High-Tech Antitrust in a Time of Populism

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Information Technology & Innovation Foundation

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Amazon’s empire
And what could threaten it

Delivering
Amazon

<table>
<thead>
<tr>
<th>Year</th>
<th>Employees '000s</th>
<th>Market capitalisation, $bn</th>
</tr>
</thead>
<tbody>
<tr>
<td>1997</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2000</td>
<td></td>
<td></td>
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<tr>
<td>2005</td>
<td></td>
<td></td>
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<tr>
<td>2010</td>
<td></td>
<td></td>
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<tr>
<td>2015</td>
<td></td>
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<tr>
<td>2017</td>
<td></td>
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</tbody>
</table>

Sources: Bloomberg; Thomson Reuters

Economist.com
Drumbeat in the Press: Consolidation and High Profits
“Markets work best when there is healthy competition among businesses. In too many industries, that competition just doesn’t exist anymore.”

*New York Times Editorial, 31 October 2015*

“With competition in tatters, the rip of inequality widens.”

*New York Times, 12 July 2016*
“The rise of the corporate colossus threatens both competition and the legitimacy of business.”

_Economist_, 17 September 2016
Exclusionary Conduct?
Concentration
Growing Concentration: *The Economist*

- Four-Firm Concentration Ratio, 1997 & 2012
- 893 U.S. Sectors
  - Wireless Telecom
  - Motor Vehicles
  - Pharmaceuticals
  - Health Insurance
  - Software Publishers
  - Electric Power Dist.
  - Supermarkets
Increases in CR4, 1997 to 2012: Average Across “Markets” by Sector

More to fewer
Top four firms’ average share of total revenue, %
United States, across 893 industries, grouped by sector*

Sources: US Census Bureau; The Economist
*Weighted-average  †2007  ‡By valued-added

Economist.com
Information Technology in the U.S.

- **Wireless Carriers** $225B
  - CR4 = 89% (up 38%)

- **Wired Carriers** $286B
  - CR4 = 52% (up 4%)

- **Data Hosting** $108B
  - CR4 = 15% (down 27%)

- **Software Publishing** $171B
  - CR4 = 42% (up 13%)

- **Computer Design** $153B
  - CR4 = 25% (up 14%)

- **Custom Programming** $121B
  - CR4 = 12% (up 5%)
Profits
“Profits are too high. America needs a giant dose of competition.”

Economist, 26 March 2016
## Corporate Profits by Sector: Share of All Domestic Profits

<table>
<thead>
<tr>
<th>Sector</th>
<th>1998</th>
<th>2016</th>
</tr>
</thead>
<tbody>
<tr>
<td>Utilities</td>
<td>5.3%</td>
<td>1.1%</td>
</tr>
<tr>
<td>Construction</td>
<td>4.2%</td>
<td>5.1%</td>
</tr>
<tr>
<td>Manufacturing</td>
<td>29.7%</td>
<td>22.1%</td>
</tr>
<tr>
<td>Wholesale Trade</td>
<td>8.1%</td>
<td>7.0%</td>
</tr>
<tr>
<td>Retail Trade</td>
<td>9.9%</td>
<td>10.2%</td>
</tr>
<tr>
<td>Information</td>
<td>5.3%</td>
<td>7.8%</td>
</tr>
<tr>
<td>Finance &amp; Insurance</td>
<td>13.6%</td>
<td>18.3%</td>
</tr>
<tr>
<td>Health Care &amp; Social Assistance</td>
<td>2.1%</td>
<td>5.2%</td>
</tr>
<tr>
<td>Accommodation &amp; Food Services</td>
<td>1.5%</td>
<td>2.6%</td>
</tr>
</tbody>
</table>

Information: publishing, software, motion pictures, sound recordings, broadcasting, telecommunications, information and data processing services

Corporate Profits: Three Big Questions

1. Why Did Corporate Profits Grown Nearly 50% as a Share of GDP from 1998 to 2015?

2. How Persistent Are High Profits at the Firm and Industry Levels?

3. Have Entry and Expansion Become Less Effective at Eliminating Rents to Incumbents?
What Does This Evidence Tell Us?
One Interpretation of All This Evidence

- Widespread Decline in Competition
  - Mergers & Consolidation
  - Barriers to Entry Getting Higher
  - Exclusionary Conduct by Dominant Firms, Especially in the Tech Sector

- Contributing to Declining Productivity Growth
  - Sluggish Improvements by Incumbents
  - Failure of Competition to Root Out Inefficiency

- Contributing to Increases in Inequality
  - High Profits Mostly Going to the Wealthy
  - Regular Consumers and Workers Harmed
A Contrary Interpretation

- Growing Economies of Scale
  - Has Been Happening for 100 Years
  - Big Scale Economies in Info Tech Sector Due to Fixed Design Costs and Network Effects – Very Innovative

- Consumers Benefit When Giants Do Battle

- Geographic Consolidation is Often Efficient
  - Market Shares at National Level: Misleading Picture
  - Example: Retailing Sector Consolidation & Efficiency

- Globalization and Declining Trade Barriers
  - Consumers Are Big Winners, Tech and Beyond
Antitrust and Innovation

- Antitrust Must Not Attack Large Firms Simply Because They Obtain Dominant Positions
  - Doing So Would Discourage Innovation
- Today’s Large Tech Companies Warrant Antitrust Scrutiny
  - Focus Attention on Specific Conduct that Harms Consumers and Excludes Disruptive Competitors
- Antitrust Cannot Substitute for Regulation
- Please, Let Us Not Forget What We Have Learned Over the Past 50 Years