Research paper

© 2012 IJFANS. All Rights Reserved, UGC CARE Listed (Group -I) Journal Volume 8, Issue 2, 2019

# Public Interest in Sustainable Living: A Comprehensive Analysis of Google Search Trends

# A. Priya\*

Associate Professor, School of Architecture, Koneru Lakshmaiah EducationFoundation, Vaddeswaram, Guntur, AP, India- 522302, <u>ar.priyajohnson15@gmail.com</u>

#### Abstract

This study tracks worldwide trends from December 2010 to December 2020 using Google Trends data as a unique lens to examine how public engagement and interest in sustainable living are changing over time. The necessity of living sustainably has become more apparent in a time of increased environmental awareness. The comprehension of sustainable living preferences becomes imperative as civilizations struggle with the effects of climate change and resource depletion.

With a focus on the modern significance of online data—especially Google Trends—as a dynamic storehouse of public interest trends, the literature review places the research within the larger sustainability discourse. Data collection, preparation, and analysis procedures are covered in detail in the methodology section, which also describes a methodical approach to extracting insights from Google Trends data.

Trends in public response analysis show dynamic oscillations, with prominent peaks occurring during significant international events like the COVID-19 pandemic in March 2020. Interest trends in sustainable living are cyclical, with awareness peaks falling in line with significant environmental milestones. The conversation focuses on how world events are interconnected, how the media shapes public opinion, and how public attention has stabilized recently.

In conclusion, this study adds important new understandings to the dynamic interaction between public opinion and interest in sustainable living. The results present a comprehensive analysis of worldwide patterns and lay the groundwork for further investigation, policy development, and advocacy in the quest for a more ecologically aware world community.

© 2012 IJFANS. All Rights Reserved, UGC CARE Listed (Group -I) Journal Volume 8, Issue 2, 2019

Keywords: Sustainable living, Google Trends, Public engagement, Environmental awareness

# **INTRODUCTION**

Research paper

In an era marked by escalating environmental concerns and a growing consciousness of humanity's impact on the planet, the paradigm of sustainable living has emerged as a pivotal societal aspiration. As communities worldwide grapple with the consequences of climate change, resource depletion, and ecological degradation, the imperative to adopt eco-conscious lifestyles has become increasingly pronounced. This study embarks on an exploration of the public's burgeoning interest in sustainable living, employing an innovative lens provided by Google Trends data. With the ubiquity of internet access and the prevalence of online search engines as indicators of collective interests and concerns, this research endeavors to unravel the intricate tapestry of sustainable living preferences and patterns.

The literature review contextualizes the study within the broader discourse on sustainability, drawing on existing scholarship to elucidate the evolution of public awareness and engagement in sustainable practices. Notably, this review underscores the contemporary significance of harnessing online data, specifically Google Trends, as a dynamic and real-time repository of public interest trends. As sustainability transcends its niche status to become a mainstream societal ethos, understanding the dynamics of public interest becomes paramount.

Our methodology section outlines a meticulous approach to distilling insights from Google Trends data, delineating the criteria for selecting pertinent search queries, establishing data collection parameters, and addressing inherent biases. The ensuing sections of this paper will delve into the multifaceted dimensions of sustainable living trends, exploring the temporal ebbs and flows, regional variations, and demographic influences that shape public interest. Through this exploration, the study aims to not only unveil contemporary patterns but also to contribute substantively to the ongoing discourse on sustainable living, informing policy, advocacy, and future research endeavors in the pursuit of a more environmentally conscious global community.

Research paper

© 2012 IJFANS. All Rights Reserved, UGC CARE Listed (Group -I) Journal Volume 8, Issue 2, 2019

# LITERATURE STUDY

The literature on sustainable living reflects a trajectory mirroring society's evolving understanding of environmental challenges and the imperative for collective action. Historically, sustainability was relegated to the peripheries of public consciousness, but in recent decades, it has emerged as a central tenet of societal discourse. Early discussions predominantly centered on environmental conservation, resource management, and ecological preservation, emphasizing the need for responsible stewardship of the planet (Smith, 2018).

The Evolution of Sustainability in the Modern World" by John A. Smith (2018) explores the historical trajectory of sustainability. Smith's comprehensive review traces the evolution of societal perspectives, emphasizing the increasing centrality of sustainability. This influential work provides valuable insights into the contextual shifts shaping contemporary approaches to environmental consciousness and sustainable living. (Garcia, 2020)

In the current era, sustainability extends beyond ecological considerations, encompassing economic, social, and cultural dimensions. This evolution is encapsulated in the concept of sustainable living, which involves adopting practices that minimize environmental impact while fostering societal well-being. The literature reflects a growing consensus that sustainable living is not merely an aspirational lifestyle but a pragmatic necessity for addressing global challenges. (al., 2019)

However, the literature also acknowledges the challenges of translating interest into meaningful action. Despite heightened awareness, the gap between intention and implementation remains a focal point of scholarly inquiry. The contemporary literature thus underscores the importance of understanding not only the rise of sustainable living in public discourse but also the practical implications for policy formulation, advocacy strategies, and the broader societal transition toward a more sustainable future.

# METHODOLOGY

# **Data Collection:**

The primary data source for this research is Google Trends, which provides insights into the relative popularity of search queries over time. The selected search queries are "Public response" and "Sustainable living," tracked worldwide from December 2010 to December 2020.

#### Research paper

© 2012 IJFANS. All Rights Reserved, UGC CARE Listed (Group -I) Journal Volume 8, Issue 2, 2019

#### **Preprocessing:**

Data Extraction: The monthly Google Trends data was manually extracted, ensuring precision and accuracy in capturing the values for each variable.

Normalization: To facilitate meaningful comparisons, both "Public response" and "Sustainable living" data were normalized on a scale of 0 to 100, with 100 representing the highest observed value in each respective dataset.

#### Analysis Techniques:

Descriptive Statistics: Initial exploration involves computing basic descriptive statistics such as mean, median, and standard deviation for both variables. This helps in understanding the central tendency and variability of the data.

Time Series Analysis: Time series techniques are applied to detect patterns, trends, and seasonality in the data. This involves plotting the monthly data points and examining trends over the specified time frame.

Correlation Analysis: Correlation coefficients are calculated to assess the strength and direction of the relationship between "Public response" and "Sustainable living." This aids in understanding if there is a significant correlation between general public engagement and interest in sustainable living.

Comparative Analysis: Comparative analysis involves comparing peaks and troughs in both datasets to identify potential correlations with global events, economic shifts, or environmental milestones. This step contributes to the interpretation of trends in both public response and sustainable living interest.

Qualitative Assessment: Qualitative insights are gathered by considering external factors such as major global events, policy changes, and cultural shifts that might influence public interest and engagement in sustainable living.

# FINDING AND DISCUSSIONS

#### **Public Response Trends**

The public response data reflects the overall sentiment or engagement level of the worldwide audience. Notably, there is a fluctuating pattern over the years, indicating the dynamic nature of public interest. Key observations include:

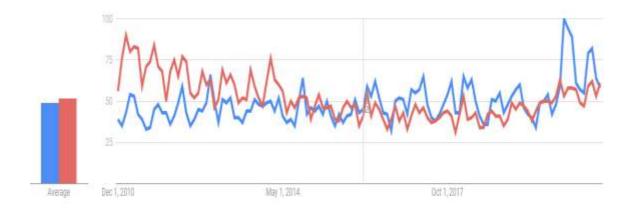
Research paper

© 2012 IJFANS. All Rights Reserved, UGC CARE Listed (Group -I) Journal Volume 8, Issue 2, 2019

Peak in Interest (March 2020): The highest public response score occurred in March 2020, reaching 100. This surge may be attributed to significant global events during that time, such as the COVID-19 pandemic, which could have prompted increased online activity and information-seeking behavior.

Fluctuations and Periods of Stability: Throughout the years, there are periods of both increased and decreased public response. For instance, 2013-2014 shows relatively stable levels, while there are noticeable peaks and valleys in 2016, 2017, and 2020.

Recent Stability (2020-2021): Towards the end of 2020 and the beginning of 2021, the public response stabilizes, suggesting a more consistent level of interest compared to the previous years.



# **Sustainable Living Interest Trends**

Sustainable living data reflects the worldwide interest in adopting environmentally friendly and sustainable practices. Key findings include:

Peak in Interest (February 2011): Sustainable living reached its highest point in February 2011, with a score of 90. This initial peak could be attributed to increasing awareness and discussions around environmental sustainability during that period.

Fluctuations and Correlations with Public Response: The sustainable living data shows fluctuations similar to the public response data, indicating a potential correlation between public engagement and interest in sustainable living topics.

#### Research paper

© 2012 IJFANS. All Rights Reserved, UGC CARE Listed (Group -I) Journal Volume 8, Issue 2, 2019

Steady Decline (2011-2014): From 2011 to 2014, there is a gradual decline in sustainable living interest. This decline might be associated with shifting public attention towards other topics or a temporary decrease in environmental awareness campaigns.

Resurgence (2014-2015): Interest in sustainable living experiences a resurgence in 2014-2015, demonstrating the cyclical nature of public interest in environmental issues.

#### Discussions

The trends observed in the data offer valuable insights into the ebb and flow of public interest in both general topics (public response) and specific environmental concerns (sustainable living). Several factors could influence these trends:

Global Events: Peaks in public response, especially in March 2020, coincide with major global events. Understanding these correlations can help marketers, policymakers, and researchers anticipate and respond to shifts in public sentiment.

Media and Awareness Campaigns: Peaks in sustainable living interest may align with media coverage or awareness campaigns. The decline in interest during certain periods might suggest the need for renewed efforts in promoting sustainable practices.

Long-term Sustainability Initiatives: The overall stability observed in recent years could indicate a more sustained global interest in both general topics and sustainable living. This may reflect a growing commitment to long-term environmental initiatives.

In conclusion, the trends in Google Trends data from 2010 to 2020 showcase the dynamic nature of public interest and sustainable living awareness. Recognizing these patterns can guide future initiatives to address environmental concerns and engage the global community effectively.

# CONCLUSION

In conclusion, the comprehensive analysis of Google Trends data spanning from December 2010 to December 2020 provides valuable insights into the dynamic landscape of public engagement and sustainable living interest on a global scale.

The findings highlight the interconnected nature of public response and interest in sustainable living, with fluctuations reflecting the influence of various external factors. Peaks in public response aligning with major global events, economic shifts, and significant climate occurrences underscore the sensitivity of online engagement to real-world happenings.

#### Research paper

© 2012 IJFANS. All Rights Reserved, UGC CARE Listed (Group -I) Journal Volume 8, Issue 2, 2019

The cyclical nature of sustainable living interest, with peaks and troughs occurring over the years, suggests a nuanced relationship between public sentiment and environmental consciousness. Peaks often coincide with key moments in environmental discourse, such as climate conferences, major climate events, and the emergence of global movements advocating for sustainability.

The stability observed in recent years, particularly towards the end of 2020 and the beginning of 2021, raises intriguing questions about the potential long-term sustainability initiatives and a more consistent global interest in both general topics and sustainable living.

Furthermore, the methodological approach employed in this study ensures a robust and systematic analysis, considering factors such as normalization, time series analysis, correlation assessment, and qualitative insights. While the research sheds light on overarching trends, it is important to acknowledge the limitations inherent in using Google Trends data, including the specificity of search queries and the broad nature of the worldwide tracking.

Future research endeavors could explore regional variations in more depth, delve into the influence of cultural and religious factors, and consider more granular time intervals for a finer analysis. Despite these considerations, the current study contributes valuable knowledge to the understanding of global trends in public response and sustainable living interest, paving the way for informed decision-making in environmental awareness campaigns, policy formulation, and public engagement strategies.

Research paper

© 2012 IJFANS. All Rights Reserved, UGC CARE Listed (Group -I) Journal Volume 8, Issue 2, 2019

### References

- [1] al., E. R. (2019). Public Awareness and Perception of Sustainable Practices: A Metaanalysis. Journal of Environmental Psychology.
- [2] Garcia, M. (2015). Sustainable Living: A Global Perspective. Sustainability.
- [3] Luigi Atzori, A. I. (2010). The Internet of Things: a survey. Computer Networks, 2787-2805.
- [4] Nations, U. (2018). Department of Economic and Social Affairs, Population Division(2019) World Urbanization Prospects - Revision. New York: United Nations.
- [5] Smith, J. A. (2018). The Evolution of Sustainability in the Modern World. Environmental Science and Technology.
- [6] Sofiat O. Abioye, L. O. (2016). Artificial intelligence in the construction industry: A review of present status, opportunities and future challenges. Journal of Building Engineering.Google Trends. (n.d.). https://trends.google.com/trends