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Telephone evolvement Impacts Communication throughout History

The first telephone was invented in 1876–1877. This is a major invention that drastically did change over time because it is the first telephone which led to easier communications in long distance. The founders of the telephone were Alexander Graham Bell and Elisha Gray and they got the telephone later on to be patented. The telephone developed over time because it went from being a thing in which you can only have in your house to a handheld device. This topic influenced history by helping business, making life easier, and saving money from traveling far places to talk to each other. The telephone's time period influenced history because overtime the telephone evolved to help business grow, saving money of people from traveling, and it was distributed to the entire nation.

A source that I used for this paper is “The invention of the telephone” and it talks about how the telephone made lives easier. “Alexander Graham Bell, one year younger than Lars Magnus Ericsson, had been born in Edinburgh. Bell's interest in telephony came through his mother, who was deaf, and his father, Alexander Melville Bell, who was a teacher of elocution, famous for the phonetic transcription system he had developed to help the deaf learn to speak (and which he described in a book entitled Visible Speech).” This proves that the telephone had a phonetic transcription system that made deaf people learn to speak. “One salient fact was that Bell saw no need to take out patents for the telephone in the Nordic countries. This meant that anyone anywhere there was free to manufacture and sell telephones.” The usage of telephones nationwide made long distance communication easier. “Dagens Nyheter became the first newspaper to refer to “the speaking telegraph”, an apparatus that “plainly and clearly conveyed

the words uttered at one end of the telegraph line to the other”. The patent for the telephone led to the distribution of telephones to every household which led to people not having to worry about communication with someone very far away.

The second source is going to be “ History of the telephone” and it talks about how the telephone affected businesses in a very beneficial way. “Although telephones devices were in use before the invention of the telephone exchange, their success and economical operation would have been impossible with the schema and structure of the contemporary telegraph systems.” Because of the telegraph systems businesses profits skyrocketed if businesses just went with their regular schema it would've been impossible for them to succeed. “A telephone exchange provides telephone service for a small area. Either manually by operators, or automatically by machine switching equipment, it interconnects individual subscriber lines for calls made between them. This made it possible for subscribers to call each other at homes, businesses, or public spaces. These made telephony an available and comfortable communication tool for many purposes, and it gave the impetus for the creation of a new industrial sector.” This proves that telephone exchange helped business because it made it so people can talk to each other from their houses instead of physically going to the business which a lot of people felt comfortable communicating this way. “The District Telephone Company of New Haven went into operation with only twenty-one subscribers, who paid \$1.50 per month. By 21 February 1878, however, when the first telephone directory was published by the company, fifty subscribers were listed. Most of these were businesses and listings such as physicians, the police, and the post office; only eleven residences were listed, four of which were for persons associated with the company.” This shows that when just the directory of the first telephone was created more people subscribed. This means that the business made more money based on the directory and commercial of the telephone.

The source that I will be using for this is “Telephone” this talks about how they used the modern telephone to find historical development of the telephone instrument. “Advances in electronics have improved the performance of the basic design, and they also have allowed the introduction of a number of “smart” features such as automatic redialing, call-number identification, wireless transmission, and visual data display.” The first telephone has been improved by modern day technology by the different unique features such as no mistakes in dialing, adding phone numbers, not needing wires so you can carry it and adding a display. “Since the invention of the transistor in 1947, metal wiring and other heavy hardware have been replaced by lightweight and compact microcircuitry.” The telephone instrument improved the first telephone by taking out hard unnecessary parts of the telephone and replacing it with less weight and better parts.

“Working with a young machinist, Thomas Augustus Watson, Bell had two such instruments constructed in June 1875. The device was tested on June 3, 1875, and, although no intelligible words were transmitted, “speechlike” sounds were heard at the receiving end.” Bell was working with a machinist called Thomas Augustus Watson so he could help him with the sound on the first telephone. When they were working together to build the sound on the telephone Bell had made two parts that would help with the sound after it was built they decided to test it out and it wasn't really that successful because you couldn't still hear the sound but you can hear a little mumbling. “Designed for wall mounting, this instrument consisted of a ringer, a hand-cranked magneto, a hand receiver, a switch hook, and a transmitter.” This is how they improved the telephone because the earlier models used less equipment that made the audio quality not understandable. They made a wall mount and put a ringer and magnets and a hand receiver and a switch look and a transmitter which helped which made the audio quality of the instrument better so everyone can hear each other when talking on the phone.

The source that I will be using for this is “How the Telephone Was Invented” and this talks about how the telephone blew up and became available to everyone. “ By the end of 1880, there were over 49,000 telephones in the United States.” Companies have made over 49,000 phones during this time which is good because more people started to buy the phones which made business make more money. “The following year, telephone service between Boston and Providence, Rhode Island, had been established.” The telephone became more available to everyone especially in the states because there’s more supply and demand. “Service between New York and Chicago started in 1892 and between New York and Boston in 1894.

Transcontinental service began in 1915.” This is when services between different states and countries started being able to have access to talk to each other. This is good because this means there won't be long distance traveling to talk to each other pretty soon. “In 1889, the coin-operated telephone was patented by William Gray of Hartford, Connecticut.” This is a big invention that made the telephone more available to everyone. Although it required people to pay to talk to each other this was the first step into making the telephone popular. “By the time the first phone booths were installed in 1905, there were about 2.2 million phones; ” This is how that was the first step into making the telephone more popular and available to everyone. After the coin operated telephone they created phone booths which were set up everywhere you can still find some phone booths today too because of that there were 2.2 million telephones made in 1905. “ by 1980, there were more than 175 million.” because they decided to continue making the telephone by 1980 there were over 175 million of those. Looking back honestly I would've

never expected 175 million by this point the amount of work and improvement they did on the telephone shows how they know that this is truly a life changing thing in history.

The source that I will be using for this is “The Evolution of the Telephone” and this talks about how business started improving on the telephone. “the first phone with the ability to dial a number was invented in 1905. Almon B. Strowger is credited with creating the first rotary phone.” This is a huge improvement on the telephone because this made it easier for people to talk to each other because now people have numbers on their phones and all you have to do is put it in and you can talk. “Eliminating the need for switchboards and operators.” Because the dial in numbers was invented you didn't need switchboards and operators which downgraded the telephone. “Advancements like touch tone dialing and cordless phones are growing more commonplace in the 1970s.” After that stuff like touch tone dialing and cordless phones were made which is essentially easier to carry around. Touch tone dialing means that you can dial the number by pressing the numbers you want to dial. Cordless phone means you don't need a cord to speak with people so you can speak to people anywhere around the house instead of having to sit in one spot talking you can do multiple things while talking. “AT&T began experimenting with a telephone that could transmit images during a call. It was deemed too bulky and expensive but laid the groundwork for what would eventually become video calls and text messages.” This shows how business are improving on the telephone because AT&T is one of the most famous phone companies out there is improvising the telephone so you can send images to other people it was failure but thats why it got fixed into text messaging and video calls which made it easier for people to understand each other instead of the person talking having to make him describe everything by talking this is a vital improvement. “Caller ID was being implemented. VoIP

services were going into testing. And biggest of all, the first mobile phones were in development.” This is important because not only was caller id being invented but the first mobile phone was being tested this would later improve into being the smartphones we know today.

The source that I will be using for this “Smartphone” and this talks about the advancement of the smartphone and how it upgraded from the telephone. “A smartphone is a mobile device that combines cellular and mobile computing functions into one unit.” This shows the advancement of the smartphone from the previous phones because it has everything like the telephone except more improved. “They are distinguished from feature phones by their stronger hardware capabilities and extensive mobile operating systems” This is also an improvement from the telephone because it is saying that the smartphone has better hardware capabilities and more mobile operating systems. “ facilitate wider software, internet (including web browsing over mobile broadband), and multimedia functionality (including music, video, cameras, and gaming), alongside core phone functions such as voice calls and text messaging.” This is a huge improvement from the telephone because well first of all you have a much wider software which means you can search stuff on the phone and then you have the internet, wifi was made, google and yahoo it doesn't end there you can listen to music, record things with the camera and be able to play games on it. This is a huge step forward from the telephone before all the telephone was used for is calling people but now you can take pictures, listen to music, search stuff like on google, and text message people plus video calling that's a lot of improvement. Not to mention the fact that business's profits were off the roof at this point. “ Early smartphones were marketed primarily towards the enterprise market, attempting to bridge the functionality of standalone

personal digital assistant (PDA) devices with support for cellular telephony, but were limited by their bulky form, short battery life, slow analog cellular networks, and the immaturity of wireless data services. These issues were eventually resolved.” this is saying that the smartphones did have some problems such as low battery life networks being slow etc... but they fixed these and made the smartphone a really good phone for everyone to use.

The source I will be using for this is “History and Evolution of Smartphones” and this talks about when smartphones really became popular and how much smartphones have changed since the last time we talked about it. “One of the most influential years for smartphone evolution was 2007. It was Steve Jobs” The first time smartphones really became popular was when Steve Jobs, founder of Apple made the iPhone that really revolutionized smartphones from here on. “Not only was this the sleekest touch screen device to hit the market, it was also the first device that offered a full, un-watered down version of the internet.” The iPhone was not the only best looking phone during this time (2007) but it also looked like the best phone out there and truthfully it was. “The very first iPhone gave consumers the ability to browse the web just as they would on a desktop computer.” During this time they wanted to make the smartphones be capable of computers would do if not better than a computer. They tried so hard to try to make a smartphone be able to do things that a computer would do when the iPhone released and people saw that the phone can actually do things that a computer can do which made Apple's business make a lot of money including Steve Jobs. “The device was offered at a 4GB level (\$499) and 8GB (\$599).” The price of the smartphone has increased from the telephone and other smartphones during this time. and can hold more storage from telephone with 4gb. Telephones never had 4gb or text messages or video calls or even a touchscreen system. “ It boasted a battery life with 8 hours of talk time (rivaling the 1992 smartphones measly 1 hour of juice) as well as

250 hours of standby time!” The iPhone had more battery life than the other smartphones with 8 hours and the others had only 1 hour big improvement. More battery life means more time people are going to spend time on the phone which then makes the sales for the phone go up and Apple makes a bunch of money off of it.

Apple continued to make phones that upgraded from its previous predecessors casually, that is until a company by the name of Samsung was also getting a lot of fame like Apple in 2010. Samsung another smartphone selling company was keeping up with Apple with the release of the Samsung galaxy s. This was instantly bought into Apple’s intention and they soon made the iPhone 4. This is the beginning of the Apple vs Samsung rivalry. “The Galaxy S featured many amazing specs that first led to the competition between the two companies.” The specs of the Samsung galaxy s vs the iPhone 4 is the first reason that started the competition between these two companies. “The large 4-inch phone display featured a resolution of 480 x 800 pixels. Slim for the plastic body of the phone, it also featured a new and hardly used screen technology: the super AMOLED. The AMOLED screen allowed for each pixel to be controlled individually.” The Samsung Galaxy s had 4inch screen which was big at the time. A resolution of 480 x 800 pixels which was pretty fast for a phone during that time. A AMOLED display which means AMOLED graphics which was really good we still have AMOLED displays on phones today and they still look phenomenal. “ The Galaxy S also featured an excellent 5-megapixel camera, which could record video in 720p, regarded as HD. In comparison, Apple first phone with any kind of OLED screen was the iPhone X.” The Galaxy s also had really good camera quality during this time that put it up against the iPhone. “The iPhone 4 featured the first major redesign of the iPhone, introducing a stunning new glass and metal design, which was very aesthetically

pleasing and replaced the duller plastic design. In addition to that, it had the highest display of all time, named 'Retina' display." The iPhone did still beat it though it had better display resolution and design but this made Samsung its first bit recognition into what will become one of the biggest phone rivalries in all time.

This rivalry caused other businesses to try to keep up with them and make phones just as popular and make a lot of money out of. Apple and Samsung have also been competing in sales and since this one of the biggest rivalries of all time you can only imagine the amounts of money each company was making billion of dollars. Not only that but their battle has affected 4 continents. "For three years, Apple and Samsung have clashed on a scale almost unprecedented in business history, their legal war costing more than a billion dollars and spanning four continents." This quote clearly supports my last sentence of the amount of money and how big this rivalry is. "Jobs and Tim Cook, his chief operating officer, had spoken with Samsung president Jay Y. Lee in July to express their concern about the similarities of the two phones but received no satisfactory response." As you can see the two companies confronted each other about the phones because they both wanted to look for an excuse to end the rivalry I guess but that did not happen the rivalry still goes on today with other companies all trying to improve on the smartphones which never would've happened without the telephone. In conclusion the telephone has evolved over time to what is known as the smartphone and people are continuing to work to make the phones better.

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plan for this entire Bibliography was to use one source for one page. That's what I did for the rest of the sources. The sources are in order too so the second source the second page the third source third page son and so forth. I found every source in this Bibliography to be helpful and learned a lot of writing this paper.

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