5G Economic Impact Between 2021 – 2025

Qualcomm and Accenture partnered to create a 5G economic impact whitepaper for U.S. and Europe, here is a quick summary

Drive up to $2.7 TRILLION in additional U.S. gross output *

Add up to $1.5 TRILLION to the U.S. GDP

Create or transform up to 16 MILLION** (full-time + part-time + temp) U.S. jobs

* 5G sales value indicates additional sales increase based on new 5G connections

**Assumes no labor supply constraints, some of these jobs will be replaced by upward pressure on prevailing wages instead.
5G Economic Report Key Questions

Within this economic analysis, Qualcomm and Accenture economists worked together to address four key questions:

1. Will 5G be a force for growth and resiliency in the post-COVID economy?
2. What are consumer expectations of the role and value of 5G in their lives?
3. How will 5G transform industries?
4. How can 5G be accelerated to assure full impact?

Approach:
- Rigorous economic modeling to measure immediate impact on sales, GDP, jobs
- Consumer Survey Results (3,000+ respondents) in U.S. and Europe
- Industry interviews that deep-dive on specific 5G use cases and enablers detailed
- Policy suggestions, highlighting individual state and country impact
U.S. and Europe GDP and Jobs Breakdown

5G’s economic impact will be felt across the United States and Europe

Includes full-time, part-time and temporary jobs; Assumes no labor supply constraints, some of these jobs will be replaced by upward pressure on prevailing wages instead.
Sample U.S. and Europe Highlights by Industry

Below we’ve highlighted some of our key findings over the course of this engagement, through research, interviews and surveys.

<table>
<thead>
<tr>
<th>MANUFACTURING</th>
<th>HEALTHCARE</th>
<th>AUTOMOTIVE</th>
<th>UTILITIES</th>
<th>RETAIL</th>
<th>AGRICULTURE</th>
</tr>
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<tbody>
<tr>
<td>• 20%-30% potential overall productivity gains</td>
<td>• 30% cost savings in transition to remote-home based models</td>
<td>• Up to 80% reduction of vehicle collisions*</td>
<td>• Billions in savings resulting from 5G transmission and distribution line monitoring</td>
<td>• Up to 50% sales growth when combined streaming and XR</td>
<td>• 25% potential increased productivity</td>
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<td>• 50% improvement in assembly efficiency</td>
<td>• Improved patient outcomes and access to care</td>
<td>• $3.6 billion savings in repair costs</td>
<td>• Drive down 12% of energy use</td>
<td>• 30% potential decrease inputs</td>
<td>• 20% potential decreased costs</td>
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<td>• 20% increase asset life</td>
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<td>• 25% reduction in traffic</td>
<td>• Reduce risk of wildfires</td>
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<td>• 15% increased crop yields</td>
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<td>• 90% defect detection</td>
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*Note(*): With 5G supporting technology.
Sample 5G Use Cases Estimated (non-exhaustive)

Through our industry experience, 5G project work and primary industry client interviews, we highlighted a set of use cases by industry.
U.S. Consumer Survey Findings Snapshot
5G’s benefits include enabling work from home, bridging the digital divide, and better services.

1. Connectivity is a fundamental expectation and is seen as essential.

2. Consumers are not quite getting what they need in terms of quality.

3. US consumers recognize the digital divide.

4. People really like working from home—and want to if they don’t already.

5. Consumers are surprisingly willing to pay for potential added benefits or new services.

6. 5G has an image problem.

In September 2020, Accenture surveyed a nationally representative sample of 1,000 Americans between the age of 18-64 via an online survey conducted by a leading global research firm.
Potential of 5G Still Requires Consumer Education

How well do you understand what 5G technology is? How well do you understand the potential impacts of 5G on your life?

<table>
<thead>
<tr>
<th></th>
<th>No understanding at all</th>
<th>Minimal understanding</th>
<th>Moderate understanding</th>
<th>Strong understanding</th>
</tr>
</thead>
<tbody>
<tr>
<td>What 5G technology is</td>
<td>15%</td>
<td>30%</td>
<td>29%</td>
<td>26%</td>
</tr>
<tr>
<td>Expected impacts of 5G</td>
<td>15%</td>
<td>31%</td>
<td>32%</td>
<td>23%</td>
</tr>
</tbody>
</table>

n = 1,000
Download the 5G Economic Whitepapers

U.S. 5G Economic Impact Whitepaper Website and pdf
https://www.accenture.com/us-en/insights/high-tech/5g-economic-impact

Europe 5G Economic Impact Whitepaper pdf