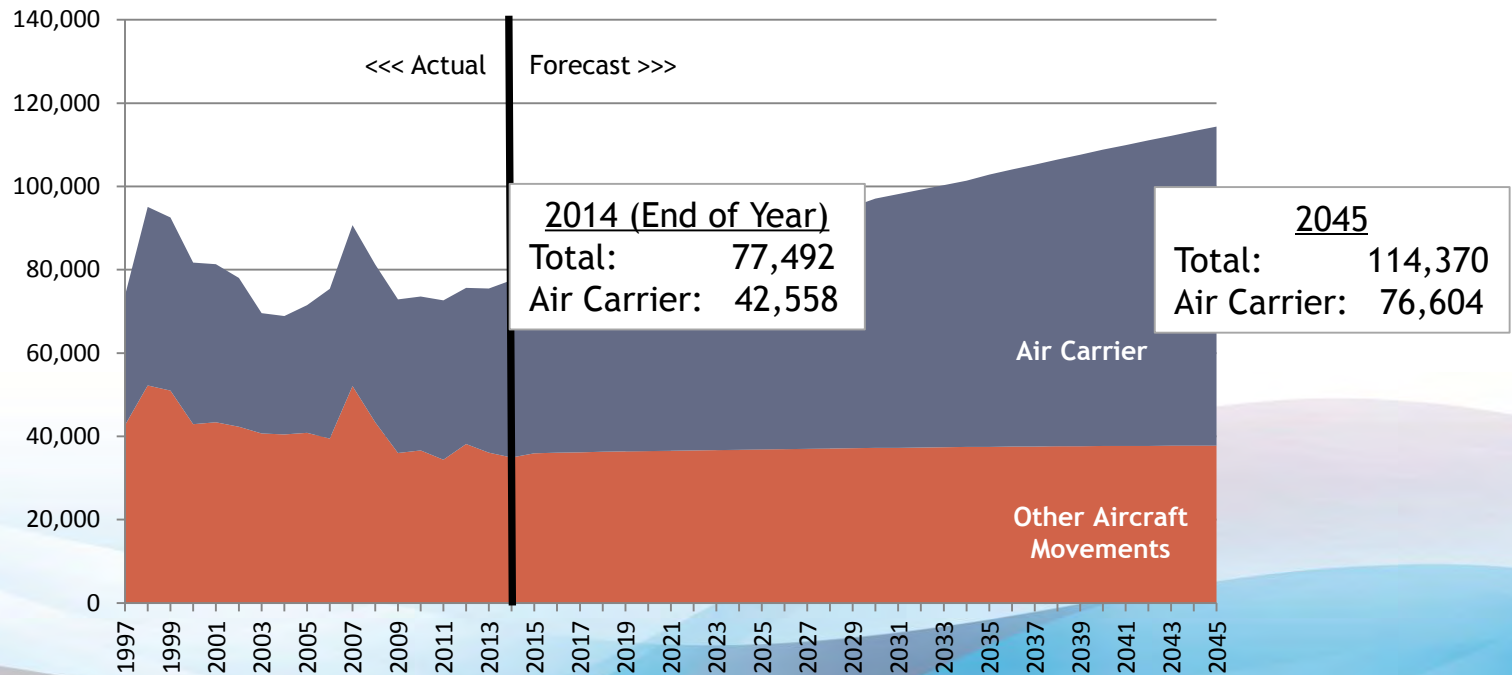
Passenger growth to continue at **3% annually** (medium forecast)



Air Traffic Growth

Aircraft Takeoffs and Landings

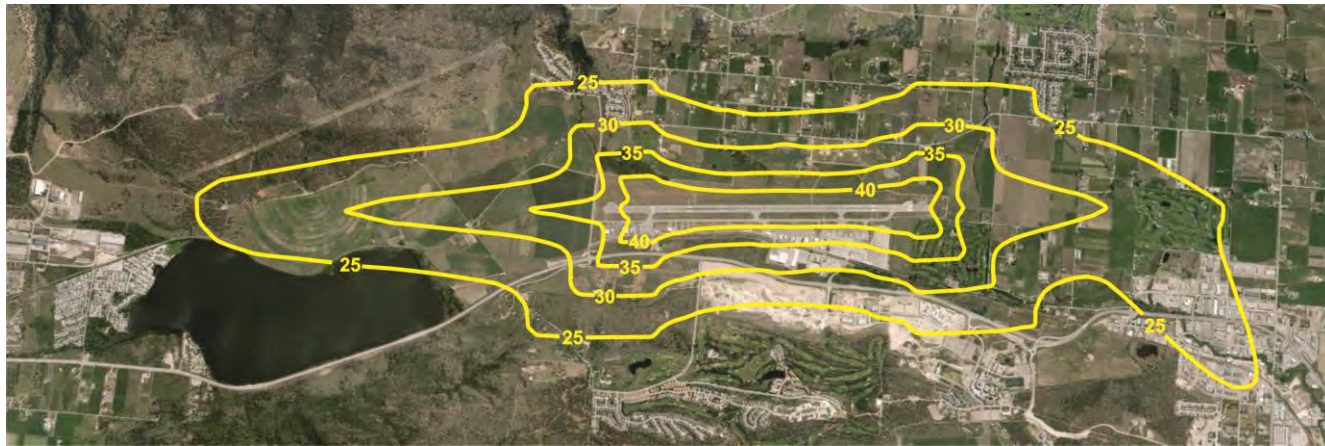
Growth at 2% per year (majority attributable to air carrier services)



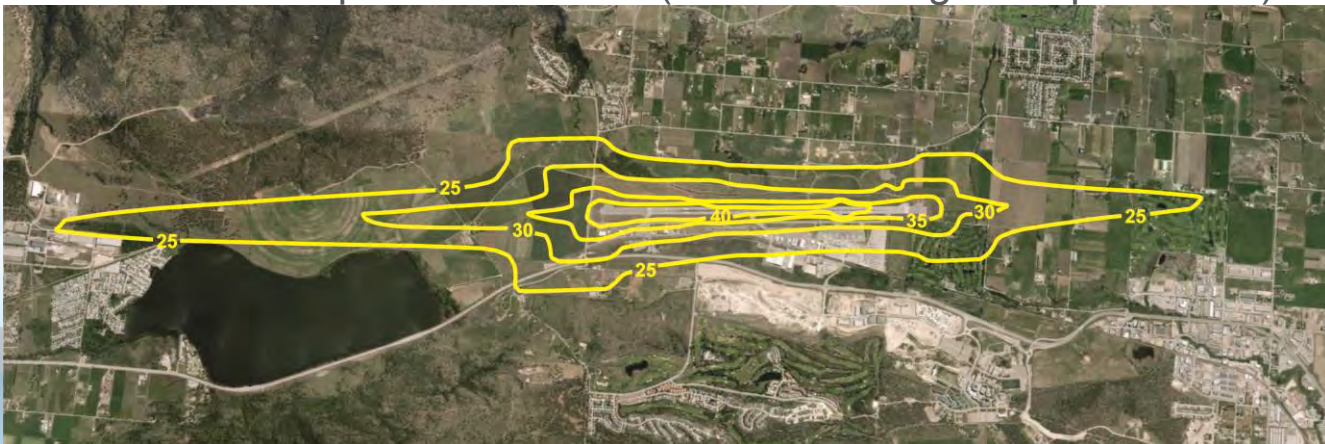
Air Traffic Growth

Noise Exposure – Preliminary Master Plan 2045

2025 Noise Exposure Forecast



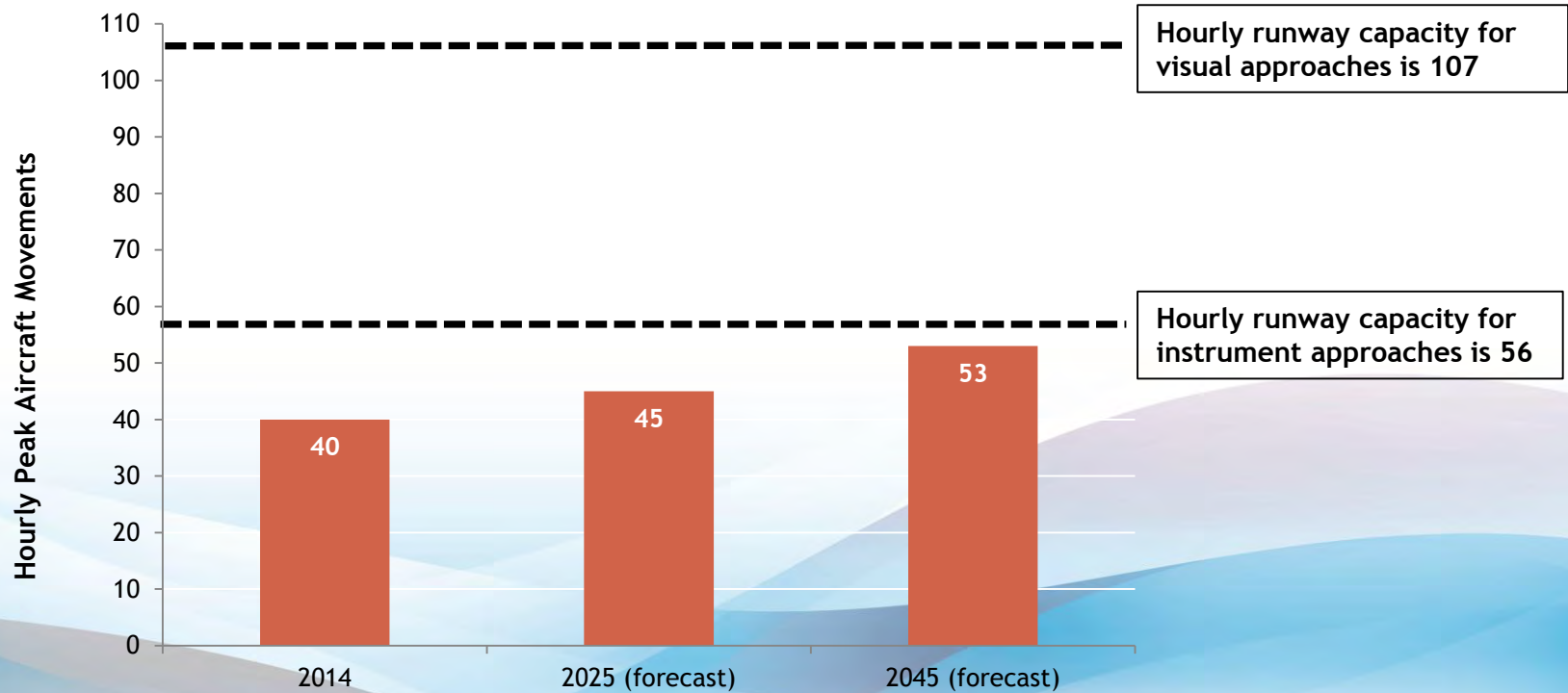
2045 Noise Exposure Forecast (Current zoning to be preserved)



Airport Infrastructure

Airside Capacity (e.g. Runways)

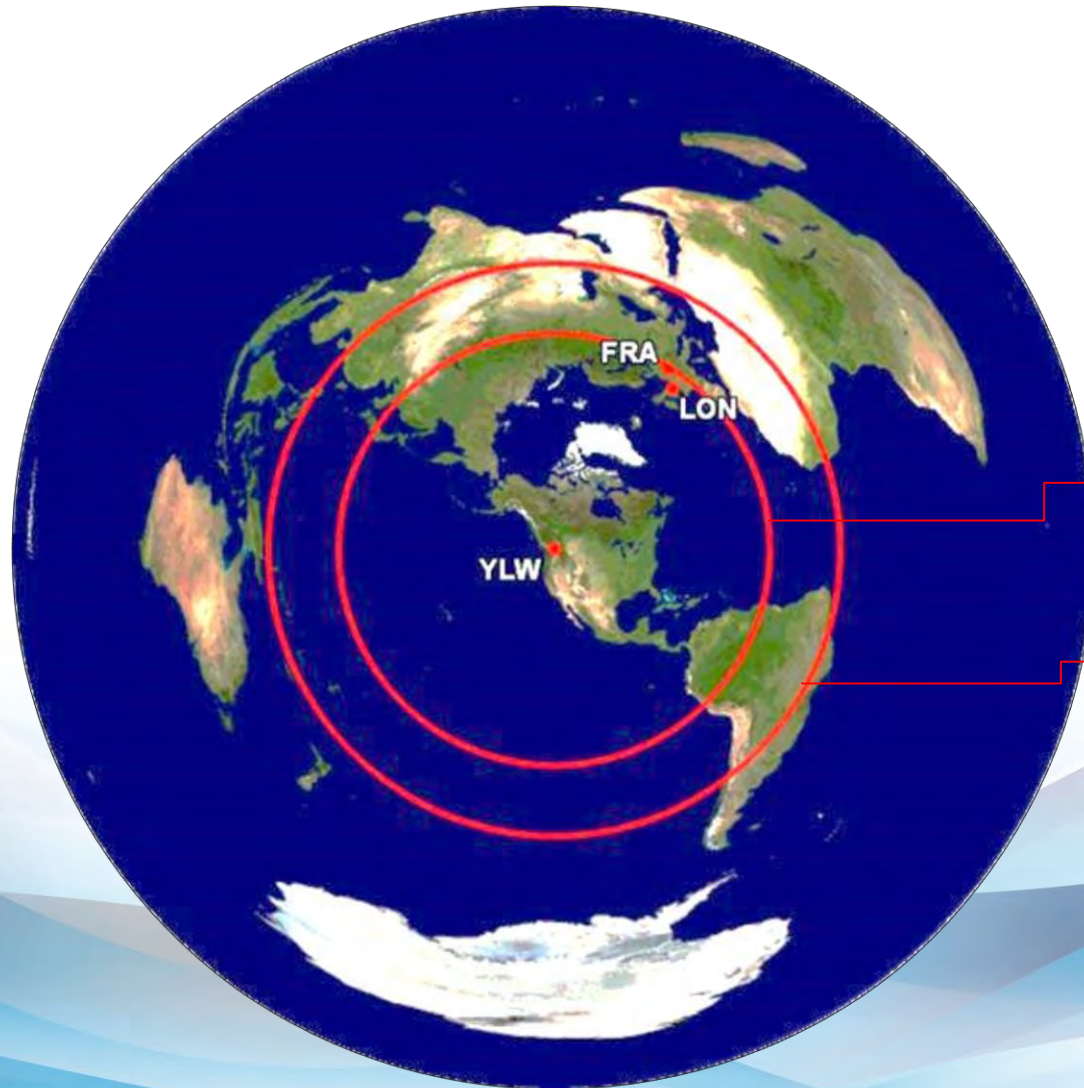
YLW's existing runway capacity accommodates future demand



Airport Infrastructure

Runway Length

- Current runway length is sufficient for B767-300ER aircraft to fly non-stop to London and Frankfurt with full passenger load



B767-300ER

4300 nm

B787-8HI

5700 nm



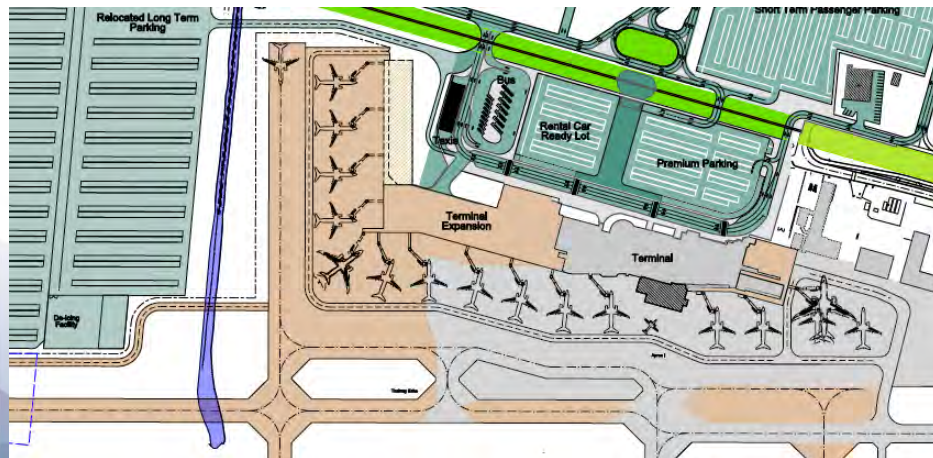
New Aerodrome Regulation Changes

- TP 312 5th Edition came into effect September 2015
- New regs impact zoning for clearances under and around approach surfaces
- Runway End Safety Areas (RESA) will be required

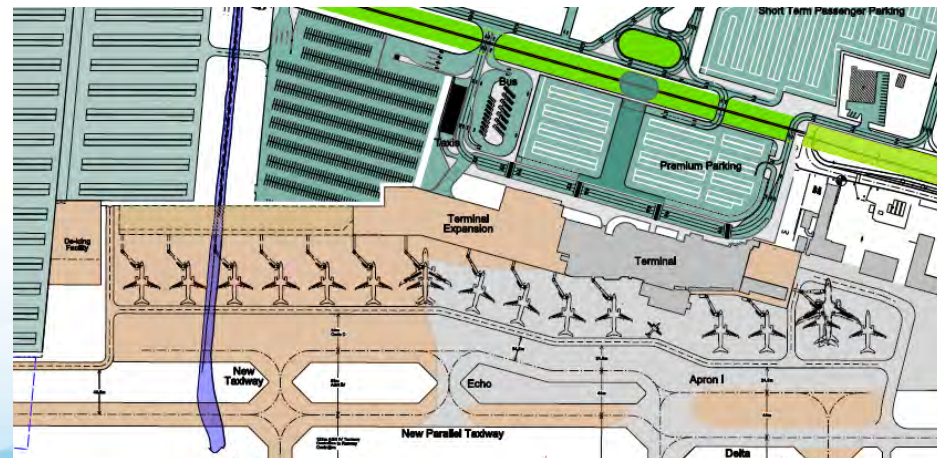


Apron and Aircraft Parking

- One to two terminal gates required by 2035
- Five new remote parking stands required by 2045
- Apron expansion options under review



Scenario 1



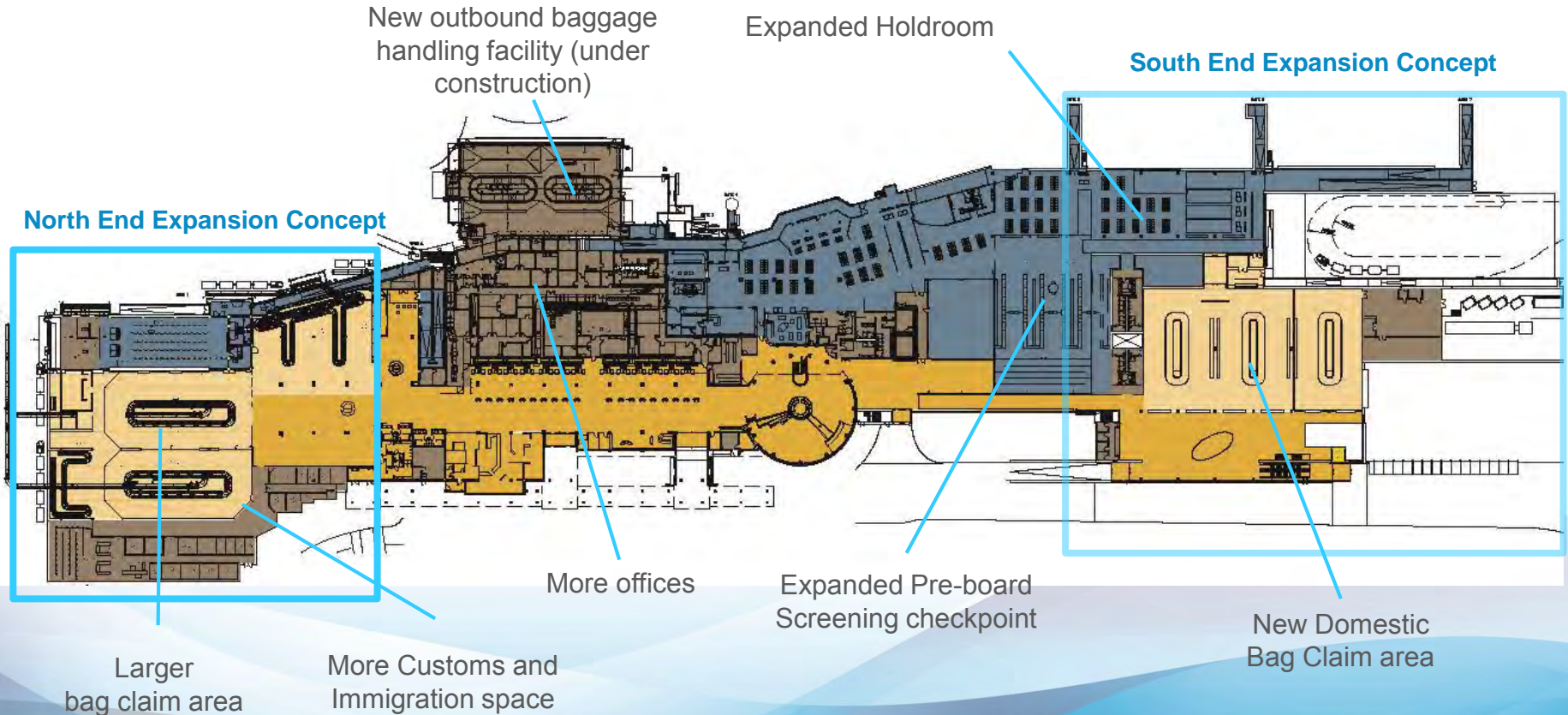
Scenario 2

Airport Infrastructure



SNC · LAVALIN

Air Terminal Building – Long-Term Expansion Program



Source: Dialog and SNC-Lavalin

* Details of future layouts are at the discretion of the airport



Air Terminal Building – Demand/Capacity

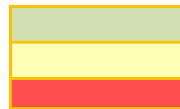
Proposed North Terminal Expansion Areas vs. Updated Functional Program Requirements (2015)

	Note	Existing, Incl. New Bag Make Up /HBS (m2)	Updated ATB Functional Program Requirements (m2)					
			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
Holdroom Space (Usable)	1	793	969	1,105	1,274	1,375	1,544	1,770
Holdroom Space (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	642	1,012	1,012
CBSA PIL, Secondary and Support		488	371	455	594	688	745	876
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	9,567	11,030	12,525

Demand less than 95% of Capacity

Demand within 95% and 110% of Capacity

Demand > 110% of Capacity



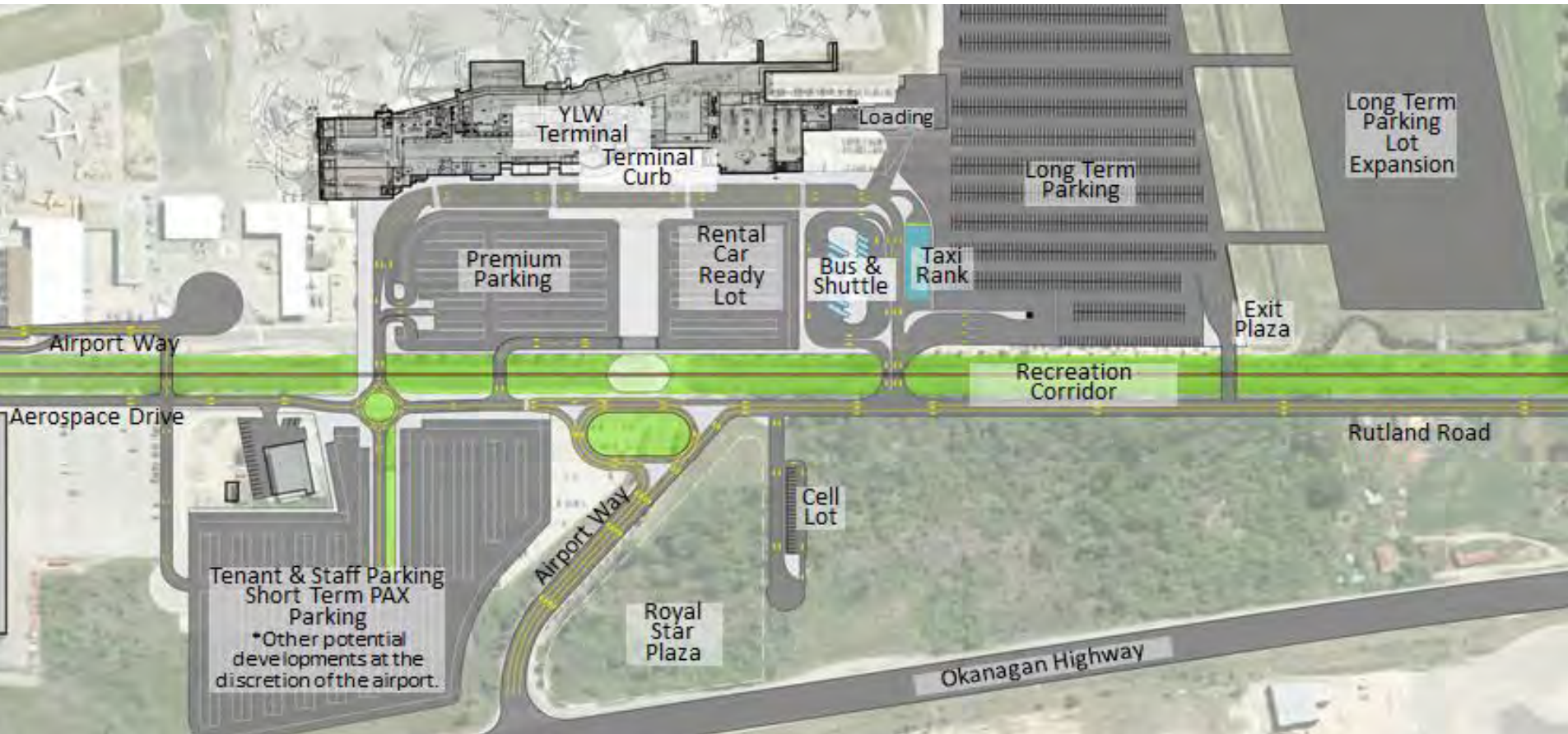
Notes

- Existing Sterile Holdroom area measures 1,189 m2, of which 396 m2 at the southern end is underutilized due to layout issues (and no access to boarding gates). This area is not included in the existing useable area.
- Assumes inbound bag ops area located outside (not included in terminal space requirements).

Airport Infrastructure

Car Parking and Roads

Preferred Groundside and Access Parking Development Option



Source: Airbiz, 2015

Airport Infrastructure



Car Parking and Roads

Industry trends

such as share ride services
will have impacts

Recommended to
increase parking stalls
by 1,800 by 2045

A portion of the
existing long-term lot
is needed for future apron
expansion – option of relocating the
lot to the south
is under review

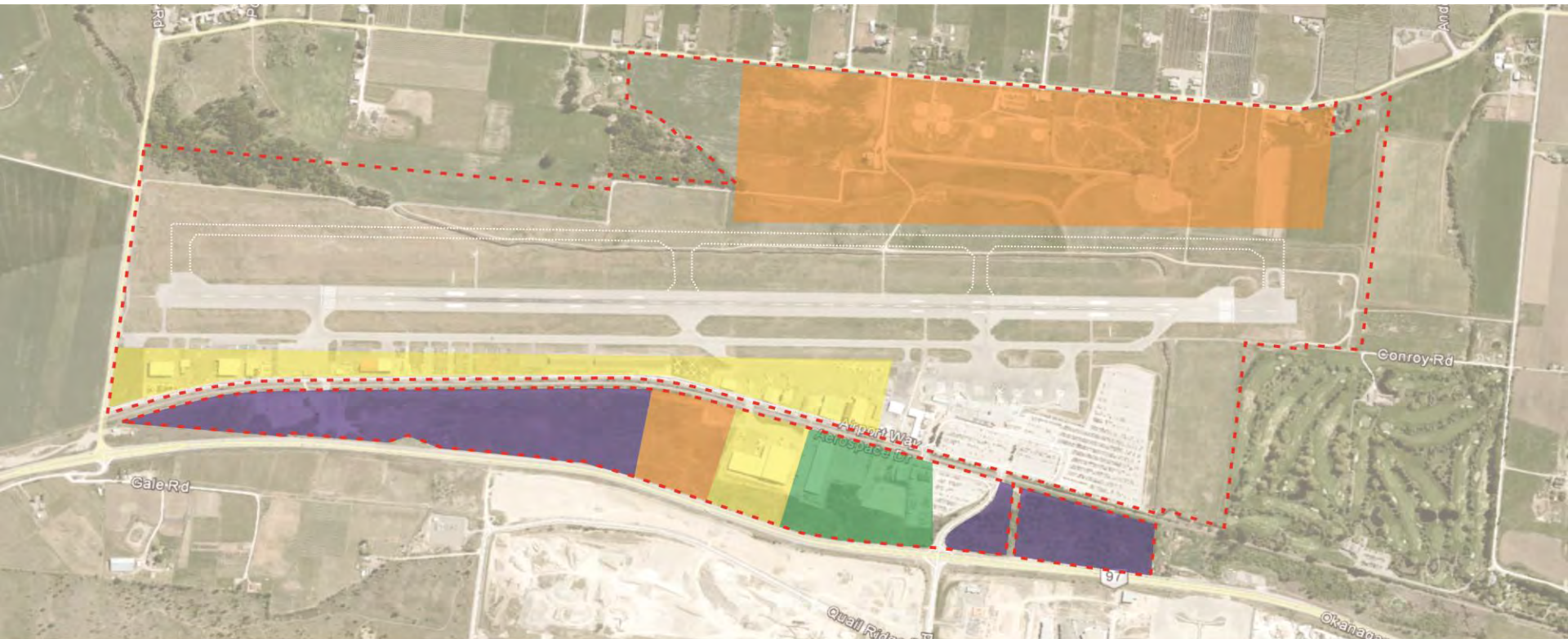
Current forecasts indicate
parking facilities will not meet
demand in 5 – 10 years




Existing roadways and
parking facilities
require reconfiguration and
expansion

Connectivity to/from YLW
to be considered as part of overall
transportation network

Land Considerations

Commercial Land Development – On YLW Property



-  Existing Groundside Commercial
-  Future Groundside Commercial
-  Airport Boundary

-  Existing Airside Commercial
-  Future Airside Commercial

Land Considerations

Potential Land Acquisition – Off YLW Property



-  Potential Land Acquisition Areas
-  Recently Acquired Land (Golf Course Still in Operation)
-  Airport Boundary

Preliminary Master Plan 2045

Key Findings (Summer 2016)

Preliminary Master Plan Findings

YLV's current development strategy remains valid



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



Passenger traffic is forecast to increase from **1.6 to 3.6 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 YLV land) is required



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

HAVE YOUR SAY!

Your feedback is important!
Please complete the survey or visit us online at:

<https://www.surveymonkey.com/r/MASTERPLAN2045YL>
[W-1](#)

Thank you for your participation



KELOWNA INTERNATIONAL AIRPORT

Your Link To The World

Master Plan 2045

Appendix 11.1.7
Open House Mall Display Boards August 2016



YLW's Vision and Mission

The **Vision** of Kelowna International Airport (YLW) is to become the best mid-sized airport in North America.

The **Mission** of YLW is to provide safe, secure, customer-friendly economical services and facilities that promote the Okanagan.

Your participation in the planning and implementation of our Vision, Mission and strategic development contributes to our success.

How We Get There

- ▶ Master Planning (2045)
- ▶ Strategic Plan (5-year)
- ▶ Capital Planning and Implementation
- ▶ Drive to 1.6 Million Passengers Program
- ▶ Flight to 2020 Projects
- ▶ Supporting the City's Official Community Planning
- ▶ Ongoing Public and Stakeholder Engagement
- ▶ Reporting to Committees and City Council

The Master Plan 2045

Picking up where the Master Plan 2025 left off, the Master Plan 2045 is an important short and long-term plan, slated to be completed in late 2016, that further supports YLW achieving its Vision.

The Master Plan process analyzes how best to align our infrastructure and services to changing market conditions and growth, while identifying a balanced approach to management capital and operating expenses.

Why Your Participation Matters

YLW continues to experience a high growth rate and our continued commitment is to plan and implement the future of YLW in sustainable ways.

Public and stakeholder engagement provides a continued forum to understand, explore and evaluate the future of YLW as the technical planning proceeds.



YLW Fast Facts

Kelowna International Airport (YLW) is the largest municipally owned and operated airport in Canada – and we're growing!

Our goal to welcome **1.6 million passengers** was achieved in 2014



By 2020 we anticipate serving **2 million passengers** annually



We are the **11th busiest airport** in Canada

More than **15,400 passengers** every week choose our airport as their starting destination



Our economic impact in 2010 was **2,730 jobs**, representing **\$140 million in wages** and **\$610 million** in total economic output in BC



From 2010 to 2015, our full-time employment increased by **9%**, wages increased by **19%** and our GDP increased by **27%**



Between 2010 and 2020, we will have invested over **\$92 million** in facility upgrades



YLW Master Plan 2045



THE IMPORTANCE OF THE MASTER PLAN 2045



YLW's aviation service needs and future demands require continued assessment, planning, consultation and implementation of sustainable solutions.

The Master Plan process, which includes a 5-Year Strategic Plan, is a critical tool used to guide YLW in sustainable and fiscally responsible short and long-term planning.

Updating the Master Plan links with many of the City of Kelowna's governing initiatives, particularly with the Official Community Plan (OCP) and potential future amendments. YLW's master planning also informs local and regional planning and development, such as with airline operators, travel organizations and more.

The Master Plan 2045 is one of YLW's strategic organizational components that identifies airport and aviation development and growth impacts including:

Socio-economic demand and effects

Environmental considerations

Air traffic and passenger growth

Traffic and transportation demands

Land use (both on and off YLW lands)

Infrastructure and facility services

Master Plan 2045 Goals

Review and analyze

all aspects of airport infrastructure

Update

traffic forecasts and economic data

Define

future growth and development priorities

Guide

future capital planning and phased implementation

Provide

stakeholders and the public with engagement opportunities

Apply

the final 2045 Master Plan as the way forward

Master Plan Timeline: 3 Phases



Let's Move Forward Together

From our strategic planning to expanding airport infrastructure to our preliminary Master Plan 2045 findings outlined on the next series of display boards, we would like to hear your feedback.

Stakeholder and Public Consultation

The purpose of Master Plan 2045 stakeholder and public consultations is to inform, engage and seek feedback about issues and opportunities associated with YLW's future growth and development. Topic-specific feedback is important to inform the final Master Plan 2045 as part of our overall analysis.

YLW and the SNC-Lavalin Airports + Aviation consultant team will review and analyze stakeholder and public comments from workshops, presentations, meetings, surveys and the open house that contributes to the final Master Plan 2045. A Master Plan 2045 Consultation Summary Report will also be issued to keep stakeholders and the public informed of our progress.

The implementation of the final Master Plan 2045 will be completed in phases and will depend on factors such as the speed of growth and development, capital costs to maintain and develop airport infrastructure, environmental considerations, community support and more.

YLW Master Plan 2045



MASTER PLAN 2045 COMPONENTS

These are the key topic areas that the project team is studying.
We would like to know what your interests and priorities are in these categories.

Air Traffic Analysis and Forecasting: Air Traffic and Passenger Growth

Airside System: Runways and Taxiways

Airport Economic Impacts

New Regulatory Requirements

Potential Land Acquisition Areas

Apron and Aircraft Parking (Infrastructure)

Air Terminal Building

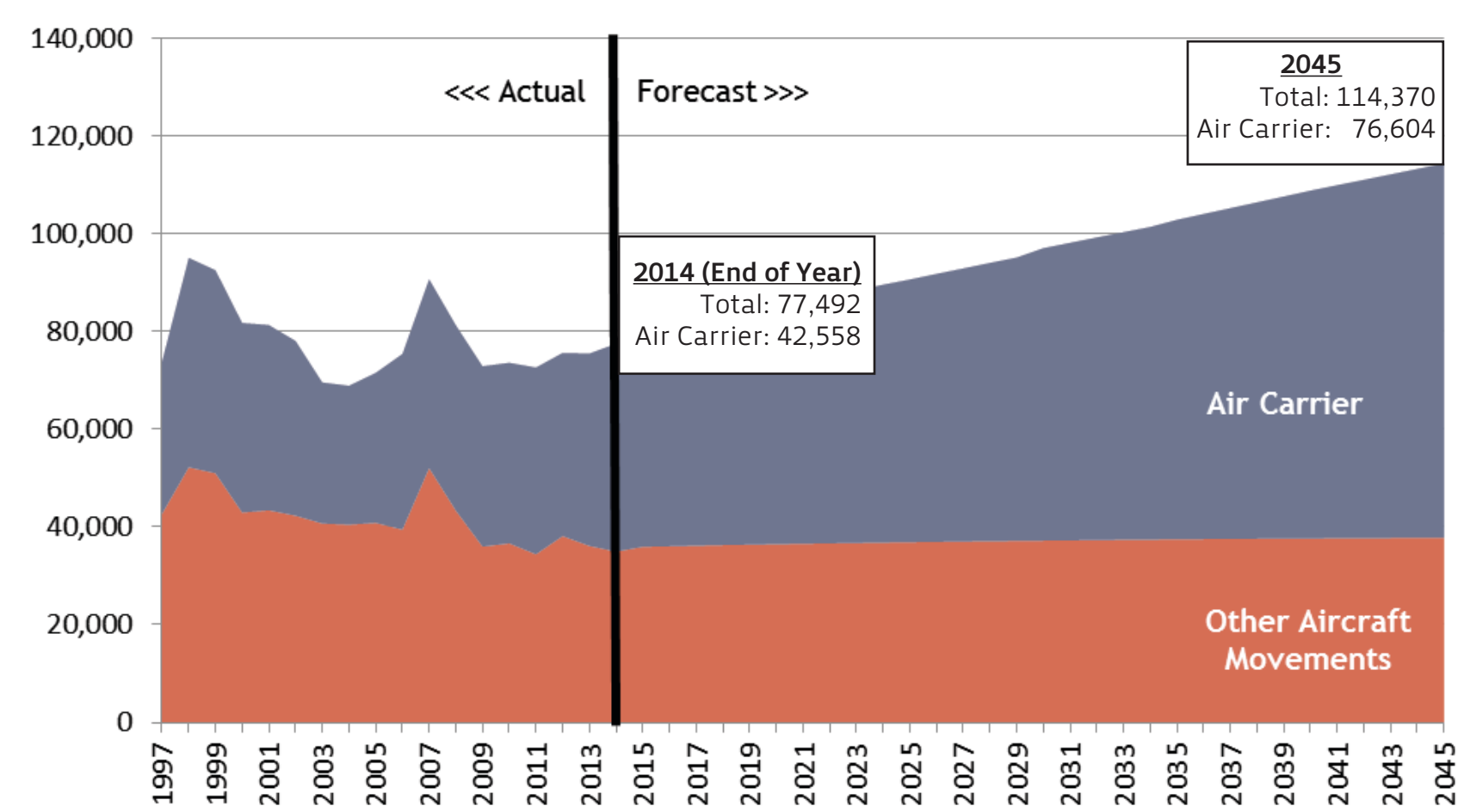
Public Roads, Access and Vehicle Parking

Commercial Land Development: Airside and Groundside

Noise Contours and Other Environmental Considerations

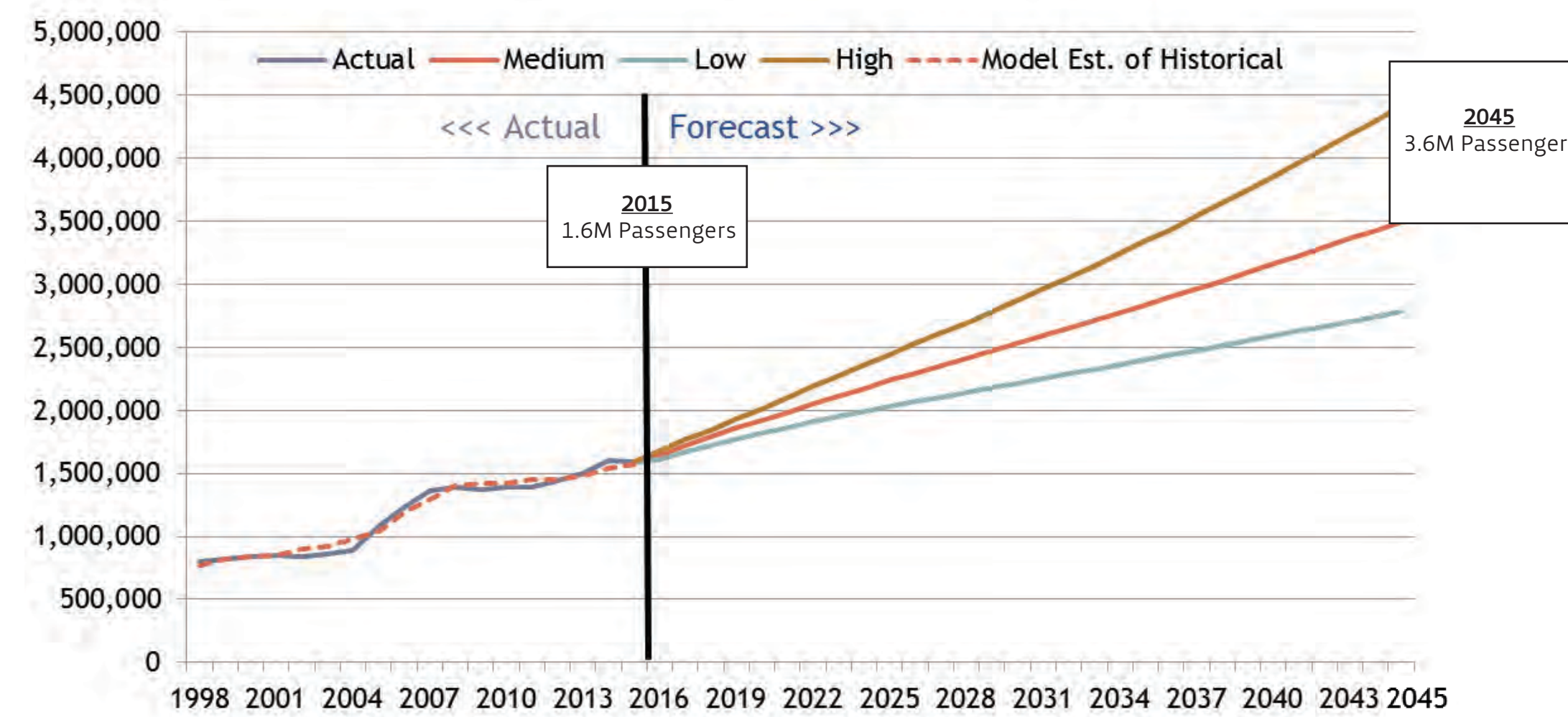
Air Traffic and Passenger Growth

Aircraft Takeoffs and Landings



Growth at 2% per year
(majority attributable to air carrier services)

Air Traffic Growth: Passengers



Passenger growth to continue at **3% annually** (medium forecast)

Strategic Development Plan Key Success Drivers

Operate and maintain
safe and secure
best-in-class
facilities and services

Foster
economic development
for the region

Act
in a financially responsible and
sustainable manner

Exceed
customer service expectations
of the travelling public in collaboration with
airport partners and the community

Please Tell Us How We're Doing!

AIRPORT INFRASTRUCTURE

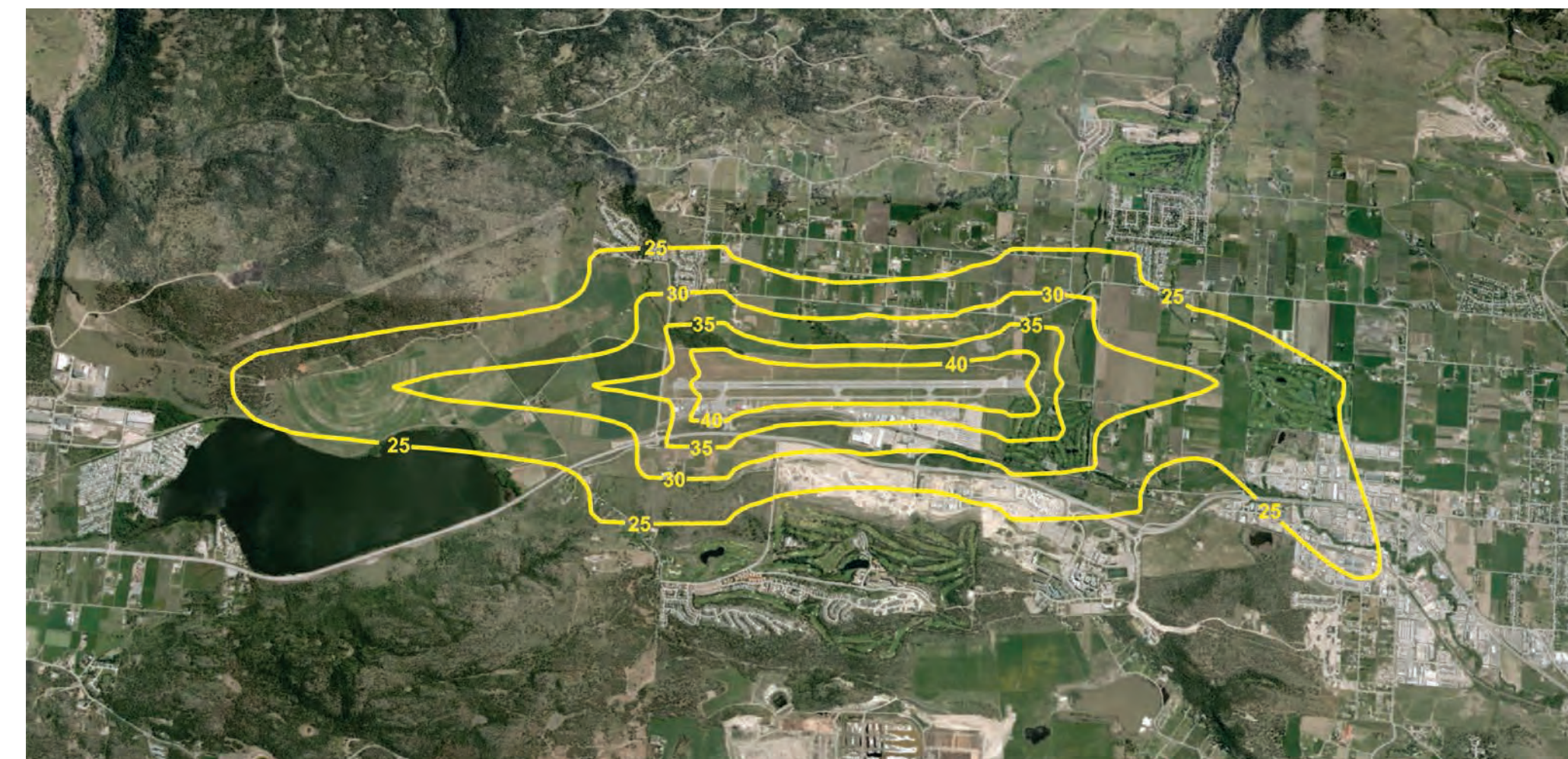
Noise Exposure, Runways/Apron and Aircraft Parking, and Land Considerations



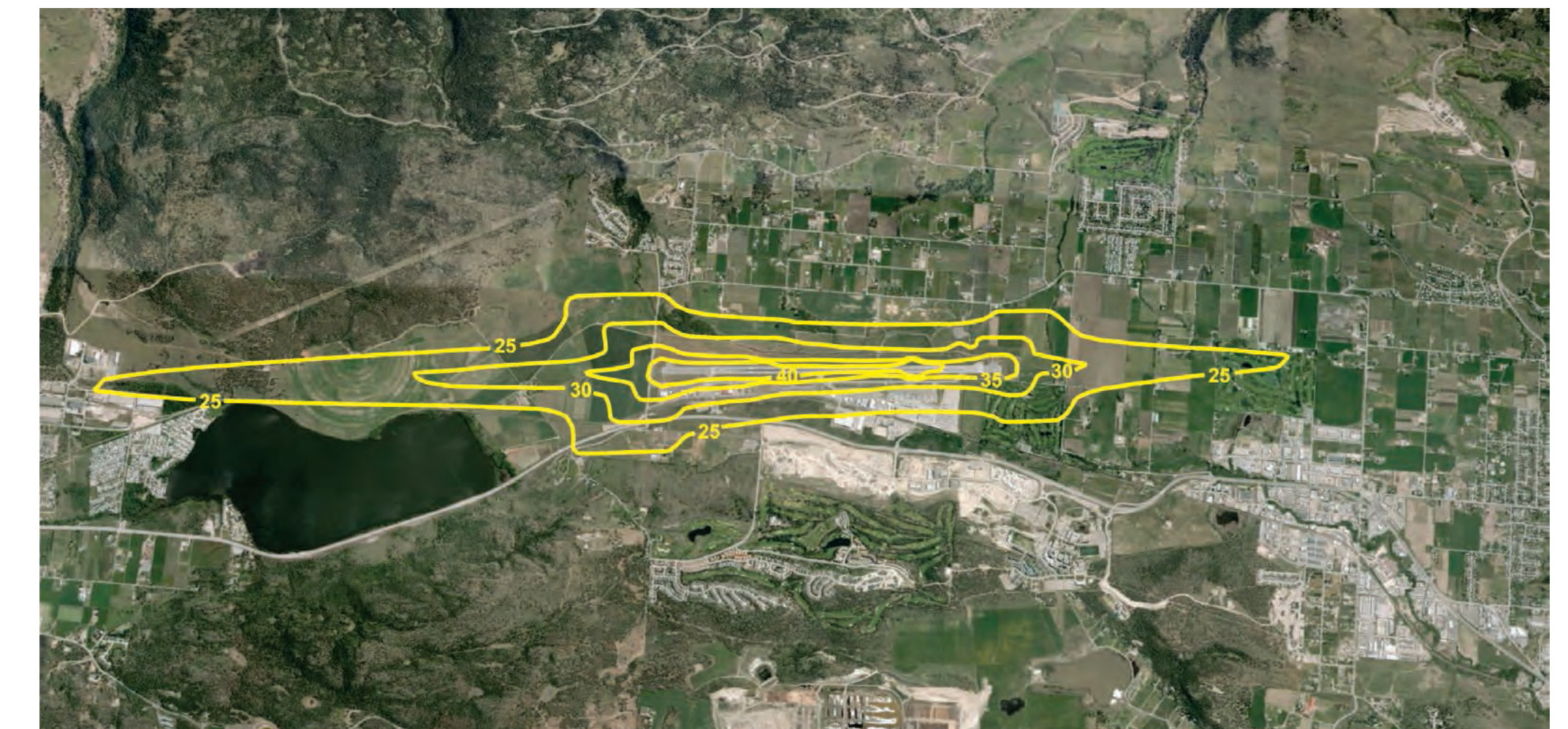
SNC • LAVALIN

?) Noise Exposure

- ▶ No changes are recommended off-airport land zoning based on the preliminary Master Plan findings.
- ▶ Noise contours depict areas of noise exposure based on frequency of aircraft movements, and are not directly related to measured noise.



2025 Noise Exposure Forecast



2045 Noise Exposure Forecast

Runway Capacity and Length

- ▶ The existing single runway meets the needs to 2045. New standards will require the addition of Runway End Safety Areas (RESA).
- ▶ Recommendation for future runway expansion on land immediately to the south of the current runway to accommodate larger aircraft as demand increases.

Apron and Aircraft Parking

- ▶ No new terminal gates are required until beyond 2035. One new terminal gate stand is recommended between 2035 and 2045. Five new remote aircraft parking stands are recommended by 2045. Two apron options are also under review (refer to presentation slides for graphics).
- ▶ Aircraft movements are forecast to increase by 50% (2045), which will increase future demand on groundside and airside facilities.

Land Considerations

On YLW Lands

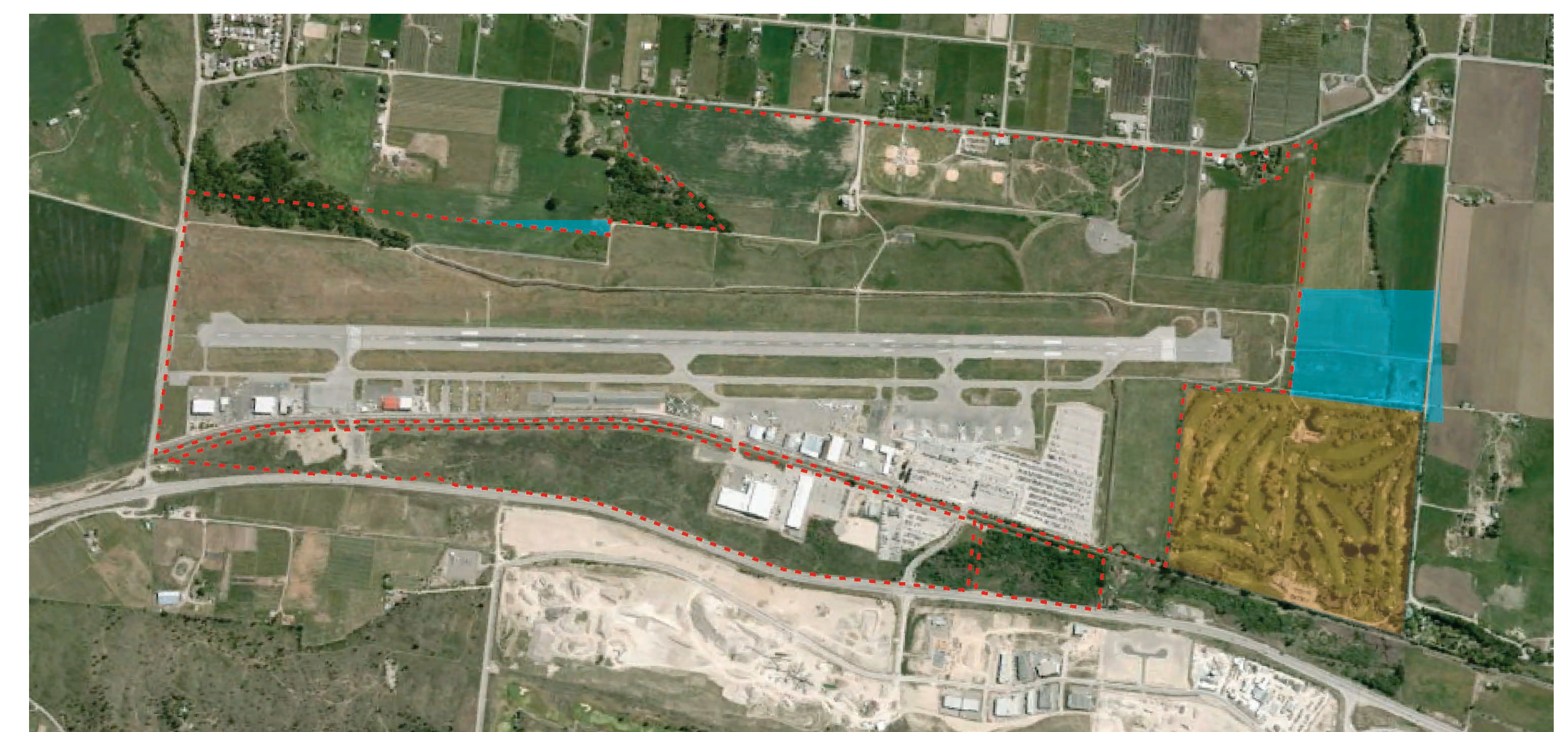
Additional development of commercial land is required on airport property. Continued capital development also recommended.



- Existing Groundside Commercial
- Future Groundside Commercial
- Airport Boundary
- Existing Airside Commercial
- Future Airside Commercial

Off YLW Lands

Shadow Ridge Golf Course acquired to meet future demand. Also, the parcel of land immediately to the south of the existing runway recommended for future acquisition as demand increases.



- Potential Land Acquisition Areas
- Recently Acquired Land (Golf Course Still in Operation)
- Airport Boundary

AIRPORT INFRASTRUCTURE

Airport Terminal Building, Car Parking and Roads

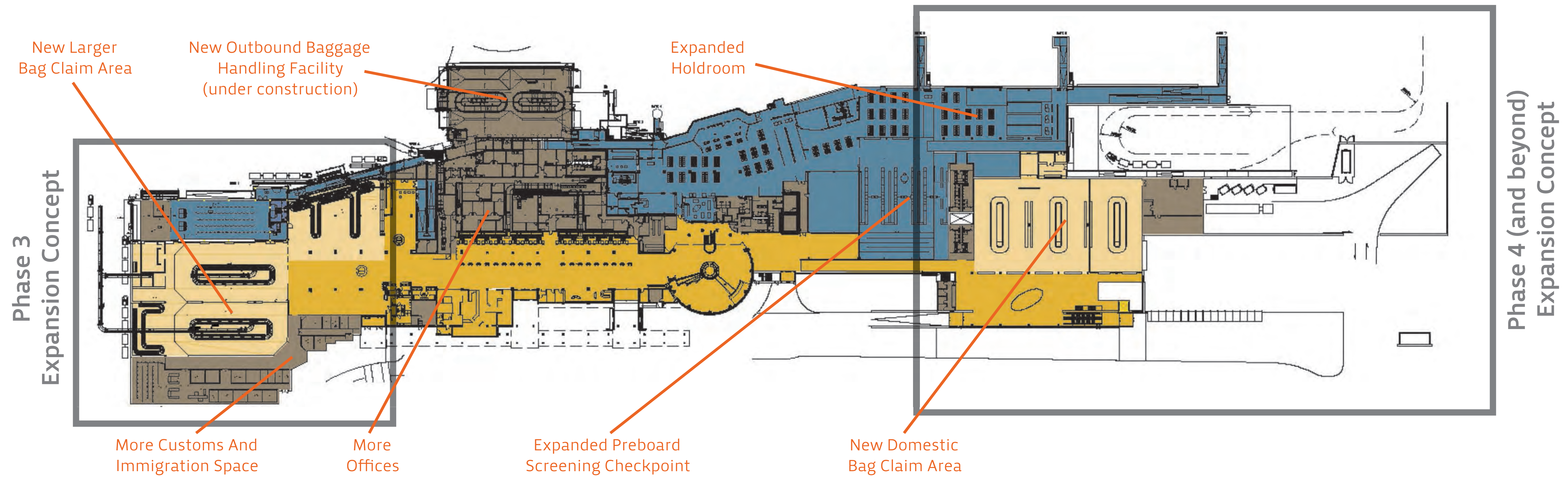
Airport Terminal Building

Current and Future (Recommended) Expansion Program

► Existing facilities require reconfiguration and expansion. Recommendation for Phase 3 and 4 (and beyond) expansion areas (see illustration below)

Source: Dialog and SNC-Lavalin

*Details of future layouts are at the discretion of YLW



Car Parking and Roads

Existing roadways and parking facilities require reconfiguration and expansion

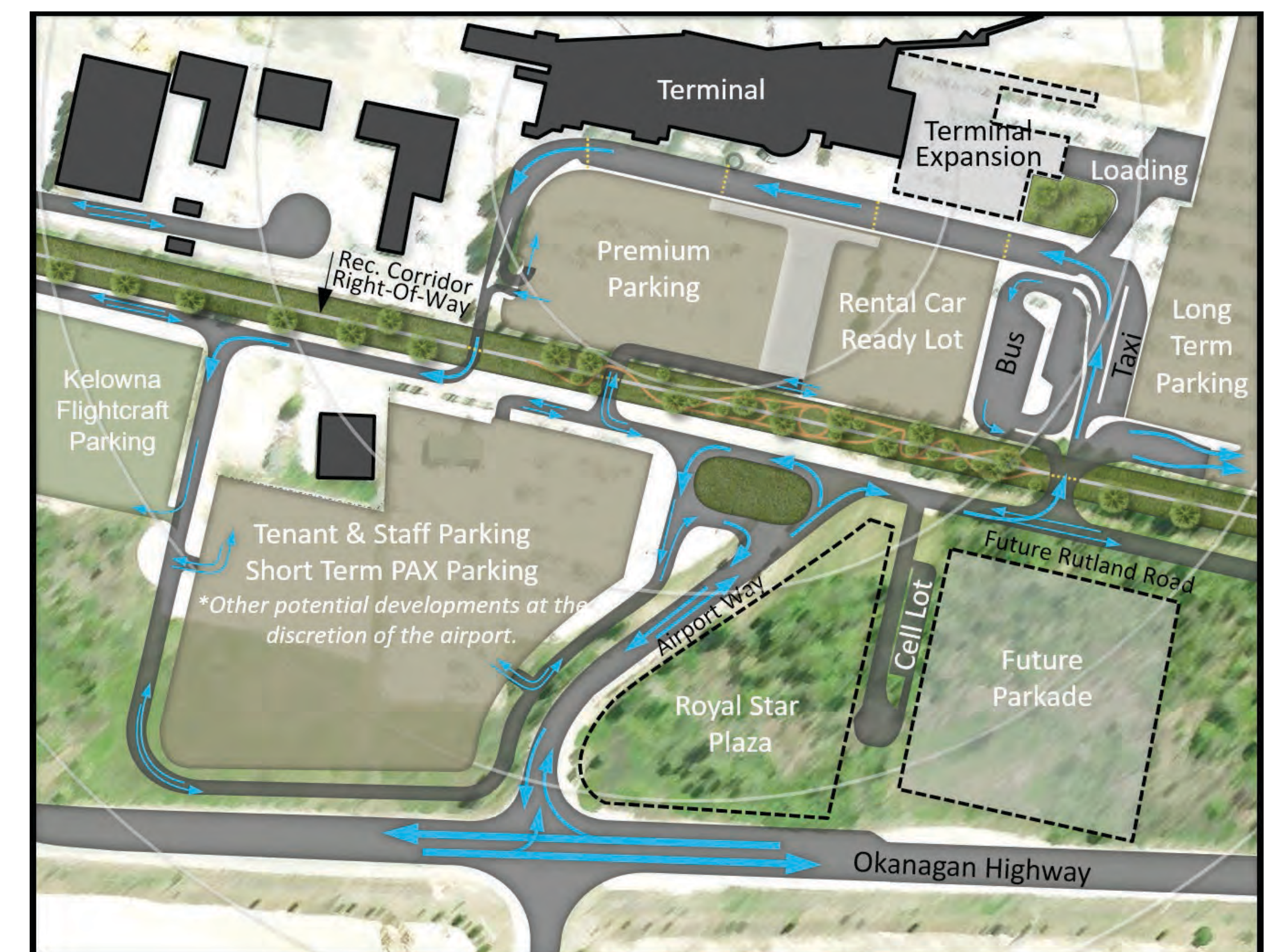
Current forecasts indicate parking facilities will not meet demand in 5 - 10 years

Recommended to increase parking stalls by 1,800 by 2045

A portion of the existing long-term lot is needed for future apron expansion -- option of relocating the lot to the south is under review

Industry trends such as share ride services will have impacts

Connectivity to/from YLW to be considered as part of overall transportation network



Source: Airbiz 2015

*Preliminary Groundside Development Proposal

PRELIMINARY MASTER PLAN 2045 FINDINGS

Preliminary Master Plan Findings

YLW's current development strategy remains valid



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



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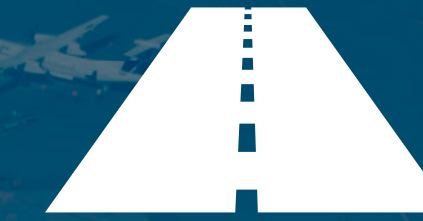


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More commercial land (on YLW land) is required



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

Next Phase: Final Master Plan Development

The project team is continuing their research, analysis and recommendations through 2016 that will inform the final Master Plan 2045 development.

Have Your Say!

Your feedback into the Master Plan 2045 process is important! Please review all the material and complete the printed survey or visit us online at <https://www.surveymonkey.com/r/MASTERPLAN2045YLW-1>

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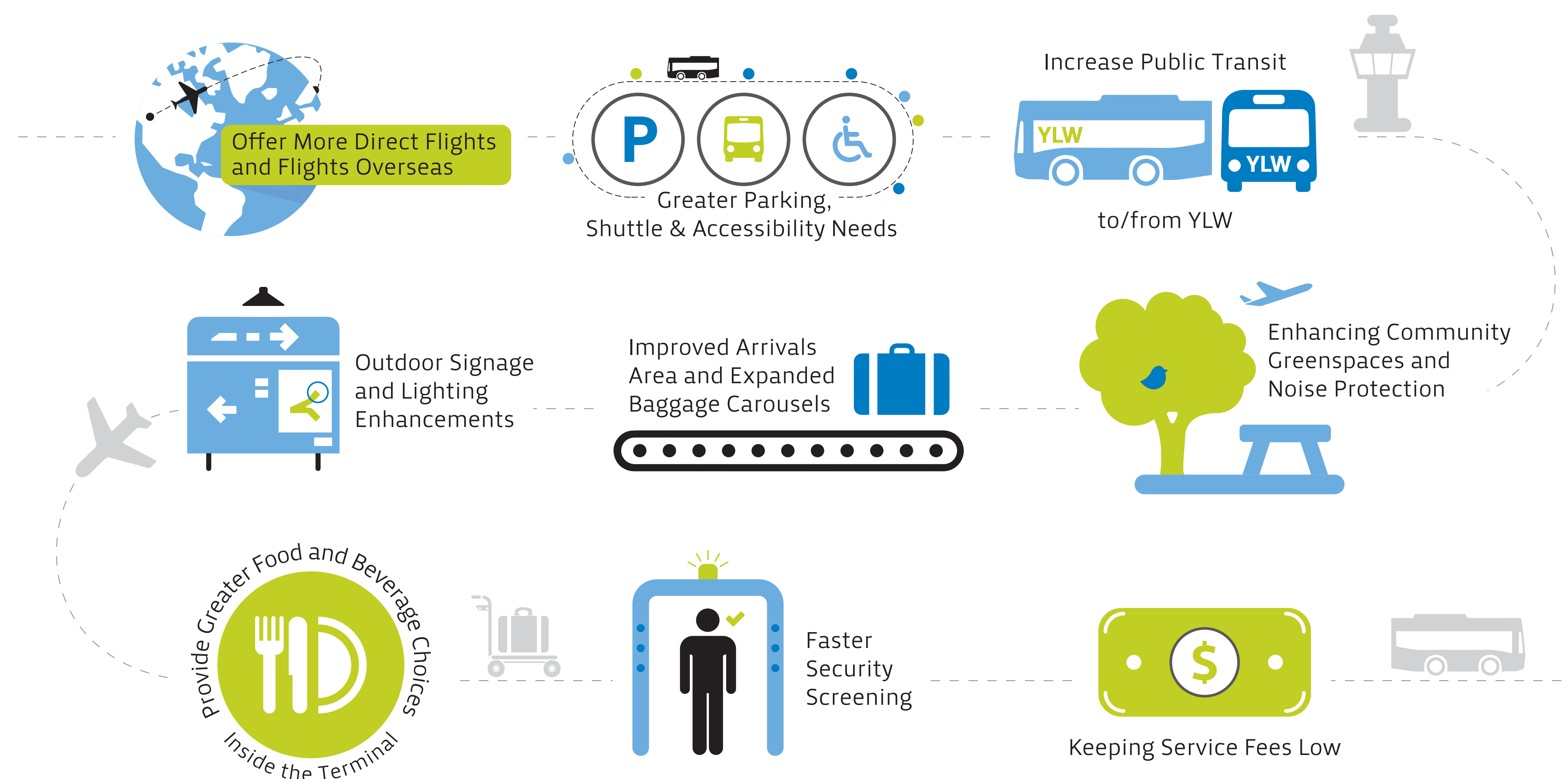
**Thank you
for your
participation!**

OUR MASTER PLAN 2045 PROGRESS TO DATE!

- > Over 20 Meetings and Presentations Completed
- > Over 220 Feedback Forms Received
- > YLW Spring 2016 Open House Completed
- > Council Workshop Completed
- > Online and Social Media Updates Completed
- > Updated Airside Development Program
- > Updated Air Terminal Building Development Plan
- > Landside Roads and Parking Plan
- > Provided Preliminary Airport Access Options
- > Provided Commercial Land Development Concepts

The Most Important Priorities You've Told Us So Far Are...

Our technical analysis together with public and stakeholder feedback have been considered in the Detailed 2045 Master Plan to date.



WE'RE GROWING AND MAKING IMPROVEMENTS!



The Master Plan guides our long-term future planning that allows us to plan and implement our annual Capital improvements at YLW.

These are our current Capital improvements underway based on our 2025 Master Plan.

YLW is considering your feedback into its long-term Master Plan 2045 and we appreciate your input.

Master Plan 2045: What's Next

- > Continued Community Outreach at Orchard Park Mall in August 2016 and Social Media Outreach
- > Continued Stakeholder Meetings and Workshops Summer/Fall
- > Second Council Workshop Fall
- > Continued Technical Analysis and Stakeholder Feedback Consideration into Final 2045 Master Plan Summer/Fall
- > Final 2045 Master Plan Council Presentation November 2016

Master Plan 2045 Survey

Have Your Say!



Appendix 11.1.8 Open House Condensed Mall Display Print Survey August 2016

As Kelowna International Airport (YLW) plans for the future, your comments are important to include as part of the final Master Plan 2045.

Thank you for visiting us at Orchard Park Mall! Additional background information is available on the display boards and online at ylw.kelowna.ca.

1) What do you think can be improved with YLW's long-term planning?

2) What long-term planning do you think YLW is doing well?

3) What is your most important priority for YLW's future growth?

4) Do you have any concerns about YLW's development and growth?

Yes No

5) How would you rate your overall experience inside the YLW Terminal Building?

Excellent Good Satisfied Not Satisfied Needs Improvement

(continued on next page)



Kelowna International Airport

Master Plan 2045

Presentation to City Council

September 19, 2016



SNC • LAVALIN

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

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



Stakeholder and Public Consultation Outreach Summary

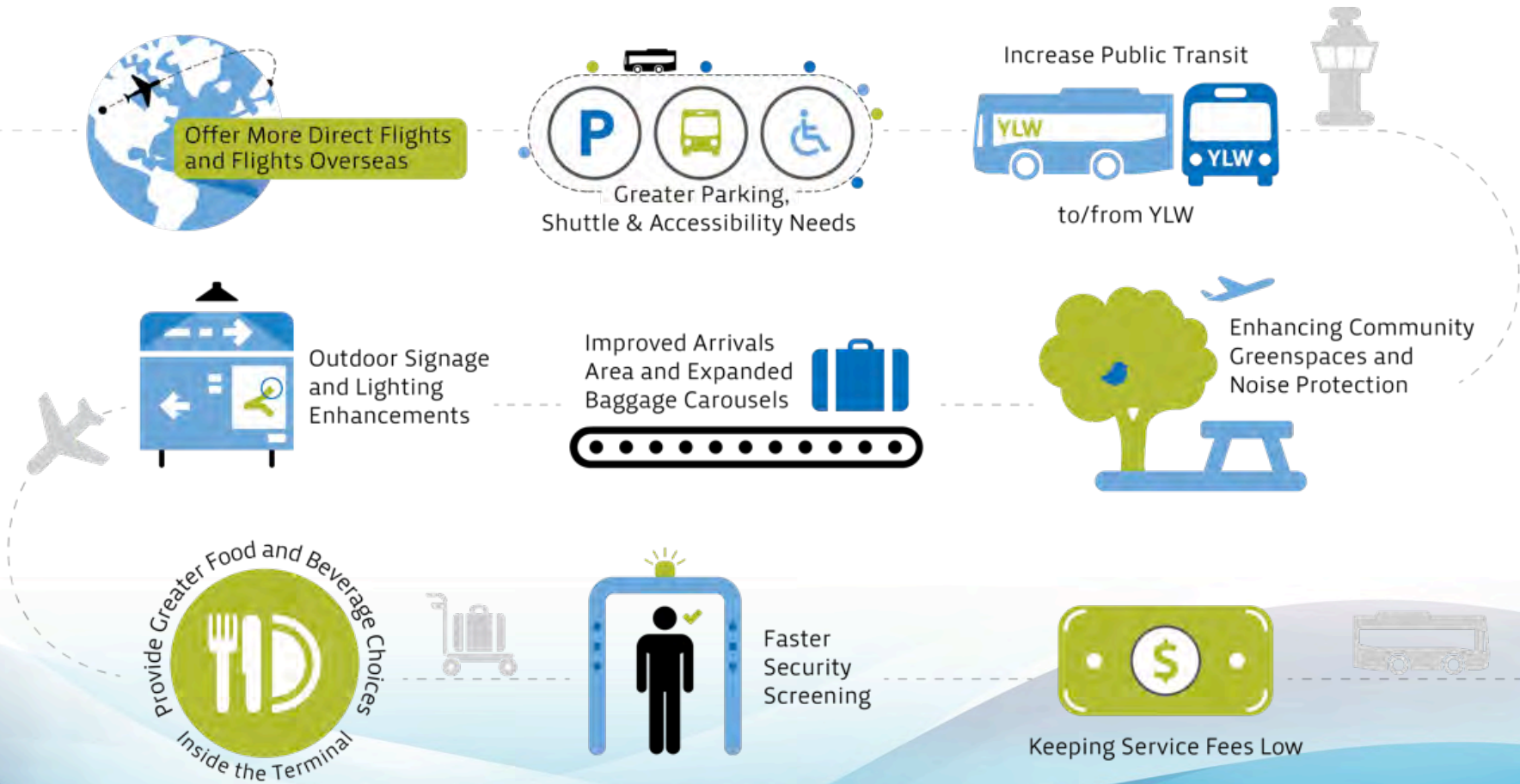
- Stakeholder meetings included the City and our Committees, Business and Government Partners, Chambers of Commerce, Regional Districts, Neighbouring Municipalities, and Aboriginal and First Nations Partners
- Two public open houses were also held in 2016 (Feb 27 and Aug 20)
- Print, online and social 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%)

Over
25 Workshops and Presentations
Completed



Over
300 
Feedback Forms Received

Stakeholder and Public Consultation Feedback Priorities



Key Findings

Master Plan Findings

YWL's current development strategy remains valid



YWL generates significant direct economic impacts over **1,400 jobs** and a GDP 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 YWL land) is required



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

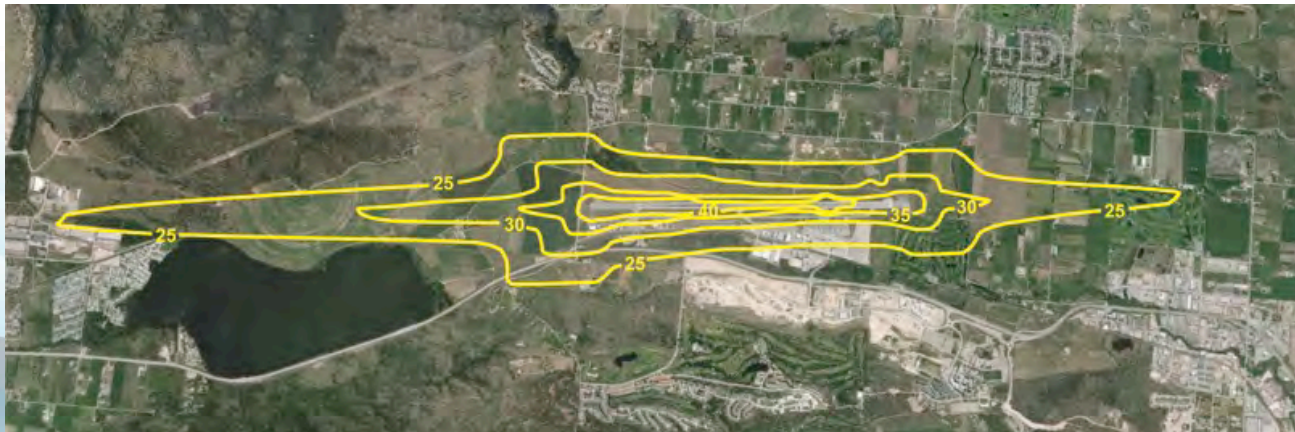
Highlights of YLW Master Plan 2045

Noise Exposure

2025 Noise Exposure Forecast



2045 Noise Exposure Forecast



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

Highlights of YLW Master Plan 2045

Environment

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

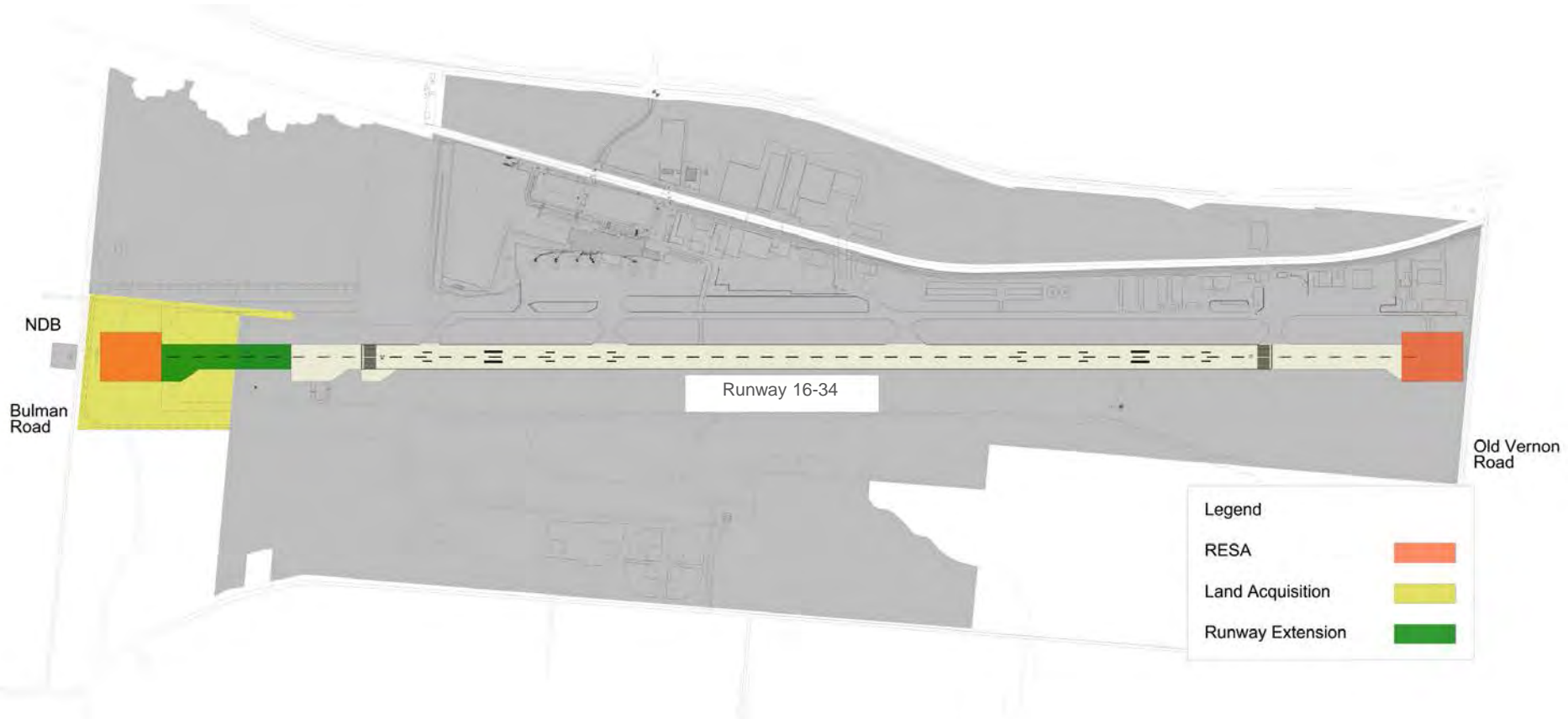
- Protect for Non Precision Runway for larger aircraft such as the B767 A330; and newer B787, A350
- Short-term: Implement Runway End Safety Areas (RESA)
- Longer-term: Extended Runway within airport boundaries
- up to maximum 10,000 ft length



Highlights of YLW Master Plan 2045

Runway Length

Recommended Layout



Highlights of YLW Master Plan 2045

Apron and Aircraft Parking

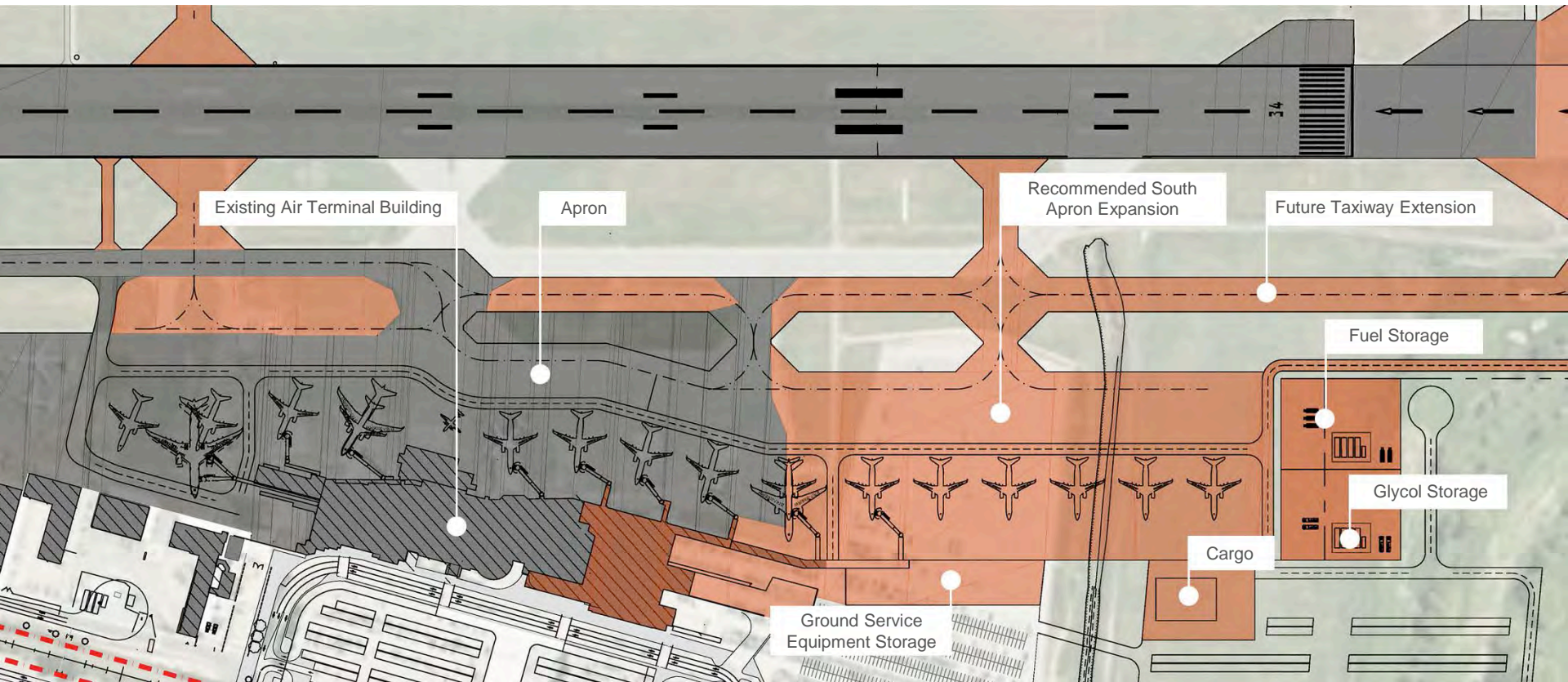
Recommendation:

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

Highlights of YLW Master Plan 2045

Apron and Aircraft Parking

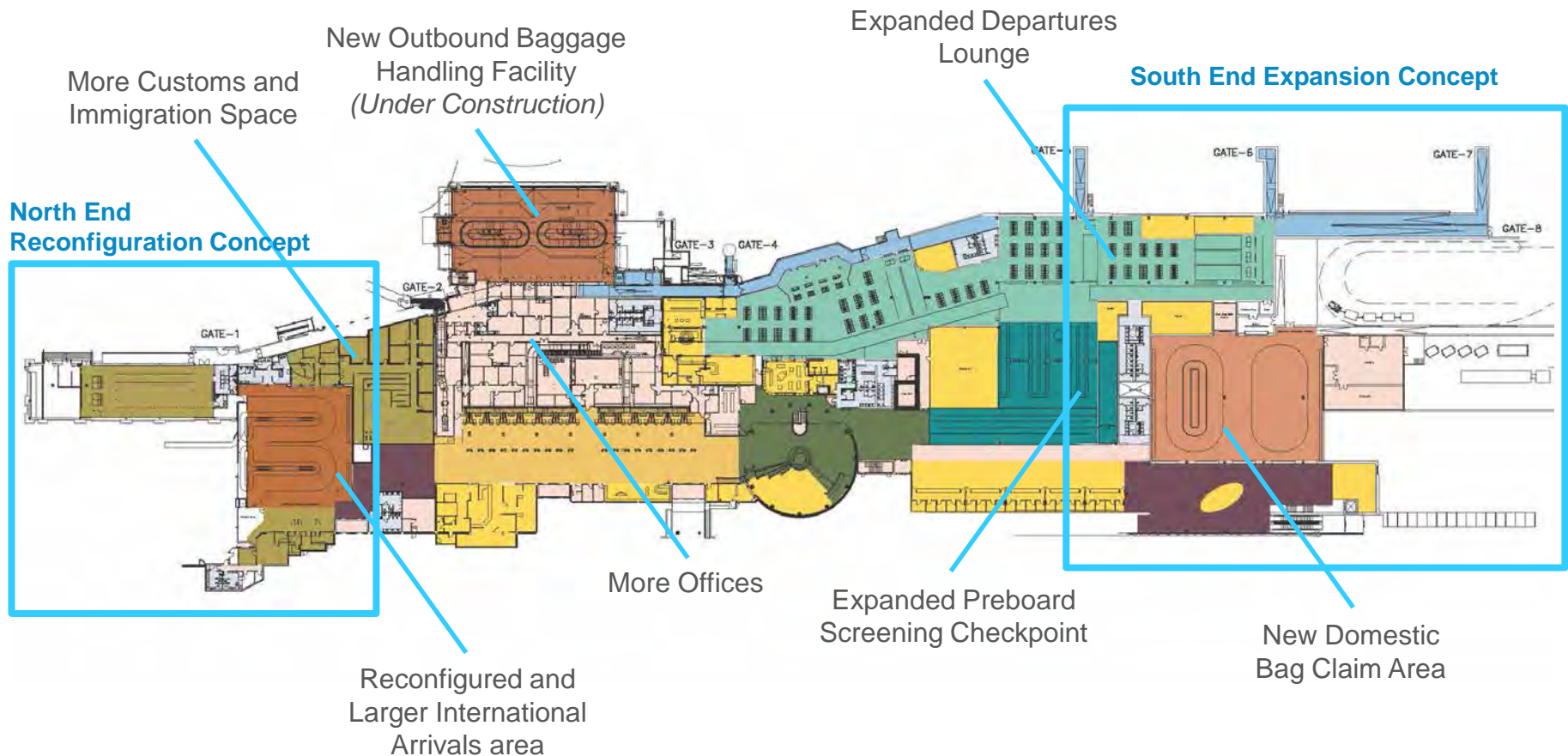
Recommended Layout



Highlights of YLW Master Plan 2045

Air Terminal Building

Recommended Layout



Source: Dialog and SNC-Lavalin

* Details of future layouts are at the discretion of the airport

Highlights of YLW Master Plan 2045

Air Terminal Building

Terminal Demand-Capacity

	Note	Existing, Incl. New Bag Make Up /HBS (m2)	Updated ATB Functional Program Requirements (m ²)					
			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								

Highlights of YLW Master Plan 2045

Car Parking and Roads

Recommendation:

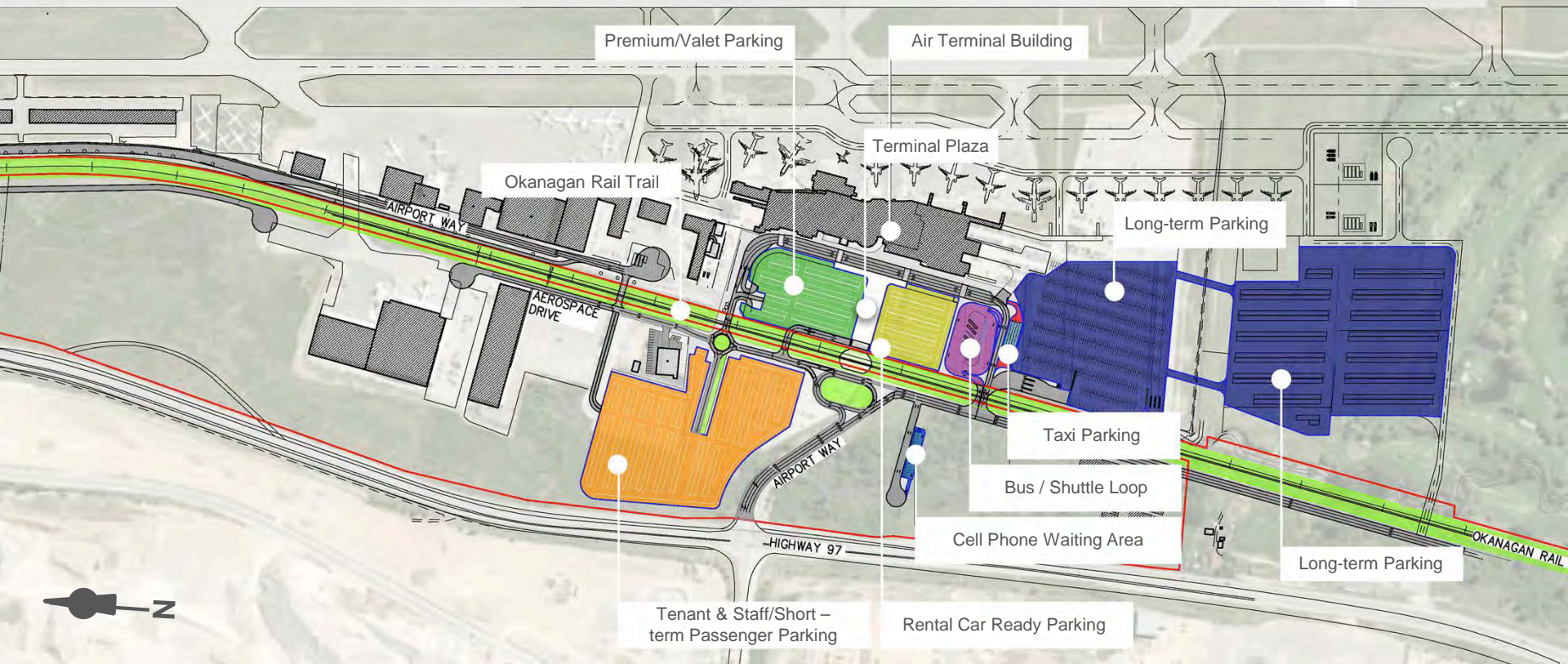
- Reconfigure road network accessing the terminal, segregate terminal traffic
- Progressive upgrade to Highway 97 / Airport Way intersection
- Develop dedicated bus/shuttle loop
- Expand short and long-term parking lots, and car rental lot
- Create terminal plaza

Master Plan analysis has identified that a parkade is not required

Highlights of YLW Master Plan 2045

Car Parking and Roads

Recommended Layout

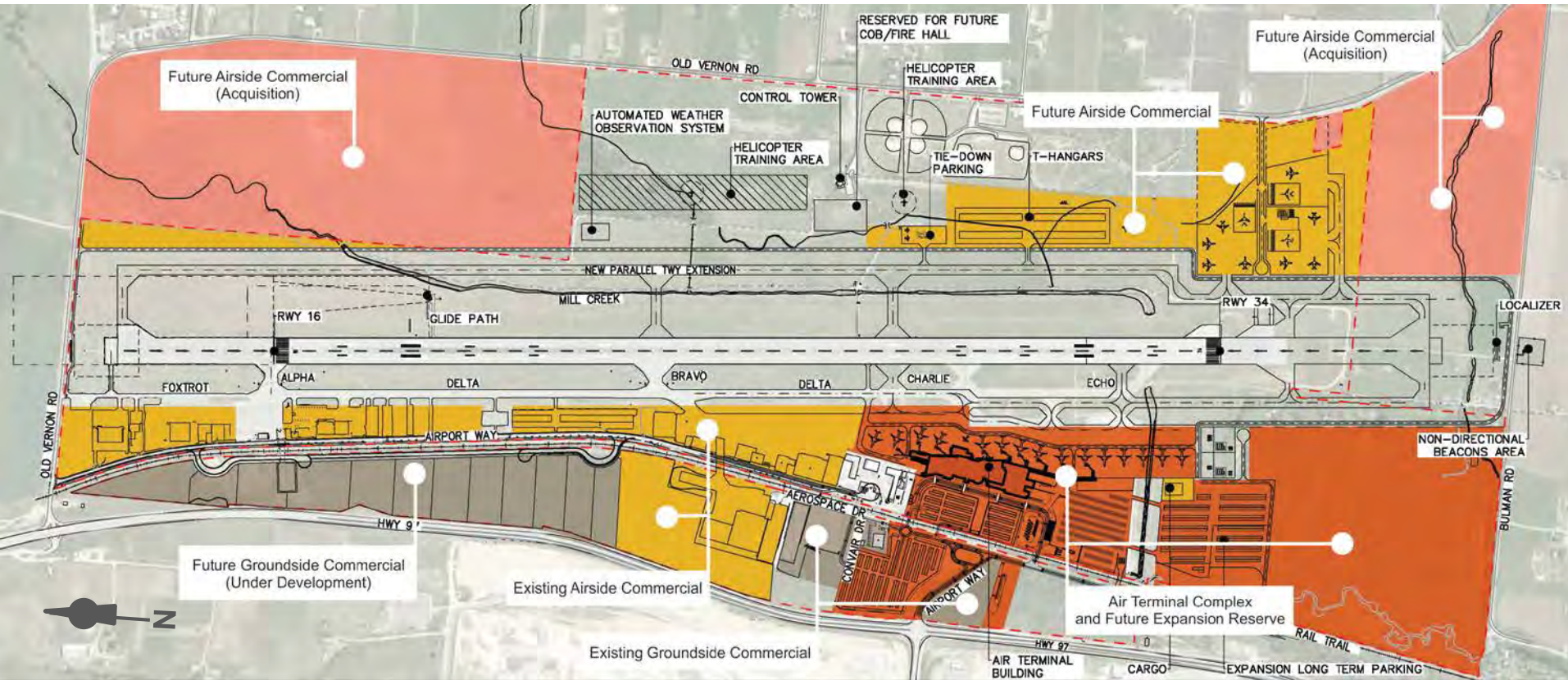


Source: Airbiz, 2015

Highlights of YLW Master Plan 2045

Commercial Land Development

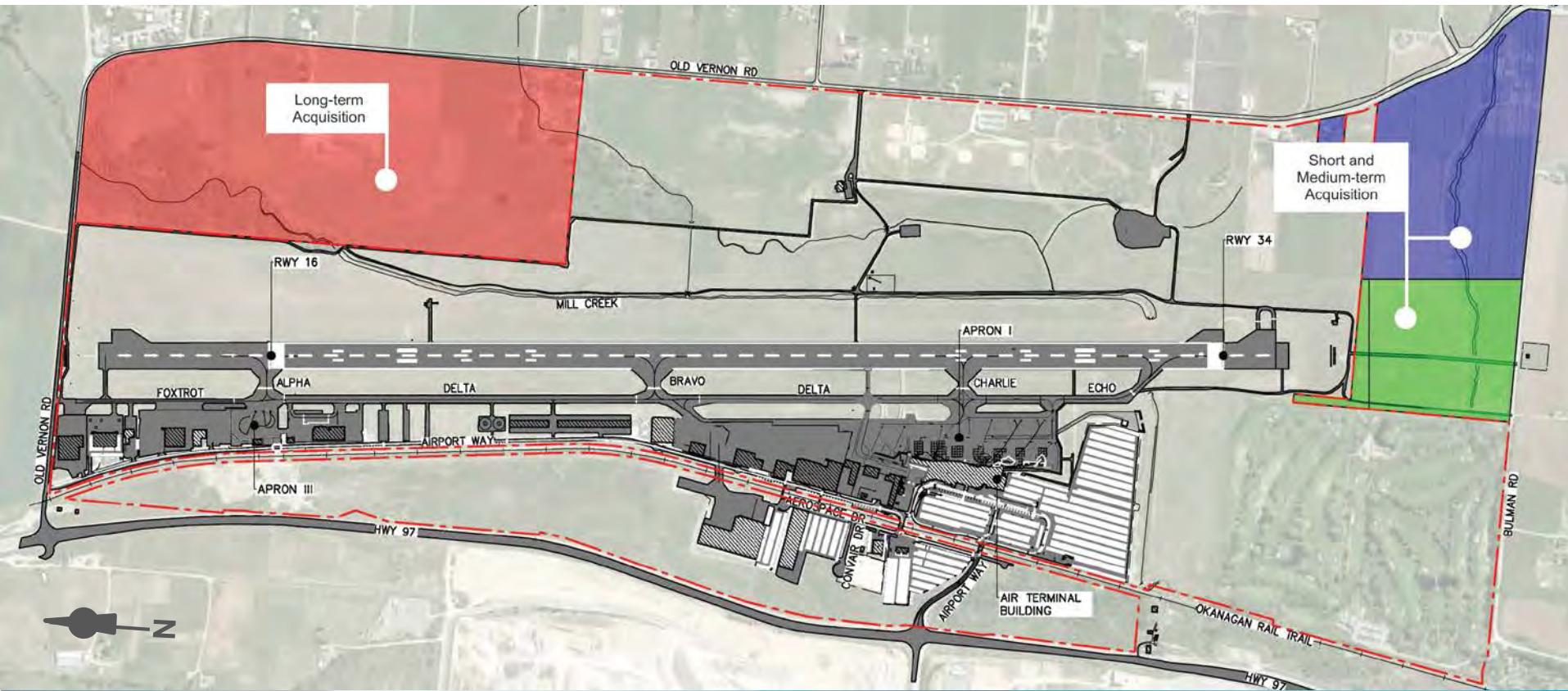
Recommended Layout



Highlights of YLW Master Plan 2045

Land Acquisition

Recommended Acquisition



Next Steps

- 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

