

# SUSTAINABLE AIRPORT MASTER PLAN (SAMP)

Presentation to  
Washington State  
Transportation  
Commission  
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# Seattle-Tac Airport Today

Fastest Growing Large Hub Airport in the U.S.

37.5 million passengers in 2014, up 7.7%

40,000 Flight Operations

27,000 Metric Tons Cargo, up 9%

\$2.2 billion in retail and service sales

170,000 Jobs related to airport activity



Future Growth:

NorthStar, Alaska Hub

International Arrivals Facility

Sustainable Airport Master Plan



# Environmental Stewardship



## *emission and Energy Reduction Programs*

**Line Partners:** Port provided infrastructure for pre-conditioned and electric ground service equipment

**et vehicles:** renewable natural gas buses, alternative fuel vehicles required for taxi fleet

**ilities:** LED lighting replacement and electric vehicle charging stations in parking garage, and central mechanical plant upgrades

**st Airport in North America to Receive Airports “Carbon Accreditation Certification”**

**2014 Best Workplace Recycling Award – Honor Roll *King County Solid Waste Division***

**xcellence in Airport Marketing and Communication Award *Airports Council***

***International – North America***

# Growth in International Travel

## Dynamic Growth in International Long Haul Services, 2007-2015



# Constrained Activity Forecast



## Challenges and operations

### Explosive growth in recent years

Passengers: up 4.7% in 2013 & 7.7% in 2014. Y-T-D 2015 up 13.1% from 2014.

Aircraft operations: up 2.5% in 2013 & 6.9% in 2014

### Region's economy will drive an increase of 28.5 million annual passengers (2015-2035) and 190,000 aircraft operations in next 20 years

46 million annual passengers (up from 37.5 million in 2014)

540,000 annual operations (up from 350,000 in 2014)

### MP will assess if, and plan how, Sea-Tac can meet this demand

2013 Airport PAX rank	Airport name	Airport code	2013 PAX	Developed Acreage	PAX/acre
1	Seattle-Tacoma	SEA	34,800,000	1,500	23,200
2	San Francisco	SFO	44,900,000	2,000	22,450
3	Newark	EWR	35,000,000	1,700	20,590
4	Boston	BOS	30,200,000	1,600	18,880
5	Las Vegas	LAS	40,000,000	2,400	17,000

# Constrained Forecast Implications

*How Best to Provide Needed Capacity and Phased Expansion*

## Field

Accommodate 33% More Peak Hour Operations without Runway Expansion

Increase Airfield Efficiency

## Terminal

Provide 35 Additional Aircraft Gates

Expand Terminal with Minimal Disruption to Existing Facilities, Operations

Potential Second Terminal

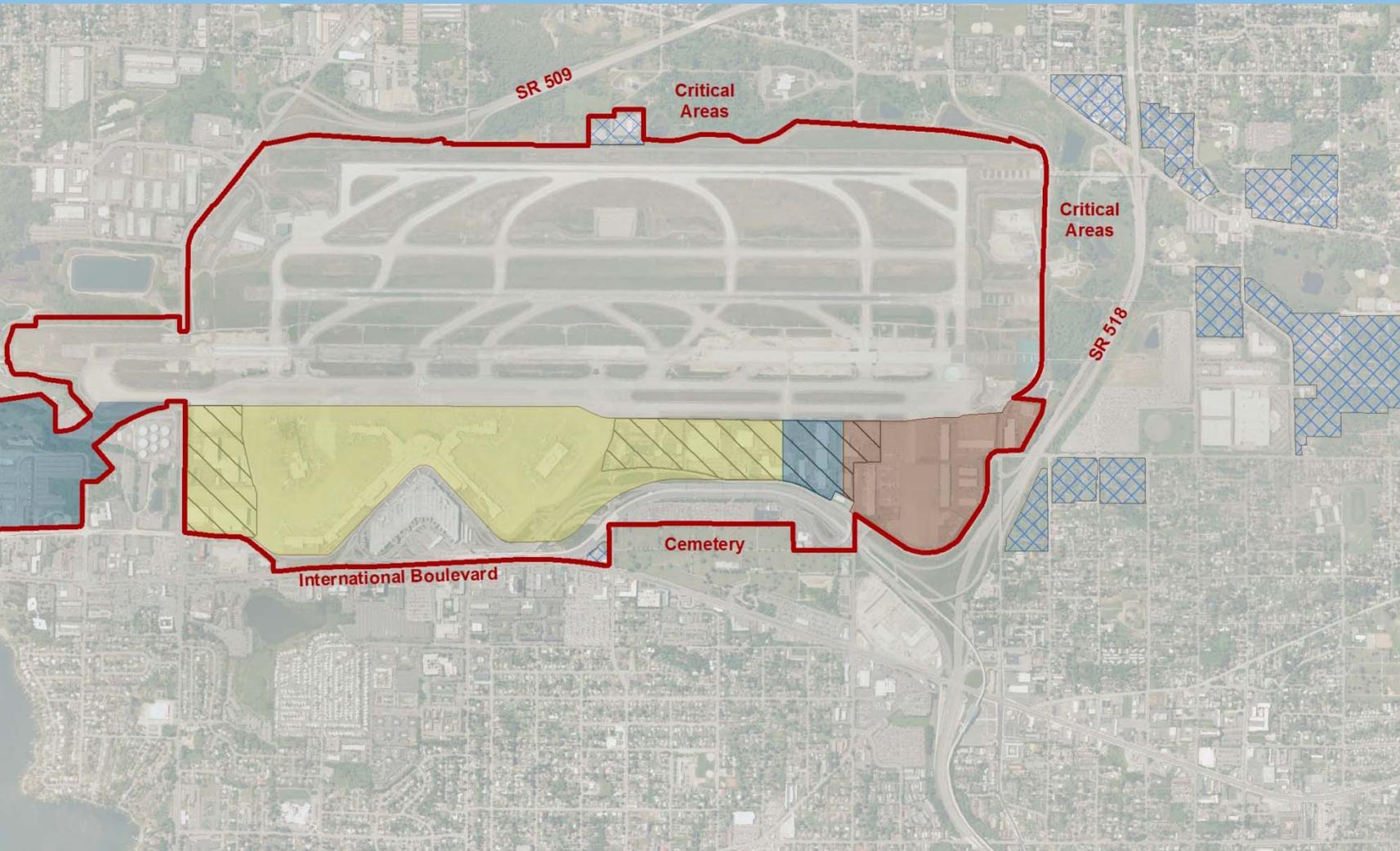
## Outside

Upper/Lower Drives Expansion Difficult and Expensive

Traffic Funnel through a Bottleneck on the North Airport Expressway

# Development Constraints

*Environmental, airspace, and land use constraints severely limit expansion options*



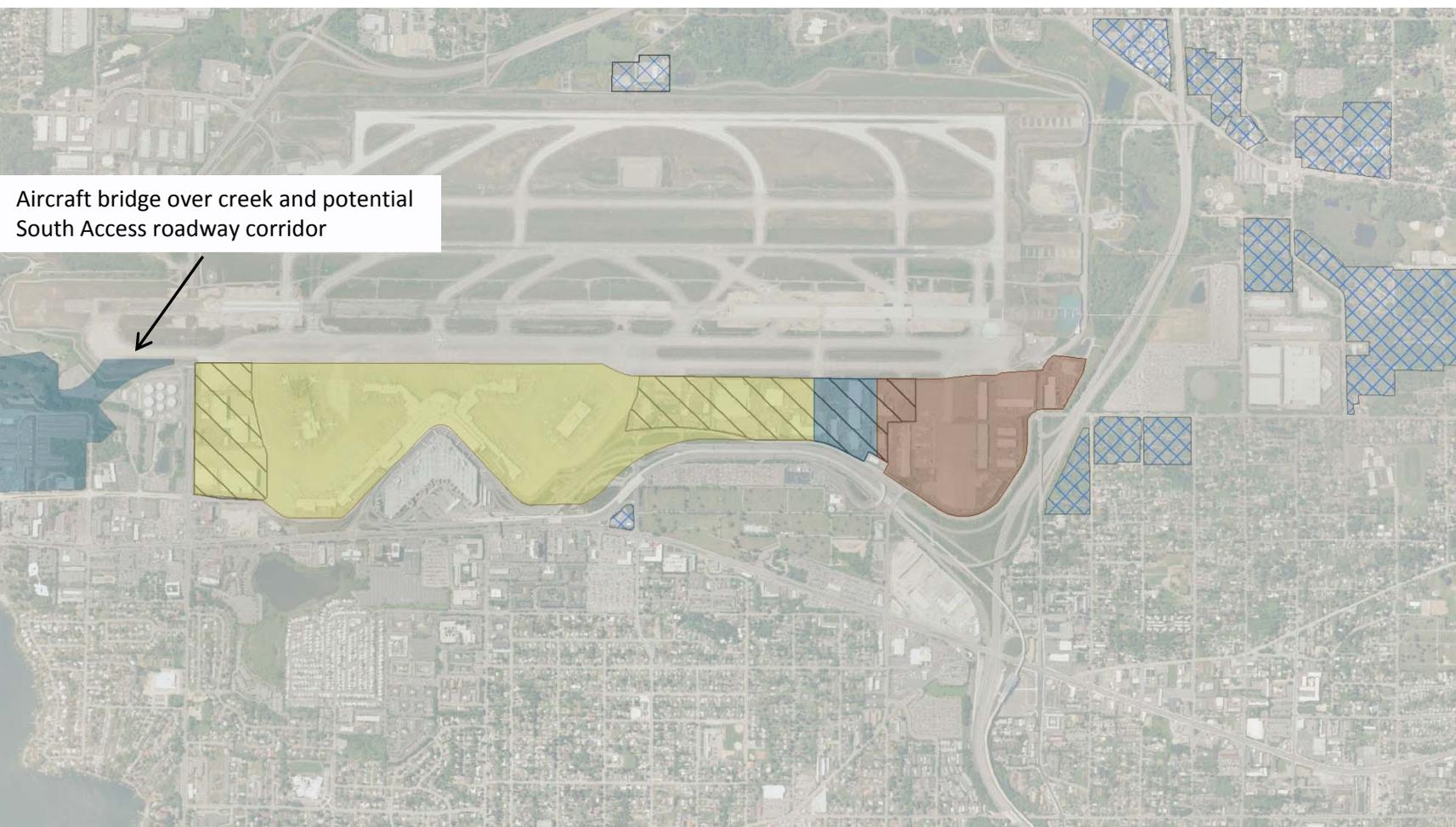
- Terminal
- Cargo
- Displaced Facilities
- Off-airport Development Areas
- Areas to Accomodate Displaced Facilities

Future Airport Land Uses  
DRAFT - Preliminary Concepts  
Development Constraints

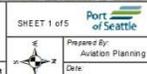


# Development Constraints

*Additional airfield connected land required to meet demand*



Aircraft bridge over creek and potential South Access roadway corridor

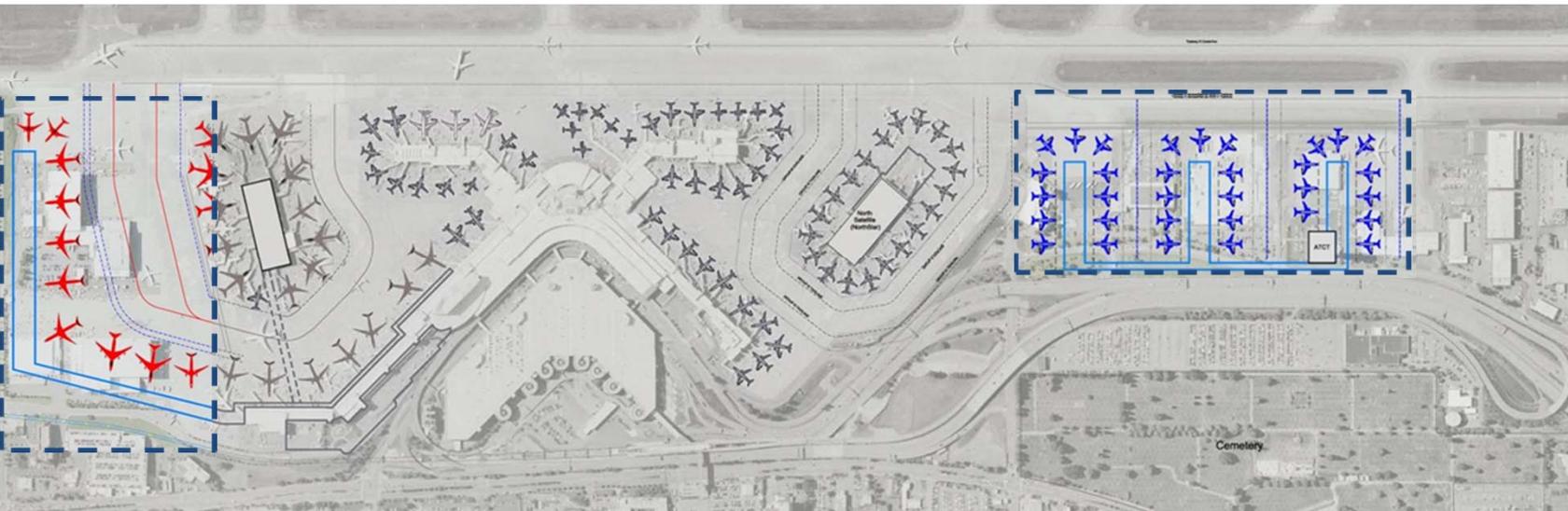


# Development Constraints

## Developing a Preliminary Concept for Gate Expansion

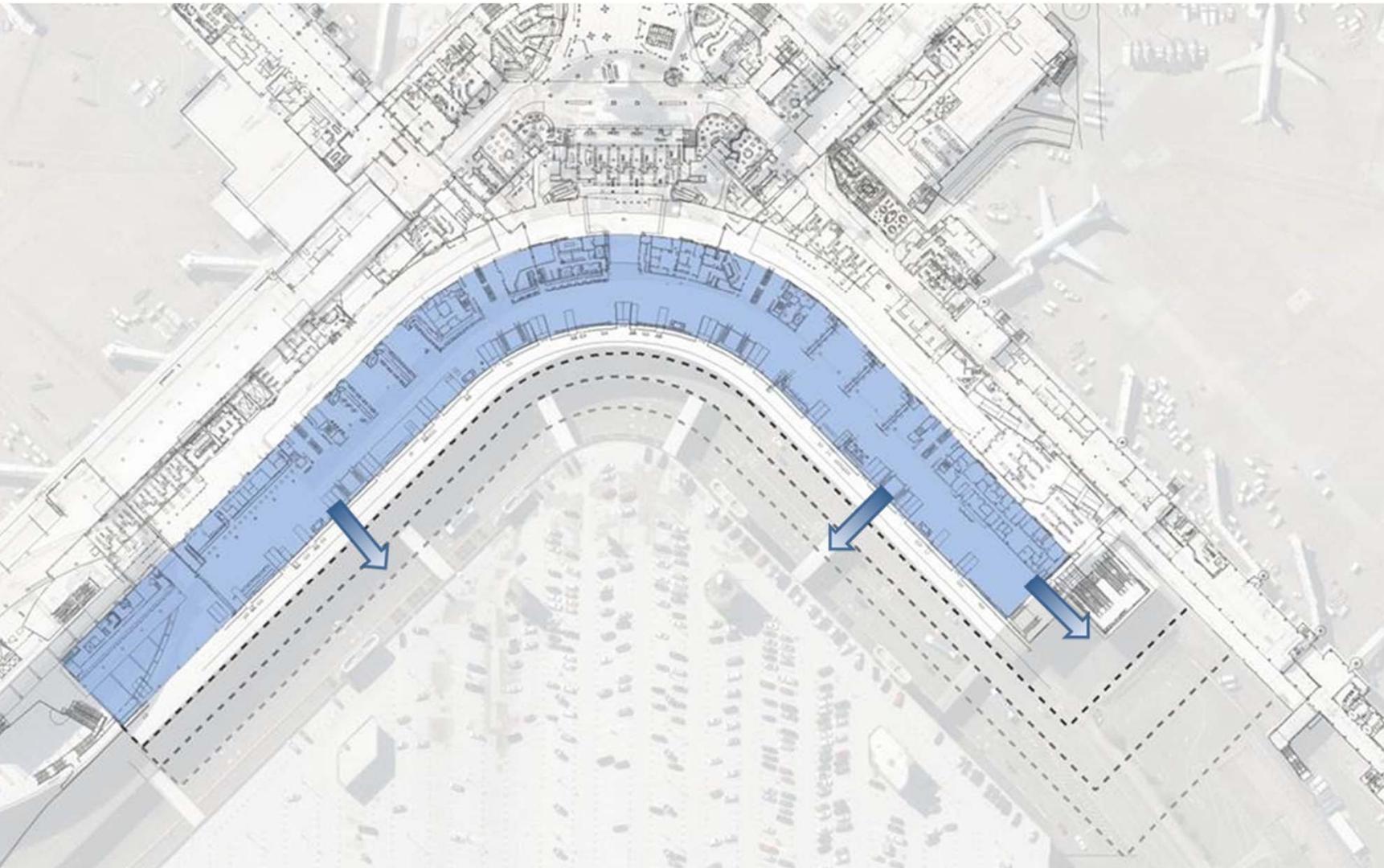
### Concourse A Expansion

### North Concourse



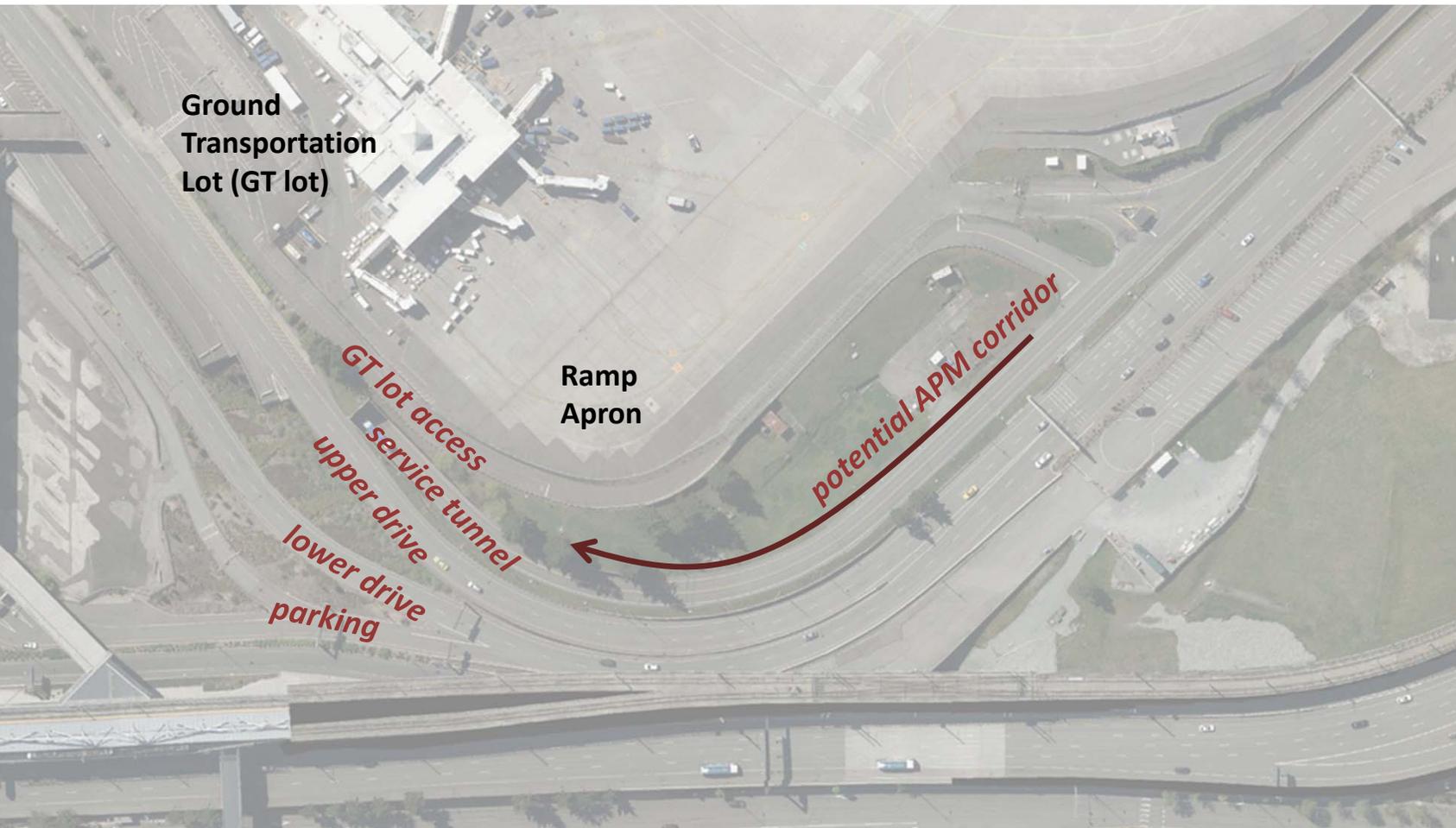
# Development Constraints

*Best to Expand the Main Terminal*



# Development Constraints

## Addressing 'Chokepoint' for Vehicle Traffic



# Planning Schedule

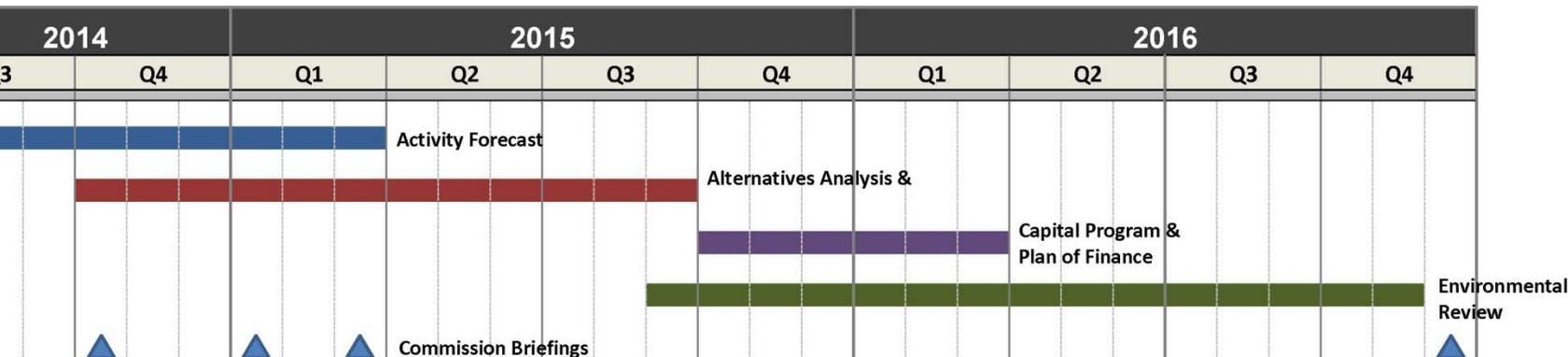
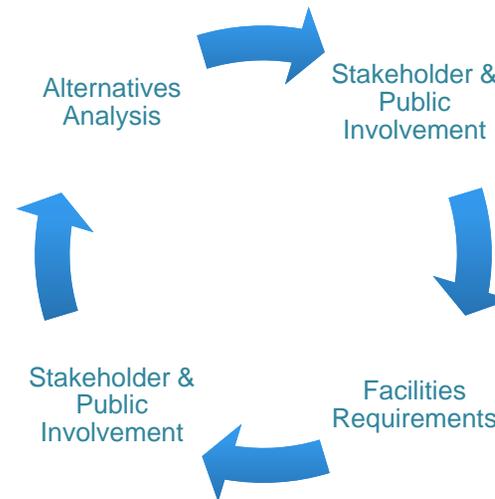
**Activity forecast** (completed Q3 2014 – in FAA review )

**Alternatives analysis & plan development** (Q4 2014 – Q3 2015)

- Iterative process, finalizing facility requirements and developing preferred development alternative
- Commission engagement at key decision points
- Constructability assessment
- Phased implementation plan
- Planning level cost estimates

**Program plan of finance** (Q1 2016)

**Environmental review** (Q3 2015 – Q4 2016)



# Public Outreach

## Regional and Local Government Outreach

### Community Open houses to engage local and regional audience

- 1st Series: SAMP process, goals, forecast, and development concepts
  - ✓ March 4, Mount Rainier High School , 5 – 7 p.m.
  - ✓ March 19, Seattle Central Library , 5 – 7 p.m.
  - ✓ April 2, Bellevue Public Library, 5 - 7 p.m.
- 2nd Series (Summer 2015): Preliminary Alternatives
- 3rd Series (Fall 2015): Preferred Development Alternative

### Transportation Review Committee

- Engage local & regional planners on transportation issues in SAMP and broader regional planning

### Regional and Local Government Briefings

# Questions?

For more information, visit the airport's SAMP page and sign up to receive updates:

[www.portseattle.org](http://www.portseattle.org)

[://bit.ly/airport-inter-plan](http://bit.ly/airport-inter-plan)

