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Should the existing Right to Repair Legislation be extended to cover more products within the UK?

Author: Roland Correia

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Abstract (202 words)

The aim of this research was to investigate if the existing Right to Repair legislation could be extended within the UK. Before moving on to this, users are introduced to the benefits and drawbacks of having such legislation. This is because the current legislation, “Ecodesign for Energy Related Products and Energy Information Regulations 2021” (EERPER), does not address key areas for it to be considered a Right to Repair legislation. Both sides of argument were discussed so that readers could make a judgement of their own and to reduce the amount of bias, as found in most other sources. Implication on the environment, individuals' health, knowledge, freedom and on our market, were all taken into consideration. A key aspect of the research was to explore if there were

any alternative routes to achieving the same benefits without relying on an extended Right to Repair legislation. The conclusion sums up that the current Right to Repair legislation should be extended within the UK as the advantages out weighted the disadvantages. For example, Right to Repair would financially save consumers money, protect consumers freedom, help to restore our planet, create a much diverse and competitive market, provide a form of free education and much more.

Introduction (1,073 words, excluding footnotes/ endnotes)

Should the existing Right to Repair Legislation be extended to cover more products within the UK?

I have chosen this project title for several reasons, one of which is that it relates to my field of study, Information Technology and the sector which I'm looking forward to being a part of. Before deciding upon my project title, I had prior knowledge on Right to Repair due to consumption of discussions surrounding technology and electronic gadgets on social media platforms. But majority of the

information which I was exposed to seemed bias and failed to address manufacturers point of view to Right to Repair as a legislation. Due to this imbalance in information, I decided upon Right to Repair as a EPQ project title to investigate further. So, that I could make a judgement of my own, using information from both consumers and manufacturers.

Additionally, this project title aligned with my personal interests in building environmentally friendly solutions through technology in order to take better care of our environment.

What is the Right to Repair?

Right to repair means having the freedom to repair the goods you own, when you want and how you want. Currently, owners of electronic goods do not have the right to repair their own equipment. Whenever the item gets damaged or broken, the only resolution to this scenario will be, either go to the wholesaler or the manufacturer that sold the item to you in the first place, seek assistance from repair shops or just purchase a completely new device. Note how the possible routes to resolve these types of scenarios excludes the ability to repair the device yourself. This is aided by the fact that manufacturers and big tech companies cleverly implant obstacles to limit owners' freedom. Some of the known notorious tactics include gluing components together¹, increasing repairing fees and time, launching more affordable or advance products frequently to ensure purchasing a newer model is more attractive than getting one repaired, using End-user licence agreements to penalise owners for attempt to repair their devices², refusing to provide spare parts to owners and independent repair shops and by refusing to disclose necessary information to fulfil repairs.

The Right to Repair movement has increasingly pressured manufactures and companies to act upon consumers demands. One of which include disclosing sufficient information to consumers to make D-I-Y (Do It Yourself) repairs possible, in the form of repair booklet or videos, repair manuals, etc.³

¹'Right to Repair Fights Electronic Manufacturers to Blocking Fix It Opportunities' (2021) Waste360 [Online], 01 Dec, NA, available: https://link.gale.com/apps/doc/A684420196/GPS?u=scc_jisc&sid=bookmark-GPS&xid=5b5cc7e3 [accessed 14 march 2022].

² The punishment usually results with the owner getting their warranty voided for attempting to repair their device from anyone apart from the manufacturers and their partners.

Mirr, N.A. (2020) 'Defending the Right to Repair: An Argument for Federal Legislation Guaranteeing the Right to Repair', Iowa Law Review, 105(5), 2393+, available: https://link.gale.com/apps/doc/A634680439/GPS?u=scc_jisc&sid=bookmark-GPS&xid=e1fddc95 [accessed 12 March 2022].

³HANLEY, D., KELLOWAY, C. and VAHEESAN, S., 2020. Fixing America: Breaking Manufacturers' Aftermarket Monopoly and Restoring Consumers' Right to Repair. Google Scholar, [online] p.3. Available at: <https://static1.squarespace.com/static/5e449c8c3ef68d752f3e70dc/t/5ea8a6d93b485d0feb9b5d6b/1588111098207/Report_RightToRepair_HanleyKellowayVaheesan-1.pdf> [Accessed 25 November 2021]

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Whilst also making spare parts and tools available.⁴ Currently, such resources are unavailable due to concerns over security of devices.⁵ Therefore, with consumers unable to exercise their rights by repairing their rightfully owned goods, growing concerns are raised over the way we treat our environment and other's around us.

Right to Repair legislation may not make a substantial difference in everyone's life, as in order to proceed with the repairs individuals will require obtaining background technical knowledge and experiences. Also, repairers will be required to take responsibility for their actions during instances where things don't go as planned. For these reasons, D-I-Y repairs which the legislation advocates

for, is less likely to be useful for such consumers. As they may prefer to save time, effort and to assign the responsibility to authorised repairers. But the legislation will at least make D-I-Y repairs an option.

Right to Repair is important as in most cases it is much cheaper for consumers to repair or modify products instead of purchasing a completely new unit. Making such eco-conscious decision benefits the environment and attempts to reduce the amount of e-waste being sent to landfills. The impact of this decision can even go as far as saving lives, especially of those living near waste disposal sites as components in electronics such as the batteries contain toxic chemical which contaminate its surrounding areas.

What is the “Ecodesign for Energy- Related Products and Energy Information Regulations 2021” (EERPEIR)?

The UK attempted to address Right to Repair through their legislation, Ecodesign for Energy- Related Products and Energy Information Regulations 2021 (EERPEIR). The approach taken by this legislation is very similar to an effective Right to Repair. For example, the legislation, aims to address the repairability and longevity of white goods like washing machines and even TV screens.⁶ This is achieved by ensuring that the manufacturer makes available spare parts for up to 10 years for consumers and professionals to perform repairs.⁷

This document will discuss whether the current “Ecodesign for Energy- Related Products and Energy Information Regulations 2021” (EERPEIR) as a form of Right to Repair legislation, requires an extension to cover more products within the UK. To effectively respond to the project title, the 3 objectives mentioned below will be answered in a chronological order. Throughout the document

⁴ HANLEY, D., KELLOWAY, C. and VAHEESAN, S., 2020. Fixing America: Breaking Manufacturers’ Aftermarket Monopoly and Restoring Consumers’ Right to Repair. Google Scholar, [online] p.3. Available at: <<https://static1.squarespace.com/static/5e449c8c3ef68d752f3e70dc/t/5ea8a6d93b485d0feb9b5d6b/1588111098>

⁵ 207/Report_RightToRepair_HanleyKellowayVaheesan-1.pdf> [Accessed 25 November 2021] Louis Rossmann., 2020. GANGSTER right to repair Testimony by Tarah Wheeler of Securerepairs. 25 January. Available at: YouTube. <https://www.youtube.com/watch?v=xiGE3paw5WQ> (Accessed: 9 April 2022)

⁶ Conway, L., 2021. Right to Repair Regulations. House of Commons Library, [online]. Available at: <<https://commonslibrary.parliament.uk/research-briefings/cbp-9302/>> [Accessed 1 March 2022].

⁷ Espiner, T. and Wearn, R., 2021. Right to repair rules will extend lifespan of products, government says. [online] BBC News. Available at: <<https://www.bbc.co.uk/news/business-57665593>> [Accessed 3 April 2022].

for and against arguments towards an effective Right to Repair legislation will be discussed using information from a wide range of sources.

- **What would the Implications be of having an extended Right to Repair legislation, on individuals, businesses and the UK as a whole?**
- **How can the extended Right to Repair legislation be better regulated within the UK? •**

Are there any alternative routes, instead of relying on an extended “Right to Repair legislation, within the UK?

Literature Review (2,877 words, excluding footnotes/ endnotes)

Introduction:

The research was conducted using Primary source and secondary sources. Including sources such as testimonies in American courts in the format of videos, academic journals, online articles,

magazines, government legislation papers etc. I started of my research by looking into Right to Repair as a whole, so that my readers could better understand what it is and its implications if implemented as a legislation. These implications were categorised into identified themes of Right to Repair such as environment, health, etc., through information from sources.

Why is an effective Right to Repair important for the UK?

Today, manufacturers divert their effort and energy in build new products from scratch, instead of recycling and re-collecting precious natural materials from pre-existing devices.⁸ This can be associated with the existence of cheap labour such as sweatshops, in underdeveloped countries such as China. Using planned obsolescence as a business strategy shifts the blame of producing e-waste upon consumers, for not making sustainable decisions, even though manufacturers purposely produce products with a shorter lifespan.⁹ Planned obsolescence is extremely lucrative as consumers get repeatedly encouraged to replace their current model with a newly released version.¹⁰

Producing resources to facilitate repairs is believed to be extremely time consuming and expensive meaning that it will be unattractive and unprofitable for manufacturers to be compliant with a Right to Repair legislation. This has been evident through their efforts in restlessly defending their tactics and actions.¹¹

⁸ Sullivan, J., 2014. Trash or Treasure: Global Trade and the Accumulation of E-Waste in Lagos, Nigeria. [online] Africa Today, 61(1), 89+, Available at:

<https://go.gale.com/ps/i.do?id=GALE%7CA386919520&sid=googleScholar&v=2.1&it=r&linkaccess=abs&issn=00019887&p=AONE&sw=w&userGroupName=scc_jisc> [Accessed 5 January 2022]

⁹ Planned obsolescence is when businesses deliberately reduce the lifespan of the device in a bid to encourage consumers to purchase.

Hernandez, Ricardo J., Constanza Miranda, and Julian Goñi., 2020. "Empowering Sustainable Consumption by Giving Back to Consumers the 'Right to Repair'". [online] MDPI. Available at:

<<https://doi.org/10.3390/su12030850>> [Accessed 30 March 2022]¹⁰ Planned obsolescence is when businesses deliberately reduce the lifespan of the device in a bid to encourage consumers to purchase.

Hernandez, Ricardo J., Constanza Miranda, and Julian Goñi., 2020. "Empowering Sustainable Consumption by Giving Back to Consumers the 'Right to Repair'". [online] MDPI. Available at:

<<https://doi.org/10.3390/su12030850>> [Accessed 30 March 2022]

¹¹ SPEIGHT, A., 2021. The UK's right to repair law already needs repairing. [online] WIRED UK. Available at: <<https://www.wired.co.uk/article/right-to-repair-uk>> [Accessed 8 March 2022].

Credibility: Green Alliance is a charity focused on advocating for environmental solutions within the UK. Libby Peake, one of the authors is head of resource policy, has years of experience as editor of several publications and hold related degrees from well-respected universities. This was the most useful source in address the issues with the "Ecodesign for Energy-Related Products and Energy Information Regulations 2021" legislation. Apart from just criticising governments decisions in legislation, it justified possible areas of improvements, such as the fact that VAT could be removed to decrease the price of repairs, in order to make them more attractive. Viewpoint on Right to Repair from the companies representatives has appeared in several other publications which I had collected. The source inspired me to further investigate factual data such as the amount of e-waste UK produces.

Manufacturers and companies offering repairing services they enable themselves to maintain control of their device after sales.¹² Whilst, also ensuring that manufacturers are generating revenue from not just the sale of the devices but also through after-market sales such as repairing services.¹³

Repairing services from the manufactures or companies such as Apple's "AppleCare", take between 6-8 days or as little as one day, to complete repairs. These timings could otherwise be reduced if the repairs were performed by the consumers themselves.¹⁴

Although, this issue has originated in America, it has been affecting both businesses and individuals across the world. Having the right to repair will provide buyers with the freedom that they need and will help to decrease the overwhelming control that companies like Apple have on their customers. It will also help to ensure that we are doing more in the fight to protect the environment. For example, e-waste contributes to air pollution, water pollution and soil contamination.¹⁵ Most of the electronic goods found in homes of people from developed countries such as the UK, will eventually end up in landfills sites. With most landfills' sites being present in poor geographic areas, it will be the developing countries that will suffer from the consequences of our selfish actions.¹⁶ With

¹² HANLEY, D., KELLOWAY, C. and VAHEESAN, S., 2020. Fixing America: Breaking Manufacturers' Aftermarket Monopoly and Restoring Consumers' Right to Repair. Google Scholar, [online] p.10. Available at: <https://static1.squarespace.com/static/5e449c8c3ef68d752f3e70dc/t/5ea8a6d93b485d0feb9b5d6b/1588111098207/Report_RightToRepair_HanleyKellowayVaheesan-1.pdf> [Accessed 25 November 2021]. **Credibility:** The report is produced by Open Markets Institute, an independent non-profit organisation which addresses issues and ideologies of corporations that dominate the American market. The findings are sourced from secondary research (research made from others) and constructed by well-educated authors that share interest in the field which the article relates to. The organisation relies on donations from people and other charitable foundations, instead of relying on companies which they argue against in their academic journals. This academic journal was the most informative and was widely used throughout the dissertation. The areas covered within it were broad such as the environment, individuals' well-being, consumers finances, etc., which informed me to differentiate information based on these themes. It was also, one of the first sources that I came across. Although, the factual information was in consideration to the American audiences and market, it influenced me to conduct research into some of the known themes regarding Right to Repair in order to obtain statistics and factual information. The author mentioned a fascinating piece of information which is that repairs will lead to individuals gaining a form of free education. Therefore, providing me with adequate mostly for arguments.

¹³ HANLEY, D., KELLOWAY, C. and VAHEESAN, S., 2020. Fixing America: Breaking Manufacturers' Aftermarket Monopoly and Restoring Consumers' Right to Repair. Google Scholar, [online] p.10. Available at: <https://static1.squarespace.com/static/5e449c8c3ef68d752f3e70dc/t/5ea8a6d93b485d0feb9b5d6b/158811098207/Report_RightToRepair_HanleyKellowayVaheesan-1.pdf> [Accessed 25 November 2021].¹⁴

iPhone Repair and Service. Apple. Available at: <<https://support.apple.com/en-gb/iphone/repair/service/>> [Accessed 29 March 2022].

Credibility: This is a webpage on the Apple website, no indication about the author neither the date of when it was written is known. The webpage provides details on its repairing services particular on their collection of smartphones. The factual data which covers the pricing of its repairing services was criticised in the

discussion, when discussing about how repairing fees are high and unattractive.¹⁵ Sullivan, J., 2014. Trash or Treasure: Global Trade and the Accumulation of E-Waste in Lagos, Nigeria. Africa Today, [online], 61(1), 89+, p.108. Available at: <https://go.gale.com/ps/i.do?id=GALE%7CA386919520&sid=googleScholar&v=2.1&it=r&linkaccess=abs&issn=00019887&p=AONE&sw=w&userGroupName=scc_jisc> [Accessed 5 January 2022]

¹⁶ "The UK is one of the largest exporters of electronic waste in the world. Some researchers think we send the equivalent of 40% of the electronic waste we collect overseas." The UK exports between 32,000 to 209,000 tonnes Of E-waste illegally to underdeveloped countries such as "Nigeria, Ghana and India" instead of processing it in recycling facilities.

landfills sites creating problem like air pollution due to the electronic devices often being burned as a way of getting rid of waste or for the means of collecting valuable natural resources like metal. This is known to release toxic gases or chemicals into the atmosphere. Chemical in electronic goods such as mercury have known to cause problems in the Kidney.¹⁷

Repairing services are extremely expensive for average consumers with 65% claiming that they are

unable to afford repairing services and as a result choose to avoid them.¹⁸ Reducing or removing the amount of VAT charged on repairs of electrical appliances can make repairs more attractive for consumers.¹⁹

Why would “Ecodesign for Energy- Related Products and Energy Information Regulations 2021” (EERPEIR) be inefficient?

Many argue against the “Ecodesign for Energy- Related Products and Energy Information Regulations 2021” (EERPEIR), claiming that it should cover a wide range of consumer electronic such as smart

House of Commons Environmental Audit Committee. (2020) Electronic Waste and the Circular Economy. 26 November. Available at: <https://committees.parliament.uk/publications/3675/documents/35777/default/> (Accessed: 29 March 2022)

Credibility: The Environmental Audit Committee is appointed by the House of Commons and evaluates policies and programmes and the impact that they have on the environment. With the goal to encourage sustainable solutions and development. The source included statistics such as the measurement of e-waste we send to developing countries. The source provided fascinating new pieces of information like, Most of UK's waste gets exported illegally to developing countries like India, as I believed that the countries involved will only be within the African continent.

¹⁷ Alabi, O.A., Adeoluwa, Y.M., Huo, X., Xu, X. and Bakare, A.A. (2021) 'Environmental contamination and public health effects of electronic waste: an overview', Journal of Environmental Health Science and Engineering, 21 Apr, NA, available: https://link.gale.com/apps/doc/A659317987/GPS?u=scc_jisc&sid=bookmarkGPS&xid=19cc3b4d [accessed 17 March 2022].

Credibility: The article is sourced from Gale Database which is mostly used by academic researchers and contains academic journals. The authors have an academic background, with one of the authors being a researcher and lecturer. They have demonstrated their background in science with other similar publications concerning landfills. The publication company exist for profit and charges authors in order to publish their articles. The academic journal reviews researches that have been undertaken to access health effects caused by contamination from landfills sites.

¹⁸ HANLEY, D., KELLOWAY, C. and VAHEESAN, S., 2020. Fixing America: Breaking Manufacturers' Aftermarket Monopoly and Restoring Consumers' Right to Repair. Google Scholar, [online] p.15. Available at: <https://static1.squarespace.com/static/5e449c8c3ef68d752f3e70dc/t/5ea8a6d93b485d0feb9b5d6b/1588111098207/Report_RightToRepair_HanleyKellowayVaheesan-1.pdf> [Accessed 25 November 2021].

¹⁹ Green Alliance Blog, 2021. The UK's new 'right to repair' is not a right to repair. [online] Inside track. Available at: <<https://greenallianceblog.org.uk/2021/07/06/the-uks-new-right-to-repair-is-not-a-right-to-repair/>> [Accessed 17 March 2022].

Credibility: Green Alliance is a charity focused on advocating for environmental solutions within the UK. Libby Peake, one of the authors is head of resource policy, has years of experience as editor of several publications and hold related degrees from well-respected universities. This was the most useful source in address the issues with the “Ecodesign for Energy- Related Products and Energy Information Regulations 2021” legislation. Apart from just criticising governments decisions in legislation, it justified possible areas of improvements, such as the fact that VAT could be removed to decrease the price of repairs, in order to make them more attractive. Viewpoint on Right to Repair from the companies representatives has appeared in several other publications which I had collected. The source inspired me to further investigate factual data such as the amount of e-waste UK produces.

phones and other equipment like tractors, ventilators, etc.²⁰ Even though, it covers TV screens it excludes electronic displays in all other devices.²¹

The EERPEIR aims to “extend the lifespan of products” by making available spare parts for up to 10 years to perform repairs.²² Although, this may seem adequate Rossmann, a repair shop owner

himself, criticised this decision by claiming that this would result in increased cost of appliances for consumers.²³ His explanation was that manufacturers will legally be required to store a 10 years' worth of supply of spare parts, regardless of its demand which is almost impossible to predict and if the stock is not utilised then manufacturer will suffer from revenue and will attempt to regain the money lost by increasing the cost of their other items or services.²⁴ Instead, of demanding the manufacturer to make spare parts available for a certain length of time, government needs to ensure that independent repair shops are able to purchase directly from the manufacturers whenever there is a peak in demand.²⁵

²⁰ Paul, K., 2021. Why right to repair matters – according to a farmer, a medical worker, a computer store owner. The Guardian. 2 August. Available at: <<https://www.theguardian.com/technology/2021/aug/02/why-right-to-repair-matters-according-to-a-farmer-a-medical-worker-a-computer-store-owner>> [Accessed 28 March 2022].

Credibility: Kari Paul, the author of the article mostly focuses on technology related stories and issues. She has worked as reporters for years at several publications companies. With most sources speaking in reference to consumer electronic goods such as smartphones, this source provided me with a detailed perspective of how the Right to Repair legislation will impact minority such as the farmers and the medical workers. The article includes opinions from farmers, non-profit organisation, doctors, etc.

²¹ SPEIGHT, A., 2021. The UK's right to repair law already needs repairing. [online] WIRED UK. Available at:

²² <<https://www.wired.co.uk/article/right-to-repair-uk>> [Accessed 8 March 2022]. Espiner, T. and Wearn, R., 2021. Right to repair rules will extend lifespan of products, government says. [online] BBC News. Available at: <<https://www.bbc.co.uk/news/business-57665593>> [Accessed 3 April 2022]. **Credibility:** Even though very little is known about the first author, the second authors holds a position of power by being a senior broadcast journalist for BBC. The source provides a summary about the Eco-design for Energy- Related Products and Energy Information Regulations 2021 while also highlighting some its constrains. This source firstly informed me that a Right to Repair legislation already exists and therefore, encouraged me to further read about the legislation from House of Commons library. The report provided useful points and new ideas such as the fact that Right to Repair can make goods more expensive. Wearn is a journalist who has depicted her style of investigation through the title of the article, even though some bias can be suspected due to the focus being on positive side of the argument but it is important to note that it is a fact which the journalist aimed to address. Even though the authors do not seem to be experts in all areas of which the legislation will aim to benefit, they have used opinions and views from environmental experts. The article maintains a balance between points that are in favour and against the article, criticising governments views through evidence from other sources, such as company owners, environmental experts, etc. ²³ Louis Rossmann., 2021. Let's talk about the new UK right to repair law and why it isn't a failure. 2 July. Available at: <https://www.youtube.com/watch?v=z-TE-IVJOB4> (Accessed: 2 April 2022) **Credibility:** Louis Rossman, the narrator within the video published on the video sharing platform YouTube is a well-known YouTuber, Right to Repair movement activist, Repair Technicians, owner of a repairing group/repair shop. Although there is bias in most of his content due to his strong passion and enthusiasm towards Right to Repair, he has an enormous knowledge on the subject. The source provided adequate and useful information on alternatives to Right to Repair which were included in the Discussion as they fulfilled my 3rd objective.

²⁴ Louis Rossmann., 2021. Let's talk about the new UK right to repair law and why it isn't a failure. 2 July.

²⁵ Available at: <https://www.youtube.com/watch?v=z-TE-IVJOB4> (Accessed: 2 April 2022) Louis Rossmann., 2021. Let's talk about the new UK right to repair law and why it isn't a failure. 2 July. Available at: <https://www.youtube.com/watch?v=z-TE-IVJOB4> (Accessed: 2 April 2022)

Companies like Apple and Microsoft have been the main subject of the Right to Repair movement, due their influence over the industry and because of their repeated commitment in limiting owner's freedom. Such manufacturers reportedly made use of special screws and tools which only the companies have access to, in conjunction with the use of glued as previously mentioned, to increase the complexity of repairs²⁷.

Furthermore, such companies liaise with other manufacturers to construct special versions of components, which only get supplied to the company.²⁸ And private contracts with manufacturers are in place to maintain this stricter control over the distribution of parts sold to the company.²⁹ Increasing the constrain over independent repairers and individuals, attempting to perform repairs.³⁰

²⁶ Espiner, T. and Wearn, R., 2021. Right to repair rules will extend lifespan of products, government says. [online] BBC News. Available at: <<https://www.bbc.co.uk/news/business-57665593>> [Accessed 3 April 2022].

²⁷ 'Right to Repair Fights Electronic Manufacturers to Blocking Fix It Opportunities' (2021) Waste360 [Online], 01 Dec, NA, available: https://link.gale.com/apps/doc/A684420196/GPS?u=scc_jisc&sid=bookmark_GPS&xid=5b5cc7e3 [accessed 14 march 2022].

Credibility: Waste360 (Online) claim themselves to be education provider of issues regarding environment, sustainability, etc. And organises events in relation to these areas. E-waste containing lithium-ion batteries, commonly found in most electronic devices such as Laptops, smartphones, etc. contain toxic materials which often get released into groundwater, air, etc. This is very often the case in landfills sites in poor geographical areas where burning the e-waste is used as a method to extract precious material. Microsoft Surface laptop is not even meant to be opened or repaired without causing damage, due to the use of glue when putting the device together. Causing difficulties in reaching key components such as batteries. Similarly, done with Apple ion their MacBook Pros models.

²⁸ HANLEY, D., KELLOWAY, C. and VAHEESAN, S., 2020. Fixing America: Breaking Manufacturers' Aftermarket Monopoly and Restoring Consumers' Right to Repair. Google Scholar, [online] p.10. Available at: <https://static1.squarespace.com/static/5e449c8c3ef68d752f3e70dc/t/5ea8a6d93b485d0feb9b5d6b/158811098207/Report_RightToRepair_HanleyKellowayVaheesan-1.pdf> [Accessed 25 November 2021].

²⁹ HANLEY, D., KELLOWAY, C. and VAHEESAN, S., 2020. Fixing America: Breaking Manufacturers' Aftermarket Monopoly and Restoring Consumers' Right to Repair. Google Scholar, [online] p.10. Available at: <https://static1.squarespace.com/static/5e449c8c3ef68d752f3e70dc/t/5ea8a6d93b485d0feb9b5d6b/158811098207/Report_RightToRepair_HanleyKellowayVaheesan-1.pdf> [Accessed 25 November 2021].

³⁰ HANLEY, D., KELLOWAY, C. and VAHEESAN, S., 2020. Fixing America: Breaking Manufacturers' Aftermarket Monopoly and Restoring Consumers' Right to Repair. Google Scholar, [online] p.10. Available at: <https://static1.squarespace.com/static/5e449c8c3ef68d752f3e70dc/t/5ea8a6d93b485d0feb9b5d6b/158811098207/Report_RightToRepair_HanleyKellowayVaheesan-1.pdf> [Accessed 25 November 2021].

What would the Implications be of having an extended Right to Repair legislation, on individuals, businesses and the UK as a whole?

In the perspective of individuals, the financial implication of having an extended Right to Repair is that it will save consumers money. Most consumers purchase a new device when it is damaged or when it gets too slow, at great expense to themselves as repair prices are less attractive.³¹ Research shows that 65% of consumers avoid getting their smartphones repaired due to overwhelming fees.³² But, through the inclusion of consumer electronic such as smartphones in an extended Right to Repair legislation, market will be challenged to make available affordable pricing as consumers will have much greater choice. Like, the ability to perform repairs themselves and to choose independent repair service providers as opposed to relying on the manufacturer's repair services. As a result, this will reduce consumers dependence on manufacturers the moment they purchase the device and from their often-overpriced repairing services. Therefore, this will not only save consumers money by getting repair service providers to compete but by also permitting them a choice between replacing or repairing only parts of the device that are causing issues instead of purchase a complete brand-new device.

However, many manufacturers offering repair services will be financially disadvantaged from the extended right to repair legislation. Estimates from IBIS World show that Americans spent \$39 billion repairing heavy machinery such as tractors and bulldozers, and \$22 billion on repairing cell phones, computers, and electronics. Even though, the financial figures are in American Dollars, they provide an adequate indication of the number of people who choose repairs and the revenue that manufacturers like John Deere and Apple generate from it. This justifies Hanley et al claim that most of the revenue is sourced from aftermarket sales than from the sales of the unit.³³ Also, it can be suspected that it would be expensive for companies to make repair manuals or resources available as they would need to hire employees with the appropriate skillset to share their knowledge in a digestible manner.

Jalan suggests that manufacturers would not be able to receive regular flow of customers wanting to buy their latest products if Right to Repair was extended, meaning a damage to their revenue if

³¹ HANLEY, D., KELLOWAY, C. and VAHEESAN, S., 2020. *Fixing America: Breaking Manufacturers' Aftermarket Monopoly and Restoring Consumers' Right to Repair*. Google Scholar, [online] p.2. Available at: <https://static1.squarespace.com/static/5e449c8c3ef68d752f3e70dc/t/5ea8a6d93b485d0feb9b5d6b/158811098207/Report_RightToRepair_HanleyKellowayVaheesan-1.pdf> [Accessed 25 November 2021].

³² HANLEY, D., KELLOWAY, C. and VAHEESAN, S., 2020. *Fixing America: Breaking Manufacturers' Aftermarket Monopoly and Restoring Consumers' Right to Repair*. Google Scholar, [online] p.15. Available at: <https://static1.squarespace.com/static/5e449c8c3ef68d752f3e70dc/t/5ea8a6d93b485d0feb9b5d6b/158811098207/Report_RightToRepair_HanleyKellowayVaheesan-1.pdf> [Accessed 25 November 2021].

³³ HANLEY, D., KELLOWAY, C. and VAHEESAN, S., 2020. *Fixing America: Breaking Manufacturers' Aftermarket Monopoly and Restoring Consumers' Right to Repair*. Google Scholar, [online] p.3. Available at: <https://static1.squarespace.com/static/5e449c8c3ef68d752f3e70dc/t/5ea8a6d93b485d0feb9b5d6b/158811098207/Report_RightToRepair_HanleyKellowayVaheesan-1.pdf> [Accessed 25 November 2021].

devices were created to last and to be repairable, year after year.³⁴ This statement addresses manufacturers stubbornness to not permit repairs and their overwhelming control over the goods we own. In favour of manufacturers claims are made that Right to repair can make white goods more expensive.

Adoption of lucrative business strategies through the creation of disposable items harms the environment as increased number of goods get sent to landfill sites.³⁵ In 2019, UK was reported to be the 2nd highest e-waste producing country in the world with 23.9kg per capita.³⁶ UK decided to illegally export most of this e-waste to developing countries such as “Nigeria, Ghana and India” instead of transporting it to recycling facilities.³⁷ Meaning that these countries will have to deal with contamination in soil, air, water and its surrounding areas due to toxic chemicals from our electronic goods³⁸ However, an extended Right to Repair will advocate towards the implementation of recycling facilities to avoid progressing into a “throwaway economy”.³⁹ While also challenging consumers current habits to frequently purchase newer goods based on the superiority of technology within it.⁴⁰

³⁴ Jalan, A. (2021) 6 Arguments Against Right to Repair That Make Sense. 15 November. Available at: <https://www.makeuseof.com/arguments-against-right-to-repair/> (Accessed 10 April 2022). **Credibility:** AYUSH JALAN, the author of the source, has published numerous articles on the site, MUO (Make Use Of). And acquires academic qualifications relating to Marketing. This is one of the very few sources that provided ideas for argument against the Right to Repair legislation. I previously came across some of the points mentioned but in this article claims made by manufacturers were further expanded upon. This allowed me to better understand manufacturers viewpoint of the legislation.

³⁵ “More than 50 million tons of e-waste is generated each year, less than 20% of which is recycled.” Paul, K. (2021) Why right to repair matters – according to a farmer, a medical worker, a computer store owner. 2 August. Available at: <<https://www.theguardian.com/technology/2021/aug/02/why-right-to-repair-matters-according-to-a-farmer-a-medical-worker-a-computer-store-owner>> [Accessed 28 March 2022]. ³⁶ Buchholz, K., 2021. The Countries Producing the Most E-Waste. Statista. 25 February. Available at: <<https://www.statista.com/chart/24291/e-waste-by-country/>> [Accessed 30 March 2022]. **Credibility:** Katharina Buchholz a Senior data journalist at Statista has years of experience in “Researching and analysing data and turning it into infographics”. The data is gathered from well researched and collected from a wide range of sources. From the online article the data from the chart mentioned was used, UK produces 23.9 Kg of e-waste. ³⁷ House of Commons Environmental Audit Committee. (2020) *Electronic Waste and the Circular Economy*. 26 November. Available at: <https://committees.parliament.uk/publications/3675/documents/35777/default/> (Accessed: 29 March 2022)

³⁸ Alabi, O.A., Adeoluwa, Y.M., Huo, X., Xu, X. and Bakare, A.A. (2021) ‘Environmental contamination and public health effects of electronic waste: an overview’, Journal of Environmental Health Science and Engineering, 21 Apr, NA, available: https://link.gale.com/apps/doc/A659317987/GPS?u=scc_jisc&sid=bookmark_GPS&xid=19cc3b4d [accessed 17 March 2022].

³⁹ Green Alliance Blog, 2021. *The UK’s new ‘right to repair’ is not a right to repair*. [online] Inside track. Available at: <<https://greenallianceblog.org.uk/2021/07/06/the-uks-new-right-to-repair-is-not-a-right-to-repair/>> [Accessed 17 March 2022].

⁴⁰ Salvia, G., Cooper, T., Fisher, T., Harmer, L. And Barr, C., 2015. *What is broken? Expected lifetime, perception of brokenness and attitude towards maintenance and repair*. [online] Available at: <<http://irep.ntu.ac.uk/id/eprint/12817/>> [Accessed 18 March 2022].

Credibility:

On the other hand, it is important to note that an extended Right to Repair legislation will not completely help to combat Techno-Trash and that more will need to be done to facilitate recycling.⁴¹ This is because consumers will be producing electronic waste when performing repairs, for example the damaged components which will end up in bins. To address this, easy and convenient recycling services will need to be implemented to dispose damaged and unusable components safely and effectively.

Daniel A. Hanley et al, claims that repairing will refine consumers knowledge about electronic goods, mould transferable expertise such as technical skills, problem solving skills, etc.⁴² This is a logical statement, but it can be argued that disclosing information of the inner workings of any device will be problematic and cause a security concern due to the likelihood of individuals identifying flaws within a system through the knowledge from manuals, etc. Revealing the layout and designs of the product's internally such as its motherboard will allow competitors to be inspired to create better designs with improved longevity and durability of currently existing products, to compete. Also, innovation will stimulate among manufacturers as they focus on designing new and exciting products that challenge their competitors' ideas. As the competition increases within the market, consumers will be left with greater choices and will get a better deal for their money.

Right to Repair will aim to prohibit manufacturers from obtaining lucrative business strategies, as such "planned obsolescence", which deters human life⁴³. Landfill sites accommodate Techno-Trash and multiple studies have shown "risk of adverse health effects" for those exposed to landfill sites such as "Low birth weight, birth defects", lung cancer and bladder cancer, but Vrijheid emphasised that not enough was known about confounding factors such as smoking, alcohol consumption, socioeconomic status (level of education), etc., during the time of research.⁴⁴ Although, an extended Right to Repair does not promise to completely decrease the number of landfill sites in operation nor the amount of material which will end up in waste disposable sites, it can however, help us to sustain electronic devices for longer than usual. For some, Right to Repair can go as far as saving their or others life. For example, in the scenarios of farmers and doctors who need effective and timely repairing services.⁴⁵

⁴²⁴¹ Techno-Trash HANLEY, D., KELLOWAY, C. and VAHEESAN, S., 2020. Fixing America: Breaking Manufacturers' Aftermarket Monopoly and Restoring Consumers' Right to Repair. Google Scholar, [online] p.6. Available at: <https://static1.squarespace.com/static/5e449c8c3ef68d752f3e70dc/t/5ea8a6d93b485d0feb9b5d6b/158811098207/Report_RightToRepair_HanleyKellowayVaheesan-1.pdf> [Accessed 25 November 2021].

Planned obsolescence is when businesses deliberately reduce the lifespan of the device in a bid to encourage consumers to purchase. Paul, K., 2021. Why right to repair matters – according to a farmer, a medical worker, a computer store owner. The Guardian. 2 August. Available at: <<https://www.theguardian.com/technology/2021/aug/02/why-right-to-repair-matters-according-to-a-farmer-a-medical-worker-a-computer-store-owner/>> [Accessed 28 March 2022].

⁴⁴ Vrijheid M. (2000). Health effects of residence near hazardous waste landfill sites: a review of epidemiologic literature. Environmental health perspectives, 108 Suppl 1(Suppl 1), 101–112. <<https://doi.org/10.1289/ehp.00108s1101>>

⁴⁵ "The rate of suicide in the industry is already higher than average – one 2015 study from the Centers for Disease Control and Prevention (CDC) found male farmers in 17 states took their lives at a rate of 1.5 times higher than the general population."

While on the topic of health, Apple argues that Right to Repair laws could lead to inferior quality repairs and consumers accidentally harming themselves.⁴⁶ However, if adequate sources were provided with detailed guidance and instructions than repairers will be far from doing insufficient modifications, let alone injure themselves during the process. Incidents reported from D-I-Y (Do It Yourself) repairs are far too uncommon and to validate this claim Apple would have to first allow individuals to perform D-I-Y repairs.

An extended Right to Repair will provide independent parts producers and local repair shops extensive business opportunities and enable them to “better serve communities with more convenient, affordable, personalised and timely service.”⁴⁷ Currently Apple claims that for its iPhones, they will take anywhere from few hours to 6 to 8 days with repairing fees costing a fortune.⁴⁸ But this length of time can be narrowed if repairs were performed by independent repair shops or consumers. With just 5,000 Apple Authorised Service Providers (AASPs) across the world it is inconvenient to always rely on their services.⁴⁹ Local and major repairing businesses struggle to operate effectively as product manufacturers refuse to provide spare parts and essential data to successful perform repairs.⁵⁰ An argument to this is that under the Copyright, Designs and Patents

Paul, K., 2021. Why right to repair matters – according to a farmer, a medical worker, a computer store owner. The Guardian. 2 August. Available at: <<https://www.theguardian.com/technology/2021/aug/02/why-right-to-repair-matters-according-to-a-farmer-a-medical-worker-a-computer-store-owner/>> [Accessed 28 March 2022].

⁴⁶ SPEIGHT, A., 2021. *The UK's right to repair law already needs repairing*. [online] WIRED UK. Available at: <<https://www.wired.co.uk/article/right-to-repair-uk>> [Accessed 8 March 2022].

⁴⁷ HANLEY, D., KELLOWAY, C. and VAHEESAN, S., 2020. Fixing America: Breaking Manufacturers' Aftermarket Monopoly and Restoring Consumers' Right to Repair. Google Scholar, [online] p.4. Available at: <[https://static1.squarespace.com/static/5e449c8c3ef68d752f3e70dc/t/5ea8a6d93b485d0feb9b5d6b/158811098207/Report_RightToRepair_HanleyKellowayVaheesan-1.pdf](https://static1.squarespace.com/static/5e449c8c3ef68d752f3e70dc/t/5ea8a6d93b485d0feb9b5d6b/1588111098207/Report_RightToRepair_HanleyKellowayVaheesan-1.pdf)> [Accessed 25 November 2021].

⁴⁸ Based on the repairing fees published by Apple on their website, it costs more than half the units retail price to repair the device. But these fees are for Apple devices, uncovered by their warranty during the time of repair.

iPhone Repair and Service. Apple. Available at: <<https://support.apple.com/en-gb/iphone/repair/service/>> [Accessed 29 March 2022].

⁴⁹ Wells, M., 2021. Apple's Independent Repair Provider program expands globally. Apple. 29 March. Available at: <<https://www.apple.com/uk/newsroom/2021/03/apples-independent-repair-provider-program-expands-globally/>> [Accessed 15 March 2022].

“repair can take more than five days, especially in rural areas where local technicians are not as accessible. This issue came into focus during the coronavirus pandemic, when delays to repairs on ventilators and other critical devices became a matter of life and death.”

Paul, K., 2021. Why right to repair matters – according to a farmer, a medical worker, a computer store owner. The Guardian. 2 August. Available at: <<https://www.theguardian.com/technology/2021/aug/02/why-right-to-repair-matters-according-to-a-farmer-a-medical-worker-a-computer-store-owner/>> [Accessed 28 March 2022].

⁵⁰ “Often I have all the equipment and knowledge I need to do the repair, but I have to wait for the chips or other parts to come through the black market,” he said. “It’s a legal gray area.”

Paul, K., 2021. Why right to repair matters – according to a farmer, a medical worker, a computer store owner. The Guardian. 2 August. Available at: <<https://www.theguardian.com/technology/2021/aug/02/why-right-to-repair-matters-according-to-a-farmer-a-medical-worker-a-computer-store-owner/>> [Accessed 28 March 2022].

Act 1988 manufacturers believe that everything related to their products such as its components, source codes, their intellectual property. This leaves them to make the decision on whether they want to share the information with repairers.⁵¹

Daniel A. Hanley et al, claims that with software being present in our everyday “consumer product from barbie dolls to doorbells to automobiles” it leads us to question its necessity in simpler products such as Kettles, dolls, etc.⁵² Even if software was absolute necessary then it should be open source, and not proprietary, so that everyone can modify and access it to their needs. This will increase the effectiveness of D-I-Y repairs in a variety of devices and avoid instances where the device cannot be repaired due to software failure.⁵³ Through an open-source software individuals will be able to bypass manufacture designed errors such as “Error 53”.⁵⁴ In the perspective of a business an open-source software will allow users to support the development of the software by voluntarily identifying flaws and producing patches. Saving the company both time, money, and workload.

Fisher claims that most individuals who bring their broken or damaged fashion and electronic goods require simple solutions such as inner cleaning of the device to restore it while others require challenging fixes.⁵⁵ For example, in the case of “Toby”, the kettle experienced a “computer failure” leading to no resolutions from the “volunteer fixers and visitors” at the repair cafe.⁵⁶ Not only does software integration restrict the extent to which repairs can be performed but it also limits users' freedom the moment they purchase the device who should otherwise have full ownership of it.⁵⁷

With an overwhelming list of advantages, manufacturers have attempted to defend their actions by stating issues that would arise from an extended Right to Repair. Firstly, concerns over user's health, manufacturers claim that unexperienced users may harm themselves when attempting to fix their devices and that those using 3rd party, non-OEM (not Original Equipment Manufacturer) parts are likely to get their hands upon parts that are poorly designed, manufactured and tested to keep the

[repair-matters-according-to-a-farmer-a-medical-worker-a-computer-store-owner/>](#) [Accessed 28 March 2022].

⁵¹ Louis Rossmann. (2020) Maryland HB1124 Right to Repair hearing. 13 March. Available at: <https://www.youtube.com/watch?v=PZVdSRpvqQw&t=4446s> (Accessed: 6 April 2022)

⁵² HANLEY, D., KELLOWAY, C. and VAHEESAN, S., 2020. Fixing America: Breaking Manufacturers' Aftermarket Monopoly and Restoring Consumers' Right to Repair. Google Scholar, [online] p.8. Available at: <https://static1.squarespace.com/static/5e449c8c3ef68d752f3e70dc/t/5ea8a6d93b485d0feb9b5d6b/158811098207/Report_RightToRepair_HanleyKellowayVaheesan-1.pdf> [Accessed 25 November 2021].⁵³ Fisher, M. (2017). *Reviving the art of repair*. Alternative Technology Association, 39, 78–80. Available at: <https://www.jstor.org/stable/90009782> [Accessed 4 March 2022].

⁵⁴ Macro, A., 2018. *What is iPhone Error 53 and how do I avoid it?*. [online] Macworld UK. Available at: <<https://www.macworld.co.uk/feature/what-is-iphone-error-53-3634865/>> [Accessed 9 March 2022].⁵⁵

Fisher, M. (2017). *Reviving the art of repair*. Alternative Technology Association, 39, 78–80. Available at: <https://www.jstor.org/stable/90009782> [Accessed 4 March 2022].

⁵⁶ Fisher, M. (2017). *Reviving the art of repair*. Alternative Technology Association, 39, 78–80. Available at:

<https://www.jstor.org/stable/90009782> [Accessed 4 March 2022].⁵⁷ Fisher, M. (2017). *Reviving the art of repair*. Alternative Technology Association, 39, 78–80. Available at: <https://www.jstor.org/stable/90009782> [Accessed 4 March 2022].

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price of the components as low as possible⁵⁸ Secondly, concerns over security of the devices. Manufacturers believe using 3rd party, non-OEM parts can jeopardise security of their products as reinforced by Apple's "Error 53" occurred when the iPhone detected a non-OEM part of "screen or Touch ID home button"⁵⁹ Apple defended their actions by stating that it was purposely implemented to avoid⁶⁰ Although this may seem reasonable in the perspective of a Touch ID button, but in the context of replacing/ repairing a screen it is unjustifiable and instead sounds like a feature designed to penalise individuals who choose to seek to cheaper alternatives.

Manufacturers claim that Right to Repair Regulations would undermine the security of their devices.⁶¹ This may be due to the exposure of sensitive internal components such as its motherboard. However, lack of study on exploiting data on devices through hardware alone fails to validate these claims. Also, with software integration in protecting device hardware, the likelihood is low. Manufacturers who oppose Right to Repair for reasons like these seem to be taking law into their own hands. As pre-existing legislations like Computer Misuse Act 1990 and Police And Justice Act have been established to cover such concerns and issues by holding users accountable for attempting to hack or spread virus within computer system.⁶² So, users with malicious intents who jail break into a device are likely to be prosecuted with jail time and fines.⁶³ Ironically, an Apple's certified repair provider in the past violated consumers right to privacy by sharing sensitive information of a customer on the internet while performing repairs on the customer's phone.⁶⁴

Right to Repair may be ineffective in eliminating consumers dependence from manufacturers repair services as some would prefer swapping the responsibility of repair into the hands of manufacturers. Additionally, some consumers find repairing services offered by manufacturers more reliable and trustworthy, than those offered by independent or 3rd party repair service providers.

Many claim that Right to Repair will aid towards addressing longevity of products. But Salvia G. et al., pointed out that user's lack of motivation in repairs and maintenance corresponds to a shorter lifespan among products. This is because consumers perceive goods to be broken or unusable long

⁵⁸ Brooks, G., 2018. 3 Risks To Right To Repair Legislation. [online] Manufacturing.net. Available at: <<https://www.manufacturing.net/operations/blog/13228762/3-risks-to-right-to-repair-legislation>> [Accessed 5 March 2022].

⁵⁹ Mirr, N.A. (2020) 'Defending the Right to Repair: An Argument for Federal Legislation Guaranteeing the Right to Repair', Iowa Law Review, 105(5), 2393+, available: https://link.gale.com/apps/doc/A634680439/GPS?u=scc_jisc&sid=bookmark-GPS&xid=e1fddc95 [accessed 12 March 2022].

⁶⁰ Macro, A., 2018. What is iPhone Error 53 and how do I avoid it?. [online] Macworld UK. Available at: <<https://www.macworld.co.uk/feature/what-is-iphone-error-53-3634865/>> [Accessed 9 March 2022].⁶¹

⁶² Youtube video Cyber Security and Incident Management, Legal Responsibilities 1. KnowItAll Ninja. Available at: <<https://www.knowitallninja.com/lessons/legal-responsibilities-1/>> [Accessed 8 April 2022].

⁶³ Cyber Security and Incident Management, Legal Responsibilities 1. KnowItAll Ninja. Available at: <<https://www.knowitallninja.com/lessons/legal-responsibilities-1/>> [Accessed 8 April 2022].⁶⁴ Authorised Apple repair technicians uploaded explicit images and videos to the internet from a customer's phone that

was sent in for repairs.

Paul, K. and Holpuch, A., 2021. Apple paid woman millions after technicians used her iPhone to post explicit videos. The Guardian. 7 June. Available at: <<https://www.theguardian.com/technology/2021/jun/07/apple-settles-iphone-explicit-images>> [Accessed 28 March 2022].

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before the products end of lifecycle. Moreover, Right to Repair will fail to address consumers irresponsibility during handling of goods.

With Right to Repair expected to cover a wide spectrum of devices, anything containing a software or a microchip, it intensifies the work and effort needed to construct a legislation. As the legislation would need to include guidelines which are universally applicable for products like smartphones, ventilators, tractors, etc.⁶⁵

How can the extended Right to Repair legislation be better regulated within the UK?

UK as a developed country consists of major businesses which attract an enormous number of consumers who often purchase more than they need, leading UK in becoming the 2nd highest country in producing e-waste⁶⁶. Environmental Audit Committee claims that e-waste in the UK can be tackled if these key points were addressed such as repairability of devices, effective recycling of devices and sourcing of precious natural materials within discarded items⁶⁷.

The “Ecodesign for Energy- Related Products and Energy Information Regulations 2021” (EERPEIR) only cover a limited number of white goods and household items. But excludes important pieces of equipment such as consumer electronics like smartphones, agricultural/ farming equipment like tractors, medical equipment like ventilators and many others.⁶⁸

With the advantages that the Right to Repair has to offer, the current legislation in the UK fails to offer similar promising benefits by missing key points such as, making it a requirement for manufacturers to offer spare parts at an affordable price, prohibiting manufacturers from introducing unrepairable or incompatible goods with shorter lifespan and requiring them to offer manuals and information to proceed with D-I-Y repairs.⁶⁹

EERPEIR works more in the favour of professional repairers, than average consumers by limiting "simple and safe" repairs to consumers, while other more complicated and difficult repairs only to professional repairers.⁷⁰ The concern over users' health and safety is one of Apple's arguments for

⁶⁵ Louis Rossmann., 2020. *Maryland HB1124 Right to Repair hearing*. 13 March. Available at: <https://www.youtube.com/watch?v=PZVdSRpvqQw&t=4446s> (Accessed: 6 April 2022) ⁶⁶ Buchholz, K., 2021. The Countries Producing the Most E-Waste. Statista. 25 February. Available at: <<https://www.statista.com/chart/24291/e-waste-by-country/>> [Accessed 30 March 2022].

⁶⁷ UK Parliament. (2021) *Electronic Waste and the Circular Economy / Commons Environmental Audit Committee*. 1 July. Available at: <https://www.youtube.com/watch?v=90k2Tk-BUIA> [Accessed: 24 March 2022].

⁶⁸ Paul, K., 2021. Why right to repair matters – according to a farmer, a medical worker, a computer store owner. The Guardian. 2 August. Available at: <<https://www.theguardian.com/technology/2021/aug/02/why-right-to-repair-matters-according-to-a-farmer-a-medical-worker-a-computer-store-owner/>> [Accessed 28

March 2022].

⁶⁹ HANLEY, D., KELLOWAY, C. and VAHEESAN, S., 2020. Fixing America: Breaking Manufacturers' Aftermarket Monopoly and Restoring Consumers' Right to Repair. Google Scholar, [online] p.4. Available at: <https://static1.squarespace.com/static/5e449c8c3ef68d752f3e70dc/t/5ea8a6d93b485d0feb9b5d6b/158811098207/Report_RightToRepair_HanleyKellowayVaheesan-1.pdf> [Accessed 25 November 2021].

⁷⁰ Espiner, T. and Wearn, R., 2021. *Right to repair rules will extend lifespan of products, government says.* [online] BBC News. Available at: <<https://www.bbc.co.uk/news/business-57665593>> [Accessed 3 April 2022].

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opposing towards Right to Repair legislation, which may be the reason for the UK government to take such measures. But moving forward it is essential for an extended Right to Repair legislation to ensure that ordinary individuals can perform repairs on devices they rightfully own. This will be especially important for those with learning difficulties, Autism and other disabilities which would significantly reduce their ability to gain the title of professional repairer.

EERPEIR "is to extend the lifespan of products by up to 10 years" by making spare parts available to perform repairs.⁷¹ Rossmann, pointed out that this would require manufacturers to keep an exact 10 years' worth of supply of spare parts to avoid breaching the law.⁷² And in scenarios where the inventory of supply has not been utilised, it would mean an enormous financial loss for the manufacturer.⁷³ This will obviously result in increased cost to consumers as manufacturers will attempt to regain the money lost from the unsold spare parts.⁷⁴

Year after year, fines have shown to do insignificant impact on corporations who receive fines, which is why I believe that fines should not be imposed on corporations and instead they should be required to assist in projects that would positively contribute towards our society, community, and our planet earth. Wealthy corporations within the technology sector like Apple would have no problem in paying large fines and will often look for ways to gain the same back lost back by increasing the price of their products for consumers.⁷⁵

Are there any alternative routes, instead of relying on an extended "Right to Repair" legislation, within the UK?

Even if the government decided to avoid extending the "Ecodesign for Energy- Related Products and Energy Information Regulations 2021" there are still a limited number of alternatives that we can take as consumers. But they would be less impactful in achieving similar goals and benefits as set out in an extended "Right to Repair" legislation. For example,

Raising awareness of the issue by letting consumers know the degree of repairability for each of their products. This is similarly done with French online stores where devices are ranked based on their degree of repairability, and scores are mentioned to encourage consumers to make more

⁷¹ Espiner, T. and Wearn, R., 2021. *Right to repair rules will extend lifespan of products, government says.* [online] BBC News. Available at: <<https://www.bbc.co.uk/news/business-57665593>> [Accessed 3 April 2022].

⁷² Louis Rossmann. (2021) Let's talk about the new UK right to repair law and why it isn't a failure. 2 July. Available at: <https://www.youtube.com/watch?v=z-TE-IVJOB4> (Accessed: 2 April 2022)

⁷³ Louis Rossmann. (2021) Let's talk about the new UK right to repair law and why it isn't a failure. 2 July. Available at: <https://www.youtube.com/watch?v=z-TE-IVJOB4> (Accessed: 2 April 2022)

⁷⁴ Louis Rossmann. (2021) Let's talk about the new UK right to repair law and why it isn't a failure. 2 July. Available at: <https://www.youtube.com/watch?v=z-TE-IVJOB4> (Accessed: 2 April 2022)

⁷⁵ Balu, N. and Randewich, N., 2022. Apple becomes first company to hit \$3 trillion market value, then slips. Reuters. 4 January. Available at: <<https://www.reuters.com/markets/europe/apple-gets-closer-3-trillion-market-value-2022-01-03/>> [Accessed 29 March 2022].,

Louis Rossmann. (2021) Let's talk about the new UK right to repair law and why it isn't a failure. 2 July. Available at: <https://www.youtube.com/watch?v=z-TE-IVJOB4> (Accessed: 2 April 2022)

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environmentally friendly decisions.⁷⁶ This will persuade manufacturers to compete by increasing the degree of the repairability of products, in order to rank higher on the website.

Educating others on how to reuse, repair and modify goods using pre-existing sources from creators like iFixit, Louis Rossmann, etc., on the World Wide Web can help to achieve our aims such as reducing e-waste.⁷⁷ While also, cultivating key skills among individuals performing repairs such as critical thinking and problem-solving skill.⁷⁸ Salvia G. et al., pointed out that user's lack of motivation in preserving electronic devices such as Vacuum cleaners corresponds to a shorter lifespan of the devices.⁷⁹

⁷⁶ SPEIGHT, A., 2021. *The UK's right to repair law already needs repairing*. [online] WIRED UK. Available at:

<<https://www.wired.co.uk/article/right-to-repair-uk>> [Accessed 8 March 2022].⁷⁷ Louis Rossmann.

(2021) Let's talk about the new UK right to repair law and why it isn't a failure. 2 July. Available at:

<https://www.youtube.com/watch?v=z-TE-IVJOB4> (Accessed: 2 April 2022)⁷⁸ Louis Rossmann. (2021)

Let's talk about the new UK right to repair law and why it isn't a failure. 2 July.

Available at: <https://www.youtube.com/watch?v=z-TE-IVJOB4> (Accessed: 2 April 2022)⁷⁹ Salvia, G., Cooper,

T., Fisher, T., Harmer, L. And Barr, C., 2015. *What is broken? Expected lifetime, perception of brokenness and attitude towards maintenance and repair.* [online] Available at:

<<http://irep.ntu.ac.uk/id/eprint/12817/>> [Accessed 18 March 2022].

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Conclusion (250 words)

The Ecodesign for Energy- Related Products and Energy Information Regulations 2021 (EERPEIR) marks a new beginning into our competitive market to regulate and restrict unjustifiable behaviours of manufacturers. But, in moving forward, an extension to the current Right to Repair legislation will be required, to covers more products, to ensure repairs and modifications can be performed by consumers and not just independent repairs shops or OEM's (Original Equipment Manufacturer) and to ensure that manuals and pieces of equipment are accessible to complete repairs effectively. An extended legislation will also address other related topics such as punishments for breaching the law, software in everyday objects, etc. Right to Repair has an enormous potential which once effectively implemented will be apparent.

An extended Right to Repair will create more opportunities for small repairing businesses to succeed, save consumers money, protect the environment from deteriorating further, advocate for better living conditions, especially among those living near waste disposal sites which are often in poor geographical areas. While also provide a form of free education among individuals. These benefits, as previously uncovered of having such legislation outweigh some of its drawbacks.

Guidelines set out in an extended Right to Repair legislation would need to be legally enforceable to ensure that manufacturers take serious steps to minimise their carbon footprint. Without the legislation manufacturers will continue to pursue best financial outcomes for their business, instead of creating and launching environmentally friendly solutions and services. These days, revenue is often prioritised over ethical and moral consideration.

Evaluation (250 words)

Undertaking the project was a memorable journey for me, as at first understand the qualification was an absolute struggle, such as being able to differentiate between a Literature/ Research Review with an Introduction.

During the project obstacles which I overcame were lack of knowledge about Harvard referencing method and how to make use it in relation to different types of sources, which I overcame by doing research and receiving guidance from our librarian. Difficulties in find a variety of sources, which I overcame by producing a list of key terms I could including during my search on websites like JSTOR. Balancing EPQ, with other subjects as well as my personal life, which I overcame by using my weekends and holidays. Managing my time effectively, which I overcame by producing and following the project plan for the most parts.

However, the project was a success and bypassed my own expectations, in terms of what I perceived myself to be capable of. I managed to gather adequate information on my topic to form a response to all my objectives, I adapted new skills such as reading and critical thinking skill, and cultivated my pre-existing expertise such as research skill, I managed to meet my personal goal in becoming more productive and efficient with my time, I discovered new tools which can be utilised in my future studies, gained a better understand of the IT industry and so much more.

The inclusion of a presentation nearing the end of the course taught to effectively present to an audiences mostly of my age, brief vs concise with my words, while maintaining their attention

throughout.

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Proposal Form



Project Proposal form

Learner Name Roland Joy Correia Learner number 41271

Centre Name St Charles Catholic Sixth Form
College Centre Number 10163

Teacher

Assessor MS Leech Date 15-10-2021 Unit

Proposed project title
“Should the existing Right to Repair legislation be extended by to cover more products within the UK?”

Section One: Title, objective, responsibilities

Title or working title of project (in the form of a question, commission or design brief)

Should the existing Right to Repair legislation be extended by to cover more products within the UK?

Project objectives (eg, what is the question you want to answer? What do you want to learn how to do? What do you want to find out?):

I want to investigate and answer these following questions in my project,

- 1. What would the Implications be of having an extended Right to Repair legislation, on individuals, businesses and the UK as a whole?**

- 2. How can the extended Right to Repair legislation be better regulated within the UK?**

- 3. Are there any alternative routes, instead of relying on an extended Right to Repair legislation, within the UK?**

If it is a group project, what will your responsibilities be?

IT IS NOT A GROUP PROJECT

Section Two: Reasons for choosing this project

Reasons for choosing the project (eg, links to other subjects you are studying, personal interest, future plans, knowledge/skills you want to improve, why the topic is important)

I have chosen this topic because it relates to my current field of study, IT. Undertaking this project will enable me to investigate the ways in which e-waste, also referred to as Techno Trash, affects countries around the world including the UK. Based upon my prior knowledge I am aware that Right to Repair would aim to reduce the burden on our environment. This environmental aspect links to my personal interests in building solutions to assist in the recovery of our planet.

I aim to further my understanding of the Information Technology industry while investigating Right to Repair. Undertaking EPQ (Extended Project Qualification) would allow me to demonstrate my passion and determination into acquiring new knowledge. I believe the finding from this project would positively influence my future decisions and my career path. Furthermore, this qualification will provide me with the opportunity to work on my time management and research skills. While also benefiting from critical thinking and reading skills when assessing information mentioned in sources.

Section Three: Activities and timescales

Activities to be carried out during the project (eg, research, development and analysis of ideas, writing, data collection, numerical analysis, rehearsal techniques, production meetings, production of final outcome, administration, evaluation, preparing for the presentation, etc):

How long this will take:

<p>Project Planning:</p> <p>I will be looking through the internet for useful resources (e.g., Google Scholar) relating to this project title and will also be rely on college library as well as a small set of books in my IT classroom. I will also make a reference document to include the source of the information and also make note of the dates visited.</p>	1 week
<p>Research:</p> <p>I will also be fact checking information claimed in the book as well as other resources. I will collect or make note of each piece of argument or information related to the topic which I find in the resources, and I will also include my personal opinion on it. To successfully give opinions on both perspectives and to avoid making my findings bias, I will look for Facts and statistics from trusted sources to support my views and information in the documents.</p>	4 weeks
<p>Attempt on the project title:</p> <p>After all the information is collected, I will make an attempt on my argument (project title) and the project objectives mentioned. I will include all of my findings in my project draft. I will include for and against arguments on the information collected from sources. I will follow the EPQ structure when attempting the project.</p>	5 weeks
<p>Reviewing final project:</p> <p>I will be reviewing all of my written findings in the final piece and make necessary adjustments. I will also look for spelling mistakes, grammar mistakes, unfinished sentence, and the word count, in accordance with the EPQ structure. Based on this I will be making necessary changes.</p>	
<p>Responding to Feedback:</p> <p>Based on the Feedback I have received by my mentor I will be improving all of the work for the final project.</p>	
<p>Presentation:</p> <p>I will make a presentation, to give a brief overview of my project and include interesting pieces of information discovered during research. In the presentation I will reflect upon my personal experiences during my time undertaking the qualification. I will plan my presentation in advance in order to decide on what to</p>	3 weeks

include, etc. Before the date of my presentation I will rehearse in my free time.

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	3 weeks
	1 week

October: Meeting with your mentor to discuss your question and objectives

Milestone one: Submission of Complete Introduction & Project Proposal

Form Target date (set by tutor-assessor): **5th November 2021**

November: Meeting with your mentor to discuss your research, sources and

referencing **Submission of Literature review 10th December 2021**

December: Meeting with your mentor to discuss your discussion and

conclusion **Milestone two: Submission of Completed first draft**

1. Introduction,
2. literature review (research section)
3. discussion &
4. Conclusion
5. Activity Log and Project Proposal Form

Target date (set by tutor-assessor): **14th January 2022**

January: Meeting with your mentor to discuss your first draft.

Milestone three: Submission Final Completed project (week after half term)

1. Full draft of project
2. Updated Activity Log

Target date (set by tutor-assessor): **21st February 2022**

Presentations - Review and evaluation of projects 7th March 2022

Milestone four: Submission – Review

1. Presentation slides
2. Written evaluation

Target date (set by tutor-assessor): **21st March**

Section Four: Resources

What resources will you need for your research, write up and presentation (eg, libraries, books, journals, equipment, rehearsal space, technology and equipment, venue, physical resources, finance):

The project is research based and I will be using the college Internet as well as my home internet in combination with appropriate electronic devices such as the college Computers in the library as well as personal computers to perform the research and to access and validate information claimed in websites.

Subject related articles/website/journals that will be used include,

[https://archive.discoversociety.org/2019/12/04/the-right-to-repair-and-endangered practices/](https://archive.discoversociety.org/2019/12/04/the-right-to-repair-and-endangered-practices/)

<https://commonslibrary.parliament.uk/research-briefings/cbp-9302/>

<https://www.wired.co.uk/article/right-to-repair-uk>

<https://www.bbc.co.uk/news/business-57665593>

Information will be sourced using well-known and used websites such as Google Scholar, Gale, JSTOR, and many other relevant websites offering informative sources.

As the topic is still in development and constantly being discussed online, it will be ineffective for me to rely on public and school libraries offering tangible copy of books and other publications apart from those already available on the World Wide Web. However, if lack of subject related information is found online, I will possibly explore public and school libraries.

As most of the resources needed and mentioned are already provided by the college, and owned by me, there will be no need for finances or for having a budget.

What your areas of research will cover?

- What is the right to repair?
- Are there any alternative paths which individuals and companies can take, to achieve the goals like reducing e-waste, etc., without a legislation?
- Implications of having a Right to Repair legislation for both businesses and consumers.
- Facts and statistics, to emphasise for and against arguments.
- What does the current Right to Repair legislation misses out on addressing?

Comments and agreement from tutor-assessor

Is the learner taking this project as part of the Diploma? Yes/No If yes, which Diploma are they

taking? _____ Comments (optional): _____

Is project derived from work which has been/will be submitted for another qualification? Yes/No

Which qualification (title and unit)? _____

Comments (optional): _____

I confirm that the project is not work which has been or will be submitted for another qualification and is appropriate.

Agreed: (name) (date)

Comments and agreement from project proposal checker

Comments (optional):

I confirm that the project is appropriate.

Agreed: (name) (date)

Project plan

Plan towards Milestone 3	Tasks /To do list	Weekdays Hours (including study periods & college hours)	Evenings / Weekends hours & Tasks
WC 17 th January	<p>Catching up with literature review. SQ3R's and RAVEN Analysis</p> <p>Complete at least one SQ3R's and RAVEN Analysis</p> <p>Updating the Activity log</p>	1 hours to complete this task	<p>2 hours to continue in catching up with the Literature Review and to complete the discussion plan.</p> <p>Complete at least 2 SQ3R's and RAVEN Analysis</p> <p>Updating the Activity log</p>
WC 24 th January	<p>Improve the Introduction and discussion, e.g. use of key terminology and meet with mentor to discuss my progress.</p> <p>For Introduction Make the points more concise and relevant to the project title.</p> <p>For Discussion Complete the for and against arguments, and use sources to either</p>	<p>2 hours for introduction</p> <p>2 hours for Discussion</p>	<p>4 hours to improve the conclusion</p> <p>4 hours to work on finishing up with literature review</p> <p>For Conclusion Work to meet the word count and include key terminology</p> <p>For literature review Complete SQ3R's and Raven analysis for at least 4 sources</p> <p>Updating the</p>

	<p>criticise or support your point.</p> <p>Updating the Activity log</p>		Activity log
WC 31 st January	<p>Meet with mentor to gain feedback on the work produced.</p> <p>Literature review Complete SQ3R's and RAVEN Analysis for all 15 sources used, and make sure that it meets the required word count.</p> <p>Updating the Activity log</p>	11 hours to complete this task	<p>12 hours to fix the bibliography</p> <p>Shift the bibliography in the format of a table with strength and weaknesses and expand it by including more info about sources. And reference all the sources in the required format, e.g. Harvard referencing method.</p> <p>Updating the Activity log</p>
WC 7 th February	Meet up with the mentor to show my progress	10 hours to complete this task	10 hours to finalise the literature review

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	<p>Review of all the work produced and to catch up on any work not completed as previously planned. Gain feedback from EPQ teacher on the work and work on the improvements.</p> <p>Updating the Activity log</p>		<p>Complete SQ3R's and RAVEN Analysis for sources if not completed and make corrections on grammar, spelling, etc.</p> <p>Updating the Activity log</p>
WC 14 th February (HALF TERM)	<p>Mon 2 hours -Revisit the discussion and make all the necessary changes. E.g., corrections on grammar, spelling, etc. Try to include more points.</p> <p>Updating the Activity log</p>	<p>Tues 4 hours -Revisit the Introduction and conclusion, make all the necessary changes. E.g., work on the structure of Introduction and conclusion. And make corrections on grammar, spelling,</p>	<p>Weds 6 hours -Reference sources using footnote. Using the appropriate referencing method.</p> <p>Updating the Activity log</p>

		<p>etc. Try to include more points.</p> <p>Updating the Activity log</p>	
	<p>Thurs 8 hours – Final check on Literature Review and bibliography E.g., corrections on grammar, spelling, etc. And sure, it all meets the word count.</p> <p>Updating the Activity log</p>	<p>Fri 6 hours- foot note referencing/ Citations for the whole discussion. Using the appropriate referencing method and effectively research the sources.</p> <p>Updating the Activity log</p>	<p>Weekend 4 hours- Checking if all points in the whole discussion are mentioned, evaluated and criticised, in accordance with the word count.</p> <p>Updating the Activity log</p>
WC 21 st February	<p>Read and improve the following documents:</p> <ul style="list-style-type: none"> • Introduction, • Literature review, • Discussion & conclusion • Bibliography and Appendix • Updated Activity Log and Final Project Proposal Form <p>Final meet up with the mentor to show my progress and to work on his feedback.</p>	12 hours to complete this task.	<p>TAKE A DEEP BREATH AND RELAX</p>

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	Updating the Activity log		
DEADLINE MILESTONE 3 – Full Final Draft - Friday 25th February 2022			
1. Introduction, 2. Literature review, 3. Discussion & conclusion 4. Bibliography and Appendix 5. Updated Activity Log and Final Project Proposal Form			

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Project Activity Log

Project Activity Log

Learner

Name Roland Correia Learner number 41271

Centre

Centre Name St Charles Catholic Number 10163
Sixth Form College

Unit Name Unit number 15-10-2021

Teacher

Assessor MS Leech

extended by legislation to cover more products within the UK?"

Proposed project title
"Should the Right to Repair be

This form should be used to record the process of your project and be submitted as evidence with the final piece of work.

You may want to discuss:

- what you have done (eg, from one week to the next)
- if you are working in a group, what discussions you have had
- any changes that you have or will need to make to your plans
- what resources you have found or hope to find
- what problems you are encountering and how you are solving them
- what you are going to do next

Date	Comments
14/09/2021	Based on the recommendation from one of my IT subject teachers, I choose "The impact of computer games on society" as my project title. This was closely linked with one of the books in my IT classroom named "Reality Is Broken: Why Games Make Us Better and How They Can Change the World", making the project title attractive to choose due to its relevance.
17/09/21	I continued to research other possible source and came across these two: 1. "Effect of Addiction to Computer Games on Physical and Mental Health of Female and Male Students of Guidance School in City of Isfahan" (https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3905489/)

	<p>2. “The Impact Of Gaming: A Benefit To Society [Infographic]” (https://www.forbes.com/sites/kevinanderton/2018/06/25/the-impact-of-gaming-a-benefit-to-society-infographic/?sh=4f93f27c269d)</p> <p>The first article has been sourced from the U.S. National Institutes of Health's National Library of Medicine (NIH/NLM). Which makes this a fairly reliable and trustworthy source. The article is based on a “study aimed to investigate the effects of addiction to computer games on physical and mental health of students”. It includes an enormous number of facts and statistics that would be useful in supporting my claims in the dissertation. The study focused on both the negatives and positives of interacting with computer games.</p> <p>The second article is published by one of the contributors on Forbes, discussed findings from a survey made by a platform called “Qutee” to express the benefits of playing computer games mainly on individuals. I completed the project proposal form and accomplished 1st draft of the introduction. This work was submitted as part of my application for the EPQ course on Microsoft Teams.</p>
9/10/21	I have started to read more into my sources especially the book, “Reality Is Broken: Why Games Make Us Better and How They Can Change the World” and so far it has given me very interesting ideas and insights into all the possible topics I can uncover and evaluate in my dissertation.
12/10/21	After serval days of reading the book, I found a disconnection with the project title “The impact of computer games on society”. Also, it was a verry poor project title so, I attempted to explore my personal interests in relation to the academic subjects to construct a better and more meaningful project title. I performed research into existing project titles and with discussions with my classmates and teacher I reached the conclusion to make the following my project title, “Should the right to repair be mandated by legislation for all companies in the UK?”.
15/10/21	I completely redrafted my project proposal and Introduction document for the 2 nd time, to reflect the change in project title. I submitted these documents on Teams as part of an assignment prior to the milestone 1 submission. I preceded with this project title due to my interests being mainly in Information Technology (IT) and with my passion in the environment, I decided to investigate this topic further to catch up with the work.
03/11/21	I have been visiting my sources and gathering information from them to better understand the topic and to include the information in my introduction paragraph. I have set myself to answer small questions from selected sources, currently I am trying to build an answer to “What is the Right to Repair?”
04/11/21	I have gathered some sources and have done some small reading over them, to see if they relate to my project and to identify if the information mentioned can be useful.

Milestone one submission on 05/11/21	I have completed and submitted the project proposal form as well as the introduction for my project titled, "Should the right to repair be mandated by legislation for all companies in the UK?". In the project proposal form the following things were changed,
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	There were changes to the project title based on the feedback from my mentor on Thursday 4 th November. The "Project objectives" in the proposal form were slightly changed to get as much information as possible from the questions. "Section Two: Reasons for choosing this project" was slightly reworded, to make sure the paragraph was not going off topic. In "Section Three: Activities and timescales" one of the activities was changed from "Small Interview" to "Small Questionnaire". This way I will be able to target a much larger group of audiences and also give participants more flexibility by collecting their views through an online questionnaire.
25/11/21	I was introduced to writing EPQ literature review, and have been reading and analysing one of my main sources "Fixing America"
26/11/2021	I have started writing EPQ literature review, Currently I am researching the authors of one of my main sources "Fixing America" while also answering other questions about the source.
6/12/21	I did intense research on my project title, in a bid to find academic articles on sites like GaleDatabase and Jstor.
7/12/21	I did intense research on my project title and on other related topics which will also be the focus of my project. I found multiple academic articles on GaleDatabase and covered topics like environmental impacts of landfills, impact of landfills on human body, and in general the idea of being able to repair goods. After struggling to find diverse range of article all linked to my topic, I created a document on which I listed all of the possible keywords to use when performing research for resources on sites like GaleDatabase, Jstor, Google Scholar, etc.
8/12/21	By using the documents created yesterday to perform intense research on sources related to my topic, I have come across several academic articles and journals. I have also started doing analysis of each source, using the RAVEN analysis.
9/12/21	I continued to perform intensive research for sources relating to my project title and all of the possible questions which I am planning to address in my dissertation.
10/12/21	A deadline was met and a table was produced to validate all of

	the sources. Instead of doing 15 I ended up evaluating 2 sources.
13/12/21	I worked on and fully completed a RAVEN framework research analysis for the academic source, “What is broken? Expected lifetime, perception of brokenness and attitude towards maintenance and repair”
16/12/21	I read through my second source, “Fixing America- Breaking Manufacturers’ Aftermarket Monopoly and Restoring Consumers’ Right to Repair” and I am in the process of finishing the Raven Analysis and evaluation of this source in my bibliography.
17/12/21	I worked towards the planning of my essay, Discussion/ analysis/ evidence section of the EPQ project. I discussed for and against arguments for the topic.

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30/12/21	I went over most of guidance documents and videos provided by my teacher to help me better understand the tasks that I need to complete. I have made a list of all the tasks that I need to complete. I spent this whole day catching up on work. I investigated how authors can use bias in their text and went on to identify bias in my downloaded sources.
31/12/21	I applied SQ3R’s method to the downloaded source, named “What is broken? Expected lifetime, perception of brokenness and attitude towards maintenance and repair” and notes for this were made in my book.
1/01/22	I applied SQ3R’s method to the downloaded source, named “Fixing America: Breaking Manufacturers’ Aftermarket Monopoly and Restoring Consumers’ Right to Repair” and notes for this were made in my book.
5/01/22	I applied SQ3R’s method to the downloaded source, named “Health Effects of Residence Near Hazardous Waste Landfill Sites: A Review of Epidemiologic Literature” and notes for this were made in my book.

5/01/22	<p>I researched sources that were against the Right to Repair, and the following sources were found,</p> <p>https://www.manufacturing.net/operations/blog/13228762/3-risks-to-right-to-repair-legislation</p> <p>https://www.rowse.co.uk/blog/post/what-does-right-to-repair-mean-for-manufacturers</p> <p>I also investigated efforts of manufacturers to support the concept of having the right to repair and came across this source,</p> <p>https://www.apple.com/uk/newsroom/2021/11/apple-announces-self-service-repair/</p>
13/01/22	<p>Working towards Milestone 2 first full draft. For the whole day I worked on Essay -plan. In the essay plan I included the different questions and themes which I can explore. I had a small glimpse over my sources.</p>
14/01/22	<p>Working towards Milestone 2 first full draft deadline. I investigated the different ways in which I could reference sources, e.g. quotation, paraphrase, etc. I referenced the sources that I found previously and also new sources with useful information, such as facts and statistics. I applied the footnote reference method and also learned how to reference a YouTube video. I had a small glimpse over my sources.</p>
02/02/22 P5 to P6	<p>I attended an EPQ Surgery session and got feedback on my introduction. The feedback was to explain the project title in basic terms so that as a person that has no idea about it can understand what it is all about. Explain as much as possible.</p>

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04/02/22	<p>During my EPQ lesson, I attempted to work on the feedback given in EPQ Surgery session and improved my introduction by adding more information about my project title.</p>
08/02/22	<p>Due to an extremely important deadline on 7/02/22 for my BTEC IT subject I was not able to make any time for EPQ at all as the large amount of coursework for IT was my utmost priority. This has meant that I have not meet the deadlines which I set for myself. Before catching up with the EPQ work, I started off by organising my physical EPQ folder that includes academic sources and course guidance in a tangible form. Due to overwhelming number of guidance material in my tangible EPQ folder I attempted to clear all the . And I stapled the content based on it's type, e.g. Course material, information for introduction paragraph, and the academic sources related to my EPQ project title.</p> <p>I meet up with my mentor and discussed my Dissertation/Essay Plan and arranged to meet up again, two days later.</p> <p>Lastly, I worked on structuring and fixing the Introduction paragraph ahead of the meet up with my mentor, on 10/02/22.</p>

09/02/22	I attended an EPQ surgery session and worked on improving the Introductory paragraph.
10/02/22	I attended an EPQ lesson and meet up with my mentor for a 1-hour session. We discussed about the Dissertation Plan and how I should approach the project title. He also recommended to modify the project title after the discovery of UK “Right to Repair Regulations”.
11/02/22	I attended an EPQ surgery lesson, and worked on the feedback my mentor provided me. I also gained feedback on my introduction which was to reference the source of information, from my EPQ teacher.
14/02/22	I did not find the time to make the necessary modifications due to I am currently continuing to work on all the feedback.
22/02/22	The objectives were improved on the dissertation plan and more relevant questions were included.
23/02/22	I attend an EPQ surgery club and received feedback from the teacher on my progress on the project. I was advised to slightly modify the project title and to go straight to making an attempt on the final dissertation draft, instead of continuing to complete the dissertation Plan. An attempt was made on completing the Bibliography.
24/02/22	Information was transferred to the Literature review from the Introduction and research was done into how to reference a wide range of sources using the Harvard referencing method. I answered one of the smaller questions associated with the first project objective. Therefore, making a start on the finial Dissertation Draft.

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25/02/22	I answered the 2 nd and 3 rd question for the first objective. Strong for and against arguments were included. Also, ideas from the sources were referenced.
03/02/22 To 09/03/22	Progress was made on the discussion and more time was dedicated towards reading the sources.

27/04/22

I performed a presentation to my fellow classmates, to information them about my experience from undertaking the EPQ project. The presentation covered, a brief insight into what the project title means, reasons for choosing it, the structure, which was followed when attempting to complete the project, some of my fascinating finding during research into the project title, the types of sources which were used, things that went well and what some of the areas needing improvement were, the challenges which I faced and how I overcame them. The presentation included minimal information to avoid overwhelming my audiences with information, and to maintain an eye-contact with my viewers in order to engage with them. In most of the slide's, information was hidden from viewers such as why I found the information mentioned interesting, how I overcame the obstacles mentioned, etc., but answers to these questions were uncovered verbally during the presentation with others.

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Presentation:

1



Should the existing Right to Repair legislation be extended to cover more products within the UK?

2

Reasons For Choosing This Project Title

- Cause of environmental problems and research could lead me to uncover sustainable solutions.
- Topic related to my current field of study and its findings will assist towards better understand the industry that I want to be a part of.
- I was previously exposed to the topic, but I often heard one side of the story from consumer and not the manufacturers. So, I wanted to make a judgement of my own.

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3

Project Objectives

- ❑ What would the implications be of having an extended Right to Repair legislation, on individuals, businesses and the UK as a whole?
- ❑ How can the extended Right to Repair legislation be better regulated within the UK?
- ❑ Are there any alternative routes, instead of relying on an extended Right to Repair legislation, within the UK?



How I Attempted The Project



Skimmed read introduction and conclusion of sources to judge their relevance to my project.



Performed source analysis to judge reliability and validity of source.



Completed a detailed dissertation plan.



Attempted dissertation, abstract, literature Review, and the conclusion.



Worked on the feedback to make improvements to work

Interesting findings

- UK was reported to be the 2nd highest e-waste producing country in the world with 23.9Kg per capita
- 65% of consumers avoid getting their smartphones repaired due to overwhelming fees
- Software is present in our everyday "consumer product- from barbie dolls to doorbells to automobiles" to kettles
- Apple's "Error 53" occurred when the iPhone detected a non-OEM part of "screen or Touch ID home button"
- Microsoft and Apple glue components together in their manufactured devices to restrict repairs

Types Of Sources Used



1. News Articles



2. Academic Journals



3. Online Articles



4. YouTube Videos

Image

References:

1. <https://cdn3.iconfinder.com/data/icons/communication-2-2/256/Newspaper-512.png>
2. https://cdn3.iconfinder.com/data/icons/scientific-objects-line/32/academic_journal_science_research_scientific_object_25-512.png
3. <https://static.thenounproject.com/png/1663884-299.png>
4. <https://www.unr7uk.org/wp-content/uploads/2018/11/Vision-video-production-freemake-video-downloader-video-icon-one-free-download-5a75f3b65c1b2603163473315176800543773.png>



What Went Well

- A wide collection of useful sources in relation to the project title
- Clear Project Progress Tracker to maintain a well organised workflow
- Highly detailed Dissertation plan
- Consistent monitoring of my progress on the project through the Activity Log
- I received crucial feedback and comments from my mentor, assessor just in time for me to make adequate changes

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What I Would Do Better Next Time

Even Better If....

- Dissertation was started earlier as objectives and project title were altered. To meet these changes new sources had to be found.
- The Progress Tracker Plan was thoroughly followed
- I investigated the structure of the course and what each of the document required from me prior to completing my first drafts.
- More academic sources were fetched instead of relying on YouTube Videos.

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Obstacles I Overcame

- Lack of knowledge about Harvard referencing method and how to make use it in relation to different types of sources
- Balancing EPQ, with other subjects as well as my personal life
- Modifying title and objectives meant new sources had to be found
- Discussion on Right to Repair has recently received attention of mainstream media, and research into the topic is still pending. Therefore, academic sources were limited
- Lack of sources addressing Right to Repair in the UK instead of America, such as statistics

