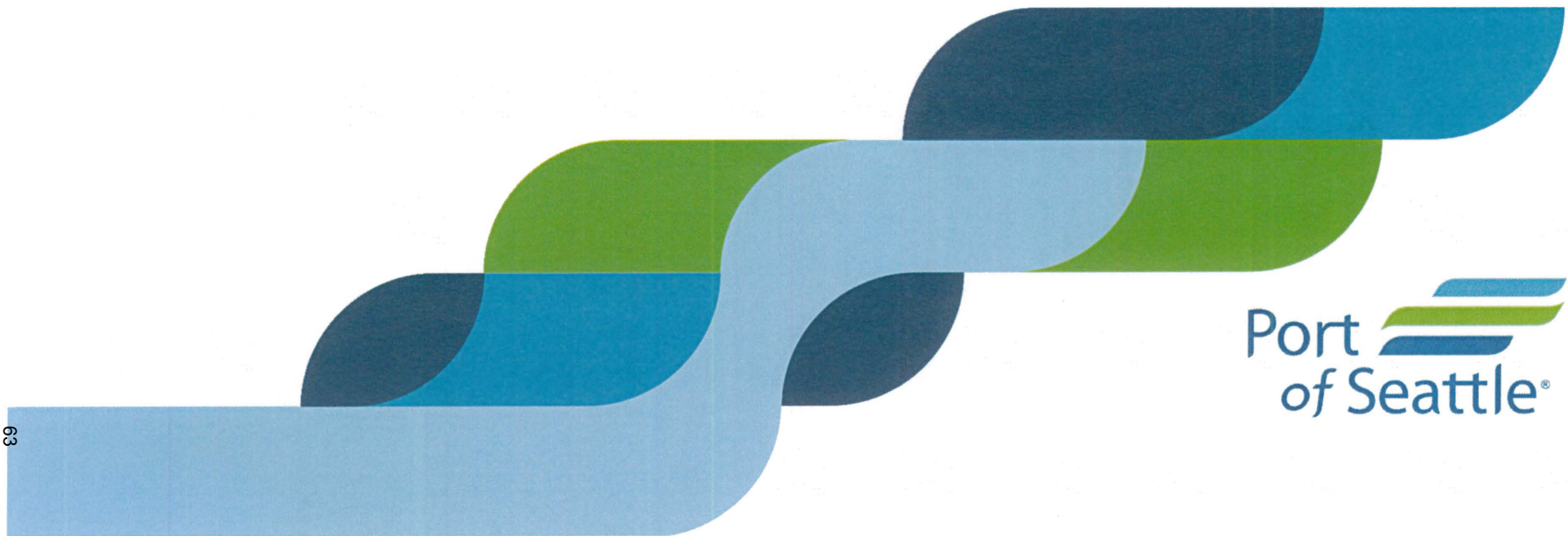


SUSTAINABLE AIRPORT MASTER PLAN (SAMP)

City of Des Moines Council Briefing

May 21, 2015



Briefing Outline

- Overview
- Economic Impact
- Sustainability
- Activity Forecast
- Forecast Implications
- Development Constraints
- Challenges
- Planning Schedule
- Public Outreach



- Rapid growth and a constrained operational footprint requires strategic land use planning and future Commission policy decisions to provide needed capacity
- Gaining clarity regarding implications of projected growth in passengers and operations – and the necessary facility changes
- Developing and evaluating options to meet facility requirements
- Will need to utilize Port-owned properties beyond those now a part of the airfield and terminal complex.
- The optimal airport layout – maintaining airfield capacity and adding terminal capacity – will require relocation of existing facilities
- Understanding these tradeoffs and the repercussions of balancing needs will be a next step



Airport Economic Engine

- **Sea-Tac serves as critical regional and national asset**
 - More than 170,000 jobs attributable to airport activity
 - \$6.1 billion in total personal income
 - \$16.3 billion in business revenue
- **Growth in air service supports regional economic activity**
 - Each new international flight generates an estimated \$75 million annually in direct and indirect economic impact to the region
 - Keeping freight moving supports local and regional businesses
- **Connects region to the global economy**
- **Creates new jobs in local communities**
 - Aeronautical jobs – airlines, airline contractors, flight kitchens, aircraft maintenance
 - Airport and visitor jobs – dining/retail, hotels, parking
 - Construction jobs



■ Draft Strategy for a Sustainable Sea-Tac (S3)

- Builds on our Environmental Strategy Plan 2009 – 2014
- Includes sustainability objectives, social responsibility and economic sustainability

■ S3 integration into SAMP

- S3 objectives and initiatives evaluated throughout the SAMP process to ensure that capital development is planned in the most sustainable manner possible
 - Environmental sustainability objectives used as part of screening criteria in evaluating concepts
 - Environmental sustainability objectives will be evaluated extensively in proposed new buildings and renovations of existing buildings
 - Final, long-term plan will include management initiatives (in addition to capital improvements) to ensure airport meet its sustainability goals and objectives in future years

Activity Forecast

Passengers and operations

■ Rapid growth in recent years

- Passengers: up 4.7% in 2013 & 7.5% in 2014
- Aircraft operations: up 2.5% in 2013 & 6.9% in 2014
- 13th largest airport in U.S. for passenger traffic in 2014

■ Even higher increases projected for 2015 *(based on year-to-date volumes)*

- Passengers: 10% over 2014
- Aircraft operations: 11% over 2014

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

- 66 million annual passengers (up from 37.5 million in 2014)
- 540,000 annual operations (up from 350,000 in 2014)

■ SAMP will assess if, and plan for how, Sea-Tac can meet this demand



■ Airfield

- 36% more aircraft on the airfield during peak hours
- Impact: Efficiency exponentially decreases as the airfield reaches and exceeds capacity

■ Terminal

- 58% more departing and 70% more arriving passengers in the terminal during peak hours
- Impact: Severe congestion and a low level of customer service at check-in, security screening and baggage claim

■ Landside

- 42% more vehicles on Upper Drive during morning peak and 61% more vehicles on Lower Drive during evening peak
- Impact: Passenger safety and access to the terminal will be severely compromised in 2034 without improvements



Development Constraints

Land Allocation

- Western operational boundary of airfield is 16R-34L (*no 4th runway*)
- Three runways are needed in 2034 (*cannot push terminal edge west*)
- No terminal facilities west of 16R/34L (*topography, wetlands*)
- Limited footprint requires prioritization of land uses and complex phasing plan



■ Airfield

- Accommodate 120 peak hour operations with no airfield expansion
- Increase airfield efficiency to make full use of three runway system

■ Terminal

- Provide 35 additional aircraft gates with direct terminal access
- Expand terminal in manner that will be operationally efficient and can be phased with least disruption to existing facilities
- Single, expanded terminal or second terminal?

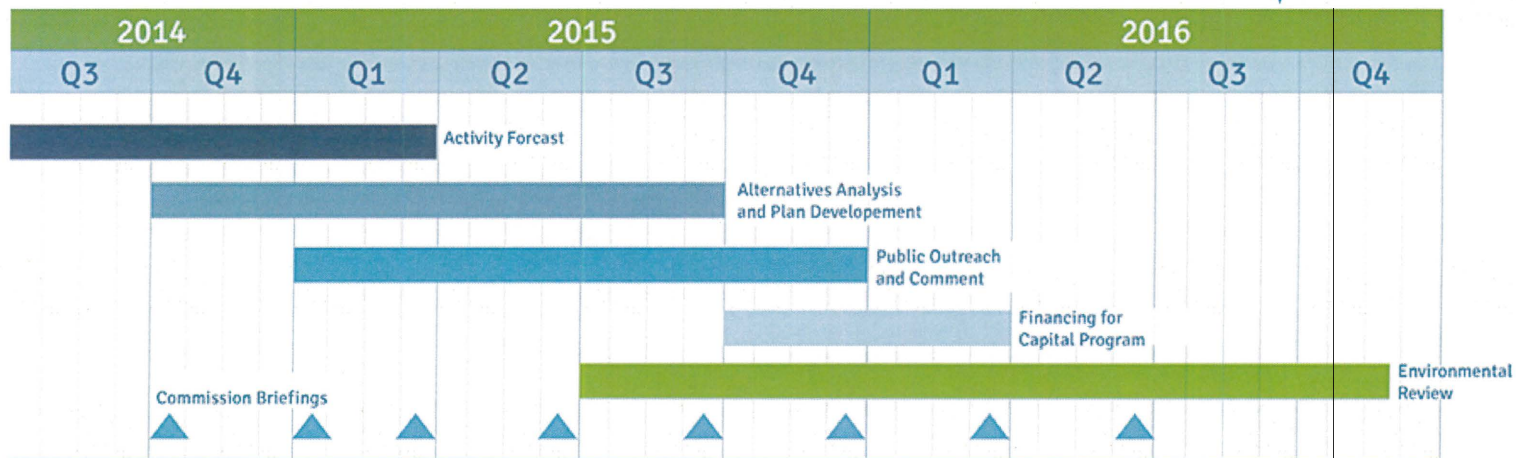
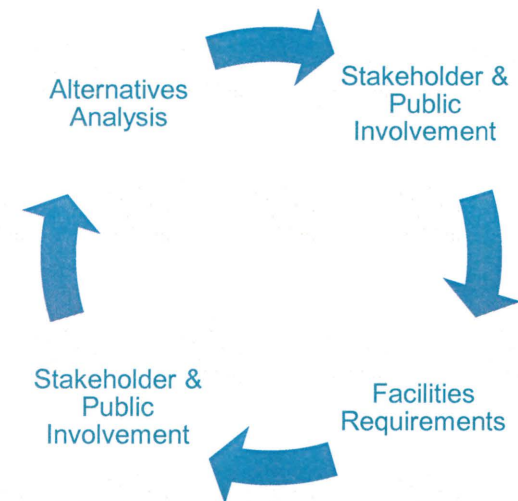
■ Landside

- Upper and Lower Drives expansion difficult and expensive
- All traffic accessing the airport funnels through a bottleneck on the North Airport Expressway



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** (Q4 2015 – Q1 2016)
- **Environmental review** (Q3 2015 – Q4 2016)



■ Open houses designed to engage a regional audience

- 1st Series of public meetings (Spring 2015): SAMP process, goals, forecast, and development concepts
 - ✓ March 4, Mount Rainier High School , 5 – 7 p.m. (65 attendees)
 - ✓ March 19, Seattle Central Library , 5 – 7 p.m. (27 attendees)
 - ✓ April 2, Bellevue Public Library, 5 - 7 p.m. (33 attendees)
- 2nd Series of public meetings (Summer 2015): Preliminary alternatives
- 3rd Series of public meetings (Fall 2015): Preferred development alternative



- **Additional public outreach**
 - City Council presentations
 - SWKC Chamber business roundtables
 - Highline Forum briefings
 - Regional, community and business organization presentations

- **Transportation Review Committee**
 - Engage local & regional planners on transportation challenges identified in SAMP
 - Engage local & regional planners on improvements to ease congestion
 - 1st meeting planned for June 3



- Summary of What was Heard at 1st Round of Open Houses
 - Open house and display boards were effective at engaging public
 - Curiosity about what's driving Sea-Tac's growth
 - Awareness about growing congestion on airport drives
 - Interest in easier circulation between gates, check-in areas and light rail
 - General concerns about aircraft noise
 - General concerns about aircraft emissions
 - General concerns about traffic impacts



Questions?

For more information, visit the Port's SAMP webpage:

<http://bit.ly/airport-master-plan>

SEA-TAC AIRPORT Sustainable Airport Master Plan

Sea-Tac’s Sustainable Airport Master Plan is a long-term blueprint for airport development to meet the needs of the traveling public, while reducing environmental and social impacts. The plan includes airfield development within the current three-runway configuration, terminal development, roadway improvements, and facility modernization and expansion possibilities.

Completion of the plan will make Sea-Tac the first large hub U.S. airport to fully incorporate sustainability as a key planning component.

Why is the Plan Needed?

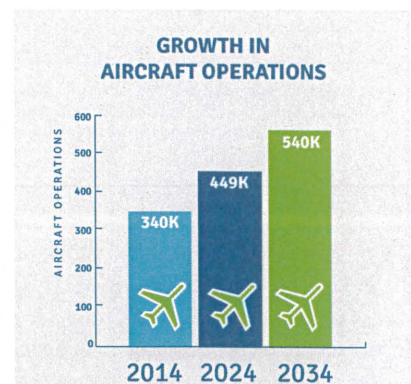
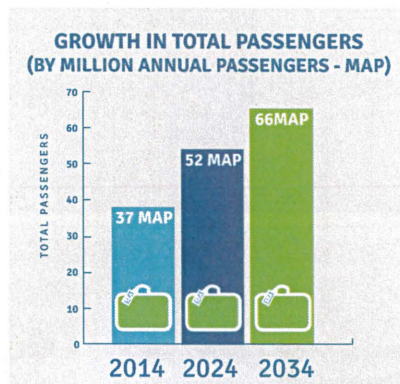
The plan is needed to accommodate continued strong passenger growth at the airport. In 2014, Sea-Tac served more than 37 million passengers. This figure could reach 52 million over the next decade and could be as high as 66 million in 2034.

In addition to forecasting future demand, the plan takes stock of current facilities, infrastructure, operations and passenger levels, looking at scenarios that are five, 10, and 20 years in the future. It includes air quality, energy and water conservation, recycling and other strategic environmental goals, and will align with the Port’s Century Agenda sustainability and energy efficiency goals.

Project Goals:

- Provide a quality experience for customers in the long-term
- Provide adequate facilities to continue to serve as one of our state’s primary economic engines
- Include a strong emphasis on environmental sustainability

AIRPORT TRAFFIC WILL GROW BY 14 MILLION ENPLANEMENTS (29 MILLION TOTAL PASSENGERS) IN THE NEXT 20 YEARS



Key Plan Elements

- Forecasts of future airport traffic, operations, and passenger growth
- Criteria and constraints to inform future improvements
- Proposed options for future improvements at Sea-Tac Airport:
 - Airfield
 - Terminal
 - Landside (vehicle access, regional roadway connections, and parking)
- Integration of environmental objectives, social responsibility, and economic sustainability strategies into the plan

Planning Timeline

	2014		2015				2016			
	Summer	Fall	Winter	Spring	Summer	Fall	Winter	Spring	Summer	Fall
Develop forecasts	█	█								
Alternatives analysis and plan development		█	█	█	█					
Develop financing for capital program						█	█			
Environmental review of plan				█	█	█	█	█	█	█
Final plan adoption										█
Public outreach and comment			█	█	█	█				

What work is under way?

- Finalizing growth forecasts
- Developing and analyzing options
- Gathering public input about options

How to get involved:

- Visit the project website for additional materials and to learn more about upcoming meetings
- Sign up to receive email updates to keep up-to-date throughout the SAMP process
 - Go to the Port of Seattle website
 - Click “Email updates”
 - Select the “Sustainable Airport Master Plan (SAMP)” box

Upcoming opportunities:

- Public meeting (summer 2015): Review and comment on preferred alternatives
- Public meeting (fall 2015): Review and comment on proposed plan alternative

Future outreach opportunities beyond 2015 will be scheduled in association with the environmental review for the SAMP.

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<http://bit.ly/airport-master-plan>