

# Pro Writing Companion:Elevang your wring skills with our application

Done By:

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## 1.INTRODUCTION

According to the United Nations, more than three million people travel across the world every day, and approximately 1.2 billion people travel abroad every year. This includes not only personal travel, but also MICE [[1](#)] (Meetings, Incentives, Conferences, and Exhibitions,) which are international meetings (conventions) held, for example, by international organizations, academic societies, etc.

The year 2017 was designated as the “International Year of Sustainable Tourism for Development” to spread awareness of the role of tourism. One of the messages was, through contact with nature, to raise awareness of the challenges posed by the effective use of resources and the effect on climate change. Another intention was to increase awareness of global issues [[2](#)]. The United Nations World Tourism Organization (UNWTO) is still recognizing the impact of tourism on global warming as an important issue in the 21st century. UNWTO has defined sustainable tourism as "Tourism that takes full account of its current and future economic, social and environmental impacts, addressing the needs of visitors, the industry, the environment and host communities" [[3,4](#)].

### 1.1 PROJECT OVERVIEW

As for India, Becken opined that this is a very good time for the Indian tourism industry to make the right investment decisions such as investments in energy efficient buildings and low carbon transport among others.

“You have some great leaders in sustainability like the Taj Hotels of the Tata group. It is also a good time to future-proof the sector more broadly. Luckily, India has a large domestic tourism sector, which means that carbon emissions are relatively low,” Becken, director of Griffith Institute of Tourism, Australia, told Mongabay-India.

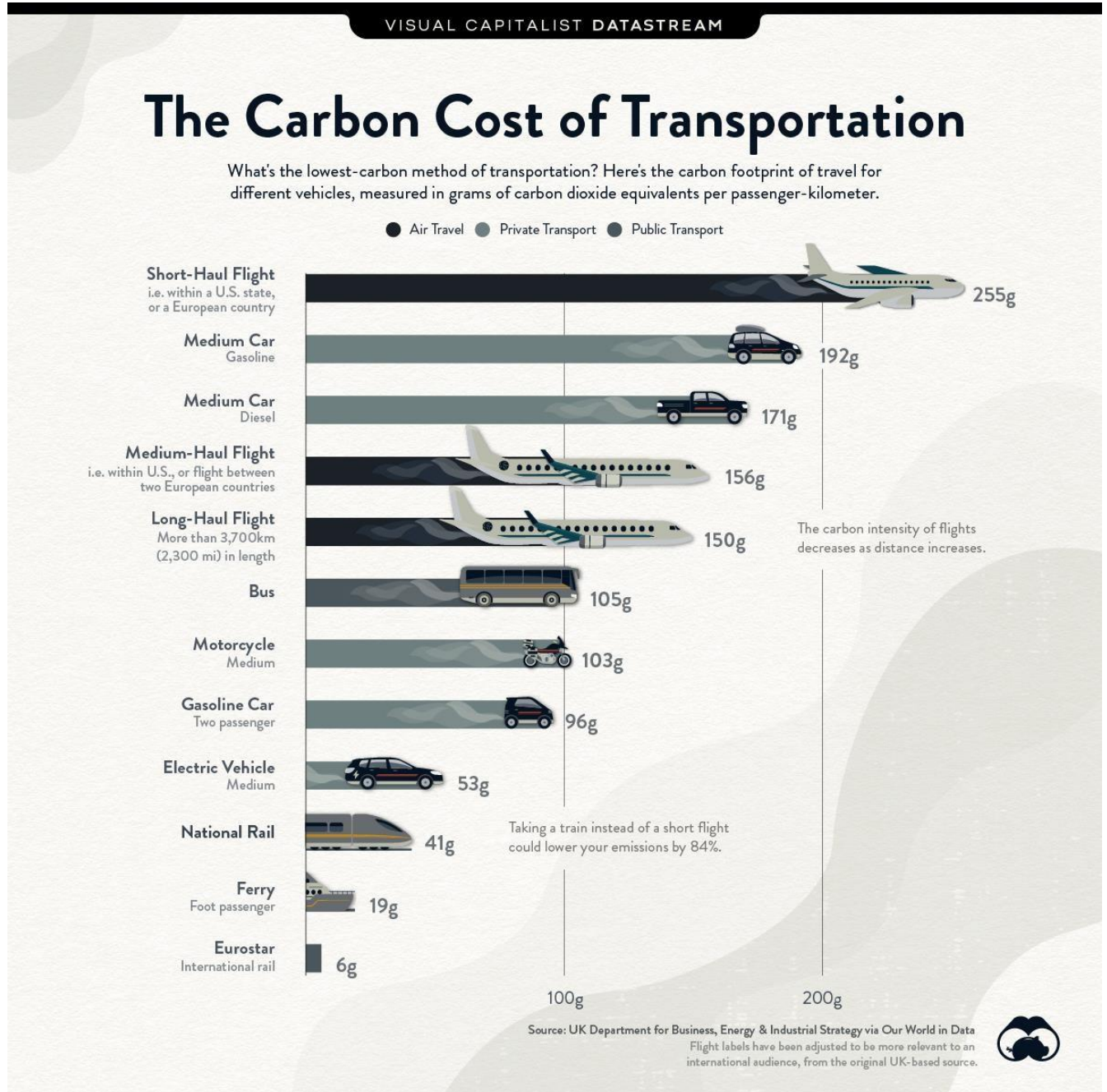
Becken said that given India’s high share of vegetarian options, the segment could also be promoted to tourists.

India’s carbon emissions from aviation stood at 17.97 million tonnes (MT) in 2017, an increase from 16.06 MT in 2016, as per the Global Sustainable Tourism Dashboard, which was developed by Griffith Institute for Tourism in partnership with the University of Surrey. Per capita, India’s aviation emissions are very low, said Becken.

The dashboard provides a mechanism to monitor sustainability issues of tourism, explained Becken pointing out protected areas and tourism planning as one of the segments.



## 1.2 PURPOSE



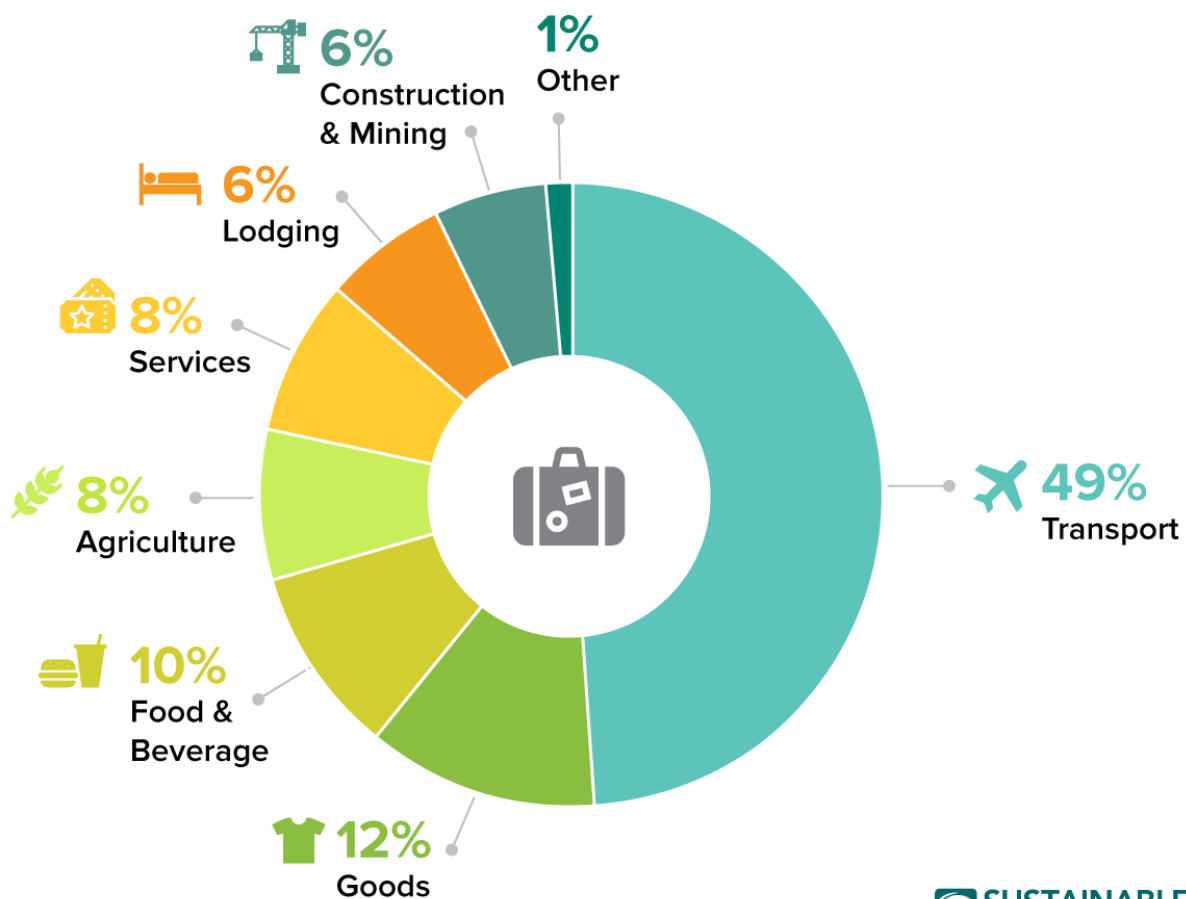
The carbon footprint of transportation is measured in grams of carbon dioxide (CO<sub>2</sub>) equivalents emitted per person to travel one kilometer. This includes both carbon dioxide and other greenhouse gases.

## 2.IDEATION & PROPOSED SOLUTION:

## 2.1 PROBLEM STATEMENT DEFINITION

Tourism is responsible for roughly 8% of the world's carbon emissions. From plane flights and boat rides to souvenirs and lodging, various activities contribute to tourism's carbon footprint. The majority of this footprint is emitted by visitors from high-income countries, with U.S. travelers at the top of the list. As the number of people who can afford to travel grows, so will tourism's environmental footprint. Keep reading to learn about some of the different ways that travel produces CO<sub>2</sub>.

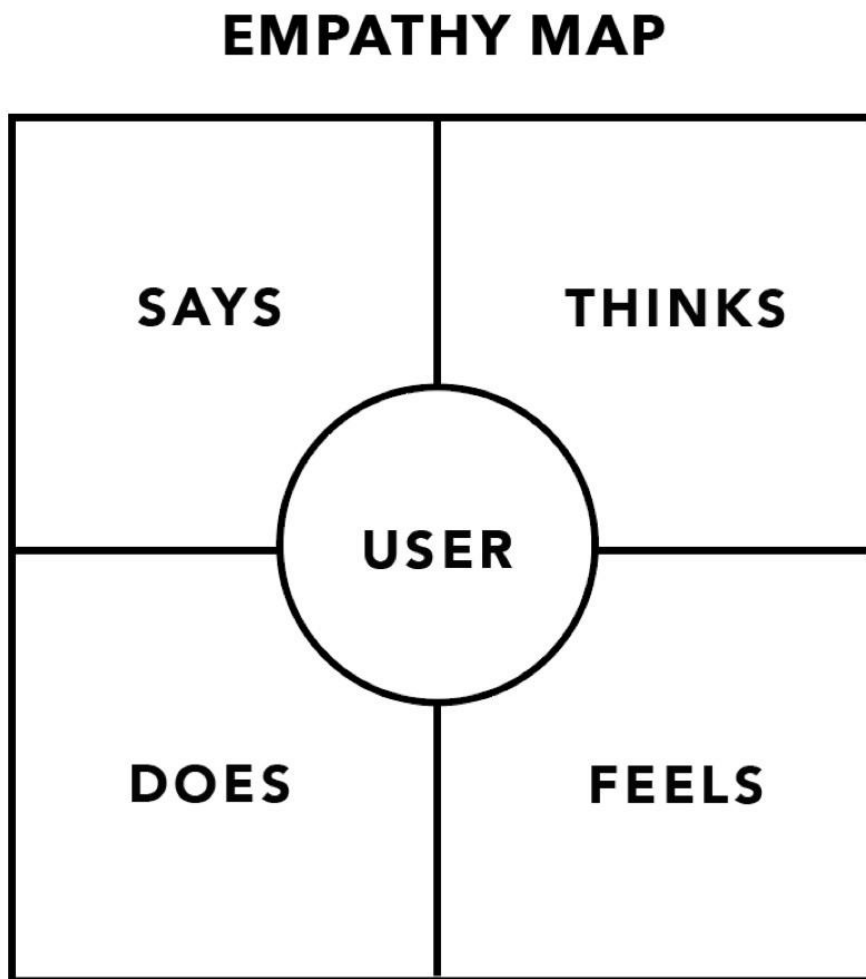
### Carbon Footprint of Global Tourism





## 2.2 EMPATHY MAP CANVAS

As UX professionals, it is our job to advocate on behalf of the user. However, in order to do it, not only must we deeply **understand our users**, but we must also **help our colleagues understand** them and prioritize their needs. Empathy maps, widely used throughout agile and design communities, are a powerful, fundamental tool for accomplishing both. Definition: An **empathy map** is a collaborative visualization used to articulate what we know about a particular type of user. It externalizes knowledge about users in order to 1) create a shared understanding of user needs, and 2) aid in decision making.



## 2.3 IDEATION & BRAINSTROMING

Since the early 21<sup>st</sup> century, humans have been leveraging versatile internet applications to their advantage. As of January 2020, global statistics suggest there are approximately 1.74 billion websites running on the internet with 4 billion+ estimated daily visitors. Such massive usage of the internet suggests that we may have progressed towards a greener society by significantly reducing the usage of paper, and consuming information online. However, this doesn't mean that we've become carbon neutral. The energy required to support the constant usage of electronic gadgets is significantly adding to environmental pollution in the form of e-junk.

## 2.4 PROPOSED SOLUTION

Sustainable cloud positions companies to deliver on new commitments: carbon reduction and responsible innovation. Companies have historically driven financial, security, and agility benefits through cloud, but sustainability is becoming an imperative of CEOs in the United Nations Global Compact - Accenture Strategy CEO Study on Sustainability see a net-zero future for their company in the next ten years. Between 2013-2019, companies with consistently high environmental, social and governance (ESG) performance enjoyed 4.7x higher operating margins and lower volatility than low ESG performers over the same period. Migrations to public cloud result in up to 30-40% total cost of ownership (TCO) savings. Drivers like greater workload flexibility, better server utilization rates, and more energy-efficient infrastructure all make public clouds more cost efficient than enterprise-owned data centers.

## 3. REQUIREMENT ANALYSIS

### 3.1 FUNCTIONAL REQUIREMENT

Following are the functional requirements of the proposed solution.

#### FR No.

	<b>Functional Requirement (Epic)</b>	<b>Sub Requirement (Story / Sub-Task)</b>
FR-1	User Registration	Registration through Form Registration through Gmail Registration through LinkedIN
FR-2	User Confirmation	Confirmation via Email Confirmation via OTP
FR-3		
FR-4		

### 3.2 NON FUNCTIONAL REQUIREMENTS

Following are the Non-Functional Requirement requirements of the proposed solution. **FR**

#### No.

	<b>Non-Functional Requirement</b>	<b>Description non-functional</b>
NFR-1	Usability	it doesn't specify parts of the system functionality, only how that functionality is to be perceived by the user

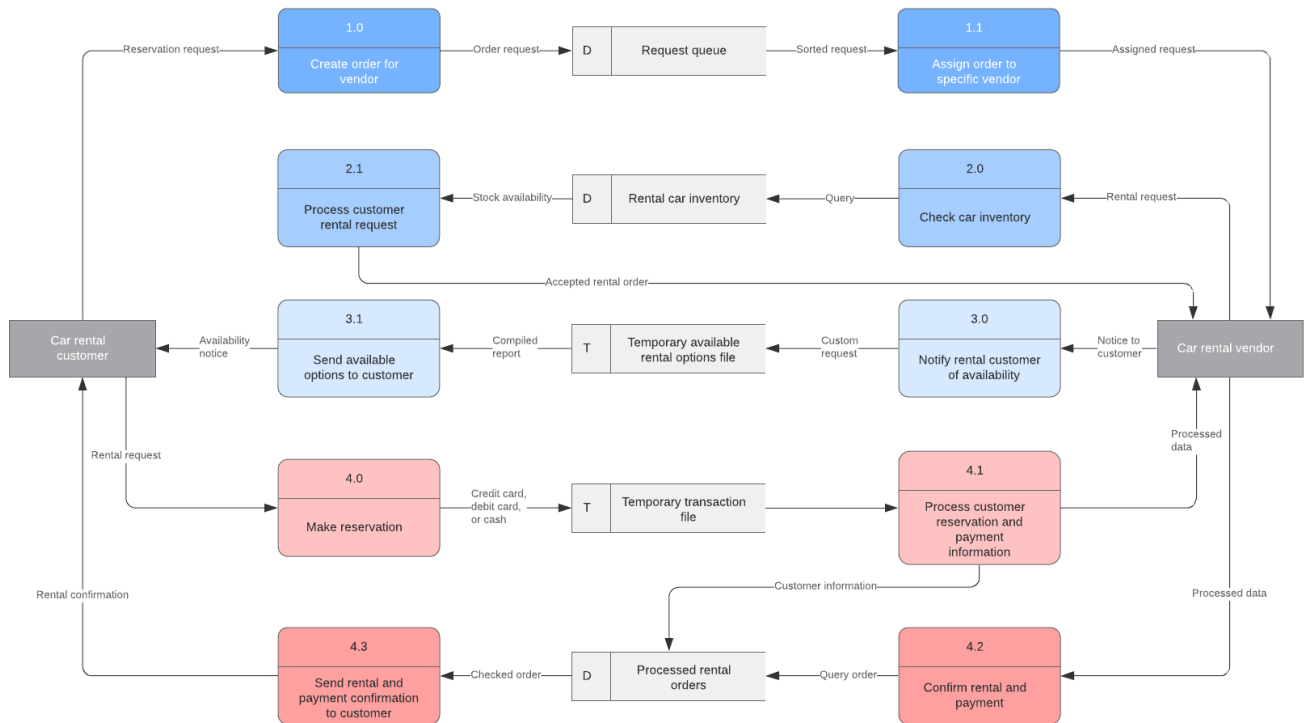
NFR-2	<b>Security</b>	assuring all data inside the system or its part will be protected against malware attacks or unauthorized access.
NFR-3	<b>Reliability</b>	how well the software system consistently performs the specified functions without failure.
NFR-4	<b>Performance</b>	a set of specifications that describe the system's operation capabilities and

## 4.PROJECT DESIGN

### 4.1 DATA FLOW DAIGRAM

Data Flow Diagram (DFD) is a traditional visual representation of the information flows within a system. A neat and clear DFD can depict the right amount of the system requirement graphically. It shows how data enters and leaves the system, what changes the information, and where data is .





## 4.2 SOLUTION & TECHNICAL ARCHITECTURE

**Gaia Education**'s online learning course, Design for Sustainability & Regeneration, provides participants with whole-systems design and systemic thinking skills, analytical abilities and practical tools to support the redesign of the human presence on Earth, one local community and bioregion at a time.

The programme, also offered in Spanish and Portuguese, is divided in four interconnected dimensions: Social Design, Ecological Design, Economic Design and Worldview, each conducted in an eight-week period, which can be taken individually or as a whole course.

The course is completed with the Design Studio – providing an opportunity to work with a design team and focussing on real-life design projects proposed by the participants.

## 4.3 USER STORIES

A user story is a valuable tool for translating technical requirements into easily understandable ideas. It helps explain the roles of users in a Salesforce system, their desired

activities, and what they intend to accomplish. User stories offer a synopsis of the requirement rather than outlining it in its entirety.

TheParts Every user story consists of three components: The who, what and why.

Who is your user? The user story is written from their perspective. What is the goal the user wants to achieve or what will we implement based on user needs? And why? We use the story as a starting point to explain the need for functionality or features to be built.Steps to Decode User Stories

To decode user stories effectively and ensure the right solution is built, follow

## 5. CODING & SOLUTIONING (Explain the feature added in the project along with code)

### 5.1 FEATURE 1

The term sustainability is broadly used to indicate programs, initiatives and actions aimed at the preservation of a particular resource. However, it actually refers to four distinct areas: human, social, economic and environmental – known as the four pillars of sustainability.

### 5.2 FEATURE 2

The term sustainability is broadly used to indicate programs, initiatives and actions aimed at the preservation of a particular resource. However, it actually refers to four distinct areas: human, social, economic and environmental – known as the four pillars of sustainability.

### 5.3 DATABASE SCHEMA(if applicable)



## 6.RESULTS

### 6.1 PERFORMANCE METRICS

Organizations should consider the total impact on the economy, the environment, and society, not only relating to what is relevant for the company's internal stakeholders. The best way to ensure relevance is to use a formal standard that allows you to report in a structured and transparent way.

So far, there is no one globally accepted system for sustainability tracking and reporting. The GRI Standard is used by 73% of the world's 250 largest companies, across more than 100 countries.

The GRI Standards are a modular system comprising three series of Standards: the GRI Universal Standards, the GRI Sector Standards, and the GRI Topic Standards. Each Standard begins with a detailed explanation of how to use it.

As we move towards more standardization, making comparisons will be easier and transparency will increase.

## 7.ADVANTAGES

- Lower environmental impact.
- Guarantee of a better future. Disadvantages of Sustainable Development. Costs.
- Unemployment in some areas.
- More requirements.
- Fragile commitment.

## DISADVANTAGE

- High costs. One of the major disadvantages of sustainable development is that it can be expensive. ...
- Limited availability of resources. ...
- Cultural and social barriers. ... □ Slow progress.

## 8.CONCLUSION

We have established a procedure to quantitatively view the Japanese tourism industry's CFP. In this study, we calculated the CFP, and it was found to be 136 million t-CO<sub>2</sub>eq ([Figure 1](#)). The contribution ratio of each stage was as follows: Transport 56.3%, Souvenirs 23.2%, Accommodation 9.8%, Food and Beverage 7.5%, Activities 3.0%. Then, in the breakdown, the impact had the following order: Air transport 24.7%, Petrol (direct emissions) 16.9%, Accommodation 9.8%, Food and Beverage 7.5%, Petrol 6.1%, Textile products 5.3%, Food items 4.9%, Confectionery 4.8%, Rail transport 3.9%, Cosmetics 1.9%, and Footwear 1.8%.

From the results of this study, we have shown that tourism can generate GHG emissions that contribute to climate change and to the environmental burden. In addition, we showed the tendencies of the characteristics of tourism and tourist consumption. The breakdown regards the use of air transportation and accommodation services, which are indispensable for transportation and stay, and also the contribution of food services, souvenirs, and confectionery. Through considering different types of movements (domestic and global), we were able to confirm a high contribution from the purchase and consumption of pharmaceuticals, cosmetics, shoes, and bags.

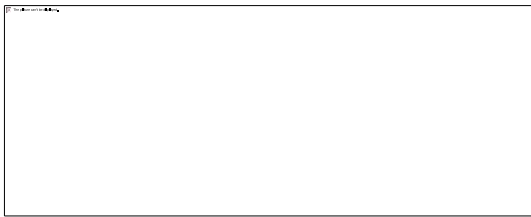
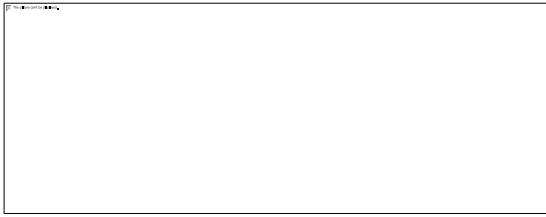
In addition, if the tourism industry is prosperous, despite a great economic effect advantage, there is a drawback, as the environmental burden increases.

## 9.FUTURE SCOPE

The entire scope of sustainability includes a cultural, social, technical, economic, political, and lastly, environmental aspect. All firms, whether fashion houses or overvalued tech companies, can find applicable actions to sustain John Elkington's triple bottom line: Profit, People, and Planet.

The future of sustainability lies in green efforts that champion new approaches to how people use and dispose of materials. Earning a degree such as a bachelor's in sustainability can help prepare professionals to promote vital environmental initiatives.

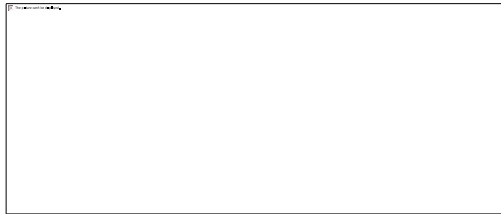
## 10. APPENDIX



### *Lag Selection Criteria*

An important practical issue for the implementation of the ADF test is the specification of the lag length  $p$ . If  $p$  is too small then the remaining serial correlation in the errors will bias the test. If  $p$  is too large then the power of the test will suffer.

**Table A3.** Automatic lag length selection based on SIC: 0 to 9. Newey–West automatic bandwidth selection and Bartlett kernel.



## SOURCE CODE

```
with open("README.md", "r") as f:
```

```
    long_description = f.read()
```

```
DEPENDENCIES = [
```

```

    "APScheduler",

    "pynvml>=5.6.2",

    "psutil",

    "py-cpuinfo",

]

setup(    name = 'eco2ai',    version = '0.3.8',    author=["Vladimir Lazarev",

    'Nikita Zakharenko', 'Semyon Budyonny', 'Leonid Zhukov'],    description =

    long_description,    packages = ['eco2ai'],    install_requires=DEPENDENCIES,

    package_data={

        "eco2ai": [

            "data/cpu_names.csv",

            "data/config.txt",

            "data/carbon_index.csv"

        ]

    },

    include_package_data=True

)

[tool.poetry] name = "eco2ai" version =

"0.3.9" description = "emission tracking

library" authors = ["AI Lab",

    "Vladimir Lazarev <lazarev@airi.net>",

    "Nikita Zakharenko <nnzakharenko@sberbank.ru>",

```



```
"Semyon Budyonny <sanbudenny@sberbank.ru>",  
"leonid zhukov <lezhukov@sberbank.ru>"]
```

```
homepage = "https://github.com/sb-ai-lab/Eco2AI" repository  
= "https://github.com/sb-ai-lab/Eco2AI"
```

```
classifiers = [  
    "Programming Language :: Python :: 3.7",  
    "Operating System :: OS Independent",  
    "Intended Audience :: Science/Research",  
    "Development Status :: 3 - Alpha",  
    "Environment :: Console",  
    "Natural Language :: English",  
    "Topic :: Scientific/Engineering :: Artificial Intelligence",  
    "Typing :: Typed"  
]
```

```
readme = "README.md"
```

```
packages = [  
    { include = "eco2ai"  
]  
]
```

```
[tool.poetry.dependencies]
```

```
python = "*" pandas = [
```

```
{version = ">=1.2.1,<=1.3.5", python = ">=3.7.1, <3.8" },  
{version = ">=1.4.0,<=1.4.3", python = ">=3.8"}  
]
```

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#{version = ">=1.0.0,<=1.1.5", python = ">=3.6.1"},
```

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]
```

```
requests = [  
    {version = "*",python = ">=3.7, <4"}  
]
```

```
pynvml = [  
    {version = "*",python = ">=3.6"}  
]
```

```
psutil = "^5.9.1"
```

```
tzlocal = [  
    {version = "*",python = ">=3.6"}  
]
```

```
tornado = [  
    {version = "*",python = ">=3.7"}  
]
```

```
py-cpuinfo = [  
    {version = "*",python = ">=3.7"}  
]
```

```
[tool.poetry.dev-dependencies] [build-system] requires = ["poetry-core>=1.0.0"] build-backend  
= "poetry.core.masonry.api" ..
```