economic history lies. Some might put it in 1076, when the European Investiture Controversy cemented the idea that law

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neutralize the Kremlin's main source of geopolitical leverage. Innovations in technology, method, and organization made it

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swing. There can be no disputing the importance of what these dates represent. But I chose 1870 because it matters even more. It is when the industrial research lab, the modern corporation, and full globalization fell into place. These were the institutions that would supercharge technological progress to the point of doubling the size of the global economy every generation – which is generally what it did from 1870 to 2010.

That unprecedented pace of technological advance

Malthus. No longer would population growth cancel

out productivity gains to keep the world poor.

possible to expand the economic pie so that everyone could have

primarily as a resource-extraction machine by which the elite could

grab "enough" of the insufficiently sized pie for themselves. Instead,

enough. This meant that governance would no longer function

gave humanity the power finally to banish the devil of

should constrain even the most powerful, rather than

being merely a tool at their disposal. Another big year

is 1450, when the arrival of the Gutenberg moveable-

type printing press and the Renaissance set the stage

for the Enlightenment. And then, of course, there is

1770, when the Industrial Revolution really got into

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government and politics could finally be directed toward making a truly human world. The post-1870 technological trajectory rapidly surpassed anything that humanity had previously imagined would be necessary for achieving utopia. With the problem of baking a sufficiently large economic pie having been solved, it seemed that the hard part was over. All humanity had to do next was to figure out how to slice and then taste the pie – that is, how to convert our technological prowess into happy, healthy, safe, and secure lives for all. These problems would be solved even faster, right?

we have collectively been unable to get it right, I would point to four thinkers. The first is the Austrian-born economist Joseph Schumpeter, who explained how modern technology generates immense wealth through a process of

economic pie have consistently flummoxed us. To understand why

In fact, the problems of slicing and tasting the rapidly growing



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creative destruction.

"creative destruction." Technological and economic progress requires that old industries, occupations, and societal patterns be regularly destroyed to make way for new creations. This process can undoubtedly be painful. But it is also why there has been more technological change since 1870 than there was between 6000 BC and 1869. The second thinker is Friedrich Engels, who worked out the Marxist base-superstructure model of political economy (this is, of course, Marx's framework, but I believe it owes more to his collaborator).

important as these things are, they all rest on and must conform to the underlying technological "base" of production. At every moment since 1870, whatever sociological software a society was running would inevitably become obsolete and crash within the space of 50 years, owing to changes in the underlying hardware, which in turn were driven by Schumpeterian

personal networks, sociological patterns, and political,

cultural, and – crucially – economic institutions. As

"Superstructure" describes all of society, with its

unrivaled mechanism for crowdsourcing innovation and mobilizing human brainpower to make the world richer (provided that + property rights are enforced). But Hayek warned that these benefits come at a terrible price: the market cannot be expected to provide any form of social justice. He believed in his bones that any attempt to manage or tweak the

market with such goals in mind not only would fail, but also would

undermine the market's ability to do what it does best. His doctrine

blessed be the name of the market." Anything else would put us on

thus amounted to, "The market giveth, the market taketh away:

The third thinker is another Austrian-born economist, Friedrich von

Hayek. His magnificent insight was that the market economy is an

"the road to serfdom." Finally, the Hungarian economic anthropologist Karl Polanyi saw that Hayek's vision of a market-bestowed utopia was unsustainable by dint of being inhuman. People want a say in how their society's resources are used. They will demand that their – and others' – incomes reach some minimum dignified level, and they will expect a certain degree of stability. People tend to resist the idea that their pattern of life can be singlehandedly destroyed by some rootless profit-maximizing cosmopolite half a world away. For better or worse, that is how people are. If property rights really are the only

rights that matter, politics and society eventually will unravel.

to use our technological prowess to construct an equitable and

happy world. But diagnosis is of course only half the battle (and

All four thinkers enable us to understand why we have been unable

probably less). The task of future generations is to figure out how to become as good at slicing and tasting the economic pie as previous generations were at making it bigger.



Follow J. Bradford DeLong is Professor of Economics at the University of California, Berkeley and a research associate at the National Bureau of Economic Research. He was Deputy Assistant US Treasury Secretary during the Clinton Administration, where he was heavily involved in budget and trade negotiations. His role in designing the bailout of Mexico during the 1994 peso

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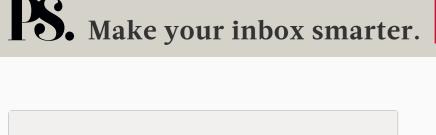
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