

Google RFI

1. General information

* Required fields

Name of governing body: *

You can create a name for each response. Name of this response:

List communities included in your response:

These may be autonomous units of government contained within the boundaries of the responding entity (such as towns within a county), districts or neighborhoods within a town, or adjacent units of government responding together (such as a joint response of multiple counties or towns).

Contact person:

Name:

Title:

City Chief Technology Officer

Address: *

Seattle Municipal Tower
700 5th Avenue, Suite 2700
P.O. Box 34018
Seattle, WA 98124-4018

State: *

ZIP (5 Digit): *

Phone number:

Email: * bill.schrier@seattle.gov

✓ Contact person has authority to provide these answers as the official position of the responding local government?

If not, please provide contact information for the local government official who does have such authority:

2. Background information about your community

* Required fields

Population (2008): *

If the response is for part of a city, please enter the corresponding population.

Populated area in square miles: *

If the response is for part of a city, please enter the corresponding populated area.

Please describe how the population is distributed:

Seattle has 600,000 people in 84 square miles. A number of neighborhoods are single family residential. Much of the population is concentrated, however, in dense urban neighborhoods of apartment buildings and condominiums in the downtown area, around the University of Washington, and in other urban centers. Our population is distributed so that we can facilitate the targeting of high tech populations who are likely to use bandwidth intensive applications.

Median household income (\$ per annum): *

Number of housing units: *

Number of single family homes:

Number of multi-family homes:

Number of apartment complexes:

Average number of units per apartment complex:

Number of gated communities:

Average number of housing units per gated community:

Approximate percentage of households in entire community with access to broadband Internet service (%):

Approximate percentage of households in entire community that are currently subscribing to broadband Internet service (%):

Terrain:

Overall description of terrain:

Total land area is 84.01 square miles; total water body area is 3.42 square miles. Roughly 56% of Seattle's land area contains less than 8% slope; roughly 23% contains between 8-16% slope; roughly 21% contains greater than 16% slope.

Percentage of plains (%):

Percentage of rolling hills (%):

Percentage of mountains (%):

Percentage other terrain (%):

Climate:

Average annual highest temperature (°F):

Average annual temperature (°F):

Average annual lowest temperature (°F):

Average amount of snowfall per year (inches):

Average amount of rainfall per year (inches):

Average amount of hurricane or tornado activity in a year (days):

Local government:

Form of local government (city, town, county, etc.): *

City

Local government rule:

Source of government decision making (city manager, city council, mayor, etc.):

Mayor and City Council

Utilities:

Please list largest utilities and the approximate percentage of the community covered by each provider:

	Provider name:	Coverage (%):
Electric:	Seattle City Light	100
Gas:	Puget Sound Energy	100
Water:	Seattle Public Utilities	100
Sewer:	Seattle Public Utilities	100
Cable:	Comcast/Broadstripe	100
Phone:	Qwest	100

Local economy mix (if available):

Number of high tech jobs:

25646

Number of manufacturing jobs:

85566

Number of education services jobs:

32628

Number of other service sector jobs:

163680

Colleges and universities (List names and average number of students enrolled at each, if available):

University of Washington - 45,380
Seattle Community Colleges (4 campuses) - 39,601
Seattle University - 4,253
Seattle Pacific University - 3,842
Art Institute of Seattle - 2,561
Cornish College of the Arts - 800

Major hospitals/health care facilities (List names)

Harborview Medical Center; Children's Hospital; Group Health Hospital; Kindred Hospital; Northwest Hospital;
Regional Hospital for Respiratory and Complex Care; Seattle Cancer Care Alliance; 3 Swedish Medical Centers;
University of Washington Medical Center; VA Puget Sound Health Care; Virginal Mason Hospital; West Seattle
Psychiatric Hospital

Current providers of high speed Internet service (Company; DSL, Cable modem, wireless, fiber, etc.):

Comcast - Cable modem
Qwest - DSL
Broadstripe - Cable modem
Resellers: Earthlink, Speakeasy (DSL)
Wireless Mobile: AT&T, Sprint, Verizon
Wireless fixed: Clearwire

Other significant features of your community that could be relevant for this project:

Seattle has built 485 miles of fiber throughout the City, including backhaul fiber to major anchor institutions and fiber into all neighborhoods -- this will allow Google to select targeted neighborhoods to provide testbeds for new applications. The City also owns the electric poles and controls access and process. And, Seattle offers strong interest from a tech savvy community -- 90% of residents indicate that speed is the most important consideration in internet service.

3. Collaborating on a Google fiber trial

* Required fields

In this section, we ask you to share how your community would work with Google to enable us to proceed quickly and effectively.

Are you, the local government, willing to appoint an individual to serve as a single point of contact (1)? *

- Yes
 No

If so, please describe the responsibilities and authority that this individual will have:

Your single point of contact will be Bill Schrier, the City's Chief Technology Officer. Mr. Schrier will have the authority to make operational and technical decisions with Google on behalf of the City, and will have direct contact with the Mayor and City Council for any major policy decisions.

Describe any current or planned programs in your community to accelerate and expand adoption and use of broadband Internet access:

Seattle is recognized internationally as a center of high tech software and applications development. Our municipal electric utility is actively developing projects for smart grid. We are actively deploying intelligent transportation systems. We provide connectivity assistance via cable modems to non-profits which could be expanded with the Google project. We have conducted town hall meetings via fiber from one location and plan to expand this as part of our online public engagement efforts. We have a strong partnership with the Univ. of Washington Information School in developing impact metrics and evaluation methods.

Additional reasons why you believe that Google should select your community for this project:

Seattle is a hotbed of innovation. We are the birthplace of Boeing and the commercial airplane. We pioneered the retail coffee industry with Starbucks and the electronic retailing industry with Amazon. The University of Washington is consistently the top academic institution receiving grant funds. And of course we pioneered in commercial software development with firms like Microsoft and many technology spinoffs. A large number of Fortune 500 corporations are located here, all of whom rely on remote access to reduce carbon footprints and lower vehicle emissions. Our electrical utility is ready to develop smart grid applications and has a built-in audience of users. And we have supportive political leadership in our Mayor and City Council, who have publicly expressed their support for expanding broadband access in the City

Please provide a web link to any additional information you wish us to consider. Submissions using Google Maps or YouTube are encouraged:

<http://www.Seattle.gov/broadband>

4. Your community's support

* Required fields

Have you performed any outreach, study, or analysis regarding support in your community for this type of trial? *

- Yes
 No

Describe how you ascertained or plan to ascertain the level of community support for this project (e.g., surveys, public hearings, meetings with community groups, etc.):

The City has conducted multiple statistically valid surveys to ascertain the level of community support for a next generation fiber to the home network. These surveys uniformly show strong support for broadband -- see survey results on <http://www.Seattle.gov/broadband>.

Please describe your community's level of support for this project:

Our communities are highly connected and want more. 74% of Seattle homes are connected to the Internet at speeds greater than dial up. Two-thirds of computer users who work use the internet to work from home, and 85% of them say that significantly faster Internet access would be valuable and would facilitate enhanced acceptance of telecommuting. Boeing has its major engineering and development centers in the region. Microsoft has employees all over Seattle and Google has two separate facilities. These companies are ready to test innovative forms of remote and video access to allow employees to telework.

Please briefly summarize any additional comments or suggestions you would like to make to Google on behalf of your community:

Seattle has an extensive network of technology contacts through our Community Technology Program and can use these contacts to help support Google's Fiber for Communities project. We estimate there are 100,000 technology employees in the region -- many of these employees and their companies are ready and willing to test innovative applications such as on-demand TV, video conferencing, and on-line gaming.

5. Facilities and resources

* Required fields

Deployment of a community-wide FTTH network will require Google to work closely with local government entities and other organizations. Google seeks to identify resources owned by the community that may assist in the rapid, smooth deployment of a residential fiber optic network. In this section, we ask you to share information about particular facilities and assets within the community that may be used or affected as part of such a facilities deployment, particularly those owned by the local government.

Please respond as completely and accurately as possible.

Pole attachments:

Please identify the entities, including units of the local government, that own or control utility poles in your community:

Entity name:

City of Seattle/City Light (100%)

Number of poles owned or controlled:

108000

Annual rate per pole for pole attachment:

by telecommunications carriers (\$):

19

by cable system operators (\$):

19

by Internet access providers (\$):

19

Entity name:

Not Applicable

Number of poles owned or controlled:

Annual rate per pole for pole attachment:

by telecommunications carriers (\$):

by cable system operators (\$):

by Internet access providers (\$):

Entity name:

Not Applicable

Number of poles owned or controlled:

Annual rate per pole for pole attachment:

by telecommunications carriers (\$):

by cable system operators (\$):

by Internet access providers (\$):

If the local government will make its own poles available for attachments by Google, please estimate the number of days to complete the following steps, assuming full cooperation from Google:

Negotiation of a master pole attachment agreement:

Issuance of permits for individual attachments:

Developing specifications for make-ready work:

Completing make ready work:

If a unit of your local government has access to poles owned or controlled by third parties that it could make available to Google, please provide the following information:

Number of poles:

Entity or entities that own or control the poles:

No poles are controlled by third parties. City of Seattle owns and/or controls 100% of the poles.

Rate that you would charge Google (\$) per pole per year:

Describe any restrictions on your right to make such poles available to Google:

Not Applicable -- City of Seattle owns and/or controls 100% of the poles.

Please identify any state or local laws, ordinances, rules, or other legal measures that govern access and rates for attachment:

SMC15.32.300 (pole attachments)
RCW35.99.060 (state right of way statute)
WAC296-45-065 (training/safety for workers installing equipment next to electrical lines)
Master Pole Attachment Agreement
Ordinance 123178 (City Light rates)
SMC21.49.065 (duct, vault, and pole rental rates)
SDOT Director's Rule for above ground equipment

Please provide contact information for any entities named above:

Contact for Seattle City Light:
Phil West, 206-684-3718;
Phil.West@seattle.gov

Conduits:

Please identify the entities, including units of local government, that own or control utility conduits in your community:

Entity name:

Linear feet of conduit owned or controlled:

1000000

Annual rate per foot for conduit use:
by telecommunications carriers (\$):

5

by cable system operators (\$):

5

by Internet access providers (\$):

5

Entity name:

Dept of Info Te

Linear feet of conduit owned or controlled:

6000

Annual rate per foot for conduit use:

by telecommunications carriers (\$):

0

by cable system operators (\$):

0

by Internet access providers (\$):

0

Entity name:

Not Applicable

Linear feet of conduit owned or controlled:

Annual rate per foot for conduit use:

by telecommunications carriers (\$):

by cable system operators (\$):

by Internet access providers (\$):

If the local government will make its own conduits available for use by Google, please estimate the number of days to complete the following steps, assuming full cooperation from Google:

Negotiation of a master conduit agreement:

0

Issuance of permits:

18

If a unit of your local government has access to conduit owned or controlled by third parties that it could make available to Google, please provide the following information:

Linear feet:

0

Entity or entities that own or control the conduit:

Not applicable -- City of Seattle owns underground conduit in all underground areas of the City

Rate that you would charge Google (\$) per linear foot per year:

N/A

Describe any restrictions on your right to make such conduit available to Google:

While not all City-owned conduit has spare capacity, there is sufficient conduit available for all desired routings and conduit installations.

Please identify local laws, ordinances, rules, or other legal measures that govern access rights and rates for conduit use:

Ordinance 123178 (City Light rates)
SMC21.49.065 (duct, vault, and pole rental rates)

Please provide contact information for any entity named above:

City Light: Phil West, 206-684-3718;
Phil.West@seattle.gov
Dept of Info Tech: Bill Schrier, 206-684-0633;
Bill.Schrier@seattle.gov

Public rights of way:

Does your local government directly control and administer the use of all public rights of way within its jurisdiction?

Describe any other entities that control and administer the use of the public rights of way in your community:
None

With respect to your processes for managing access to public rights-of-way, please estimate the number of days to complete the following steps, assuming full cooperation from Google:
Negotiation, approval, and issuance of a master right-of-way agreement:

0

Issuance of construction permits:

2

Post-construction inspections and approvals:

2

Please indicate the amount or method of calculating all fees and charges for use of the public rights-of-way, including the following (if applicable):

Application fees:

131

Linear foot (or other) usage fees:

33/LF

Inspection fees:

150/hour

Other fees or charges:

none

Community sensitivities and policies:

Please describe any historical districts or other culturally or environmentally sensitive areas: *

Historical Districts: Seattle has 7 historic districts: Ballard Avenue, Columbia City, Fort Lawton, Harvard-Belmont, International District, Pike Place Market, and Pioneer Square. Seattle has critical areas (e.g., steep slopes) but hanging fiber from poles would not impact these areas, and the necessary ground equipment could be located in non-sensitive areas.

Please describe your undergrounding plans and policies, if any: *

The City's electric infrastructure is roughly 80% overhead and 20% underground.

Please identify unique ordinances, rules, policy statements, and other legal measures specific to your community that Google would have to comply in developing a fiber project:

There are no unique ordinances, rules, etc. See above for standard ordinances.

6. Construction methods

* Required fields

Has your community worked with, studied, or evaluated the following types of construction methods for fiber to the home networks:

- | | | | |
|--|---|--|---|
| <input checked="" type="checkbox"/> Aerial | <input checked="" type="checkbox"/> Trenching | <input checked="" type="checkbox"/> Boring | <input checked="" type="checkbox"/> Micro-trenching |
| <input type="checkbox"/> Plow | <input type="checkbox"/> Rock saw | <input type="checkbox"/> Other | <input type="checkbox"/> None |

Check approved methods of construction for your community: *

- | | | | |
|--|---|--|---|
| <input checked="" type="checkbox"/> Aerial | <input checked="" type="checkbox"/> Trenching | <input checked="" type="checkbox"/> Boring | <input checked="" type="checkbox"/> Micro-trenching |
| <input type="checkbox"/> Plow | <input type="checkbox"/> Rock saw | <input type="checkbox"/> Other | <input type="checkbox"/> None |

Are there other construction methods that are approved for use in construction of fiber to the home or other telecommunications networks in your community? If so, please list them below:

None

7. Regulatory issues

* Required fields

Please describe the local regulatory obligations that would apply to Google if this project went forward in your community: *

Google will only need to comply with right-of-way code and any applicable land use codes. As an Internet provider, it will not be required to secure certification as a CLEC from the Washington Utilities and Transportation Commission, nor will it be required to secure a cable franchise from the City.

Please describe local business obligations and taxes/fees, if any, that would apply to Google if this project went forward in your community:

Local governments in WA state can't tax internet access. The state can tax internet access at a rate of 1.5%, and businesses in the state need to obtain a state business license.