

# COUNCIL AGENDA SYNOPSIS



-----Initials-----				<b>ITEM No.</b>  <b>7.F.</b>
<i>Meeting Date</i>	<i>Prepared by</i>	<i>Mayor's review</i>	<i>Council review</i>	
<b>9/20/21</b>	<b>JB</b>			

## ITEM INFORMATION

	STAFF SPONSOR: <b>JOEL BUSH</b>	ORIGINAL AGENDA DATE: <b>9/20/21</b>
AGENDA ITEM TITLE	<b>Municipal Broadband Project - Department of Commerce Grant Request</b>	
CATEGORY	<input type="checkbox"/> <i>Discussion</i> <input checked="" type="checkbox"/> <i>Motion</i> <input type="checkbox"/> <i>Resolution</i> <input type="checkbox"/> <i>Ordinance</i> <input type="checkbox"/> <i>Bid Award</i> <input type="checkbox"/> <i>Public Hearing</i> <input type="checkbox"/> <i>Other</i> <small>Mtg Date</small> <small>Mtg Date 9/20/21</small> <small>Mtg Date</small> <small>Mtg Date</small> <small>Mtg Date</small> <small>Mtg Date</small> <small>Mtg Date</small>	
SPONSOR	<input type="checkbox"/> <i>Council</i> <input type="checkbox"/> <i>Mayor</i> <input checked="" type="checkbox"/> <i>Admin Svcs</i> <input type="checkbox"/> <i>DCD</i> <input type="checkbox"/> <i>Finance</i> <input type="checkbox"/> <i>Fire</i> <input type="checkbox"/> <i>P&amp;R</i> <input type="checkbox"/> <i>Police</i> <input type="checkbox"/> <i>PW</i>	
SPONSOR'S SUMMARY	<b>Support submission of a grant application to the Department of Commerce Public Works Broadband Program in the amount of \$2,000,000.00 to support Tukwila's Municipal Broadband Project.</b>	
REVIEWED BY	<input checked="" type="checkbox"/> Trans&Infrastructure Svcs <input type="checkbox"/> Community Svcs/Safety <input type="checkbox"/> Finance & Governance <input type="checkbox"/> Planning & Community Dev. <input type="checkbox"/> LTAC <input type="checkbox"/> Arts Comm. <input type="checkbox"/> Parks Comm. <input type="checkbox"/> Planning Comm.	
	DATE: <b>8/23/21</b> COMMITTEE CHAIR: <b>SEAL</b>	

**RECOMMENDATIONS:**

SPONSOR/ADMIN. \_\_\_\_\_

COMMITTEE \_\_\_\_\_

## COST IMPACT / FUND SOURCE

EXPENDITURE REQUIRED	AMOUNT BUDGETED	APPROPRIATION REQUIRED
\$	\$	\$
Fund Source:		
Comments:		

MTG. DATE	RECORD OF COUNCIL ACTION
<b>9/20/21</b>	

MTG. DATE	ATTACHMENTS
<b>9/20/21</b>	<b>Informational Memorandum dated 8/20/21</b>
	<b>Preliminary Costs</b>
	<b>Tukwila School District Internet Need Analysis</b>
	<b>Minutes from the 8/23 Transportation &amp; Infrastructure Services Committee meeting</b>





## **INFORMATIONAL MEMORANDUM**

**TO:** Transportation and Infrastructure Services Committee  
**FROM:** Joel Bush, Chief Technology Officer  
**CC:** Mayor Allan Ekberg  
**DATE:** August 20, 2021  
**SUBJECT:** Municipal Broadband Project  
Department of Commerce Grant Request

### **ISSUE**

Approve the submission of a grant application to the Department of Commerce Public Works Broadband Program for up to \$2,000,000 to fund the construction of a municipal LTE network using cellular technology.

### **BACKGROUND**

The City of Tukwila Municipal Broadband Project will provide true broadband internet to City of Tukwila students and their families while they are within Tukwila city limits. Currently, the Tukwila School District equips 20% of its students with mobile hotspots and 23% of families are enrolled in the Comcast's Internet Essential Program.

### **DISCUSSION**

Increasing broadband infrastructure will increase equity by reducing Tukwila's digital divide. Specifically, the project will construct monopole sites or small cells that will connect with the City's existing fiber network to provide broadband service to all City of Tukwila students and their families. The investment in municipal broadband will serve a foundation for future smart city investments.

### **FISCAL IMPACT**

Preliminary cost estimates for this project are between 2,200,000 - \$2,650,000. The deployment of a municipal LTE network will also include recurring annual costs of \$220,000. \$130,000 for maintenance and software and \$90,000 for a dedicated internet connection. The total five-year project cost is anticipated to be \$3,738,434 for capital and reoccurring expenses.

The city has the opportunity to apply for up to \$2,000,000 in funding from the Department of Commerce for Broadband Construction for capital costs related to the Municipal Broadband Project. No match is required for this funding opportunity. The Department of Commerce Broadband Construction call for projects is currently open. Applications are due by October 1, 2021, with projects awarded in November 2021.

This project is not currently funded, but Tukwila staff are in discussions with the Tukwila School District on cost sharing models to minimize financial impact to the City of Tukwila. Staff will also continue to research local, state and federal grants to support this project.

### **RECOMMENDATION**

Council is being asked to approve the submission of the grant application. Staff will brief the full Council on this grant opportunity and program concept at the September 20, 2021 Regular Meeting.

**ATTACHMENTS:** Preliminary Costs  
Tukwila School District Internet Need Analysis



**City of Tukwila Municipal LTE Project Cost Estimates**

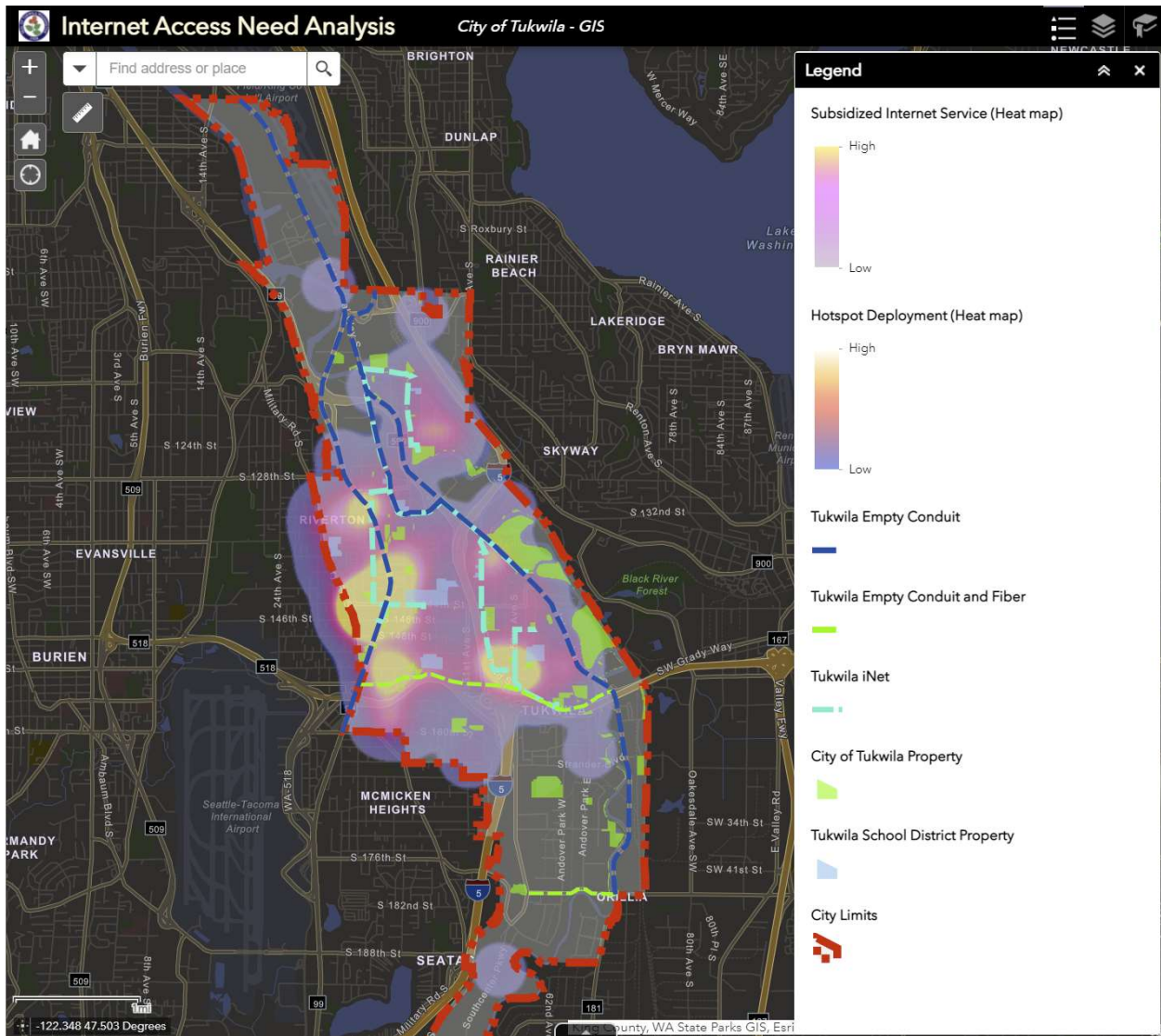
**One Time Cost**

<b>Services:</b>	<b>Extended Cost</b>
<b>Description:</b>	
Network Design, RF engineering, network engineering, installation of rooftops and monopoles, construction services, installation of radios/antenna systems, Installation of core network, commissioning, enablement, optimizing of Radio Network , CPI configuration and compliance, project management for the sites	\$946,538
Structural Analysis/Construction Designs, and professional engineering services for permitting/zoning	\$169,500
<b>Services: Subtotal</b>	<b>\$1,116,038</b>
<b>Equipment:</b>	
<b>Description:</b>	
Radio Access Network, gateways, switches, EPC Core, tower equipment, enclosures, custom fab, cabling, CBSDs, sims, end user devices	\$1,532,864
<b>Equipment: Subtotal</b>	<b>\$1,532,864</b>
<b>Grand Total Subtotal</b>	<b>\$2,648,902</b>

**Recurring Cost**

<b>Description:</b>	
<b>Year 1 -</b>	
CBSD Licensing / Hardware and Software Maintenance	111,993
Internet Connection	90,000
<b>Year 1 Subtotal</b>	<b>201,993</b>
<b>Year 2 -</b>	
CBSD Licensing / Hardware and Software Maintenance	126,113
Internet Connection	90,000
<b>Year 2 Subtotal</b>	<b>216,113</b>
<b>Year 3 -</b>	
CBSD Licensing / Hardware and Software Maintenance	129,826
Internet Connection	90,000
<b>Year 3 Subtotal</b>	<b>219,826</b>
<b>Year 4 -</b>	
CBSD Licensing / Hardware and Software Maintenance	133,793
Internet Connection	90,000
<b>Year 4 Subtotal</b>	<b>223,793</b>
<b>Year 5 -</b>	
CBSD Licensing / Hardware and Software Maintenance	137,807
Internet Connection	90,000
<b>Year5 Subtotal</b>	<b>227,807</b>
<b>Grand Total Subtotal</b>	<b>\$1,089,532</b>
<b>Grand Total - Equipment/Services/Maintenance/Licensing for five years</b>	<b>\$3,738,434</b>

# Tukwila School District Internet Need Analysis



**D. Grant Application: Municipal Broadband Project**

Staff is seeking Council approval to apply for up to \$2,000,000 from the Department of Commerce Public Works Broadband Program to fund construction of a municipal LTE network using cellular technology.



*Item(s) requiring follow-up.*

- Reach out to other schools and districts in Tukwila.

*Committee Recommendation*

Unanimous Committee approval to apply for grant. Forward discussion to September 13, 2021 Committee of the Whole.

**II. Miscellaneous**

The meeting adjourned at 6:10 p.m.

Committee Chair Approval

Minutes by LH