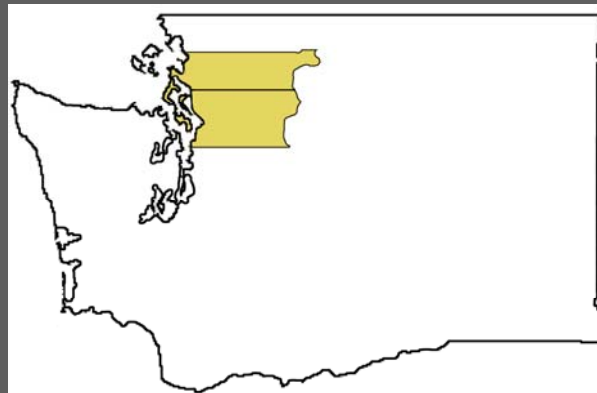


Higher Education Needs Assessment for Snohomish, Island and Skagit Counties

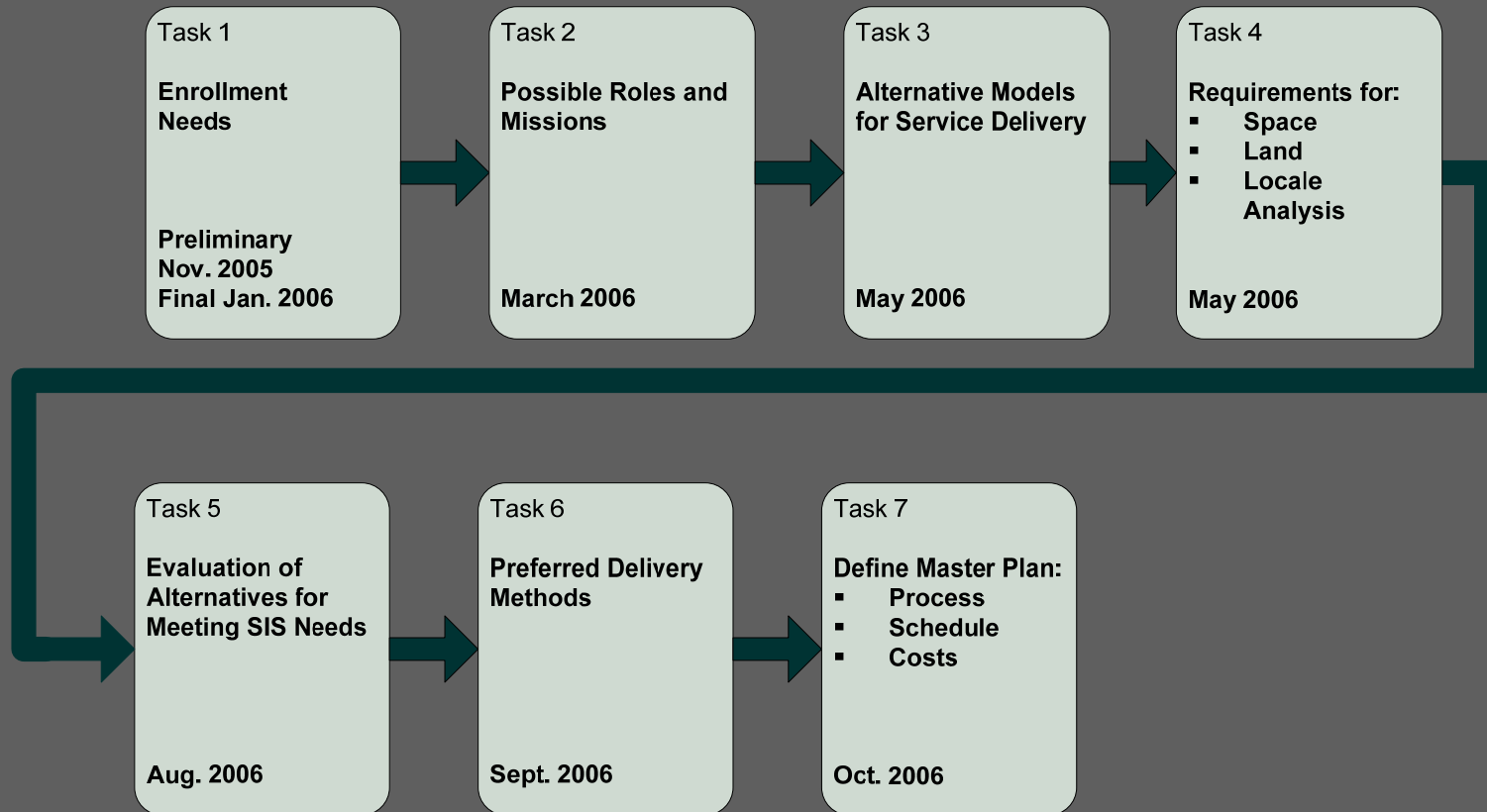
Higher Education Coordinating Board
September 2006



Topics

- Study Purpose and Process
- Study Findings
- SIS Area Need
- Alternatives
- Preliminary Cost Estimates
- Locale Analysis
- Implementation
- Recommendations

Study Process



Findings

- The higher education participation rates for Washington, as a whole, are below the national averages for participation at 4-year public institutions.
- The participation rates of Washington's community and technical colleges are one of the highest in the country and well above the national average.
- The higher education participation rates for the study area are below the current statewide averages for participation at 4-year institutions.

Findings

- Washington state ranks 45th among all states for bachelor's degree production.
- Washington state ranks 10th among all states for residents age 25 and older with a bachelor's degree or higher.
- The study area is diverse – a single solution improbable.
- The SIS population is projected to increase nearly 40% by the year 2025.
- The largest demand for higher education in the area is to meet the needs of the traditional age student.

Needs

- The program needs identified the demand for baccalaureate and graduate degrees in:
 - Business/Accounting/Finance
 - Computer Science/Network/Systems
 - Engineering/Engineering Technology
 - Nursing/Allied Health/Medical Professions
 - Hospitality
 - Project/Operations Management
 - Teachers – Special Education, Middle & High School

Needs

- Post-high school through community/technical college associate degrees in:
 - Engineering Technology
 - Nursing and Allied Health
 - Business
 - Construction Trades and Technologies
 - Public Safety

Needs

- The total higher education need in the study area by 2025 is 13,218 FTEs.
- Other institutions can meet 2,251 FTEs of the need.
- The net unmet need in the study area is 10,767 FTEs.
- This need reflects meeting the statewide participation rate by 2015 and the national average by 2025.

Needs

- A new four-year institution – the centerpiece for the region
- Continued growth of the community colleges in the region
- Expanded course offerings and programs through expanded learning delivery methods including:
 - Distance education
 - Centers
 - Technology e.g., Web based

Alternatives

- 8 Alternatives identified and evaluated
- LAC recommended 2 for cost analysis:
 - 4-year Polytechnic independent
 - 4-year Polytechnic affiliated
- HECB asked for others:
 - 4-year comprehensive
 - 4-year affiliated
 - Affiliated upper division only

Capital Costs

PRELIMINARY CAPITAL COST SUMMARY

	Unaffiliated	Poly-Tech Affiliated	Upper Divison	Unaffiliated	Comprehensive Affiliated	Upper Divison
Phase 1 4-Year Institution	\$ 101,281,419	\$ 86,608,416	\$ 75,052,616	\$ 101,281,419	\$ 86,608,416	\$ 75,052,616
Phase 1&2 Community College	\$ 107,653,455	\$ 126,375,508	\$ 145,099,508	\$ 107,653,455	\$ 126,375,508	\$ 145,099,508
Phase 2 4-Year Institution	<u>\$ 78,781,491</u>	<u>\$ 73,053,868</u>	<u>\$ 61,817,868</u>	<u>\$ 78,781,491</u>	<u>\$ 73,053,868</u>	<u>\$ 61,817,868</u>
Total Project Cost Phases 1&2	\$ 287,716,365	\$ 286,037,792	\$ 281,969,992	\$ 287,716,365	\$ 286,037,792	\$ 281,969,992

Operating Costs

PRELIMINARY OPERATING COST SUMMARY

	Unaffiliated	Poly-Tech Affiliated	Upper Divison	Unaffiliated	Comprehensive Affiliated	Upper Divison
4-Year Institution	\$ 53,392,500	\$ 47,092,500	\$ 42,052,500	\$ 53,392,500	\$ 47,092,500	\$ 42,052,500
Community College	\$ 70,556,400	\$ 75,956,400	\$ 79,736,400	\$ 70,556,400	\$ 75,956,400	\$ 79,736,400
Total Project Cost Phases 1&2	\$ 123,948,900	\$ 123,048,900	\$ 121,788,900	\$ 123,948,900	\$ 123,048,900	\$ 121,788,900

Locale Analysis

- Purpose: to identify the most appropriate general location – or locales – for a new stand-alone, four-year institution.
- Process:
 - Update the 1998 NSIS locale study
 - Identify general areas, or locales, within the SIS area where the proposed institution could be located
 - Identify criteria for the most important locational attributes for a new four-year institution and the weighting of that criteria;
 - Apply the criteria, evaluate the results and select general locations that best met the criteria.

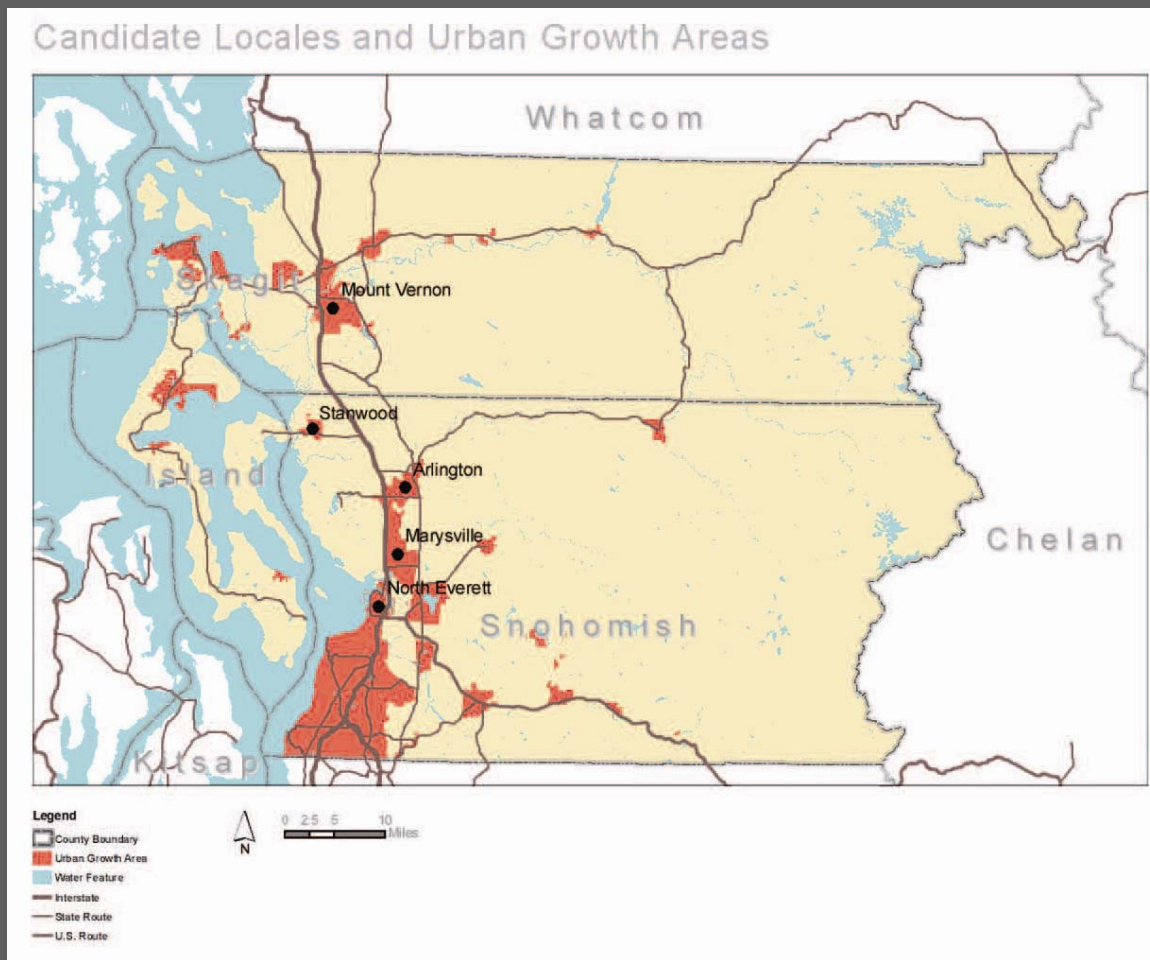
Criteria

1. Percentage of service area residents and employees at year 2025 who live or work within a 30-minute travel distance (one-way trip during peak hour) from the locale
2. Average travel miles per trip per person served within a 30-minute travel distance
3. Impact of Floodplain Hazards, Volcanic Hazards and Wetlands

Criteria

4. Availability and capacity of public utilities and services by year 2013 (year of initial occupancy)
5. Proximity to existing or proposed mass transit services by year 2013 (year of initial occupancy)
6. Available Housing Supply

Locale Analysis



Locale Analysis

Criteria	Weight	Everett North			Marysville			Arlington			Stanwood			Mount Vernon		
		Raw	Value	StandardWeighted Value	Raw	Value	StandardWeighted Value	Raw	Value	StandardWeighted Value	Raw	Value	StandardWeighted Value	Raw	Value	StandardWeighted Value
		Valu	Value	Value	Valu	Value	Value	Valu	Value	Value	Valu	Value	Value	Valu	Value	Value
1. Percentage of service area for year 2025 that live and work within 30 minute travel time (one-way during peak hour)																
-Population	15	26%	1.3	19.5	29%	1.5	21.75	25%	1.3	18.75	24%	1.2	18	27%	1.4	20.25
-Employment	15	37%	1.9	27.75	36%	1.8	27	30%	1.5	22.5	22%	1.1	16.5	28%	1.4	21
Sub-totals				47.25			48.75			41.25			34.5			41.25
2. Average travel miles per trip per person served (located within 30 minutes)																
-Population	10	18.1	0.5	5	12.7	1.8	18	14.7	1.3	13	18.6	0.3	3	16.2	1.0	10
-Employment	10	16.1	1.0	10.0	13.8	1.6	16.0	17.6	0.6	6.0	19.4	0.1	1.0	15	1.3	13.0
Sub-totals				15			34			19			4			23
3. Adequate range of environmentally unconstrained land v appropriate land use designations	20	NA	4.0	80	NA	3.7	74	NA	4.3	86	NA	2.7	54	NA	2.7	54
4. Availability and capacity of public utilities and services Year 2013	5	NA	5.0	25	NA	5.0	25	NA	4.0	20	NA	4.0	20	NA	5.0	25
5. Proximity to existing or proposed mass transit service by Year 2013	10	NA	5.0	50	NA	4.0	40	NA	3.0	30	NA	3.0	30	NA	4.0	40
6. Available Housing Supply	15	NA	4.0	60	NA	4.0	60	NA	5.0	75	NA	3.0	45	NA	4.0	60
Totals	100			277.25			281.75			271.25			187.5			243.25

Implementation – Unaffiliated Alternative

- **2005-2007 Budget – Total: \$250,000**
 - Bridge Money to continue - \$250,000
- **2007-2009 Budget – Total: \$31,000,000**
 - Land Options - \$1,000,000
 - Site Selection and Master Plan - \$3,000,000
 - Land Acquisition - \$25,000,000
 - Operating Funds to HECB for on-going analysis - \$500,000
 - Operating Funds for New Institution Staff - \$1,500,000

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Implementation – Unaffiliated Alternative

- **2009-2011 Budget – Total: \$28,000,000**
 - Pre design for Phase 1 - \$691,000
 - Design for Phase 1 - \$11,100,000
 - Operating Funds for new Institution - \$2,500,000
 - Fund FTEs - \$13,700,000

Implementation – Unaffiliated Alternative

- **2011-2013 Budget – Total: \$233,000,000**
 - Construction of Phase 1 - \$197,000,000
 - Pre design for Phase 2 - \$260,000
 - Design for Phase 2 - \$4,200,000
 - Fund FTEs - \$32,000,000

Implementation – Unaffiliated Alternative

- **2013-2015 Budget – Total: \$120,000,000**
 - Construction for Phase 2 - \$74,000,000
 - Operating Funds - \$46,000,000
- **2015-2017 Budget – Total: \$65,000,000**
 - Fund FTEs - \$65,000,000

Implementation – Affiliated Alternative

- **2005-2007 Budget – Total: \$250,000**
 - Bridge Money to continue - \$250,000
- **2007-2009 Budget – Total: \$31,000,000**
 - Land Options - \$1,000,000
 - Site Selection and Master Plan - \$3,000,000
 - Land Acquisition - \$25,000,000
 - Operating Funds to HECB for on-going analysis - \$500,000
 - Operating Funds for New Institution Staff - \$1,500,000

Implementation – Affiliated Alternative

- **2009-2011 Budget – Total: \$28,000,000**
 - Pre design for Phase 1 - \$700,000
 - Design for Phase 1 - \$11,300,000
 - Operating Funds for new Institution - \$2,500,000
 - Fund FTEs - \$13,700,000

Implementation – Affiliated Alternative

- **2011-2013 Budget – Total: \$236,000,000**
 - Construction of Phase 1 - \$200,500,000
 - Pre design for Phase 2 - \$241,000
 - Design for Phase 2 - \$3,100,000
 - Fund FTEs - \$32,000,000

Implementation – Affiliated Alternative

- **2013-2015 Budget – Total: \$114,000,000**
 - Construction for Phase 2 - \$69,000,000
 - Operating Funds - \$45,000,000
- **2015-2017 Budget – Total: \$64,000,000**
 - Fund FTEs - \$64,000,000

Capital and Operations Costs Summary Comparison – 2006-2017

Preliminary Project Cost Summary	Polytechnic			Comprehensive		
	Unaffiliated	Affiliated	Upper Division	Unaffiliated	Affiliated	Upper Division
2006-2013 Planning/Initial Operation	\$ 6,250,000	\$ 6,250,000	\$ 6,250,000	\$ 6,250,000	\$ 6,250,000	\$ 6,250,000
Land Acquisition	\$ 25,000,000	\$ 25,000,000	\$ 25,000,000	\$ 25,000,000	\$ 25,000,000	\$ 25,000,000
Phase 1&2 Design/Construction Costs	\$ 287,716,365	\$ 286,037,792	\$ 281,969,992	\$ 287,716,365	\$ 286,037,792	\$ 281,969,992
Phase 1&2 Operating Costs (thru 2017)	\$ 123,948,900	\$ 123,048,900	\$ 121,788,900	\$ 123,948,900	\$ 123,048,900	\$ 121,788,900
TOTAL	\$ 442,915,265	\$ 440,336,692	\$ 435,008,892	\$ 442,915,265	\$ 440,336,692	\$ 435,008,892

2006 dollars
Each serves 5,500 FTEs (2015)

Summary Findings

Based on the analyses completed over the course of this multi-month planning effort, the following observations are possible:

The three-county area is:

- Large
- Geographically diverse
- Forecast to experience continued significant population growth to 2025 and beyond

Summary Findings

Given the forecast population of the three-county area:

- The needs of 10,767 FTEs are forecast to be unmet in 2025
- The nature of the unmet need is significant as well – 17 to 24 year olds make up 74% of the need. Lifestyle choices (commuter vs. residential campus life) are important to that group.

Summary Findings

- Program needs in the areas of:
 - Business/Accounting/Finance
 - Computer Science/Network/Systems
 - Engineering/Engineering Technology
 - Nursing/Allied Health/Medical Professions
 - Hospitality
 - Project/Operations Management
 - Teaching – special education, middle & high school
 - Construction Trades and Technologies

Summary Findings

The public higher education institutions that serve the area's population are:

- Effectively full or committed to serving other areas. There is no idle expansion capacity.
- Creating additional capacity at the existing institutions will involve land acquisition, new buildings, and likely structured parking as well as infrastructure improvements together with recruitment of faculty and staff.

Summary Findings

In response:

- State investment to serve the forecast need is warranted.
- Investment in the community colleges will be necessary to accommodate their natural growth.

Summary Findings

- Expansion of the three existing community colleges and developing and operating an upper-division-only institution is estimated to be approximately equal in costs to those of a new four-year polytechnic university.
- The polytechnic university, as a fresh-start institution, was endorsed by the study's Local Advisory Committee, in part because of its economic development potential.

Consultant Team Recommendations

- Investment in a four-year polytechnic university, as well as in each of the area's community colleges and related outlying education centers.
- This investment should be undertaken in concert with investment/continued development of the University of Washington's commuter campus in King County's City of Bothell. Both are needed.
- The UWB's physically entitled capacity on the campus it shares with Cascadia Community College is 6,000 full-time students. Completing the development of the Bothell commuter campus to accommodate 6,000 FTE students would add 4,800 students above the current UWB enrollment of 1,200 FTEs, which is a part of the solution to meet the higher education needs for both King County and more generally the SIS area.

Consultant Team Recommendations

- Continued investment in each of the area's community colleges, including expansion of lower-division polytechnic opportunities, Workforce Training, and Adult Basic Education at the area's community colleges.
- Continued development/Expansion of programs to respond to the geographic and cultural diversity of the region including elements of local centers, distance learning, and other modes of service delivery.

Consultant Team Recommendations

- The new four-year polytechnic university should be developed in the locale between North Everett and Marysville to minimize travel distances and times for the majority of students, faculty, and staff.
- Near term continued definition of role and mission (including affiliated vs. independent institution), curriculum descriptions, environmental analysis-driven site evaluations and selection are warranted.
- Similar efforts to define and describe the incremental development needed for each of the community college campuses and their related outlying learning centers across the region are also warranted.