UNIVERSITY OF BAHRAIN ENVIRONMENTAL SUSTAINABILITY RANKING SYSTEM

UOB ESHEIRS

UoB ESHEIRS **Methodology** 2023

Version 1

UNIVERSITY OF BAHRAIN ENVIRONMENTAL SUSTAINABILITY RANKING SYSTEM

UOB ESHEIRS

Introduction

Welcome to the University of Bahrain Environmental Sustainability Higher Education Institutions Ranking System Methodology guide.

Herewith a detailed description of the system's 2023 methodology. It is intended to explain the process and how the calculations of results is done.

This is the first guid related to the system as it is under process. It is based on an application of current Environmental Sustainability Higher Education Ranking System (ESHEIRS) indicators with the addition of some new. Beside the addition of new indicators, the UoB ESHEIRS customize its methodology based on the climate class of the country of residence of the university, or based on the university "location". Koppen Giger climate classification system and machine learning techniques are used in the methodology.

This document shows an overview of the ranking system, how the overall ranking is generated, followed by a section on how the ranking results is calculated.

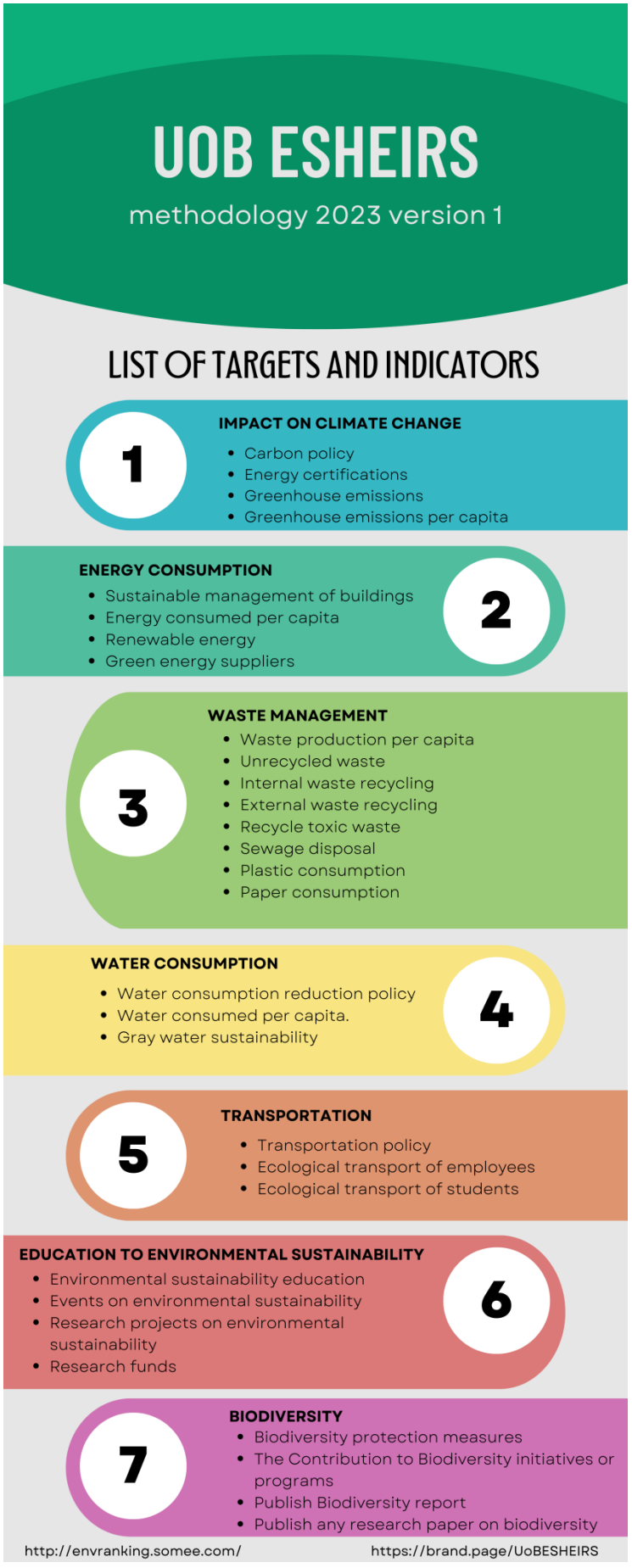
The target is to rank universities from all ove the world transparently. Another target is to engage with universities and higher education institutions more directly. If the guidance is not clear please contact me on one of my social media account from https://brand.page/UoBESHEIRS

Anwaar Buzaboon
Ph.D. Student
University of Bahrain

UNIVERSITY OF BAHRAIN ENVIRONMENTAL SUSTAINABILITY RANKING SYSTEM

UOB ESHEIRS

Strategy



Manifesto

We use Location-based Sustainable Philosophy in our methodologies. It is built on a sustainable philosophy that takes into consideration the unique environmental, social, and economic conditions of the location where higher education institutions are located.

Milestones and Metrics

Our metric designing process uses various methods to assess the current environmental sustainability ranking systems, which we then use to inform our indicator selection. From our pre-assessment, we found that UI Greenmetric scored the highest across all of our methods, and consequently, we utilize their indicators as the foundation of our metrics. However, we have also incorporated new targets and indicators, along with an automated indicators weights setting methods. Additionally, we have implemented a location-based sustainable philosophy to ensure our metrics are tailored to the unique environmental, social, and economic conditions of the areas where higher education institutions are situated. The targets and indicators are in the infograph.

Measurement

Each indicator will be assigned a numerical score to facilitate statistical analysis of our data. These scores will be based on either a simple count of occurrences or responses on a scale. Using a numerical scoring system, we can analyze our data more effectively and gain valuable insights into the factors influencing our outcomes.

Metric Evaluation

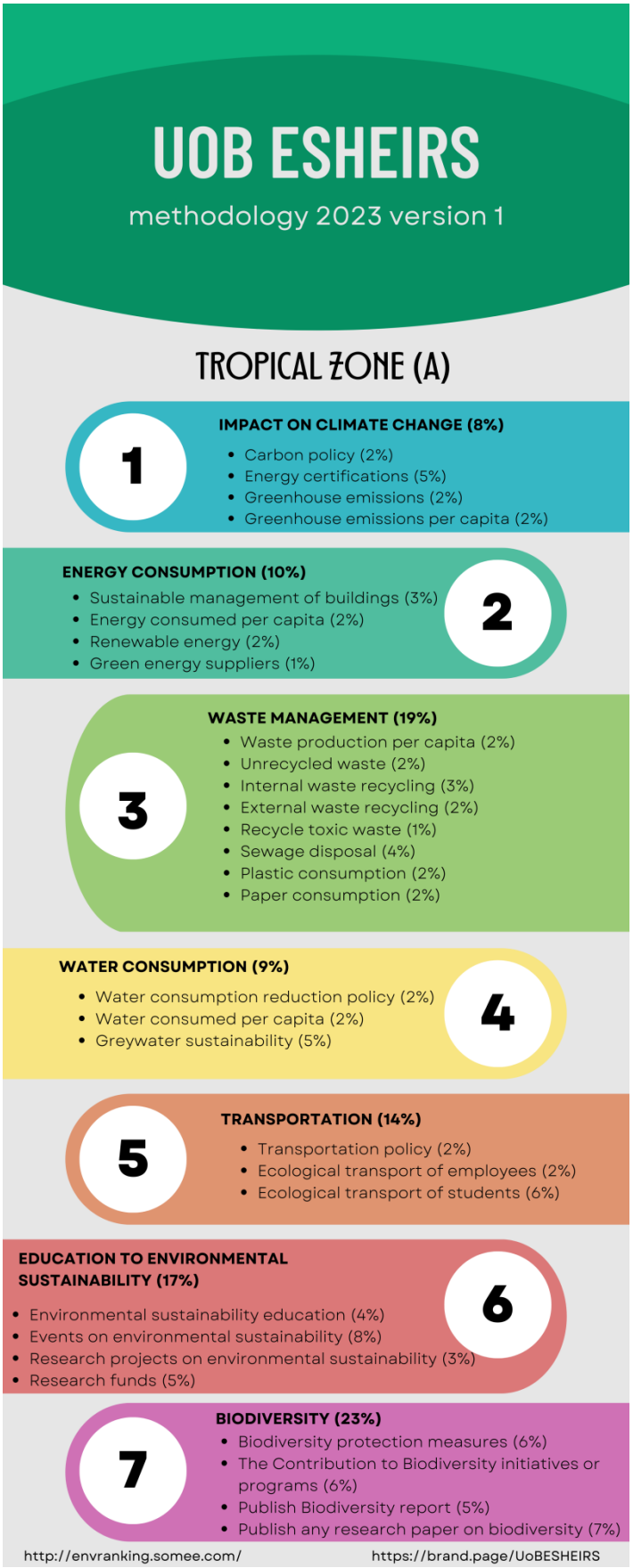
When processing the results, we will categorize each indicator into a general target.

Methodological Monitoring

Despite our best efforts to design and implement the questionnaire, we understand that the first version will likely have flaws. As a result, we will regularly evaluate the criteria and weightings to incorporate participant feedback and get up to date with the latest developments in the field. Your comments and suggestions would be greatly appreciated.

UNIVERSITY OF BAHRAIN ENVIRONMENTAL SUSTAINABILITY RANKING SYSTEM
UOB ESHEIRS

Strategy

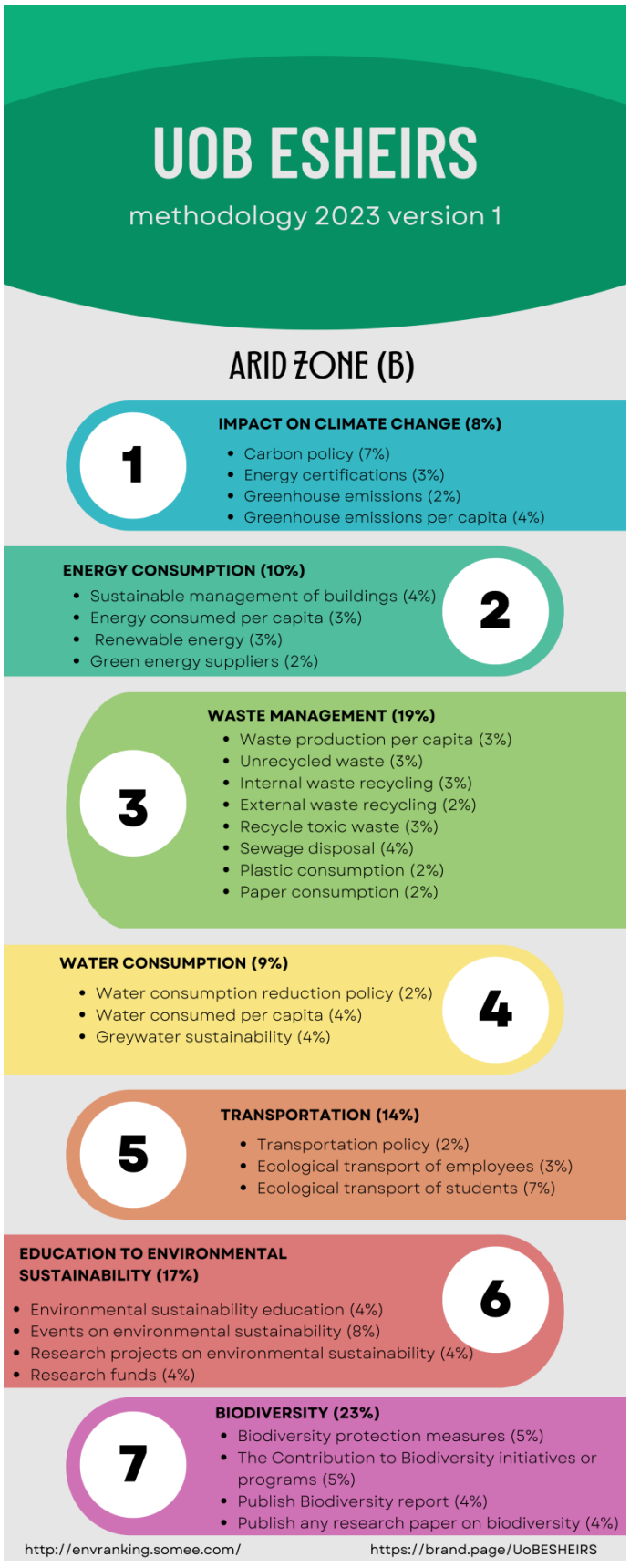


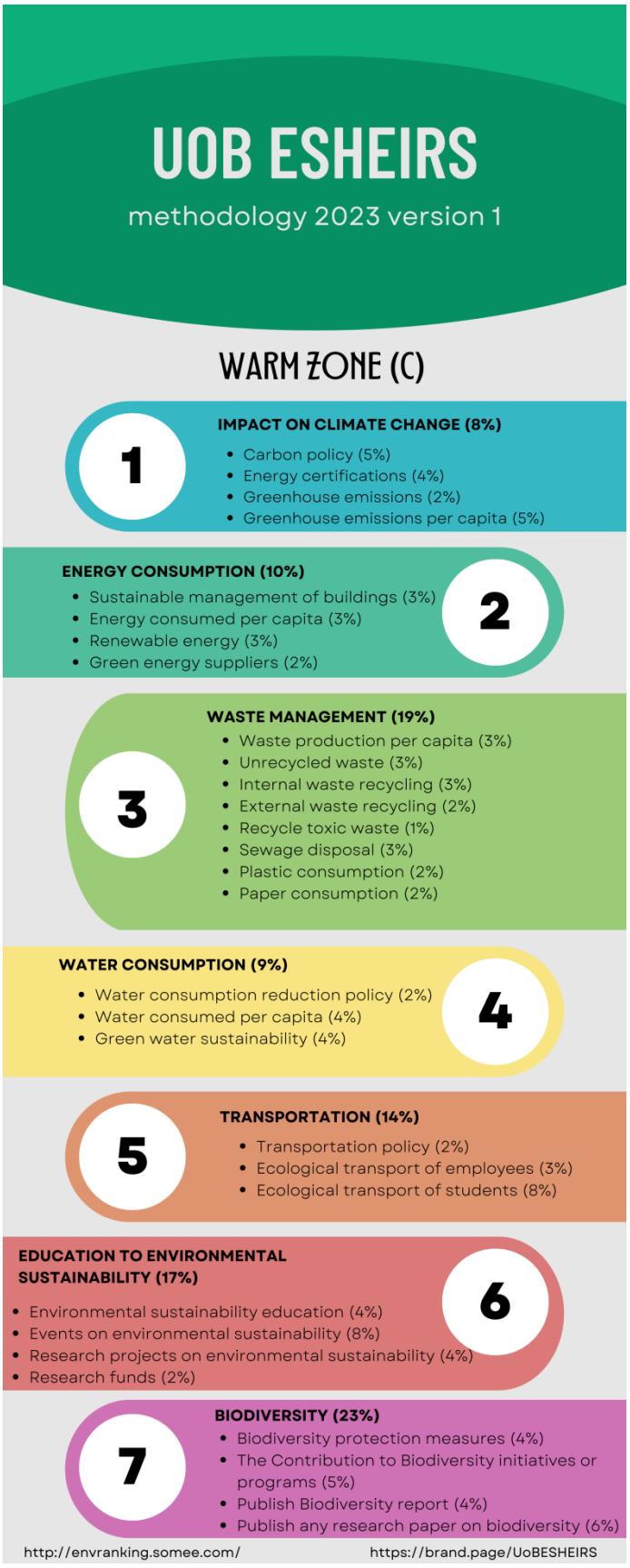
Location based ranking

Our methodology involves using the Köppen-Geiger classification system to tailor the weighting of indicators. The following illustrates the weights based on the climate class with an initial difference calculated by the computer software incorporated the idea of artificial intelligence in setting the weight based on the climate class.

UNIVERSITY OF BAHRAIN ENVIRONMENTAL SUSTAINABILITY RANKING SYSTEM
UOB ESHEIRS

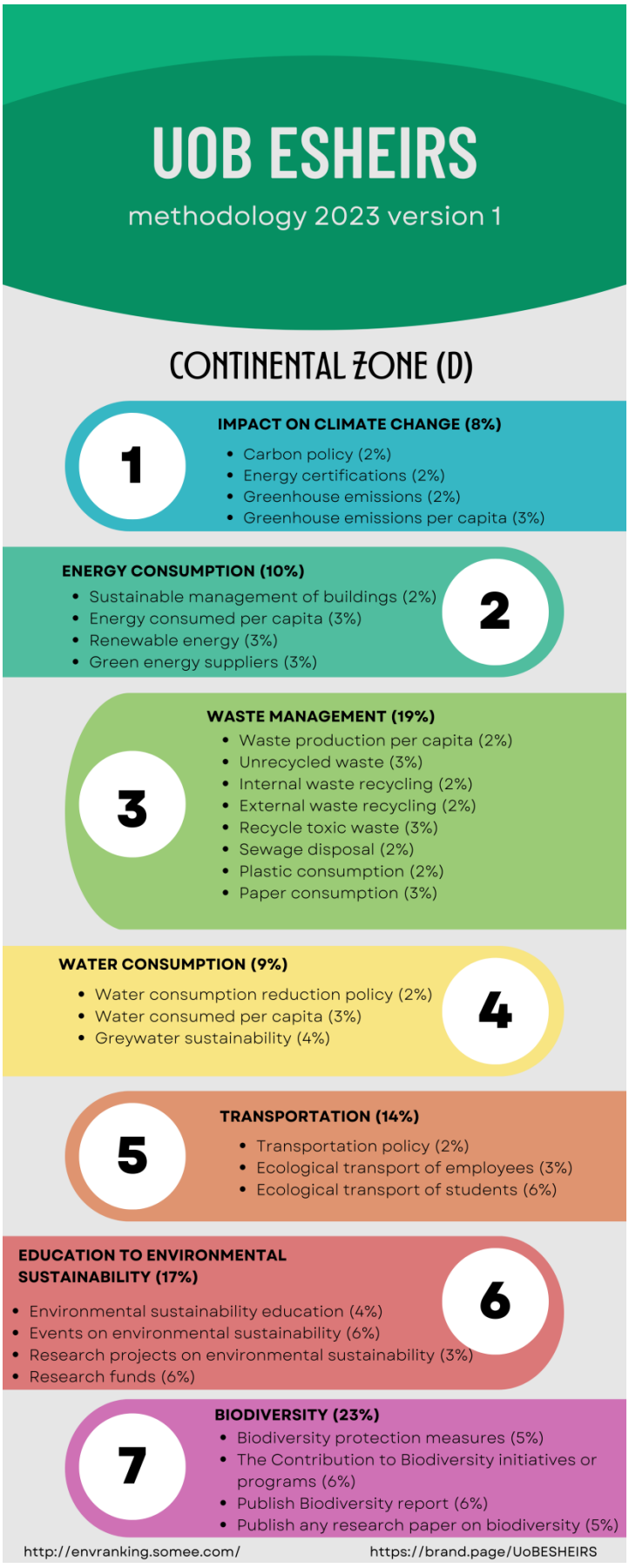
Strategy

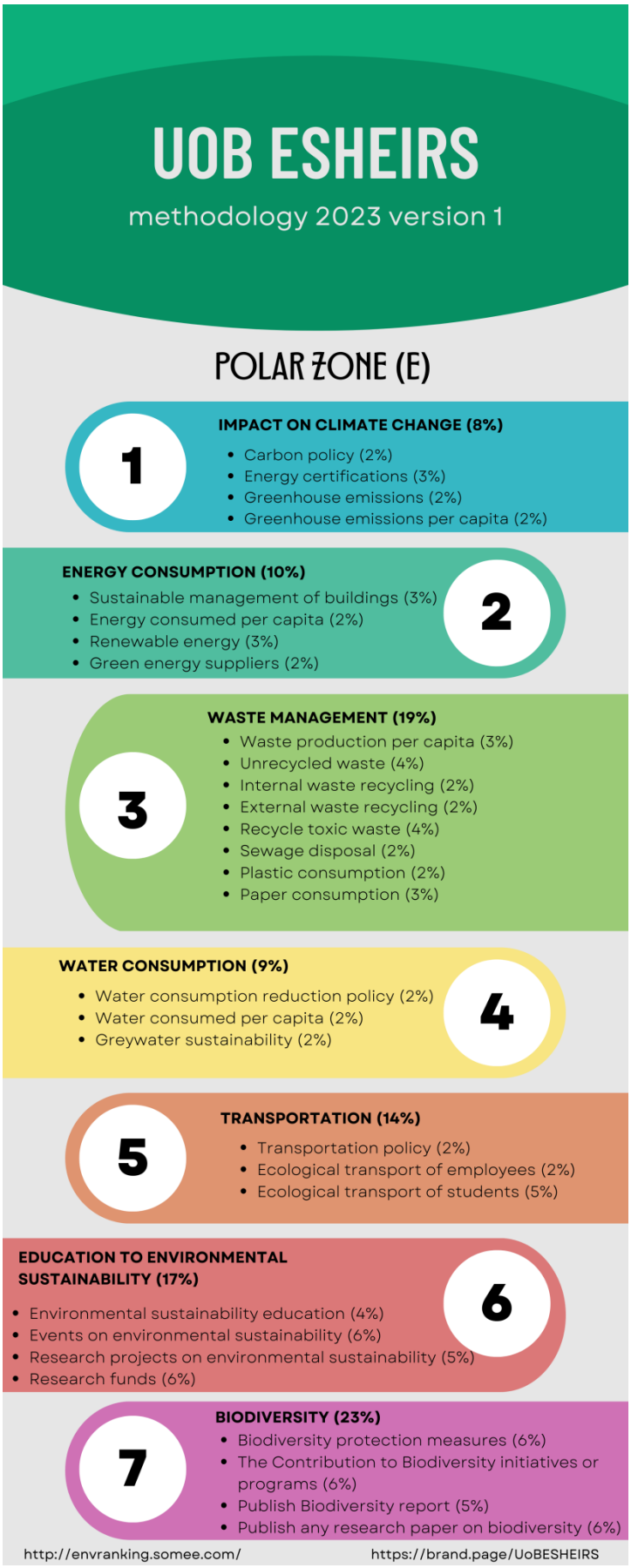




UNIVERSITY OF BAHRAIN ENVIRONMENTAL SUSTAINABILITY RANKING SYSTEM
UOB ESHEIRS

Strategy





For any questions on the rankings, please contact:

http://envranking.somee.com/

For any questions on the rankings, please contact:

https://brand.page/UoBESHEIRS

Facilitating universities to achieve their environmental sustainability goals based on climate parameters

Achieving environmental sustainability is vital for universities to meet the global sustainable development goals (SDGs) by 2030. However, the approach to achieving these goals must be context-specific, considering the impact of location on environmental sustainability. ABC offers a framework for assessing universities' environmental sustainability based on their specific geographical location, thus enabling a fair performance evaluation. This approach allows universities to identify and prioritize sustainability initiatives that are most relevant to their context, leading to effective resource allocation and ultimately achieving the 2030 SDGs agenda.