

Data Analytics Project Brief

Organisation Information	
Company Name	KORU IMPACT SOLUTIONS
Business Number	SC798250
Location	Glasgow, UK
Organisation type	Data apis
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Organisation Background	<ul style="list-style-type: none">• Our mission is to make measuring impact as easy as calculating the financial performance on investments.• Customers: B2B, Fund managers with publicly listed stocks who have a 'sustainability impact' fund, as defined by the FCA (https://www.fca.org.uk/publication/policy/ps23-16.pdf) and who produce an impact report (in line with SDR regulations and outlined in https://thegiin.org/)• Products: A digital solution, via API, which automates impact reports, currently taking 700 hours, and enriched with world data sets to demonstrate the impact on the planet providing a 'return on world'. So in basic terms, this fund (made up of these stocks) = has X impact on a set of sustainability metrics. For example, across the fund there is X tons carbon emitted, Y tons offset for net impact of Z.

	<ul style="list-style-type: none"> • Competitors: MSCI, Sustainalytics, Impacted cubed. Although their customers are the same as ours, their products are providing company data, and rearward facing – audit, without enrichment from other sources, and we see the first two as potential acquirers. • Business Model: pre revenue, annual license based on no. stocks in a fund and financial value of assets under management. • Challenges: <ul style="list-style-type: none"> o <i>Making sure we are on track with our plan to get the best from this project.</i> o <i>We have a list of global data sets, how to integrate them as the impact differs per country.</i> o <i>Do we have all the datasets we need?</i> o <i>How can we create a macro metric that works for all sectors?</i> o <i>How do we create a data pipeline and provide 'live data' instead of audit once a year snapshots.</i>
Project Scope	
Context	<p>We are a startup with a clear problem to solve, a route to market and are creating our MVP.</p> <p>The purpose of our tool is to automate the fund manager's impact report, e.g. (https://www.abrdn.com/docs?editionId=821b6565-eb9f-48a3-ab1e-bc620251fc4a), enrich it and add in new regulations and show that 'this fund' with 'these stocks' delivers quantifiable impacts across a range of environmental / sustainability metrics.</p> <p>In order to build a new tool, we need accurate data that underpins it. This is where your team will be supporting. Your team will be seeking the errors and gaps in our datasets to improve consistency.</p>
Project Scope	<p>1. Evaluate the sources of data and the research methods to determine inherent accuracy risks or biases in the data</p> <p>Each team will be assigned a set of base environmental metrics and associated global data sets.</p> <ul style="list-style-type: none"> • Biodiversity (that includes flora and fauna and the deforestation) • Waste generation • Water - contaminants and levels

- [Temperature rise](#)
- [GHG and air pollution](#)

2. Undertake pre-processing to cleanse and integrate data in an appropriate analytical tool (e.g. Python)

You will take the source data and structure it so it can be analyzed globally, by country. And then, aggregate it up to a global level.

3. Develop a statistical model for measuring error margins for each metric

You will come up with a model for determining “error margins” against the metric. E.g. the data for wastewater is more precise for some countries v.s. others. So depending on the metric selected, there will be different error margins. If the data with each individual metric is aggregated, the error margins can be used to determine the accuracy of the combined metric. By improving the quality of the source data it should be possible to reduce these error margins.

4. Find an additional public data set that could improve the accuracy of a metric and use the model to show how incorporating that data reduces the error margin

You should be able to find at least one public data set that improves metric accuracy even if only for a particular region.

5. Apply the outputs through 4 lenses

The outputs can then be aggregated and viewed through 4 lenses, Health, Society, Environment and carbon intensity. Look at the impact of each of the given lenses and the weighting/impact they have. For example, the impact of temperature rise on health, and then on society, and so on. Which one is affected the most by changes in the selected metric?

6. Based on your analysis, provide insights and recommendations in a report for business executives

The report should discuss the existing metrics data sets and quantify the accuracy and associated gaps. It should note where more data needs to be acquired. It should discuss the potential applications and limitations of the metric - ie, geographic granularity, how each country's data can be combined, and if one particular data set is only available in 1 country how to integrate with other countries to provide a global view.

This will help our organisation to:

	<ul style="list-style-type: none">• Understand the granularity of our data and where the gaps are so we can source additional public and private data sets• Address a gap that our competitors have and solve a direct problem that fund managers have
Data Sets	https://drive.google.com/drive/folders/1nAszhlcRwtIAAhAoKljO__Qctxztrbai
Project Outcomes	<ul style="list-style-type: none">• Provide a Final Report, plus provide access to your team's GitHub showing your pre processing and outputs• Present a live 10 mins presentation; this will be a high level summary of your research, methods, analysis, insights and recommendations