# Service Reduction Scenario Application of Criteria

#### **Regional Transit Task Force**

July 15, 2010

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Regional Transit Task Force's Evolving Policy Statements

- Emphasize productivity due to its linkage to economic development, land use and financial sustainability
- Acknowledge the need to address social and geographic balance

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### **Scenario Development Process**

- Interpreted "Evolving Direction" of the Task Force into service design criteria
  - Prioritize service to students, low income riders, and people dependent on transit for basic mobility
  - Prioritize service to employment centers
  - Consider demand for transit when establishing frequency and span of service
  - Maximize productivity and cost efficiency
  - Provide transit service throughout King County
  - Control costs

#### Modified the existing network accordingly

- Quantified the changes
- Identified impacts to riders

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### **Baseline System**

#### **SERVICE ADDITIONS**

Fall 2009 Baseline	3,495,000
RapidRide	118,000
<u>SR 520 Urban Partnership</u>	28,000
Subtotal	3,631,000

#### **SERVICE REDUCTIONS**

Total	3,031,000
R1 Scenario	-400 000
2010 – 2011 Efficiencies	-200,000
New Baseline	3,631,000

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## Structured Application of Criteria

STEP ONE: Eliminate all services Productivity/Efficiency **Productivity Screen** Below 15 Rides per Platform Hour Restore lost core connections Land Use, Economic between centers and Development higher density STEP TWO: residential areas Social Equity Network Provide at least hourly **Considerations** service within most **Geographic Balance** cities currently served \_\_\_\_\_ Use capacity of ST Bus and Rail **STEP THREE**: Productivity/Efficiency **Identify Efficiencies** Consolidate routes/eliminate tails Match capacity to demand

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## Step One: Productivity Screen

If all routes < 15 rides per platform hour (by time of day) are cut, the distribution of reductions is:

East	55%
South	27%
West	18%

 System logic breaks down – some activity centers have no service at all, or at certain times of day (e.g. after 7 p.m.)

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## **Step Two: Network Considerations**

- Connect Centers e.g. Redmond to Kirkland all day; Crossroads, Covington at night
- Restore geographic coverage e.g. Carnation, Enumclaw, North Bend, Duvall



## Step Three: Identify Efficiencies

#### Remove or direct feeder routes to ST Bus & Rail

- Where ST seats/frequency (capacity) are available
- Consolidate routes that serve common origins & destinations and eliminate residential tails
  - Maintain seats/frequency (capacity) at lower cost
  - First/last 10% of riders should use < 10% of running time</p>
- Eliminate extra capacity, match seats to demand

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#### **Baseline Information – Scenario Comparison**

	Service Family	Number of Routes	Annual* Platform Hours	Percent of total Platform Hours	Riders per Platform Hour	Rider Miles per Platform Hour	Cost per Rider
Ì	Frequent	56	1,975,000	57%	37.4	144	\$3.23
	Arterial	46	2,020,000	64%	39.6	n/a	\$3.09
	Peak	99	505,000	14%	20.8	198	\$6.69
	Commuter	69	440,000	14%	24.2	n/a	\$5.67
		60	915,000	26%	25.1	97	\$4.69
	LUCAI	38	570,000	18%	23.5	n/a	\$4.88
	Hourly	25	100,000	3%	12.0	60	\$9.64
	Tiouriy	22	135,000	4%	14.1	n/a	\$8.18
	Totolo	240	3,495,000	100%	31.1	137	\$3.95
	Totals	175	3,035,000	100%	34.6	n/a	\$3.52
*	Approximate						9
Legend Blue: 2009 Baseline Red: R1 Scenario We'll Get You There.							

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# Baseline and R-1 Scenario Comparison

	2009 Base	R-1 Scenario	Percent Change
Hours	3.5 million	3.1 million	- 11%
Riders	108.5 million	105.8 million	- 2%
Access	1.47 million	1.45 million	- 1%
Productivity	31.1	34.6	11%

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# Question

- Do the criteria we used balance the key factors appropriately?
  - productivity
  - economic development
  - Iand use
  - financial sustainability
  - social equity
  - geographic balance

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