Lab - Research Broadband Internet Access Technologies

# Objectives

Part 1: Investigate Broadband Distribution

Part 2: Research Broadband Access Options for Specific Scenarios

# Background / Scenario

Although broadband internet access options have increased dramatically in recent years, broadband access varies greatly depending on location. In this lab, you will investigate current broadband distribution and research broadband access options for specific scenarios.

# Required Resources

Device with internet access

## Investigate Broadband Distribution

In Part 1, you will research broadband distribution in a geographical location.

### Research broadband distribution.

Use the internet to research the following questions:

#### Questions:

* + - 1. For the country in which you reside, what percentage of the population has broadband internet subscriptions?

Type your answers here.

* + - 1. What percentage of the population is without broadband internet options?

Type your answers here.

### Research broadband distribution in the United States.

Search the internet for the Fixed Broadband Deployment Map. The Fixed Broadband Deployment Map allows users to search and map broadband availability across the United States.

**Note**: For access options and ISPs for locations outside the United States, perform an internet search using the keywords **broadband access XYZ**, where XYZ is the name of the country.

* + - 1. Enter your zip code, city and country that you would like to explore and click **Find Broadband**.

#### Question:

List the zip code or city in the space provided.

Type your answers here.

* + - 1. Examine the **All Providers Reporting** area of the output. What, if any, wired broadband internet connections are available at this location? Complete the table below.

| **ISP** | **Connection Type** | **Download Speed** |
| --- | --- | --- |
| blank | Blank | Blank |
| Blank | Blank | Blank |
| Blank | Blank | Blank |

* + - 1. Examine the **All Providers Reporting** area of the output. What, if any, wireless broadband internet connections are available in this location? Complete the table below.

| **ISP** | **Connection Type** | **Download Speed** |
| --- | --- | --- |
| blank | Blank | Blank |
| Blank | Blank | Blank |
| Blank | Blank | Blank |

## Research Broadband Access Options for Specific Scenarios

In Part 2, you will research and detail broadband options for the following scenarios and select the best last-mile technology to meet the needs of the consumer. You can use the Fixed Broadband Deployment site as a starting point for your research.

**Scenario 1**: You are moving to Kansas City, Missouri and are exploring home internet connections. Research and detail two internet connections from which you can select in this metropolitan area.

| **ISP** | **Connection Type** | **Cost per Month** | **Download Speed** |
| --- | --- | --- | --- |
| blank | Blank | Blank | blank |
| Blank | Blank | Blank | Blank |

Choose one from the list of local ISPs that you selected. Give the reasons why you chose that particular ISP.

Type your answers here.

**Scenario 2**: You are moving to an area outside of Billings, Montana and are exploring home internet connections. You will be beyond the reach of cable or DSL connections. Research and detail two internet connections you can select in this area.

| **ISP** | **Connection Type** | **Cost per Month** | **Download Speed** |
| --- | --- | --- | --- |
| blank | Blank | Blank | blank |
| Blank | Blank | Blank | Blank |

Choose one from the list of local ISPs that you selected. Give the reasons why you chose that particular ISP.

Type your answers here.

**Scenario 3**: You are moving to New York City and your job requires you to have 24 hours anytime/anywhere access. Research and detail two internet connections from which you can select in this area.

| **ISP** | **Connection Type** | **Cost per Month** | **Download Speed** |
| --- | --- | --- | --- |
| blank | Blank | Blank | blank |
| Blank | Blank | Blank | Blank |

Choose one from the list of local ISPs that you selected. Give the reasons why you chose that particular ISP.

Type your answers here.

**Scenario 4**: You are small business owner with 10 employees who telecommute in the Fargo, North Dakota area. The teleworkers live beyond the reach of cable internet connections. Research and detail two internet connections you can select in this area.

| **ISP** | **Connection Type** | **Cost per Month** | **Download Speed** |
| --- | --- | --- | --- |
| blank | Blank | Blank | blank |
| Blank | Blank | Blank | Blank |

Choose one from the list of local ISPs that you selected. Give the reasons why you chose that particular ISP.

Type your answers here.

**Scenario 5**: Your business in Washington, D.C. is expanding to 25 employees and will need to upgrade your broadband access to include equipment colocation and web hosting. Research and detail two internet connections from which you can select in this area.

| **ISP** | **Connection Type** | **Cost per Month** | **Download Speed** |
| --- | --- | --- | --- |
| blank | Blank | Blank | blank |
| Blank | Blank | Blank | Blank |

Choose one from the list of local ISPs that you selected. Give the reasons why you chose that particular ISP.

Type your answers here.

# Reflection Question

How do you think broadband Internet access will change in the future?

Type your answers here.

End of document