Impact of Broadband Infrastructure & Remote Workers in Indiana

Digital Inclusion Research Forum

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Methodology

Broadband Infrastructure
- Public & private investment used as inputs per region
- Input category was industry detailed sales in the power and communications structures
- Report: RPI-Impact-of-Broadband-Investments.pdf (purdue.edu)

Work from Home
- Grouped 70 REMI industries into 13 Census work from home industries and used number of workers as policy inputs
- Report: The Impact of Remote Work | Purdue Center for Regional Development
Indiana: Employment Impact

Employment (Number of Jobs)

Average: 1,595

<table>
<thead>
<tr>
<th>Year</th>
<th>2019</th>
<th>2020</th>
<th>2022</th>
<th>2023</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jobs</td>
<td>542</td>
<td>1,736</td>
<td>195</td>
<td>3,907</td>
</tr>
</tbody>
</table>

Educational Attainment Breakdown (%)

<table>
<thead>
<tr>
<th>Quintile</th>
<th>Broadband Investments</th>
<th>State Overall</th>
</tr>
</thead>
<tbody>
<tr>
<td>No Bachelor's</td>
<td>77.9</td>
<td>69.0</td>
</tr>
<tr>
<td>Bachelor's or Higher</td>
<td>22.1</td>
<td>31.0</td>
</tr>
</tbody>
</table>

Compensation Quintiles, All Occupations (%)

<table>
<thead>
<tr>
<th>Quintile</th>
<th>Broadband Investments</th>
<th>State Overall</th>
</tr>
</thead>
<tbody>
<tr>
<td>Low-to-Mid</td>
<td>74.0</td>
<td>68.8</td>
</tr>
<tr>
<td>Second High &amp; Highest</td>
<td>26.0</td>
<td>31.2</td>
</tr>
</tbody>
</table>
Indiana: Labor Force

Number of Workers

- 2019: 162
- 2020: 532
- 2022: 374
- 2023: 1,254

Average: 581

Age Groups Breakdown (%)

- Ages 16-24:
  - Broadband Investments: 21.6%
  - State Overall: 13.8%

- Ages 25 to 54:
  - Broadband Investments: 62.6%
  - State Overall: 62.6%

Race & Ethnicity (%)

- White, non-Hispanic:
  - Broadband Investments: 85.1%
  - State Overall: 78.9%

- Minorities:
  - Broadband Investments: 14.9%
  - State Overall: 21.1%
Indiana Worked from Home: 2021

Worked from Home in 2021:

222,777

2021 Impacts:

+493,790 jobs
+149,444 population
+129,377 labor force

+$53.7 million to the state’s GDP
Indiana Worked from Home: 2021

Figure 8. Share of Jobs by Earning Quintiles

Workers from Home Contribution
- Lowest 20%: 25.4%
- Second 20%: 20.5%
- Middle 20%: 22.8%
- Fourth 20%: 8.4%
- Highest 20%: 22.9%

State Level
- Lowest 20%: 26.9%
- Second 20%: 20.7%
- Middle 20%: 21.4%
- Fourth 20%: 9.2%
- Highest 20%: 21.9%

Source: REMI F1+

Figure 10. Share of Additional Labor Force by Race/Ethnicity

- White, non-Hispanic: 84.9%
- Black, non-Hispanic: 7.1%
- Other, non-Hispanic: 8.8%
- Hispanic: 3.9%
- State Level: 4.5%

Source: REMI F1+
How can we help?

(765) 494-7273  
pcrd.purdue.edu