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Consequences happen because of actions that are taken. They can either be good, or bad, or intended or unintended. An example of this is technology. Whenever a new technology is created, there are many consequences. They can help the economy grow, or shrink. It can cause people to group up and talk to each other, or it can distance people. No matter what the consequences are or how much you think you can't foresee them all. That is what technology does that changes so many things, and that is what you will read about. 3 different technologies, one from the past, one from the present, and one from the future.

As for the technology from the past it is the light bulb. The lightbulb was created for the purpose of light. It was meant to be a replacement to lanterns that were used at that time. Created in 1879 by Thomas Edison. Of course its most basic purpose was to give off light. It would be more effective than the technology that was currently being used. Since it would give off more light, at a farther distance, more consistency, longer lasting, and higher quality.

Besides the light it supplied, it helped shape the user incredibly. Since now there was a more consistent source of light, and higher quality. It allowed the users of the light bulb the chance to do more activities at night. For example, now people could study at night to practice other educational orientations. Another is allowing people who work at night as well. With the

invention of the light bulb it allowed people to take night shifts, and work longer hours. Another, but not the last is allowing places that do not get a major source of light to now get light. For example large buildings would need to have multiple lanterns, and other sources of light but now you could have 2 in one room and supply the whole room with enough light, and for a longer time.

Because of the increase of people able to work and do other things. This also helped skyrocket the economy. Because of the more people working and more hours that now opened up, many companies could now stay open full time. As stated in "Lighting the Industrial Revolution" line 35-36. During the Victorian era more companies wanted to have 24 hour factories, to maximize profit. With the more workable hours now this also led to an increase in the creation of many factories, and other businesses. Which of course also leads to more work for many people who may have needed it.

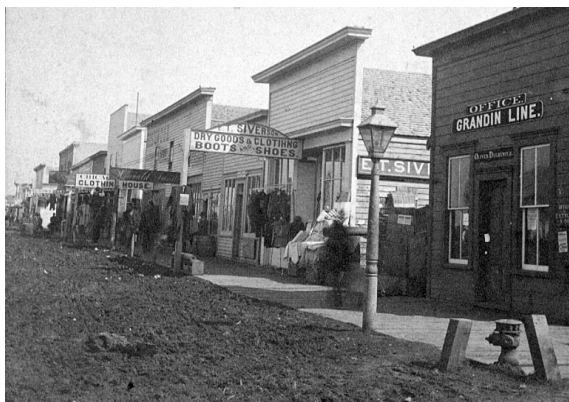
Beside the increase of factories, and business it also helped shape the culture and society as well. With the accessibility of more light this leads to a night life in many places. Now people could stay late and drink with friends, or just go to places that seemed dangerous. Since often many people are afraid of what they can't see. However now with the streets light up, this leads to people now wandering the streets more at night.

Although these consequences were expected many also came because they were not. Many came because of innovation. For example now it shapes the user where people became more reliant on the light bulb. For example when it was created it was not expected that it would

lead to better light bulbs. But after they were improved and used for flashlights, television, and other new inventions and innovations because of the light bulb.

Not only that but it shaped the workplace more as well. Now with a consistent source of light, people would open new businesses that would work only at night or a majority at night. Such as bars and, and taverns. This led to the creation of places where you could come to spend the night rather than having to go home, or carry a lantern everywhere. This also helped shape the market. With light being so accessible now and factories using them, it started to lead to a new era. One of industrialization. Now factories could begin the process of mass production of clothing, technology, books, and other resources.

This would then lead to society changing more and more. Now with the increase reliant on electricity, it sparked change to how people lived. Now that people were using electricity for lighting, people started to think why not use it for heating, or cooling, or transportation. Which is why in many pictures residential areas now looked more like cities rather than small towns.



As you can

see from these images there was a major change to society and the living condition of many people.

Now that we have talked about a technology from the past, what about one from the present. Well the one i am going to talk about is phones. More specifically smartphones, like the iphones when it first released in 2007. How it shaped the world and how it plays a role in life everyday.

The purpose of the iphone was to be a phone but also a stated by steve job in “iPhone 1 - Steve Jobs MacWorld keynote in 2007 - Full Presentation, 80 mins”, the iphone is a combination of a phone, a mp3 player, other devices like a calculator, and much more. So its intended purpose was to put many devices into one and in everyone's hands. And that is exactly what it did.

With the invention of the iphone it shaped many people. Since it was one of a kind at the time and a large innovation to old phones. Now people who used the iphone had so much information at their disposal. Since the iphone could connect to google, youtube and other networks it led to the spread of information to many people and furthered a lot of people's education. Not only that it also came with many apps that would help people communicate with each other. Now there were apps like whatsapp, discord, facebook all in your pockets so it led to the communication of people whenever they wanted. Not only that, it also helped people get in contact with people that they would not usually.

Which also helped shape the work people did. Because of how easy communication became between people, work could now be done with people from across the country or people who were sick home. Not only that, the audience also changed a lot because of smartphones.

Now people rather than using computers to browse the web now they use their phones at all times. Whether they were on the train, in the car, or in the streets. Not only that but because of the ease that smartphones brought it also led to a boom in the marketplace. Now jobs could be done also on your phone. And it leads to a speed up in companies' deals, and other transactions.

It also changed the society we live in a lot as well. Now everyone has a phone. Because of this communication between people has become so much easier, and leads to a new age. One in which everyone has a voice and access to so much information. This led to phones becoming part of our culture, and without them our world would essentially not work.

However many of the consequences that came from phones were also unseen. Since how big smartphones have become it is only expected that many things would come from it that were unseen.

For example, initially phones were invented to call people and talk to them. However now they are used a lot for games. Since they released the app store and let people make apps. Many of the apps now made are games. So the intended purpose of the phone has changed vastly. Not only that but now many people buy phones not to even call, rather to have a small computer in their pockets, so that they can look at videos, memes, play games, rather than make call a get in contact with people.

Now many people have become addicted to phones as well. Since it is so versatile and has so much to do on it, many people would rather use smart phones all the time than do other

things. Such as workout, make new friends, go outside and play with friends, even go to classes in some cases. In “smartphone addiction” in the paragraph “Increasing loneliness and depression” it stated that depression and hopelessness have drastically increased since 2014. Even though the first smartphone came out in 2007. It was less common to see people have them, and did not have as many uses with them, compared to now. However as they continue to improve them now people are addicted to their phones and it results in increased mental health problems for many people.

Because of how phones have managed to hook many people, work done by many people has also suffered. According to Dock Treece in the passage “Employees wasting time using cell phones at work” more than 2 hours a day is spent by people using their phones during work hours. Because of this problem many companies are suffering losses in profit because of people using their work time on their phones rather than doing their jobs.

However not all the unintended consequences have been negative. A major positive is the increase in the marketplace. Since communication had become so easy many new apps also opened that lead to new business also opening. Many examples can be found wherever you look. Now amazon has become the first ever trillion dollar company, facebook, also has their own market. But it is not only limited to major companies as well. Many small businesses have now started to use phones to advertise many of their stores, and individuals have also used phones to spread their new business idea and start new companies as well.

Smartphones have vastly shaped our culture because of how easy they make life. However this level of dependence was not expected. Because now you see children less than 10 years old having phones and raging when they lose their phones or when they don't get the new model of the iPhone, or Android that came out. Sadly it has made many people worship their phones and hold it in such high regard more than even essential things, and many cell phones essential as well.

As for a technology from the future, the one I am going to talk about is 3D printing. Many people already know about 3D printing. It is the process of printing objects that are 3-dimensional in shape. However many people do not know how it works, or how it can be incorporated into many fields of life. It works because they use plastic that is heated and poured out in a pattern until the model that you have to make beforehand on a computer is completely replicated. According to Tony Hoffman, in "3D Printing: What You Need to Know" the first one was created in the 1980s.

Even though this was created in the 1980s, the reason it is a technology from the future is because it is still being improved and in the future will be used more. In the past it was only created for experiments to test it. Now it is used for companies and used by people who own them for printing materials that they might need like cases, or boxes, or things for their own enjoyment. However in the future it will be used to make innovations for the betterment of humanity. Scientists can then use it for amputees, mass production for medicine, other technology, and others.

For work it will speed the process of creating new items. Now instead of making cars out of metal, and spending multiple hours making them, and shaping metal, now cars can be made out of plastic because of 3D printing. Which only takes a couple of hours at this time but with the continued increase, and development done on them 3D printers are only becoming better and faster. What would take a day to print can now be done in about 12 hours, then 8, then 4 and eventually take only a few minutes.

This will also help many people because it will lower the price for many products. For example, amputees have to pay a lot of money for their prosthetics. According to Lucie Gaget, in “3D printed prosthetics: Meet the real revolution” in the passage named “Millie: the first-ever...” personal prosthetics can cost up to \$10,000. However, thanks to AutoCAD, a 3D modeling program, people can now make cheap prosthetics at home after practice. Not only that but you will also still have a 3D printer so you can still use it for other items.

Not only that but it will help people in their culture. Since now you can make so many supplies for cheap. This way people who struggle to buy sustain supplies can now afford them by making one time purchases. The purchase will not also be horrible since there are many different types of printers. You can find one for a couple hundred or couple thousands, whatever is in your budget.

There are also many things that will come that people do not expect at first. With new technology being announced people often think about the best. However there will also be many problems. This is because people can use a 3D printer by using it to make dangerous items. Such

as plastic guns, and weapons that can be taken through metal detectors. According to the video “How dangerous are 3D-printed guns?” models for 3D guns can be downloaded from the internet with just 3 clicks. This can lead to major problems because people can then bypass background checks and get guns in the hands of criminals.

Another unintended consequence that can come from it is that people can become reliant on 3D printers. Similar to phones, if 3D printers become commonplace in many homes, because cheaper ones come out, and you can buy them from the internet. People will start to rely on them too much. Instead of the printer becoming a common place and making life similar, it can ruin many lives because of what people might do with them, or how they use it.

In terms of how it will affect work it will most likely speed it up, and open many new jobs as well. Since a 3D printer can only print because of a 3D model. According to Eduardo Vasconcellos, in “9 Cool 3D Printing Jobs” people from architects, to educators, to legal professionals can use it. Because of this new jobs will open up in each of these professions. Because of the new jobs the marketplace will also increase. Now the prices of many items will decrease but also because of this many more people will buy more items.

One major thing that will come from 3D printers is that there will be new laws. For example, if individuals start to use 3D printers to start making their own inventions instead of buying from companies. Many companies will also start to make claims that it is wrong and dangerous for people to print replacements for their merchandise. So a 3D printer will also come under restrictions.

In conclusion, there are many new inventions that are created throughout history, and future history. But there will come problems and benefits that are both expected and unexpected. Our job is however to expect all the problems and come up with solutions and use it for the better.

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