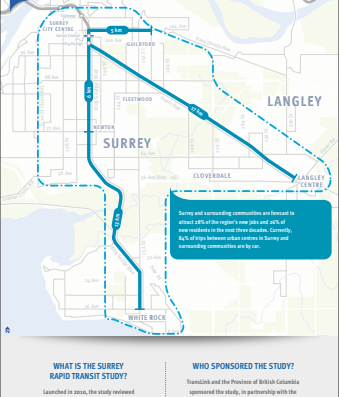
Surrey Rapid Transit Study Findings



WHAT IS THE SURREY RAPID TRANSIT STUDY?

Launched in 2020, the study reviewed alternatives for rapid transit service in Surrey and surrounding communities.

WHO SPONSORED THE STUDY?

TransLink and the Province of British Columbia sponsored the study, in partnership with the City of Surrey, City of Langley, and Metro Vancouver.

WHAT WERE THE STUDY'S GOALS?

The study aimed to identify rapid transit alternatives that meet three goals:

SHAPE TRAVEL DEMAND
Meet, shift and help shape travel demand through improved transit service quality.

SHAPE LAND USE
Shape future land use in keeping with the Regional Growth Strategy and municipal plans.

RAISE TRANSIT RIDERSHIP, LOWER EMISSIONS
Help achieve mode share and emissions targets.

HOW MANY TECHNOLOGIES AND ROUTE OPTIONS DID WE CONSIDER?

3 technologies examined
- BUS RAPID TRANSIT
- LIGHT RAIL TRANSIT
- RAIL RAPID TRANSIT (SKYTRAIN)

1000+ route and technology combinations initially considered

13 alternatives evaluated in detail

4 alternative identified for three corridors

HOW DID WE EVALUATE THE OPTIONS?

Each alternative was evaluated on seven accounts for benefits and impacts:

- ECONOMIC DEVELOPMENT
- ENVIRONMENT
- FINANCIAL
- SOCIAL & COMMUNITY
- TRANSPORTATION
- DELIVERABILITY
- URBAN DEVELOPMENT

90+ detailed measures considered (e.g. GHG emissions, construction effects)

PUBLIC CONSULTATION BY THE NUMBERS

970 questionnaires completed

230 workshop attendees

20+ public events & meetings held

WHAT ALTERNATIVES DID WE IDENTIFY?

These alternatives best address the study goals, and are highlighted for further consideration.

	BRT 1	LRT 5A	LRT 1	BRT 5A
DESCRIPTION	BRT on Fraser Highway, King George Boulevard, and 104th Avenue	LRT on Fraser Highway, and BRT on King George Boulevard and 104th Avenue	LRT on Fraser Highway, 104th Avenue, and King George Boulevard south to Newton, with BRT from Newton to White Rock	BRT on Fraser Highway, and BRT on King George Boulevard and 104th Avenue
LENGTH OF BRT	40 km	24 km	13 km	24 km
LENGTH OF LRT	–	17 km	27 km	–
LENGTH OF RRT	–	–	–	16 km
TRAVEL TIME Surrey Centre to Langley Centre (Base case = 34 minutes)	30 minutes	29 minutes	29 minutes	22 minutes
TRAVEL TIME Surrey Centre to White Rock (Base case = 59 minutes)	57 minutes	57 minutes	58 minutes	57 minutes
CAPITAL COST	$2.9 billion	$2.68 billion	$2.18 billion	$2.22 billion
ANNUAL OPERATING COST (in 2041)	$47 million	$45 million	$39 million	$45 million
DAILY BOARDINGS (in 2041)	189,000	180,000	166,000	200,000
NEW DAILY TRANSIT RIDERS/TRIPS (2041)	13,500	12,500	12,000	24,500

What are the next steps?

Now that the study has identified four alternatives for consideration in Surrey, it's up to the region to consider trade-offs and competing regional investment priorities, and decide on what level of rapid transit investment the region should make.

TransLink will facilitate this discussion through the Regional Transportation Strategy process in 2023, which will ask the region to clarify a shared vision for its long-term transportation future, and identify what we can do now to take us there.