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Nowadays, there are numerous of earth-shattering alterations in technology occurring in our global. Humans are trying their best in order to develop the technology which can provides them more comfortable life. What we thought impossible in the past are possible today such as mobile phone, submarine and aircraft. High-tech equipment is considered to be main economic driver and also represented the advancement of human beings. However, the technological development cannot be invented without an imaginative man such as Jules Verne who wrote a gigantic amount of scientific fiction books which predicts fantastic technology that never existed in our global before. He also being a motivation for new scientists to produce new technology passes through his writing. Jules Verne novels established marvelous technology inventions which have positive impacts to our world and also inspired new scientific fiction writers to create new innovations.

Jules Verne was considered to be the father of science fiction due to his imagination about the future technologies. He passed his ideas through his novels which conducted based on plenty of scientific research and read science books as many as he can. Jules Verne usually make his fiction in form of adventurous travel book which combined imaginative narrative and science together in order to make it more interesting for people of all ages.¹ Presently, Verne's predictions changed from imaginations to reality, advanced technology that mentioned in the narration occurred

¹ Harry M. Geduld. *The complete Twenty Thousand Leagues under the Sea*. 1991. p. 46-52.

later on after he forecasted in his book. There are some clear-cut examples of his technology predictions which are videoconferencing, Newscasts and Taser gun. Videoconferencing was described as “Phonotelephote” it was used in order to send the pictures passed through mirrors that linked by wires.² He thinks that it would be great for people to talk with each other and also seeing each other face rather than just hear their voice. Secondly, Newscasts which is the conversation between reporters and guests was invented instead of boring printed newspapers.³ He feels that reading is sometimes boring so it would be better to let people listen to the conversation to get the news instead of spending hours to read it themselves. Lastly, Taser gun was described as electronic gun that can keep electricity in the bullet which can make people immediately shocked and exhausted.⁴ Jules Verne wonders that why suspects always got killed by a gun when police want to catch them, why police not just shocked them at the first place and arrest them so he invented Taser gun in his book name “Twenty thousand leagues under the sea”.

Thirdly, Jules Verne inventions were largely contributed to not only in local scale but also in global scale. All of his inventions were widely used among new generations in order to satisfy their wishes to get the most comfortable life.

Videoconferencing was enormously used through organizations and businesses in

² National Geographic contributors. “8 Jules Verne inventions that came true.” *National Geographic*. 7 September 2012. < http://news.nationalgeographic.com/news/2011/02/pictures/110208-jules-verne-google-doodle-183rd-birthday-anniversary/#!/jules-verne-inventions-video-conferencing_32051_600x450.jpg>

³ National Geographic contributors. “8 Jules Verne inventions that came true.” *National Geographic*. 7 September 2012. < http://news.nationalgeographic.com/news/2011/02/pictures/110208-jules-verne-google-doodle-183rd-birthday-anniversary/#!/jules-verne-inventions-television-news-cast_32049_600x450.jpg>

⁴ National Geographic contributors. “8 Jules Verne inventions that came true.” *National Geographic*. 7 September 2012. < http://news.nationalgeographic.com/news/2011/02/pictures/110208-jules-verne-google-doodle-183rd-birthday-anniversary/#!/jules-verne-inventions-taser_32047_600x450.jpg>

order to communicate with others in a long distant.⁵ Furthermore, the cost of videoconferencing was very cheap compared to other kind of face-to-face communications which undoubtedly increases its popularity. Moreover, newscasts was considered to be a new form of receiving the news apart from newspaper and also be the most comfortable way to get the news for people today. In fact, people can get most of the news that wrote on the newspapers by just listen to the conversation that occurring in the television which all information were precisely selected from the newspaper by reporters. It also watched by more than 238 million people all over the world daily. Last but not least, Taser gun was counted as the latest innovation in police department. It used to catch the suspects without killing them by using electricity to make them shocked instead of real bullet which can injure suspects. According to the statistic in the United State of America indicates that more 40 percent of life was saved in arrest as a result of using Taser gun instead of gun.⁶ As aforementioned Jules Verne inventions play a huge role to make the world develop and be a better place to live in.

Fourthly, Jules Verne does not only benefit societies directly but also indirectly by being a role model for scientific fiction writers in later generations. Since his novels become well known, large number of people are starting to be interested in scientific fiction and some were inspired to write on the same style as Jules Verne with new inventions. For instance, H.G. Wells was one of those who interested in writing scientific fiction; he made lots of marvelous inventions through his novels which considered being valuable technology today such as Moon landing and Genetic Engineering. First, Moon landing was considered to be one of the most important

⁵ Ivci contributors. "Benefit of Video Conferencing." *Ivci*. 6 September 2012. <http://www.ivci.com/videoconferencing_benefits_of_videoconferencing.html>

⁶ James Joyner. "Police Taser Use: Cost-Benefit Analysis." *Outside The Belt Way*. 6 September 2012. <http://www.outsidethebeltway.com/police_taser_use_cost-benefit_analysis/>

technologies that allow scientists to learn more about the moon in details.⁷ Without Moon landing, the scientists will not be able to stand on the moon. Second, Genetic engineering is the technology to modify DNA characteristics in order to gain more productivity.⁸ For instance, GMO (Genetically Modified Organism) was used in order to produce food that matched the demand and saved much time compared to the general way of production. Robert Heinlein is another scientific fiction writer that creates new innovation which is remote control robot that can operate follow human body movements.⁹ It usually used in hard industries such as nuclear factories in order to do some jobs that cannot be done by humans.

In conclusion, Jules Verne was considered to be the greatest scientific fiction writer through the history; in fact, he was the first man who combined the imagination and science facts together in his novels. He invented a large number of new technologies that cause a positive impact to our global such as videoconferencing, Newscasts and Taser gun. Jules Verne is a role model for new generation of scientific fiction writers, for instance, H.G. Well and Robert Heinlein which lead to further innovations today and in the future. Moreover, there were a lot more people who were motivated by Jules Verne to be a scientific fiction writer apart from aforementioned names. To sum up, it is obvious that Jules Verne contributed to mankind in the aspect of technology inventions by using his novels as a mean to develop our world.

⁷ David Fletcher and Resident Scholar. "The First Men in The Moon H.G. Wells book reviews." *All Readers.com*. 6 September 2012. < http://www.allreaders.com/topics/info_21741.asp>

⁸ Depauw University contributors. "Genetic Engineering in Science Fiction Literature." *Depauw University*. 5 September 2012. < <https://sites.google.com/a/depauw.edu/genetic-engineering/the-island-of-dr-moreau/genetic-engineering>>

⁹ Roger Ressmeyer. "Ten inventions inspired by science fiction." *Smithsonian*. 7 September 2012. < <http://www.smithsonianmag.com/science-nature/Ten-Inventions-Inspired-by-Science-Fiction.html?c=y&page=6&navigation=thumb#IMAGES>>