

PROJECT BRIEF

| Organisation Information | |
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| Company Name | Resole |
| Registration No | 12592379 |
| Website | https://resole.org.uk |
| Location | Blue Star House, 234-244 Stockwell Rd, London SW9 9SP |
| Organisation type | Community Interest Company |
| Contact Person | Sofia Chianca |
| Email | admin@resole.info |
| Organisation YouTube channel | https://www.youtube.com/channel/UCtBfmzzG9oVuPqTntX84D2w |
| Organisation Background | <p>Context: Mass production of sneakers/trainers places the industry just behind aviation and shipping in terms of global emissions. It is estimated that 300 million shoes each year end up in landfills.</p> <p>Resole was founded in 2018 by Moosa Nsubuga and began as an organised effort to redistribute unwanted sneakers across the UK. Over the past 5 years, Resole has established a Hub in Brixton Village and distributed over £2m worth of trainers. Resole has two branches of their organisation, one focusing on recycling (taking in preloved trainers to prolong life). Where this is not possible, shoes are sent to a recycling partner. The other branch focuses on community (providing individuals with trainers who cannot afford them). Resole works with and supports local communities, footwear brands and industrial partners in facilitating access to appropriate footwear and in promoting sustainability.</p> <p>Mission:</p> <ul style="list-style-type: none"> • To keep shoes out of landfills and reduce the environmental impact through repurposing of footwear. • To help more children attend and take part in sport at school. • To provide dignity and hope to people in deprived communities. • To promote good foot health <p>Model:</p> <ul style="list-style-type: none"> • Recycle – Reuse – Reduce • Collection of unwanted footwear, either using shoe bins or donations to hub locations by individuals or organisations. • Processing of donated footwear, including cleaning and preparation for redistribution and/or recycling. • Distribution of footwear to local communities • Resole also offers a referral programme where people can request footwear through its website. <p>Challenges:</p> |

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| | <ul style="list-style-type: none"> • How best to measure the performance and efficiency of our operations? • How can we improve key operational processes, such as collection and preparation of footwear? • How can we improve tracking and management of footwear inventory? • How to measure the impact of Resoles activities across the communities it serves? • Do we have all the datasets we need, or do they need to be combined/integrated with other external sources? |
| Project Brief A - Cleaning optimisation processes and procedures | |
| Context | <p>A critical activity of Resole relates to the cleaning and preparation of footwear for redistribution.</p> <p>Your team will support Resole in quantifying the efficiency of this activity and in identifying areas where it could make improvements. This would include an analysis of current practices and the use of systems thinking and operational research methods to understand how best to allocate its resources.</p> <p>Questions that your team will need to address include:</p> <ul style="list-style-type: none"> • What proportion of shoes need high/medium/low levels of preparation and cleaning before being distributed? • How much time is spent preparing shoes for distribution and how efficient is the process? • What is the average cost to clean and prepare a shoe for distribution? • What are the biggest cost components? |
| Scope | <p>1. Current processes</p> <p>Your team will undertake an analysis of existing operational procedures from footwear collection, cleaning and preparation to redistribution. This will be informed by an analysis of the organisation's historical operational data. Your team will also have an opportunity to collect information from the client organisation at the project briefing workshop. Your team will need to prepare a list of relevant questions to ask in advance.</p> <p>Your team will develop a model to map out key steps and resources used in each stage of the process, identifying bottlenecks, potential inefficiencies and decision points.</p> <p>2. Research and Benchmarking</p> <p>Your team will research best practices in related industries, and or organisations, and carry out a critical evaluation of current processes. It will be important to draw on examples from organisations handling donated goods. Your team will Identify innovative technologies or methods that could be relevant and assess their applicability.</p> <p>3. Improvement Opportunities</p> <p>Your team will synthesise your analysis of current processes and</p> |

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| | <p>research into best practices to identify potential areas for improvement. Your team will need to evaluate and prioritise different opportunities according to an assessment of their impact, including with regards to sustainability and feasibility.</p> <p>4. Report for business executives</p> <p>The report should discuss your team's findings. It should highlight the assumptions made, limitations and associated gaps. It should note where more data needs to be acquired or where data is uncertain. It should discuss the potential costs and benefits associated with identified improvement opportunities. Implementation risks and challenges should be signposted and reflected upon.</p> |
| Project Outcomes | <ul style="list-style-type: none"> • Provide a Final Report, plus provide access to your team's GitHub showing your analysis, code and outputs. • Deliver a live 10 mins presentation; this will be a high-level summary of your research, methods, analysis, insights and recommendations. |
| Project Brief B – Understanding communities in need | |
| Context | <p>A critical activity of Resole relates to redistribution of footwear to those most in need.</p> <p>Your team will support Resole in analysing and modelling areas of deprivation across the UK. This would include an analysis of socio-economic factors, population demographics and access to resources to better understand community demand. Your project would help Resole to understand where targeted assistance is most needed.</p> <p>Your team will also have an opportunity to collect information from the client organisation at the project briefing workshop. Your team will need to prepare a list of relevant questions to ask in advance. Your team will need to develop a dashboard or notebook to showcase the analysis you have conducted.</p> <p>Questions that your team will need to address include:</p> <ul style="list-style-type: none"> • Which geographic regions have the highest level of need? • Are there any emerging trends or shifts in deprivation levels that should be considered in future redistribution efforts? • Whether it is possible to predict demand considering factors such as income level, access to resources and population demographics? • What impact might footwear redistribution initiatives have in areas with the highest level of need? |
| Scope | <p>1. Data collection and integration</p> <p>Your team will need to identify relevant publicly available datasets related to deprivation across the UK. The datasets should include data on socio-economic factors, population demographics, income levels, access to resources and location. Your team will then need to perform any necessary data preparation and integration to create a comprehensive dataset for analysis.</p> |

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| | <p>2. Exploratory analysis</p> <p>Your team will conduct exploratory data analysis of deprivation and summarise your key findings. Your team will identify correlations and relationships between socio-economic indicators and deprivation levels in different geographical areas. This could for example be at the town or city level. Your team will create a dashboard to help visualise your findings, ranks areas based on their level of deprivation and gain insights that would guide and support the client organisation in targeting its resources.</p> <p>3. Trends and modelling</p> <p>Your team will using appropriate statistical and operational research techniques to analyse trends in deprivation. Your team will use the insight generated to develop forecasts of future deprivation levels taking into the relationship between different socio-economic factors and changes in population demographics. Your team will need to select appropriate metrics to measure forecast accuracy and evaluate the reliability and performance of the models developed.</p> <p>4. Report for business executives</p> <p>The report should discuss your team's findings. It should highlight the assumptions made, limitations and associated gaps. It should note where more data needs to be acquired or where data is uncertain. It should discuss the potential advantages and disadvantages of using the outputs you have developed to support decision making. Any implementation risks and challenges should be signposted and reflected upon.</p> |
| Project Outcomes | <ul style="list-style-type: none"> • Provide a Final Report, plus provide access to your team's GitHub showing your analysis, code and outputs. • Deliver a live 10 mins presentation; this will be a high-level summary of your research, methods, analysis, insights and recommendations. |