Data Carbon Scorecard

The tool is based on the Data Carbon Ladder, designed to facilitate insightful discussions surrounding the conceptualization of new data projects and their potential environmental ramifications.

Tick the box that corresponds to your selection...	Green	Amber	Red
Step #1. The first step involves identifying the data necessary to solve the problem...			
Q. Relevant internal data is available (select one option): **YES** / **SOME** / **NONE**	☐	☐	☐
Q. Evolving existing datasets (select one option): **YES** / **SOME** / **NONE**	☐	☐	☐
Step #2. How the data is accessed...			
Q. Data Accessibility (select one option): **Utilizing the dataset at host** / **Combining fresh datasets with pre-existing ones** / **Bring in dataset from an external source**	☐	☐	☐
Step #3. Consideration has to be given to the size of the data set that needs to be accessed...			
Q. Data Size (select one option): Size of dataset is ≤ **2gb** OR > **2gb and ≤ 3gb** OR > **3gb**	☐	☐	☐
Step #4. The next consideration is the frequency of data updates for report generation...			
Q. Velocity (select one option): **Data is batch processed** / **Data remains static** / **Data receives near real-time updates** / **Data receives real-time updates**	☐	☐	☐
Q. Data cadence (select one option): Annual data increase is ≤ **2gb** OR > **2gb and ≤ 3gb** OR > **3gb**	☐	☐	☐
Step #5. The location for storing data is a significant next variable...			
Q. Storge (select one option): **No storage of data** / **Data centre, lake, warehouse** / **On-premise storage**	☐	☐	☐
Step #6. Decisions regarding the type of AI utilized; what level of analytics is required...			
Q. Analytics used (select one option): **Descriptive** / **Predictive** / **Prescriptive** / **Cognitive, Generative AI**	☐	☐	☐
Q. Data availability (select one option): **Data is accessible to all** / **Data is accessible to some** / **Data is not available**	☐	☐	☐
COUNT:	_____	n_____	n_____
9 – n**R** – (n**A**/2) = Data Project CO2 rating:			

COMPLETION TIPS

1. **How to use it:** The first step is to identify the specific project you wish to undertake, Next, carefully consider each of the nine questions and critically evaluate your answers.
2. **Who should use it:** The tool caters to all stakeholders engaged in the early stages of project initiation, ranging from the problem owner to the dedicated team responsible for constructing the final report.
3. **Where should I start:** Respond to each of the 9 questions. Each question will receive a red, amber, or green score. Count the number of 'Reds' (nR). Then, count the number of 'Ambers' and divide this number by 2 (nA/2). Add the two totals together and subtract from 9 – this will provide the overall data project CO2 rating.
4. **How to interpret the score:**

   Rating 7+: While the project has some impact on the environment, it is deemed acceptable to proceed.

   Rating 4 to 6: The project has a moderate CO2 impact, and although it can proceed, it is advisable to explore greener alternatives and consider steps to minimize its environmental footprint.

   Rating 0 to 3: The project exhibits a significant CO2 footprint, prompting the need to evaluate whether a more environmentally friendly dataset can be obtained or if adjustments can be made to the problem statement, such as reassessing the necessity for real-time analytics.