

2.6 – Industrial Policy

ECON 324 • International Trade • Spring 2023

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 tradeS23.classes.ryansafner.com



Outline



Graham & The Increasing Returns Argument

Responses to Graham

Endogenous Growth & The Economics of Ideas

Evidence for Industrial Policy Success?

Modern Protectionism



Graham & The Increasing Returns Argument

Graham: Increasing Returns Argument



Frank D. Graham

1890–1949

- Princeton economist that argued comparative advantage is not an “infallable principle” for commercial policy
- Argued that some industries might warrant *permanent* protection
 - recall infant industries argument is just about *temporary* protection
- Main argument hinges on **increasing returns to scale** (decreasing cost industry)

Graham, Frank D, 1923, "Some Aspects of Protection Further Considered," *The Quarterly Journal of Economics*, 199–227.

Graham: Increasing Returns Argument



Frank D. Graham

1890–1949

- If manufacturing has increasing returns to scale:

“protection to manufactures may advantageously be continued much longer than would seem adequate to cover the infant stage, whether or not the industry could maintain itself without such aid,” (p.200).

“[I]t may be to a country’s economic advantage to protect an industry which could not grow up or survive without protection and which never will be able to survive without it, an industry which has no comparative advantage when the protective duty is first levied nor ever attains one under it,” (pp.202-203).

Graham: Increasing Returns Argument



- Graham's numerical example (essentially):
- Suppose two countries have two industries:
 - agriculture (diminishing returns)
 - manufacturing (increasing returns)
- Suppose labor is the main input in each industry

Graham, Frank D, 1923, "Some Aspects of Protection Further Considered," *The Quarterly Journal of Economics*, 199–227.

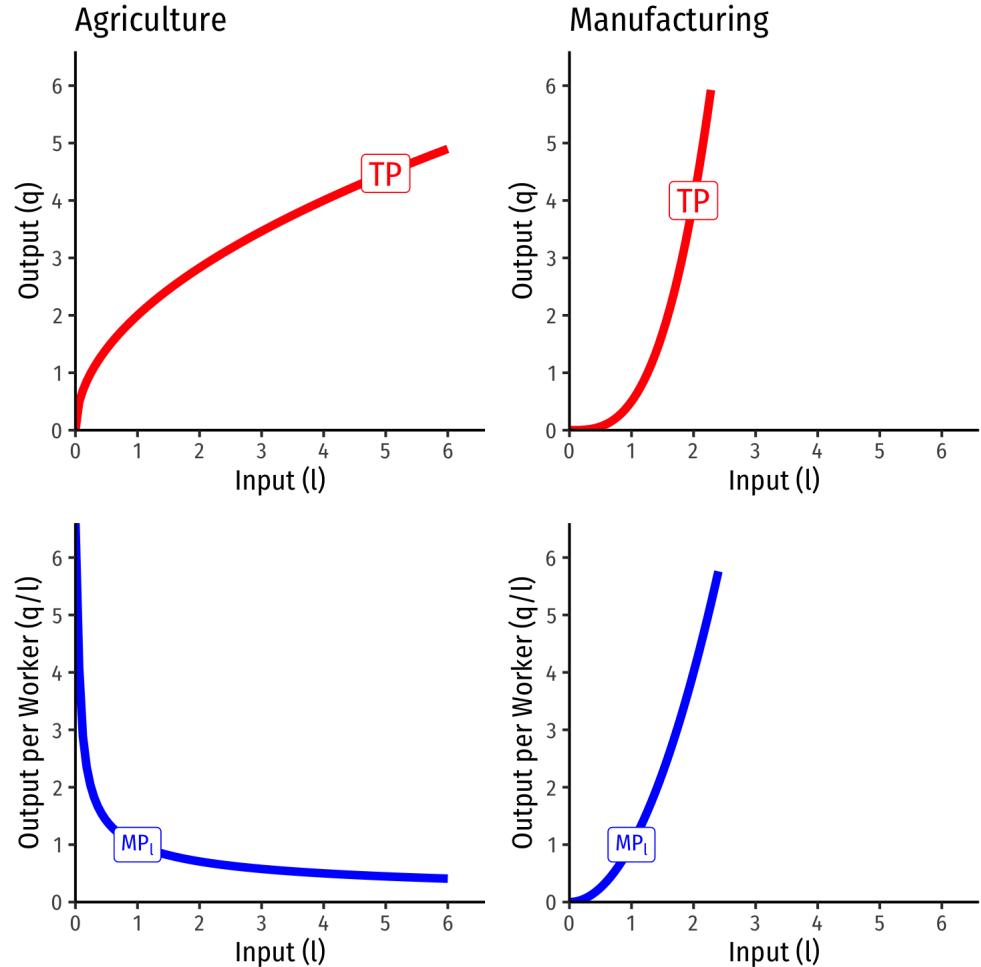
Frank D. Graham

1890–1949

Graham: Increasing Returns Argument



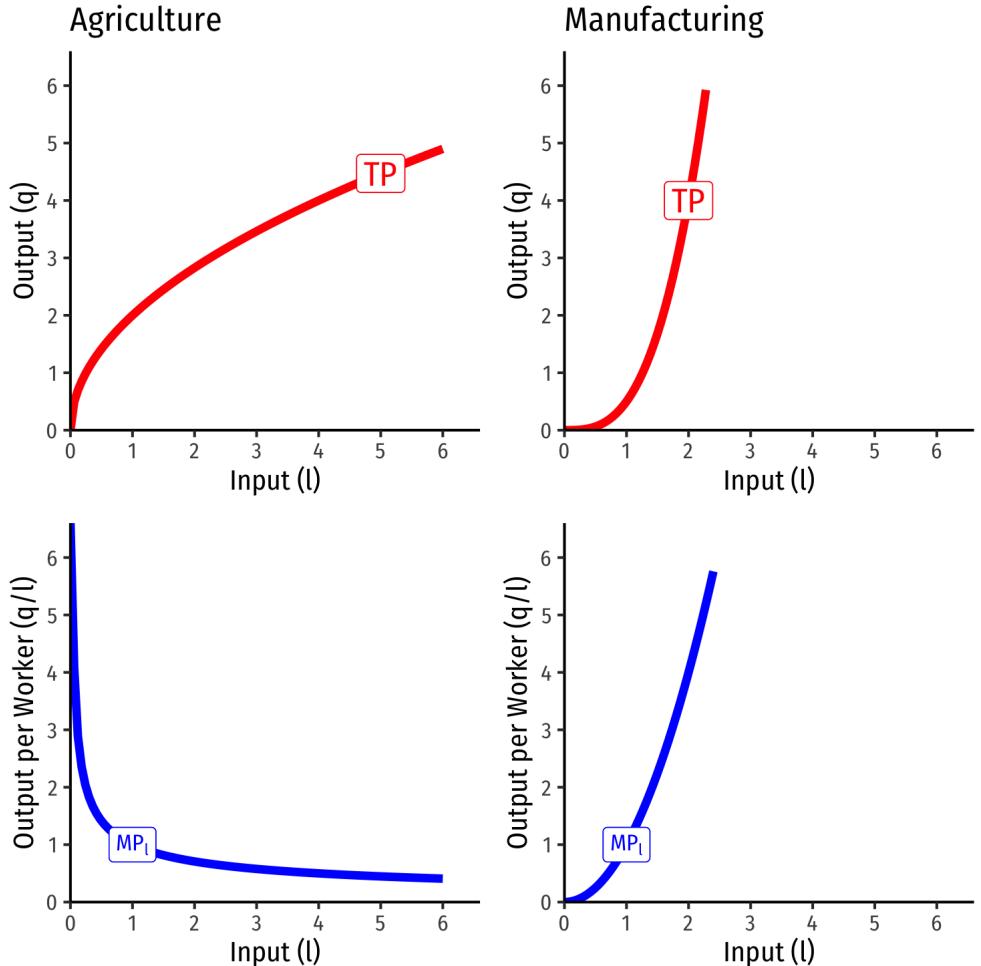
- Country A specializes in agriculture
- More labor allocated to agriculture, lowers MP_L in agriculture
- Less labor allocated to manufacturing, *also* lowers MP_L in manufacturing
- Consumers in *A* can consume *less* agriculture and *less* manufacturing goods



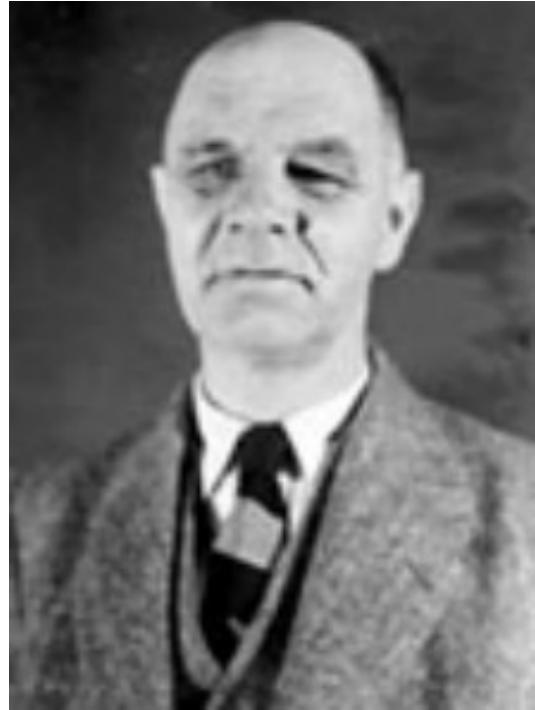
Graham: Increasing Returns Argument



- Country B specializes in manufacturing
- Less labor allocated to agriculture, *raises* MP_L in agriculture
- More labor allocated to manufacturing, *also raises* MP_L in manufacturing
- Consumers in *B* can consume *more* agriculture and *more* manufacturing goods



Graham: Increasing Returns Argument



Frank D. Graham

1890–1949

- The more the countries specialize and trade:
 - the more *both* goods become *more expensive* for the country specializing in the diminishing returns industry (agriculture)
 - and the *both* goods become *cheaper* for the country specializing in the increasing returns industry (manufacturing)
- “The final result of the specialization is to bring about a situation in which the citizens of the [country specializing in agriculture] get less reward for their efforts than if they had never carried on international trade at all,” (p.207).

Graham, Frank D, 1923, “Some Aspects of Protection Further Considered,” *The Quarterly Journal of Economics*, 199–227.

Graham: Increasing Returns Argument



“The conclusion that [the] country under the conditions assumed [specializing in agriculture] must lose by free trade is inevitable...[instead it requires] advantageous permanent protection [since the country is better off in autarky, or with less trade, it is] economically benefitted by protection and may do well to keep it indefinitely,” (p.208).

Graham, Frank D, 1923, “Some Aspects of Protection Further Considered,” *The Quarterly Journal of Economics*, 199–227.

Frank D. Graham

1890–1949

Graham: Increasing Returns Argument



Frank D. Graham

1890–1949

“It may well be disadvantageous for a nation to concentrate in production of commodities of increasing cost despite a comparative advantage in those lines; it will the more probably be disadvantageous to do so if the world demand for goods produced at decreasing cost is growing in volume more rapidly than that for goods produced at increasing cost,” (p.210).

Graham, Frank D, 1923, “Some Aspects of Protection Further Considered,” *The Quarterly Journal of Economics*, 199–227.

Graham: Terms of Trade?



- But wouldn't the country specializing in agriculture obtain more favorable terms of trade??
 - More manufacturing available (imported) for fewer agriculture (exports)
- “There is no reason for supposing that this would happen,” (p.210).
- No explanation given 🤔

Frank D. Graham

1890–1949

Graham, Frank D, 1923, “Some Aspects of Protection Further Considered,” *The Quarterly Journal of Economics*, 199–227.



Response to Graham

Knight's Response



Frank H. Knight

1885-1972

- Counter against Graham's "ingenious" but "fallacious" argument
- Took major issue with a footnote in Graham:

"The reasoning in the text simply assumes that a decreasing [average] cost is obtained by an expansion of the production of [manufacturing]; whether the cause of it be external or internal economies is immaterial to the theory, though it would, of course, affect the degree of its applicability," (p.204n).
- It turns out it makes all the difference whether we are talking about internal economies of scale or external economies of scale!

Knight's Response



Frank H. Knight

1885-1972

- Knight: increasing returns *internal* to the firm are not compatible with competition
 - if a single firm has significant economies of scale, it would serve the entire industry and become a monopoly!

“If competition is effective, the size of the production unit will tend to grow until *either* no further economies are obtainable, *or* there is only one establishment left and the industry is a monopoly...When all establishments have been brought to the efficient size, variation in total output is a matter of changing their *number*, in which no technical economies are involved...an increase in the output of a commodity must increase its cost of production unless the industry is, or becomes, a monopoly,”
(p.597)

Knight's Response



Frank H. Knight

1885-1972

“The rejoinder to [this] argument is the doctrine of ‘external economies’ [but] this surely rests upon a misconception. External economies in one [firm] are internal economies in some other, within the industry. Any branch or stage in the creation of a product which offers continuously a chance for [internal] economies [of scale] with increase in the scale of operations must eventuate either in monopoly or in leaving the tendency behind and establishing the normal relation of increasing cost with increasing size,” (p.597)

Knight's Response



Frank H. Knight

1885-1972

“What Professor Graham has to do to establish his theoretical position is to show that...industry really operates under decreasing cost, *without tending toward monopoly*...if one can make his assumptions in regard to decreasing cost, his conclusion is correct. [However] to vindicate decreasing costs in the sense required, it must be shown that there are, or may be, industries, in a condition of stable competition, in which no producer already engaged could decrease his real costs by expanding his output at the expense of other producers, and yet in which real costs would be decreased all around by new producers entering the industry in competition with those already there.” (p.331)

Knight's Response



Frank H. Knight

1885-1972

- New entrants would bid factors of production away from established firms, raise their price, or use lesser quality

“These inevitable sources of increasing cost must be more than offset by some kind of purely ‘external’ economies in organization. In spite of the weight of authority which may be cited for such economies [i.e. Marshall], I have never succeeded in picturing in them in my mind, or finding any convincing reason to believe they exist; and the hypothetical examples cited by Professor Graham...has not assisted me in doing so. I cannot believe such conditions general enough to justify a special law in economic theory, or a special provision in tariff legislation,” (p.331).

Viner on Technological vs. Pecuniary Externalities



Jacob Viner

1892-1970

“These extraordinary results are the consequence, and wholly the consequence, of value-theory reasoning, implicit or explicit in Graham's argument, which is either unambiguously erroneous or is of very limited practical significance,” (p.478).

- Implications of trade policies depend on whether external economies depend on *domestic* output or *world* output (to lower all firms' costs)
 - If world output, would not matter much if domestic firms reduced their output (other foreign firms would expand), domestic firms would still get the benefit of external economies (from foreign firms)

Viner on Technological vs. Pecuniary Externalities



Jacob Viner

1892-1970

- Also depends on whether external economies are:
 - **technical economies**: interdependence between each firm's *production function* and output of whole industry (as whole industry $\uparrow Q$, each individual firm i 's $\downarrow C(q_i)$)
 - **pecuniary economies**: interdependence between each firm's *profits* depend on activities of other (upstream or downstream) firms in the industry

“[If the external economies are pecuniary] then they are not real national economies and nothing is lost to the country when they disappear,” (p.480).

Viner on Technological vs. Pecuniary Externalities



Jacob Viner

1892-1970

“A conceivable case for protection on the basis of the existence of external economies in an industry which from the individual producer's point of view is at a comparative disadvantage in costs can be made out, therefore, only where these external economies are (a) dependent on the size of the national and not the world industry and (b) are technological rather than pecuniary, or if pecuniary, are not at the expense of domestic sellers or services or materials to the industry. The scope for application of the argument is extremely limited, especially as it seems difficult even to suggest plausible hypothetical cases of the existence of genuine technological external economies... [Graham's increasing returns argument for protectionism is] little more than a theoretical curiosity” (pp.480-481).

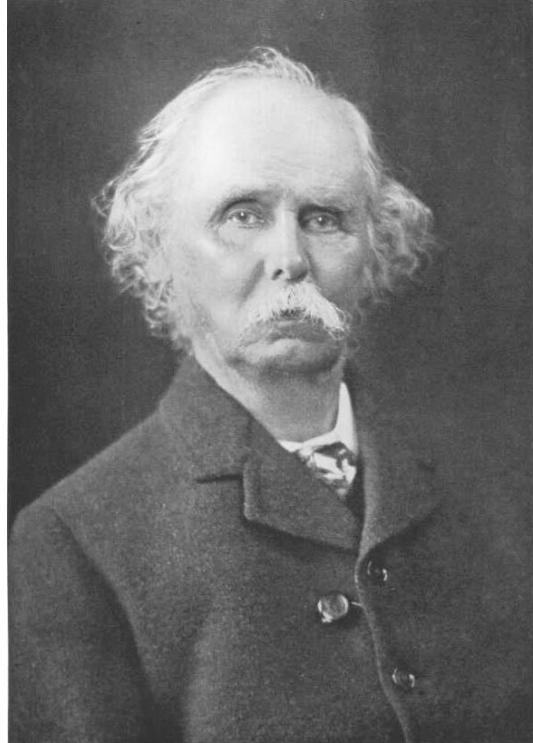
Recall: Internal vs. External Economies of Scale



- Economies of scale come in two flavors:
- ***Internal economies***: firm-level features that improve a **firm's** productivity, often leading to market power for that firm
 - e.g. firm produces more and lowers its average costs
- ***External economies***: industry-wide features that spill over to the productivity **all** firms in the industry
 - e.g. more firms producing more lowers **all firms'** average costs



Recall: Internal vs. External Economies of Scale



Alfred Marshall

1842-1924

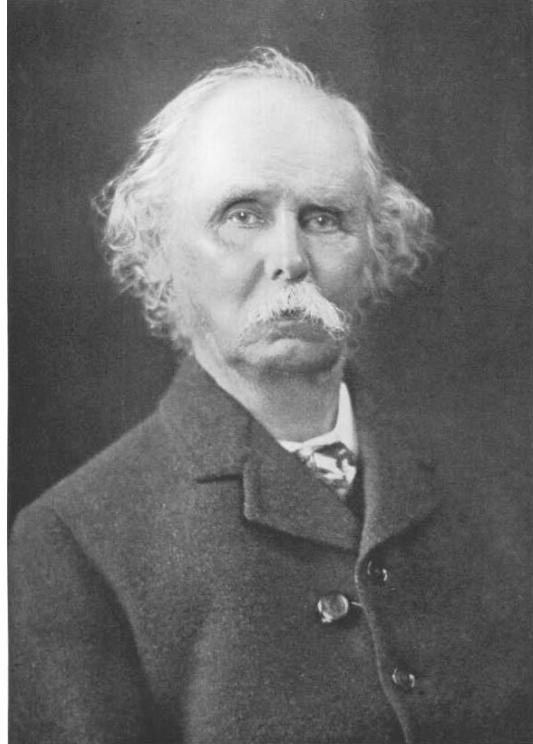
- Internal economies of scale:

“...are dependent on the resources of individual houses of business engaged in [the industry], on their organization and the efficiency of their management,” (p.220).

- External economies of scale:

“...are dependent on the general development of the industry [some of which] depend on the aggregate volume of production of the kind in the neighborhood while others again, especially those connected with the growth of knowledge and the progress of the arts, depend chiefly on the aggregate volume of production in the whole civilized world,” (p.220).

Recall: Internal vs. External Economies of Scale



Alfred Marshall

1842-1924

- What are some common sources of *external* economies?
 - knowledge spillovers between firms
 - subsidiary supplier industries
 - local pools of skilled labor

“The most important of these result from the growth of correlated branches of industry which mutually assist one another, perhaps being concentrated in the same localities, but anyhow availing themselves of the modern facilities for communication offered by steam transport, by the telegraph and by the printing press,” (p.264).

Summing Up



- It must be proven that there are genuine **external** and **technological** economies of scale in order for it to make sense to abandon free trade & protect a domestic industry with increasing returns
- A search for *sources* of increasing returns
 - Ideas
 - knowledge spillovers
 - “learning by doing”





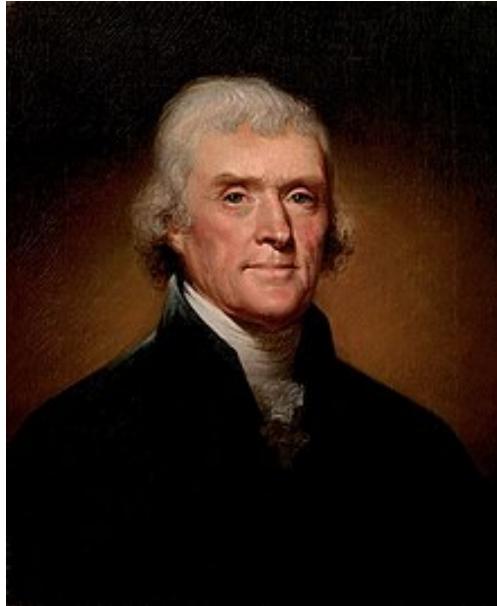
Endogenous Growth & The Economics of Ideas

The Economic *Problem* with Ideas I



	Rivalrous	Nonrival
Excludable	PRIVATE GOODS	COMMON RESOURCES
Excludable	(Houses, Jeans)	(Fisheries, Environment)
Nonexcludable	CLUB GOODS	PUBLIC GOODS
Nonexcludable	(Wifi, Cable TV)	(Asteroid Defense)

The Economic *Problem* with Ideas II



Thomas Jefferson

(1743-1826)

"He who receives an idea from me, receives instruction himself without lessening mine; as he who lights his taper at mine, receives light without darkening me. That ideas should freely spread from one to another over the globe, for the moral and mutual instruction of man, and improvement of his condition, seems to have been peculiarly and benevolently designed by nature, when she made them, like fire, expansible over all space, without lessening their density in any point, and like the air in which we breathe, move, and have our physical being, incapable of confinement or exclusive appropriation."

Jefferson, Thomas, 13 Aug 1813, "Letter to Isaac MacPherson,"

The Economic *Problem* with Ideas II



Thomas Macaulay
(1800-1859)

"It is then on men whose profession is literature, and whose private means are not ample, that you must rely for a supply of valuable books. Such men must be remunerated for their literary labour...It is desirable that we should have a supply of good books; we cannot have such a supply unless men of letters are liberally remunerated, and the least objectionable way of remunerating them is by means of copyright...The system of copyright has great advantages, and great disadvantages...Copyright is monopoly, and produces all the effects which the general voice of mankind attributes to monopoly...Monopoly is an evil...For the sake of the good we must submit to the evil; but the evil ought not to last a day longer than is necessary for the purpose of securing the good..."

High Fixed Costs, Low Marginal Costs I



- It costs about \$1,000,000,000 and 10 years on average to create a new drug. Once discovered, it costs the firm (or its competitors!) about \$0.50/pill to manufacture.

High Fixed Costs, Low Marginal Costs II



washingtonpost.com

The Washington Post
Democracy Dies in Darkness

Sign In

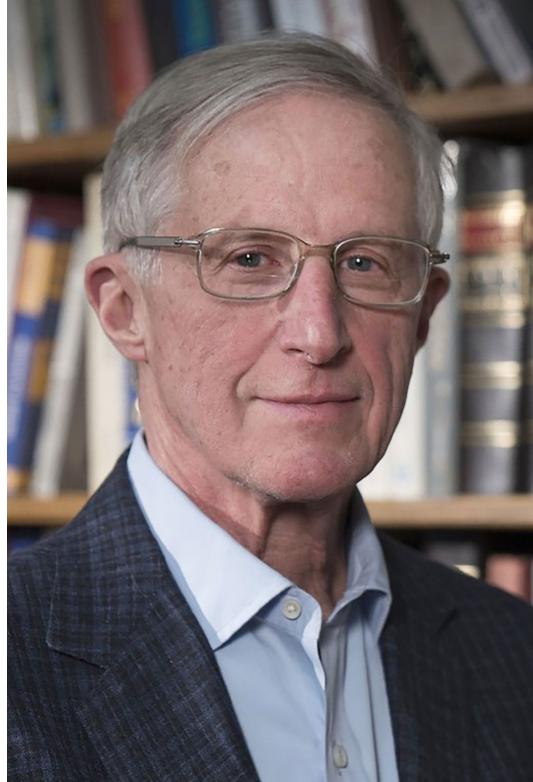
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Morning Mix

‘Game of Thrones’ was pirated more than a billion times – far more than it was watched legally

Source: [Washington Post \(Sept 8, 2017\)](#)

Positive Spillovers



"We conclude that [about 2.2%] of the social returns from technological advances over the 1948-2001 period was captured by producers, indicating that most of the benefits of technological change are passed on to consumers rather than captured by producers," (p.1)

Nordhaus, William, 2004, ["Schumpeterian Profits in the American Economy: Theory and Measurement," NBER Working Paper 10433](#)

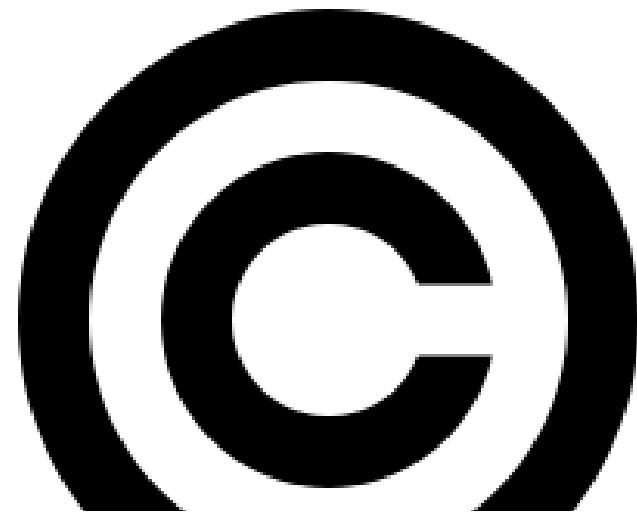
William Nordhaus

(1941-)

Property Rights in Innovation



- For these economic reasons, **patent** (for ideas and inventions) and **copyright** (for expressions) laws exist
- Grant *temporary* monopoly to holder in order to recover their fixed costs and provide incentive to undertake (risky and expensive) research/creativity
- A utilitarian *tradeoff* between incentives and access



Endogenous Growth Theory



- Some macroeconomic background:
- Famous **Solow (1956, 1957) model** of economic growth
 - Sought to show that capital accumulation leads to economic growth
 - Empirically found that *most* growth is explained by an unexplainable **exogenous “residual”** (technology, ideas, institutions that we cannot measure)



Endogenous Growth Theory



- **Endogenous growth theory** seeks to **endogenize** that residual and explain growth by explaining how *technology* grows
 - Technology/knowledge/ideas described as A
 - A grows proportional to the *existing* stock of knowledge $\frac{\partial A}{\partial t} \propto A$
 - A is non-rival and exhibits increasing returns
- Paul Romer and others



Knowledge is Nonrival



Paul Romer

(1955-)

Economics Nobel 2018

"Although other assumptions about secrecy and property rights could be considered, the equilibrium here is based on the assumption that anyone engaged in research has free access to the entire stock of knowledge. This is feasible because knowledge is a nonrival input. All researchers can take advantage of A at the same time," (p.S83).

Romer, Paul M, 1990, "Endogenous Technological Change," *Journal of Political Economy* 98(5-2): S71-S102

The Nature of "Knowledge" II



"[A] college-educated engineer working today and one working 100 years ago have the same human capital, which is measured in terms of years of forgone participation in the labor market. The engineer working today is more productive because he or she can take advantage of all of the additional knowledge accumulated as design problems were solved during the last 100 years," (pp. S83-S84).



This Implies Market Power



Paul Romer
(1955-)

Economics Nobel 2018

"If all inputs were paid their value marginal product, the firm would suffer losses," (p.S76).

"There is little doubt that much of the value to society of any given innovation or discovery is not captured by the inventor, and any model that missed these spillovers would miss important elements of the growth process. Yet it is still the case that private, profit-maximizing agents make investments in the creation of new knowledge and that they earn a return on these investments by charging a price for the resulting goods that is greater than the marginal cost of producing the goods," (p.S90).

Romer, Paul M, 1990, "Endogenous Technological Change," *Journal of Political Economy* 98(5-2): S71-S102

Romer Model Implication I - R&D Is Critical



- Economies tend to undersupply human capital to research:

The most obvious reason is that research has positive external effects. An additional design raises the productivity of all future individuals who do research, but because this benefit is nonexcludable, it is not reflected at all in the market price for designs. The second and an equally important reason...is that research produces an input that is purchased by a sector that engages in monopoly pricing. The markup of price over marginal cost forces a wedge between the marginal social product of an input used in this sector and its market compensation," (p.S96)

- Policy implications:

"Within the confines of the model, the social optimum can be achieved by subsidizing the accumulation of A," (p.S97)

"A subsidy to physical capital accumulation may be a very poor substitute for direct subsidies that increase the incentive to undertake research. In the absence of feasible policies that can remove the divergence between the social and private returns to research, a second-best policy would be to subsidize the accumulation of total human capital," (p.S99)

Romer Model Implication II - Trade Liberalization



- A large population is *not* sufficient for greater technology (and thus, economic growth), it requires access to a *larger market* (division of labor)!

If access to a large number of workers or consumers were all that mattered, having a large population would be a good substitute for trade with other nations. The model here suggests that what is important for growth is integration not into an economy with a large number of people but rather into one with a large amount of human capital, (p.S98)

"The most interesting positive implication of the model is that an economy with a larger total stock of human capital will experience faster growth. This finding suggests that free international trade can act to speed up growth. It also suggests a way to understand what it is about developed economies in the twentieth century that permitted rates of growth of income per capita that are unprecedented in human history. The model also suggests that low levels of human capital may help explain why growth is not observed in underdeveloped economies that are closed and why a less developed economy with a very large population can still benefit from economic integration with the rest of the world," (p.S99)

Market Failure in R&D



Joseph Stiglitz

1943—

- Because of their strange public good properties, there is a market failure in the production of ideas and entrepreneurship
- Society underinvests in entrepreneurship and innovation
- Government intervention via well-calibrated industrial policy can fix the market failure

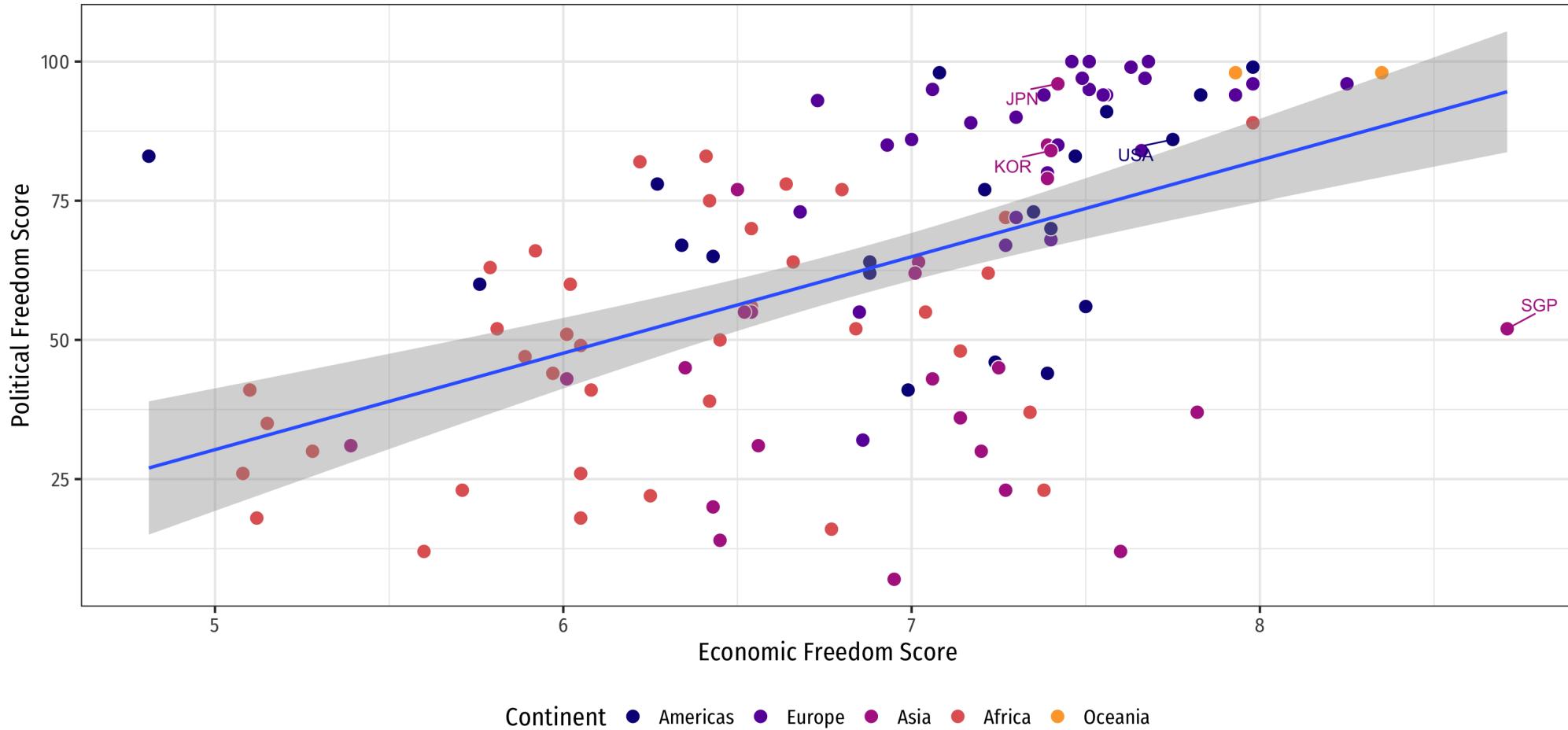
“Industrial policies – in which governments intervene in the allocation of resources among sectors or favor some technologies over others – can help “infant economies” learn. Learning may be more marked in some sectors (such as industrial manufacturing) than in others, and the benefits of that learning, including the institutional development required for success, may spill over to other economic activities,”

Stiglitz, Joseph, and Bruce C. Greenwald, 2014, *Creating a Learning Society*



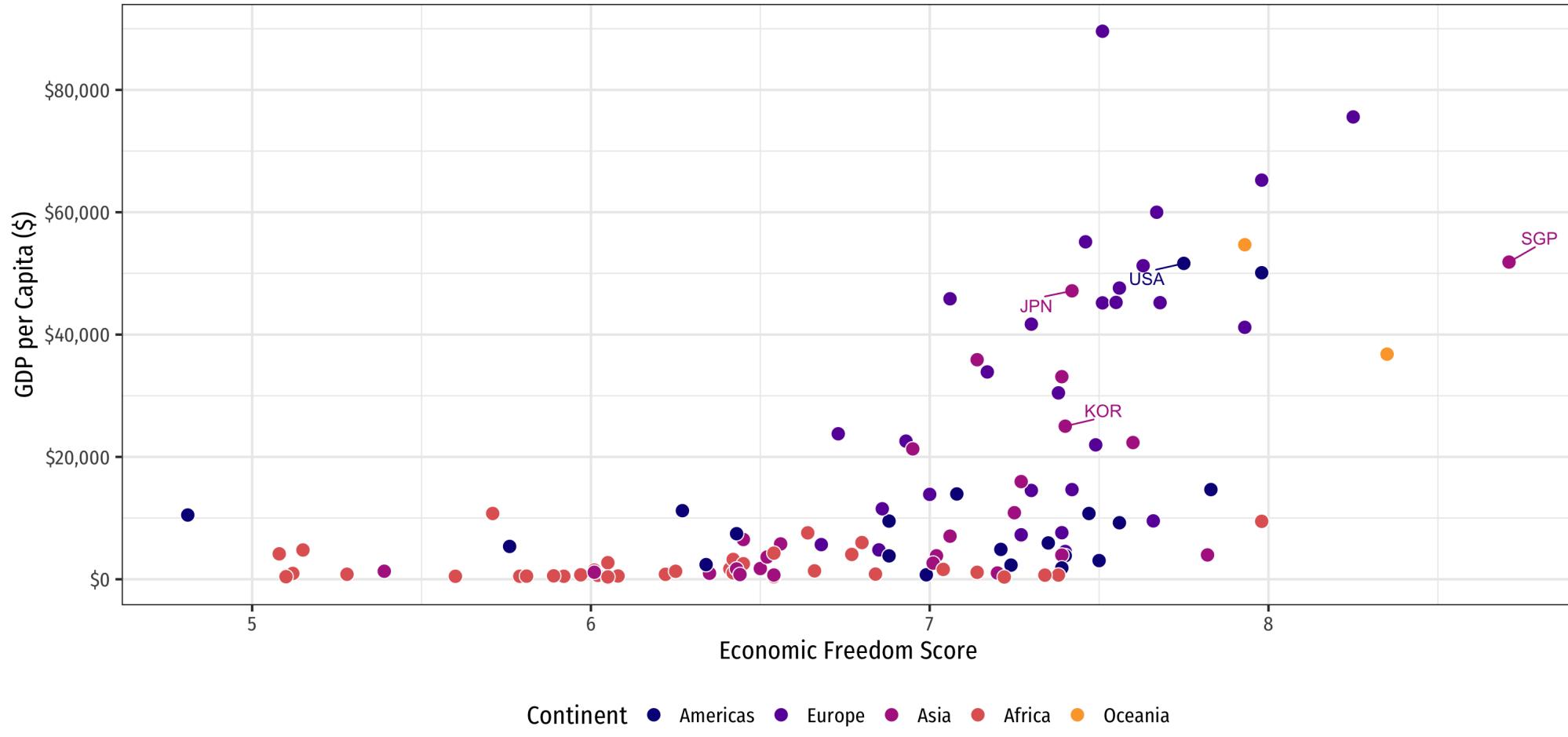
Evidence for Industrial Policy Success?

Political vs. Economic Freedom I

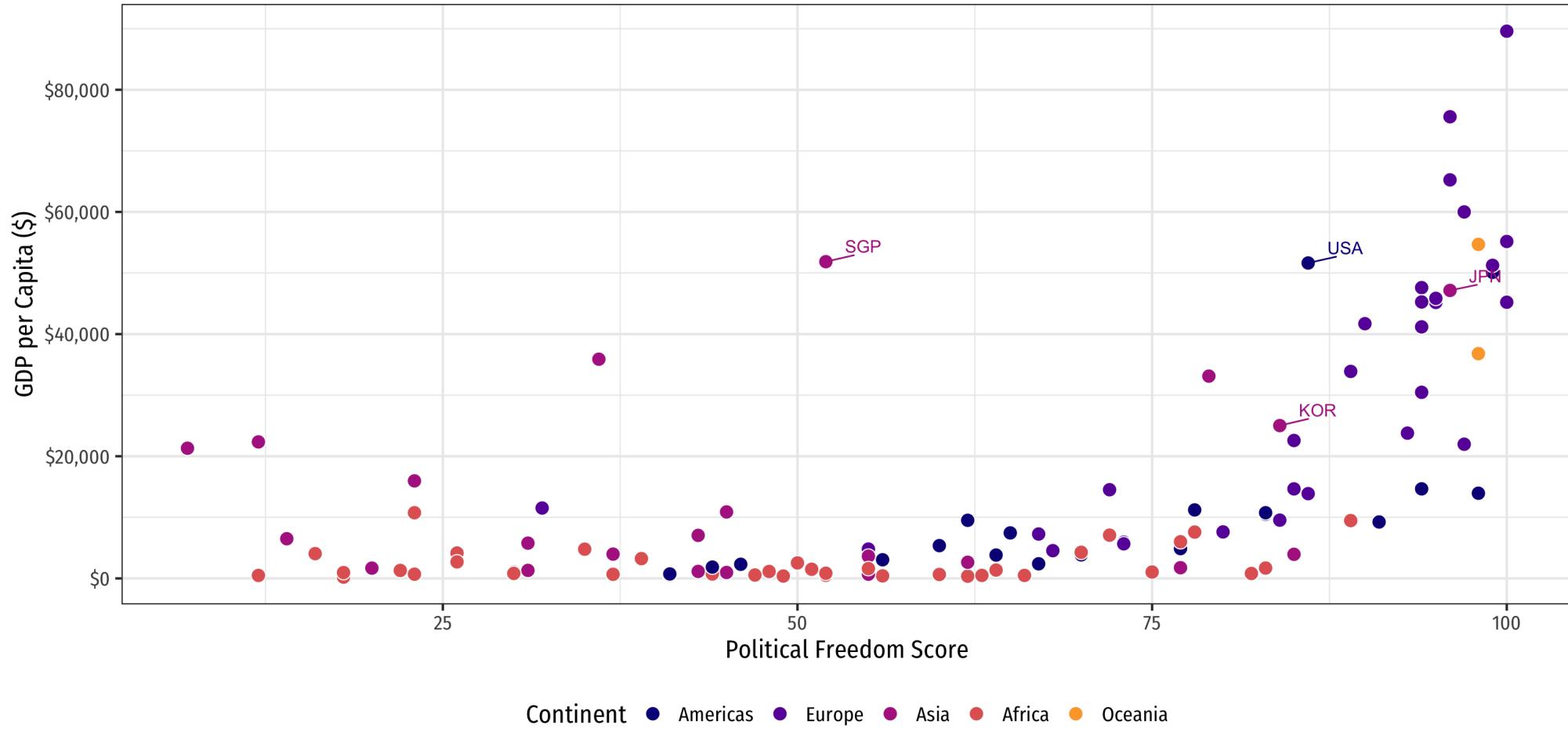


Economic Freedom Score (2016) from Fraser Institute [1], Political Freedom Score from FreedomHouse (2017) [2]

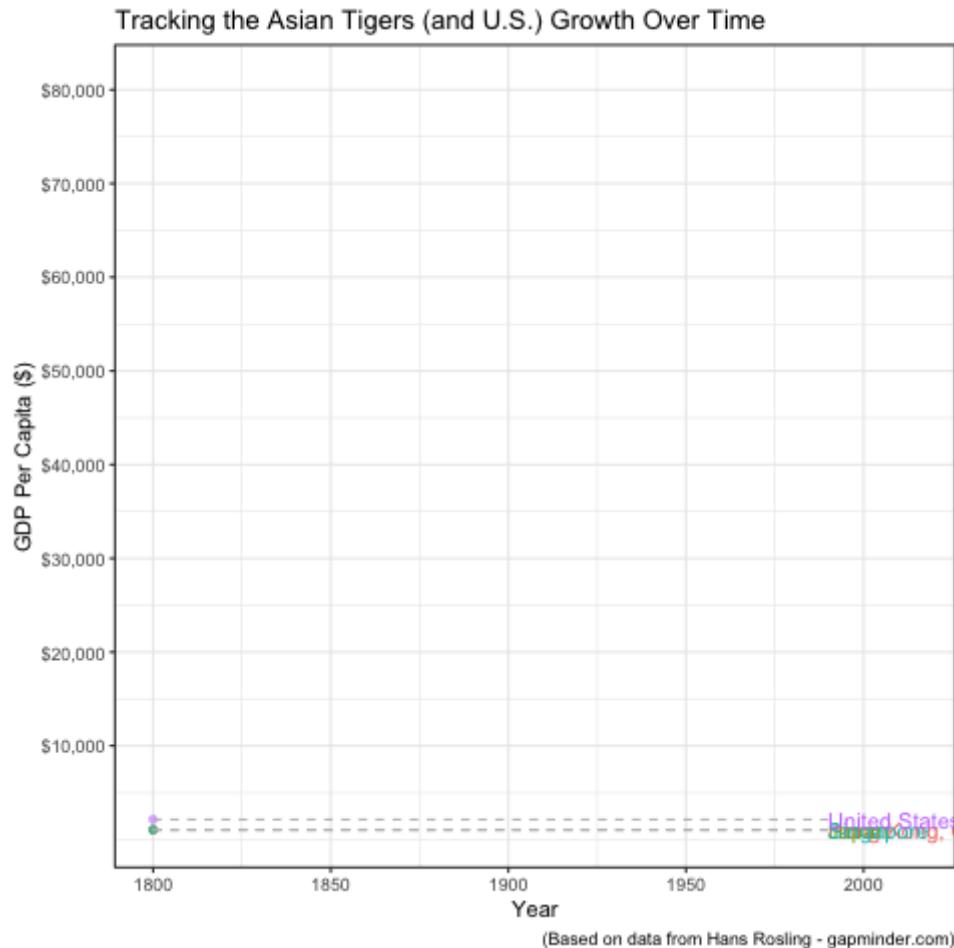
Economic Freedom vs. GDP Per Capita



Political Freedom vs. GDP per Capita



The Rapid Growth of the “Asian Tigers”



South Korea: A Case Study



South Korea: A Case Study



- Korea in 1960: As poor as Africa
- Today: As wealthy as Japan
- Korean War: 1950-1953 devastates country
- Military Coup in 1961, repressive dictatorship until 1979

Park Chung Hee

Ruler/President of South Korea

1961–1979

South Korea: A Case Study



- From 1963-1973: exports grow almost 2,000%
- Government sponsors and protects family-run industrial conglomerates (**“chaebols”**)
 - Primarily shipbuilding (largest in world), manufacturing
- Frequent high-level corruption



South Korea: A Case Study



Another former South Korea president jailed for corruption



South Korean President Lee Myung-bak speaks during a ceremony to mark Korea Armed Forces Day in 2012. (Jung Yeon-je/AFP/Getty Images)

By [Simon Denyer](#) and [Min Joo Kim](#)
October 5

TOKYO — Former South Korea president Lee Myung-bak was sentenced to 15 years in prison on Friday for



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Park Geun-hye: South Korea's ex-leader jailed for 24 years for corruption

① 6 April 2018

f t e m Share



Ms Park was brought to court in May 2017 shortly after her arrest AFP

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CO2 rises for the first time in four years

Global efforts to tackle climate are off track says the UN, as it sees a rise in CO2 after years of decline.

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Trump defends tear gas on Mexico border

① 4 hours ago

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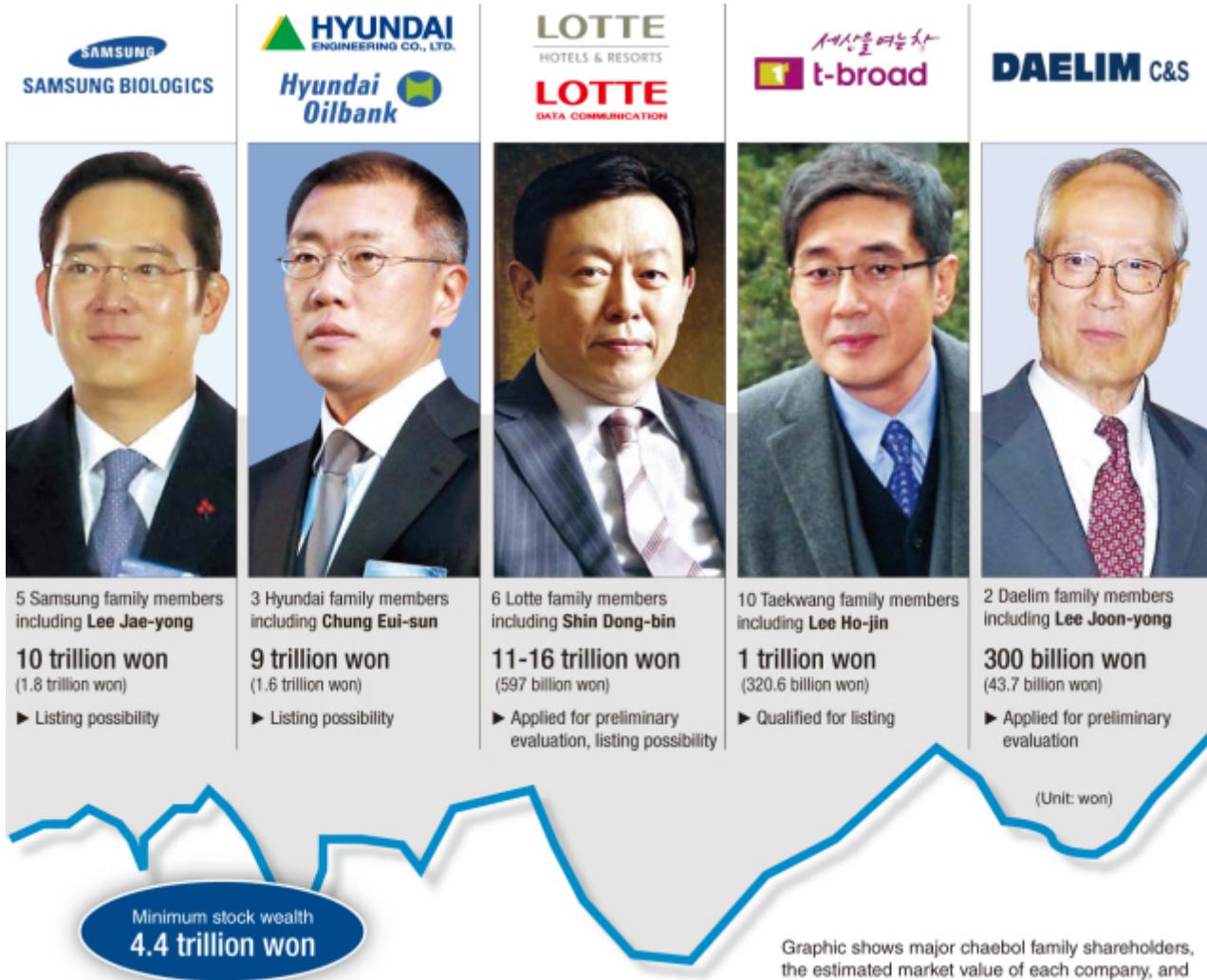
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Source: [BBC](#)

Source: [Washington Post](#)

South Korea: A Case Study



South Korea: A Case Study



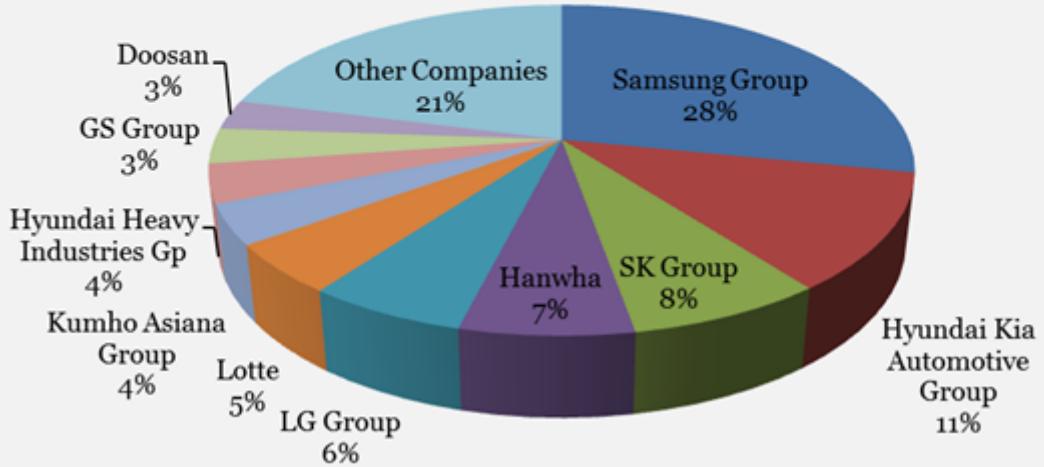
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South Korea: A Case Study



The 10 Largest Chaebols' Share of South Korea's GDP (2011)



South Korea: How Did it Work?



- Change in institutions: land reform for middle class (less for elites), more property rights, (export-oriented) markets
- World class primary education
- Ethic of discipline and hard work
- Rode Japan's 1960s-1970s economic miracle (a nearby lower-wage country for Japanese manufacturing)



Is This Industrial Policy?



- Government was very active in promoting South Korean business and export-focused industries
- Moved **away** from **import-substitution** (the classic industrial policy recipe)!
- Allowed international markets to dictate relative prices (did not try to distort markets)
 - *Chaebols' “export discipline”*: exporting companies expected to compete on their own in world markets
 - Losers that failed the market test were not bailed out, allowed to fail!
- Most policy measures were providing low-interest subsidized loans for exporting companies
 - Amasses large amounts of capital for exporting companies



Is This Industrial Policy?



- Often lead(s) to corruption
 - South Korea ranks 52nd on Transparency International's [Corruption Perceptions Index](#) with a score of 53 (1 is most corrupt, 100 is least corrupt)
 - Ranked near Mauritius, Rwanda, Namibia, Slovakia
 - Comparison: Denmark is 1st (90), Singapore is 7th (84), U.S. is 19th (74)
- Most corruption is usually *growth-blocking* by incumbents and elites
- But in Korea a **growth-promoting corruption!**





Modern Protectionism

What Undergrads Need to Know About Trade



Paul Krugman

1953—

Economics Nobel 2008

“The problem is that **most of what a student is likely to read or hear about international economics is nonsense**. What I want to argue in this paper is that **the most important thing to teach our undergrads about trade is how to detect that nonsense**. That is, our primary mission should be to vaccinate the minds of our undergraduates against the misconceptions that are so predominant in what passes for educated discussion about international trade.”

Krugman, Paul, 1993, “What Do Undergrads Need to Know About Trade?”

Mercantilism Always Lurked in the Background



Tariffs, According to the President of the United States



Donald J. Trump

@realDonaldTrump

Following



Donald J. Trump

@realDonaldTrump

Following

Tariffs are the greatest! Either a country which has treated the United States unfairly on Trade negotiates a fair deal, or it gets hit with Tariffs. It's as simple as that - and everybody's talking! Remember, we are the "piggy bank" that's being robbed. All will be Great!

7:29 AM - 24 Jul 2018

20,852 Retweets 92,362 Likes



When a country (USA) is losing many billions of dollars on trade with virtually every country it does business with, trade wars are good, and easy to win. Example, when we are down \$100 billion with a certain country and they get cute, don't trade anymore-we win big. It's easy!

5:50 AM - 2 Mar 2018

21,405 Retweets 96,736 Likes



The Effects of Trump's Tariffs



Source: [WSJ](#).

The screenshot shows a news article from The Wall Street Journal. At the top, there is a black banner with the text "C3.ai transforms Aerospace & Defense." and a "Learn how" button. Below the banner, the title of the article is displayed: "U.S.-CHINA TARIFFS" followed by "How U.S. and China Tariffs Are Rippling Through U.S. Industries". A subtitle below the main title reads: "Makers of whiskey, cheese, auto parts and more are contending with the U.S.-China tariff battle". The main image of the article features a collage of various products including a barcode, a blue digital scale showing "5.6", a train car, a tire, and shipping containers.

The Effects of Trump's Tariffs



THE WALL STREET JOURNAL wsj.com BUSINESS

Tariffs Didn't Fuel Revival for American Steel

Initial job growth withers as demand and prices sink; older mills face a dim future

U.S. Steel's coke plant in Clairton, Pa. The Trump administration imposed steel tariffs to protect industries vital to national defense.

By Bob Tita and William Mauldin/Photographs by Justin Merriman for The Wall Street Journal
Oct. 28, 2020 5:30 am ET

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PITTSBURGH—President Trump made good on his 2016 campaign pledge to the steel industry, slapping 25% tariffs on foreign-made steel in an effort to revive an industry that once symbolized American manufacturing might.

President Trump made good on his 2016 campaign pledge to the steel industry, slapping 25% tariffs on foreign-made steel...

The tariffs succeeded in pushing down steel imports and—for a short time—resulted in higher prices for domestic steelmakers...

Yet the tariffs haven't produced the steelmaking renaissance and robust job growth in America's industrial heartland that Mr. Trump promised. What's more, the tariffs have hurt U.S. manufacturers, including those in the automotive and appliance sectors, who say the duties on steel and aluminum continue to keep their metal costs higher than what overseas competitors pay.

"The government picked winners and losers here..."

The Effects of Trump's Tariffs



The screenshot shows a news article from The Wall Street Journal. The title is "Tariffs Didn't Fuel Revival for American Steel". Below the title is a subtitle: "Initial job growth withers as demand and prices sink; older mills face a dim future". A large photo of a steel mill with smokestacks is visible in the background. The article is by Bob Tita and William Mauldin, with photographs by Justin Merriman. It was published on Oct. 28, 2020, at 5:30 am ET. The page includes standard news article features like save, share, and text options, and a "Listen to this article" button.

PITTSBURGH—President Trump made good on his 2016 campaign pledge to the steel industry, slapping 25% tariffs on foreign-made steel in an effort to revive an industry that once symbolized American manufacturing might.

With the expanded production, about 6,000 jobs were added to the U.S. steel industry's workforce after tariffs started in 2018, according to the Census Bureau. By the end of 2019, though, those gains evaporated as steel demand and prices sank [but h]igher prices also made steel more expensive for manufacturers that buy it, leading to the loss of about 75,000 U.S. manufacturing jobs, according to a study released late last year by the Federal Reserve Board of Governors.

Who Pays for Tariffs?



Donald J. Trump

@realDonaldTrump · [Follow](#)



....I am a Tariff Man. When people or countries come in to raid the great wealth of our Nation, I want them to pay for the privilege of doing so. It will always be the best way to max out our economic power. We are right now taking in \$billions in Tariffs. MAKE AMERICA RICH AGAIN

10:03 AM · Dec 4, 2018



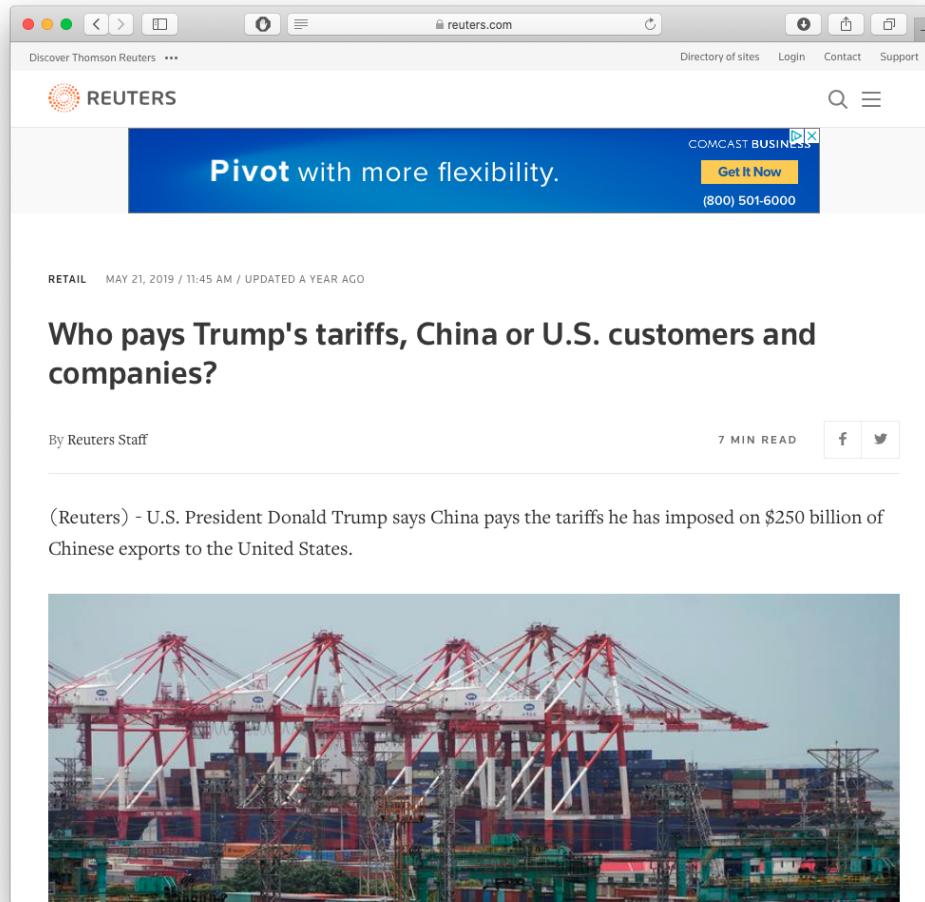
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Who Pays for Tariffs?



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Who pays Trump's tariffs, China or U.S. customers and companies?

By Reuters Staff 7 MIN READ [f](#) [t](#)

(Reuters) - U.S. President Donald Trump says China pays the tariffs he has imposed on \$250 billion of Chinese exports to the United States.



U.S. President Donald Trump says China pays the tariffs he has imposed on \$250 billion of Chinese exports to the United States.

But that is not how tariffs work. China's government and companies in China do not pay tariffs directly. Tariffs are a tax on imports. They are paid by U.S.-registered firms to U.S. customs for the goods they import into the United States.

Importers often pass the costs of tariffs on to customers - manufacturers and consumers in the United States - by raising their prices.

What's The Government Doing with the Tariff Revenue?



Source: [Council on Foreign Relations](#)

cfr | 92 Percent of Trump's China Tariff Proceeds Has Gone to Bail [f](#) [t](#) [r](#) | [q](#)

92 Percent of Trump's China Tariff Proceeds Has Gone to Bail Out Angry Farmers

Blog Post by Benn Steil, Author and Benjamin Della Rocca, Author

October 28, 2020

f t in e p

Where Has Trump's China Tariff Revenue Gone?

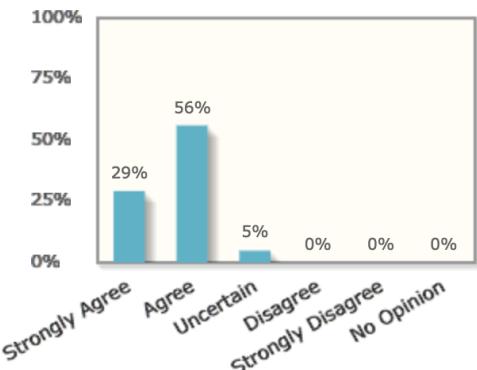
Category	Amount (Billions of Dollars)
Total tariff revenue from 2018-2020	\$65
Relief payments authorized in 2020	\$60

Tariffs, According to Professional Economists



Question A: Free trade improves productive efficiency and offers consumers better choices, and in the long run these gains are much larger than any effects on employment.

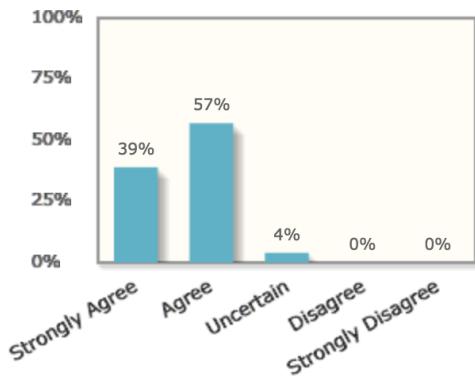
Responses



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Source: IGM Economic Experts Panel
www.igmchicago.org/igm-economic-experts-panel

Responses weighted by each expert's confidence

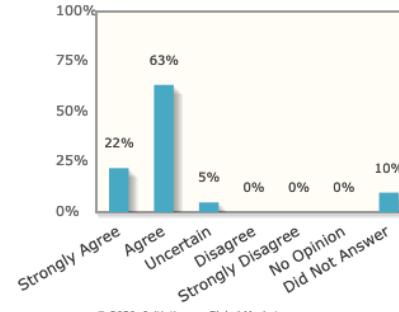


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Source: IGM Economic Experts Panel
www.igmchicago.org/igm-economic-experts-panel

On average, citizens of the U.S. have been better off with the North American Free Trade Agreement than they would have been if the trade rules for the U.S., Canada and Mexico prior to NAFTA had remained in place.

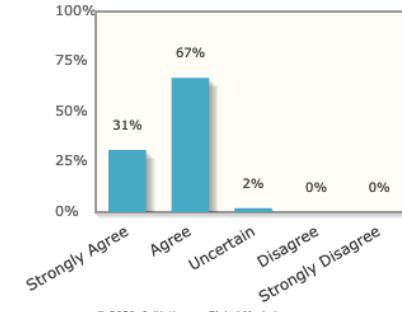
Responses



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Responses weighted by each expert's confidence



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Source: IGM Economic Experts Panel
www.igmchicago.org/igm-economic-experts-panel

Source: [IGA Experts Poll \(2012\)](#).

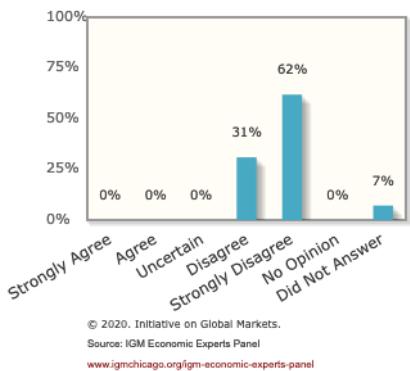
Source: [IGA Experts Poll \(2012\)](#).

Industrial Policy, According Professional to Economists

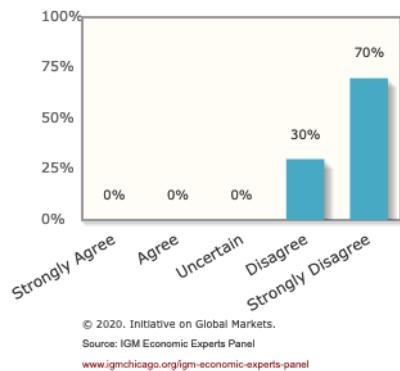


Adding new or higher import duties on products such as air conditioners, cars, and cookies — to encourage producers to make them in the US — would be a good idea.

Responses

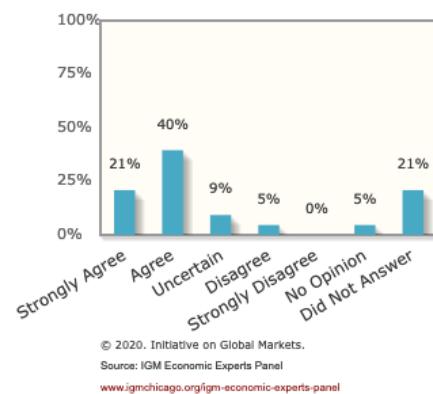


Responses weighted by each expert's confidence

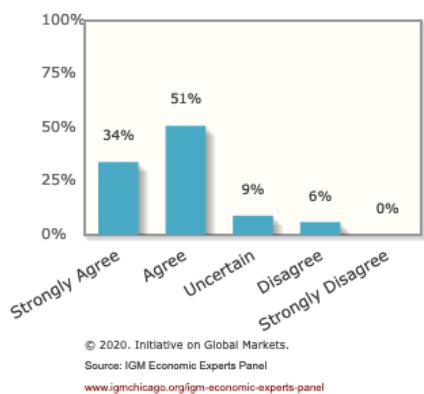


Ideas are nonrival, so increasing returns to scale is an essential feature of technological change in a market economy.

Responses



Responses weighted by each expert's confidence



Source: [IGA Experts Poll \(2016\)](#)

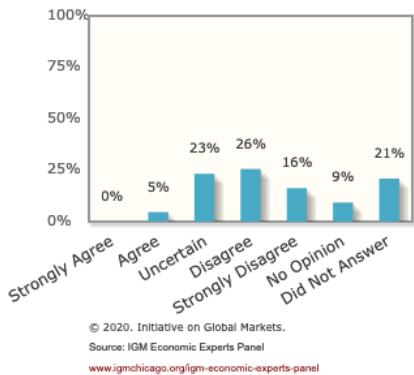
Source: [IGA Experts Poll \(2018\)](#)

Trade Deficits and Trade “Toughness”

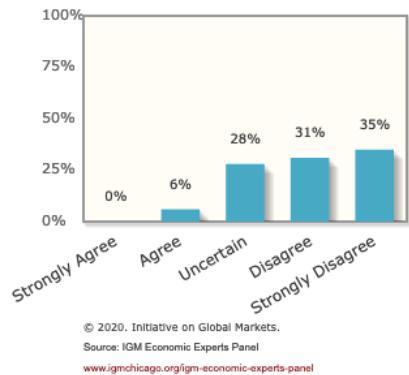


A typical country can increase its citizens' welfare by enacting policies that would increase its trade surplus (or decrease its trade deficit).

Responses

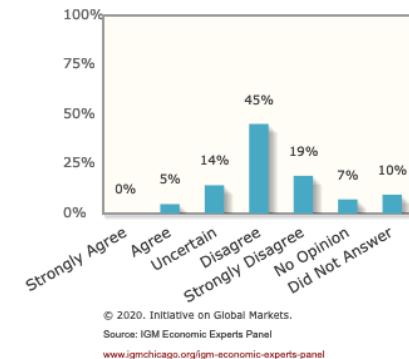


Responses weighted by each expert's confidence

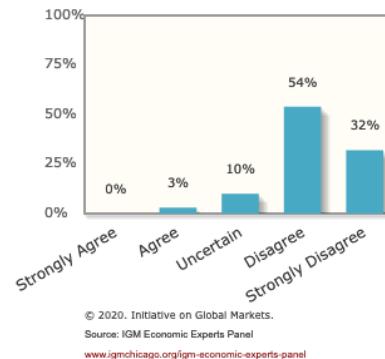


An important reason why many workers in Michigan and Ohio have lost jobs in recent years is because US presidential administrations over the past 30 years have not been tough enough in trade negotiations.

Responses



Responses weighted by each expert's confidence



Source: [IGA Experts Poll \(2014\)](#)

Source: [IGA Experts Poll \(2016\)](#)

So Once Again

