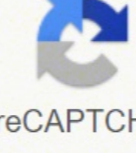


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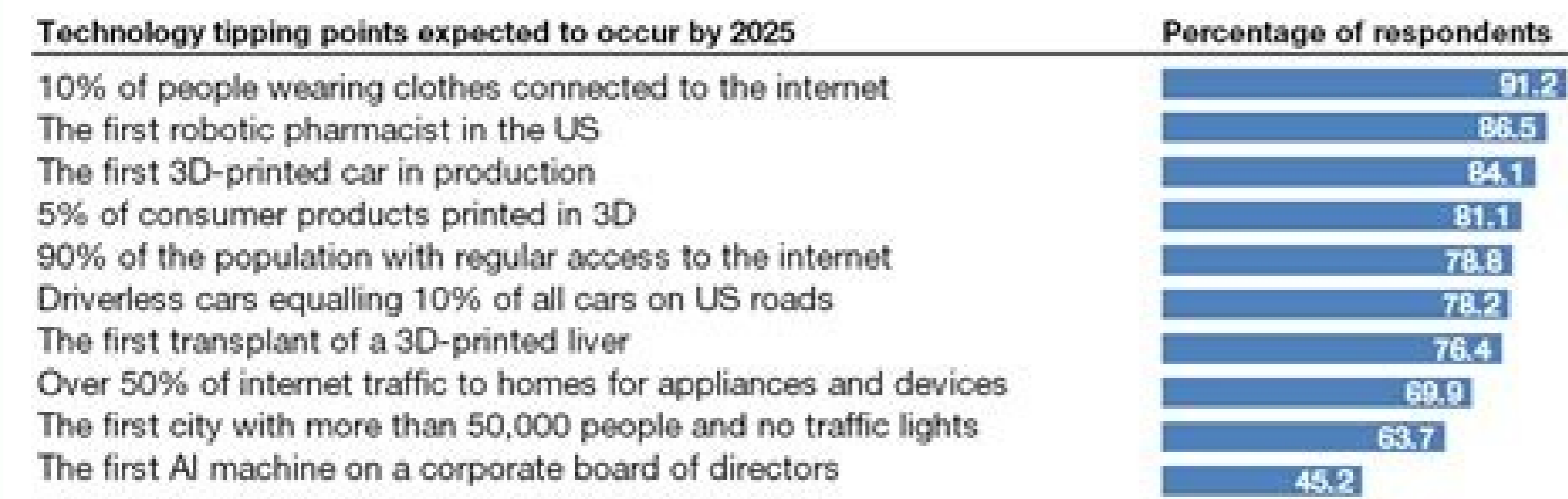
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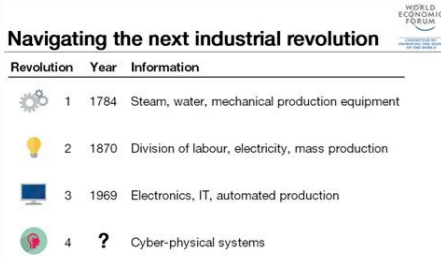


When will the future arrive?

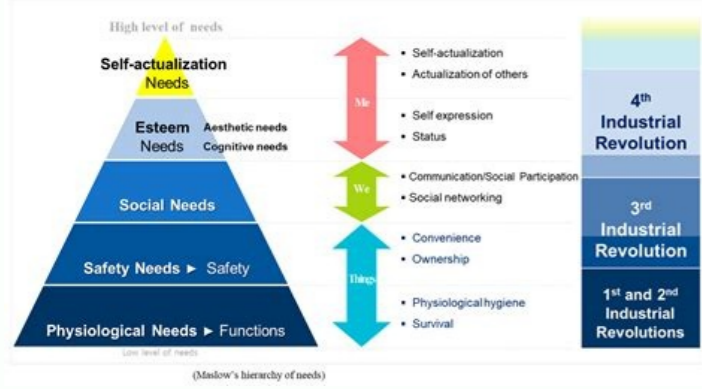
800 technology executives and experts from the information and communications technology sector were surveyed as part of our Technology Tipping Points and Societal Impact report



Source: World Economic Forum, Technology Tipping Points and Societal Impact report, 2015



	Innovation district	Science park
Location	Central	Away from central economic activity, edge of a city
Transport	Multi-modal	Car-oriented
Use	Mix, including living	Mono-functional
Facilities	Great variety	Limited
Events	Wide range	No events or infrequent
Frequency	On a regularly basis	On a regularly basis
Planning	Dynamic	Neutral
Master plan	No master plan	Master plan
Buildings	(Existing) urban environment with the addition of new buildings	New buildings: mostly new
Borders	No specific borders	Clearly bounded
Ownership	Complex: many owners	One owner or a few
Focus	Focus on economic networks and the community	Focus on economic activity, real estate
Coordination	Coordination	Control
Company types	Mix	Often a limited number of large companies
Scale	Small or medium scale, easy to mix with other functions	Small, medium and large companies. Limited risks accepted.



What happened in the 4th industrial revolution. Is the 4th industrial revolution good or bad. Klaus schwab 4th industrial revolution summary. 4th industrial revolution definition. K. schwab 4th industrial revolution. 4th industrial revolution schwab pdf. Charles schwab 4th industrial revolution. Klaus schwab 4th industrial revolution.

But the ability to use artificial intelligence and other technologies to automate tasks in the service industries puts much more categories of work at risk in the future. Unfortunately, enlarged connectivity does not necessarily lead to expanded or more diverse world visions. An ascending bias to skill requirements disproportionately affects larger and lower income cohorts and those who work in the industries more prone to the automation of new technologies. Examples include the editing of the genome, the new forms of intelligence of the machine, the progress materials and the approaches of governance that depend on the cryptographic methods, such as the block of blocks. The future of the forum of the employment report surveyed human resources executives and presents evidence that future jobs will increasingly require more complex problems of resolution of problems, social and systems. Therefore, it is worth spending some time considering exactly what kind of turns we are experiencing and how we could, collectively and individually, guarantee that it believes benefits for the many, instead of the few. Emerging technologies, particularly in the biological field, are also posing new questions about what it means human. In the heart of discussions around emerging technologies, there is a critical and central question: what do we want these technologies to be delivered for us? The third industrial revolution began in the state of 1950 with the development of digital systems, communication and rapid advances in the power of composition, which have allowed new ways to generate, process and share information. The fourth industrial revolution can affect inequality through economies, as well as within them. In the same way, the Industrial Revolution is beginning to emerge at the same time that the third digital revolution is extending and maturing through countries and organizations. Now you will be able to access, pay and enjoy these innovations? The first industrial revolution is widely taken to be Change from our dependence on animals, human effort and biomass as primary sources of energy to the use of fossil fuels and the mechanical power is enabled. Both the third and fourth industrial revolutions are making possible products and services that increase the efficiency and enjoyment of our lives, while reducing costs. If we have the courage to assume the collective responsibility for the ongoing changes, and the ability to work together to raise awareness and shape new narratives, we can undertake the restructuring of our economic, social and political systems to take advantage of the maximum Emerging technologies. It is important that the emerging technologies of the fourth industrial revolution increase diversity and collaborative potential instead of driving polarization. The growing inequality does not affect productivity, mental health and trust, also creates safety concerns for both citizens and states. The second industrial revolution occurred between the late nineteenth-century and the first two decades of the twentieth century, and brought great progress in the form of electricity distribution, both wireless and cable communication, the synthesis of ammonia and new forms of Generation of energy. And there are not only the options of researchers, the inventors and designers who develop the underlying technologies that matter, but more important those of investors, consumers, regulators and citizens adopt and use these technologies in daily life. Each period of disorder has winners and losers. Are the technologies that surround us the tools we can identify, understand and use consciously to improve our lives? This is an impressive gap, especially given that researchers like Richard Wilkinson and Kate Pickett Han that unequal societies tend to be more violent, have a greater number of people in prison, they experience higher levels of mental illness and have lower life tests and Trust levels. The objective of this reflection is naturally to ensure that emerging technologies and the fourth industrial revolution improve life in a wide and significant way possible. The complexity of these technologies and their emerging nature makes many aspects of the fourth industrial revolution feel unknown and, for many, threatening. The story indicates that consumers tend to earn a lot of industrial revolutions as the cost of goods fall, while quality increases, and it seems that this is holding true for the last. The fourth industrial revolution is the first in which technology tools can be literally embedded within us and even change to propose, we are at the level of our genetic makeup. In addition, the domain of digital platforms, given its power, influence and profitability, is responsible for many, including the European Commission. Already, the digital media are becoming more and more the main driver of our individual and collective structure of society and the community, which connects people to individuals and groups of new ways, fostering friendships and the Creation of new groups of interest. All industrial revolutions create and destroy jobs, but unfortunately there is evidence that new industries are creating relatively fewer positions than in the past. According to the CALL Benedict Frey calculations of the Oxford Martin program on technology and employment, only 0.5% of the US workforce UU is used today in the industries that did not exist at the beginning of the 21st century, a Percentage much less than about 8.2% of the new jobs created in new industries during the 1980s and 4.4% of the new jobs created during the 1990s. The fourth industrial revolution can be described as the arrival of the "physical-physical systems" that involve totally new capacities for people and machines. As the United Nations lasted in 2013, more people in the world have access to a mobile phone. Mobile Basic sanitation. When were the other industrial revolutions? Previews of load, the preview is currently not available. Perhaps the most discussed inequality driver is the potential of the fourth industrial revolution to increase unemployment. You can download the paper by clicking on the button above. As Schwab expresses: "The benefits of technology for all those who consume are incontrovertible". But, and if these benefits do not materially contribute to broad-based economic growth? Unemployment due to automation has in the past concentrated in sectors that mainly employ men, such as manufacturing and construction. As Schwab writes: "The new age of technology, if it is formed responsibly and responsibly, could catalyze a new cultural rebirth that allows us to feel part of something much bigger than we", a true global civilization ". We can use the fourth industrial revolution to raise humanity to a new collective and moral awareness based on a sense of shared destination. The phenomenon of "brochures" could have a particularly negative effect on the less developed economies. Beginning to industrialize Measure that they are integrated into the global economy. However, greater chances could arise from taking interested parties together in new ways of discussing the future of technology and society. These include jobs that are the source of livelihoods. Many young descent workers and mid-class women around the world, including call roles, retailers and administrative you go. On the border of emerging military technologies are those that interact directly with the human brain to increase or even control soldiers. Changes in employment and skills can also increase the inequality of Identity, voice and community in addition to concerns about the growing inequality and threatened security, the fourth industrial revolution will also affect us as individuals and members of communities. A % of the technologies that promote the fourth industrial revolution and the amplitude of its impact means that all interested parties groups to work together in innovative governance approaches. The quick diffusion of digital infrastructure thanks to the third industrial revolution means that during the fourth industrial revolution, cyberspace is now as strategic as a theater of commitment such as land, sea and air. In addition, the strategic space for the conflict is changing. "The brain is the next battle space." These security fears are increasingly increasing that a dual-use proliferation available for a wider range of actors makes it much more difficult to put international agreements and standards to support. The peaceful resolution of conflicts. As Schwab puts it, "so any future conflict among reasonably advanced actors can or can not play in the physical world, as likely to include a cyber-dimension simply because no modern opponents would resist the temptation of interrupting, confusing or destroys sensors, communications and decision-making capacity of your enemy. The technologies of the fourth industrial revolution also offer expanded capabilities for the war of books, which are becoming more accessible For state and non-state actors, such as drones, autonomous weapons, nanomaterials, biological weapons and biochemics, portable devices and distributed energy sources. The fourth industrial revolution can be seen and feel like an exurgente force with the power of a Tsunami, but in reality, it is a reflection of our desires and options. And the technologies and systems involved in this last Signif Revolution I can that individuals and groups could win "or lose" a lot. The Global Risk Report of the Forum It emphasizes that a hyper-connected world, when combined with the growing inequality, could lead to fragmentation, segregation and social discomfort. Therefore, we must remember that all industrial revolutions are are Driven by individual and collective options of people. In addition, such connections transcend many traditional limits of interaction. In addition, controversial or anti-establishment opinions can be undermined more by states and other actors willing to use new technologies and platforms to restrict speech citizens and harassing, as detailed in the risk report Global forum 2016. What is the potential impact? ? As Andrew Maynard is signs of the risk innovation laboratory, we should learn from, implement and extend reflective approaches to address the intersection of technology and society, such as early governance and responsible innovation, supporting generalized reflection on development, the marketing and the diffusion of the current, and emerging technologies. Even these are not limited to government military programs. Transport organization, restaurant reservations, grocery shopping and other goods, making payments, listening music, reading of books or watching films: These tasks can now be done instantly, at any time and almost anywhere. Or are they more than that: powerful objects and enablers that influence our perception of the world, change our behavior and affect what it means to be human? A difficult task in fact. As Erik Brynjolfsson and Andrew McAfee sign on the second era of the machine, the digital platforms connected worldwide tend to grant rewards subjected to a small number of products and star services, which in turn can be Deliver to almost zero marginal cost. Paradoxically, the dynamics of the use of social networks can serve to reduce the available news sources. While these capacities depend on the technologies and infrastructure of the third industrial revolution, the fourth Industrial represents completely new ways in which technology is incruited within societies and even our human bodies. 3. The most rich one of the population now has half the wealth of the home, home, To accredit the Global Wealth Report of SUISSE 2015, Martin Nowak, Professor of Mathematics and Biology at Harvard University, stated that cooperation is "the only thing that will redeem humanity." As Schwab says: "There has never been a moment of greatest promise, nor one of the greatest potential dangers." Although the fact that we are still at the beginning of this revolution, it means that it is impossible to know the precise impact on different groups, there are three great areas of concern: inequality, security and identity. In particular, the increasing flexibility of capital in the form of robots and other advanced manufacturing systems can erode the comparative advantage as many emerging and developing countries, which focus on intensive goods and services in labor. "It is not a matter of whether non-state actors will use some form of neuroscientific techniques or technologies, but when, and when they will use," he argues James Giordano, from the Medical Center at Georgetown University . It is completely conceivable that the forms of radical human improvement will be available within a generation, the innovations that risk creating totally new forms of inequality and class conflict. As the Novelist William Gibson said famously: "The future is already here, it is simply distributed very uniformly." In fact, in many parts of the world aspects of the second and third industrial revolutions, they have not been experienced, complicated by the fact that new technologies can, in some cases, capable of $\hat{A} \epsilon \rightarrow \hat{a}$ "old leapfrog $\rightarrow \hat{A}$. The combination of the digital world with emerging technologies is creating new $\hat{A} \epsilon \rightarrow \hat{a}$ "battlespaces", expanding access to lethal technologies and rather difficult to govern and negotiate among States to guarantee peace. The challenge Safety of the fourth industrial revolution will be a coordination of a great of potentially lethal potentially private and private sector actors. Contexts The investigation shows that in 2013, 14 of the 30 main brands were the platform-oriented companies. This combination of factors creates the conditions for violent extremism and other security threats authorized by the change of energy to non-state actors. The new Oxfam report presents a higher concentration of assets, discovering that 62 individuals controlled more assets than the most poor of 3.6 billion people, half of the population of the world. An important potential driver of greater inequality is our dependence on digital markets. In addition, the type of work that is being created in these industries tends to demand higher levels of education and specialized study, while those that are being destroyed involve physical or routine tasks. Technologies are emerging and affecting our lives so that they indicate that we are at the beginning of a fourth industrial revolution, a new era that builds and extends the impact of digitization of new and non-advanced forms. shapes.

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