UNIVERSITY OF CAMBRIDGE Judge Business School

MARKET POWER IN THE DIGITAL AGE

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The beginning of a new era?

- ➤ ICT/Digital technologies: more than just general purpose technologies.
- ➤ To paraphrase Robert Solow's 1987 quip: Not only we see computers everywhere, but we also start to see the consequences of the new digital technologies...
- > During the last few years, there has been a wealth of "stylized fact" trends and correlations related to concentration, markups, prices and innovation outcomes.
- ➤ Many economists and policymakers are expressing concern over the possibility of increasing monopoly power in the world economy.



The four new digital "laws"

- ➤ Moore's Law: The information **processing power** of microchips doubles every 18 months or so.
- Gilder's Law: Transmission capacity bandwidth
 doubles every couple of years.
- ➤ Metcalfe's Law: Being connected to a **network** gets more valuable with the square of the size of the network, while the cost of joining falls.
- ➤ Varian's Law: Digital **components** are **free**, while digital **products** are highly **valuable**.



- ➤ A number of recent studies of markups employs an analytical approach that was broadly rejected by the field of industrial organization more than 30 years ago: the structure-conduct-performance paradigm.
- ➤ The question--"what is the effect of concentration on prices or markups?"— is not a well-posed question for a variety of reasons (measurement, endogeneity), which makes it fundamentally impossible to learn something useful from these studies.
- > So what *is* useful?



- > First step: descriptive baseline analysis.
 - ✓ Is concentration in general rising across many firms and industries or a relatively small number?
 - ✓ Are accounting markups rising?
 - ✓ Are prices rising?
 - ✓ What are the descriptive correlations across these variables?
- Cavallo's paper is an excellent example of that type of work
 - ✓ Online competition ("Amazon effect") leads to high price flexibility and uniform pricing across locations
 - ✓ These two phenomena increase the sensitivity of prices to aggregate shocks



- > Second step: what are the factors leading to rising concentration and markups?
 - ✓ Is it mostly about the costs? Variable, fixed or sunk?
 - ✓ Is it due to demand (network effects)?
 - ✓ Is it about the conduct (less competition due to lax antitrust)?
- > Criscuolo's et al. paper belongs to this stream of literature providing novel evidence:
 - ✓ Intangibles (innovation & patents) allow large firms to scale up increasing industry concentration
 - ✓ Intangibles' impact particularly strong in globalized, concentrated and highly digital-intensive industries



- > Korinek and Ng work also provides us with new theories that:
 - ✓ Highlight the role and macro consequences of digital innovations of Superstar firms/entrepreneurs
 - ✓ Discuss implications for monetary and broader policy
 - ✓ Propose and evaluate different "remedies"
- > What else? What's next?



- ➤ Need **more** detailed **industry studies** because the **mechanisms** at work are **not the same** across industries.
- ➤ Network effects (digital platforms)?
- ➤ Monopsony power?
- ➤ Increased rent seeking?
- Globalisation?
- ➤ Antitrust (killer mergers, patent trolls, foreclosure)?



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