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Relationship Between Social Psychology Theories and Practical Application Of Research Findings In Sustainable Development

by

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Abstract

Sustainable development is a comprehensive and holistic approach to societal progress that seeks to meet the needs of the present without compromising the ability of future generations to meet their own needs. To do this, the United Nations (UN) has come up with a set of goals called sustainable development goals (SDGs). Sustainable development and sustainability transitions has emerged as critical paradigm in addressing the complex challenges facing our global society. As the world grapples with environmental degradation, social inequities, and economic uncertainties, sustainability transitions (the pursuit of sustainability) has become a cornerstone for shaping a more resilient and equitable future. This paper provide a comprehensive overview of the concepts of sustainable development and sustainability transitions, exploring their historical evolution, key principles,and the interdisciplinary nature of the field. Thereafter, it also highlight the role and place of social psychological theories and research in achieving the UN's ambitious SDGs. Examples of theories reviewed include the Social Cognitive Theory, Theory of Planned Behaviour, Social Identity Theory, and Construal Level Theory. A plethora of social and environmental psychology research which amplify the application of social psychological theories in sustainability transitions have also been cited and referenced all through the paper.

Key words: Sustainable development, Social Psychology, Research

Introduction

The concept of sustainable development gained prominence in the late 20th century as a response to the recognition that traditional development models were often unsustainable, leading to environmental degradation and social injustices (Mebratu,1998). The seminal report, "Our Common Future" by the World Commission on Environment and Development (WCED) in 1987, commonly known as the Brundtland Report, played a pivotal role in definingsustainable development. The report defined sustainable development as "development that meets the needs of the present without compromising the ability of future generations to meet their own needs" (WCED,1987). Since then, sustainable development has evolved into a multidimensional and holistic approach that seeks to balance environmental, social, and economic considerations. The United Nations' Sustainable Development Goals (SDGs), adopted in 2015, further solidified the global commitment to addressing pressing challenges such as poverty, inequality, climatechange, and biodiversity loss. Scholars in the field of sustainable development have highlighted three main principles that summarize the tenets of the concept. These are environmental sustainability, social equity and justice and economic viability. At its core, sustainable development recognizes the finite nature of the Earth's resources and aims to ensure their responsible use. Principles of environmental sustainability emphasize the conservation

of biodiversity, reduction of pollution, and the promotion of sustainable resource management (Lele,1991). Sustainable development also places a strong emphasis on social equity, seeking to alleviate poverty, promote social inclusion, and address disparities in access to resources and opportunities (Raworth,2012). Social justice is viewed as integral to achieving long-term sustainability. Finally, the economic dimension of sustainable development underscores the importance of fostering economic growth that is inclusive, resilient, and environmentally responsible. This involves re-evaluating traditional economic metrics and adopting sustainable business practices (Elkington,1997). Sustainable development is inherently interdisciplinary, requiring collaboration across diversefields to address complex challenges. Environmental science, economics, sociology, political science, and more importantly, psychology all play crucial roles in understanding and implementing sustainable practices. The integration of various disciplines allows for a more comprehensive and nuanced approach to problem-solving. This paper, however focuses on the role of psychology, and more specifically social psychology in achieving globalsustainable development goals.

The sustainable development goals

The Sustainable Development Goals (SDGs, see Figure 1.) are a set of 17 interlinked goals established by the United Nations to address global challenges and promote sustainable development. Adopted in 2015, the SDGs provide a comprehensive framework that integrates economic, social, and environmental dimensions (United Nations, 2015). The goalsare listed below, highlighting their key objectives and offering a comprehensive overview of their critical global agenda.

Figure 1.

The UN's Sustainable Development Goals

1. ***No Poverty (SDG 1):*** SDG 1 aims to end poverty in all its forms by 2030, addressing the multidimensional aspects of poverty. Efforts focus on income inequality, social protection systems, and sustainable economic growth.

2. ***Zero Hunger (SDG 2)***: SDG 2 seeks to end hunger, achieve food security, and promote sustainable agriculture. The goal emphasizes enhancing agricultural productivity, supporting small-scale farmers, and ensuring equitable access to resources.

3. ***Good Health and Well-Being (SDG 3)***: SDG 3 targets ensuring healthy lives and promotingwell-being for all at all ages. Objectives include reducing maternal and child mortality, combating diseases, and strengthening health systems.

4. ***Quality Education (SDG 4)***: SDG 4 aims to ensure inclusive and equitable quality education, promoting lifelong learning opportunities for all. The goal addresses issues like access to education, teacher training, and the relevance of education.

5. ***Gender Equality (SDG 5)***: SDG 5 focuses on achieving gender equality and empowering all women and girls. Key objectives involve ending discrimination, violence, and harmful practices while ensuring equal opportunities.

6. ***Clean Water and Sanitation (SDG 6)***: SDG 6 targets ensuring the availability and sustainable management of water and sanitation for all. The goal addresses issues like water scarcity, water quality, and sanitation facilities.

7. ***Affordable and Clean Energy (SDG 7)***: SDG 7 seeks to ensure access to affordable, reliable, sustainable, and modern energy for all. The goal emphasizes renewable energy sources and improving energy efficiency.

8. ***Decent Work and Economic Growth (SDG 8)***: SDG 8 focuses on promoting sustained, inclusive, and sustainable economic growth, full and productive employment, and decent work for all. Key targets include job creation and ending modern slavery.

9. ***Industry, Innovation, and Infrastructure (SDG 9)***: SDG 9 aims to build resilient infrastructure, promote inclusive and sustainable industrialization, and foster innovation. Objectives include upgrading infrastructure and enhancing scientific research.

10. ***Reduced Inequality (SDG 10)***: SDG 10 focuses on reducing inequality within and among countries. Goals include social, economic, and political inclusion, as well as the regulation of global financial markets.

11. ***Sustainable Cities and Communities (SDG 11)***: SDG 11 targets making cities and human settlements inclusive, safe, resilient, and sustainable. Objectives involve affordable housing, sustainable transport, and disaster resilience.

12. ***Responsible Consumption and Production (SDG 12)***: SDG 12 seeks to ensure sustainable consumption and production patterns. Goals include reducing waste, promoting sustainable practices, and encouraging corporate responsibility.

13. ***Climate Action (SDG 13)***: SDG 13 addresses urgent action to combat climate change and its impacts. Objectives involve increasing resilience, promoting climate education, and supporting international cooperation.

14. ***Life Below Water (SDG 14)***: SDG 14 focuses on conserving and sustainably using the oceans, seas, and marine resources. Goals include preventing marine pollution and protecting marine biodiversity.

15. ***Life on Land (SDG 15)***: SDG 15 aims to protect, restore, and promote sustainable use of terrestrial ecosystems. Objectives include combating desertification, halting biodiversity loss, and promoting sustainable land management.

16. ***Peace, Justice, and Strong Institutions (SDG 16)***: SDG 16 targets promoting peaceful and inclusive societies, providing access to justice, and building effective, accountable, and inclusive institutions. Objectives involve reducing violence, ensuring access to justice, and combating corruption.

17. ***Partnerships for the Goals (SDG 17)***: SDG 17 emphasizes strengthening the means of implementation and revitalizing the Global Partnership for Sustainable Development. Goals include finance, technology transfer, capacity-building, and multi-stakeholder partnerships.

The SDGs constitute a comprehensive and interconnected framework for addressing global

challenges. These goals provide a roadmap for collective action (known as sustainability transition), encouraging nations, organizations, and individuals to work collaboratively toward a sustainable and equitable future.

Sustainability transitions

Sustainability transitions represent a conceptual framework for understanding the profoundsocietal changes required to achieve sustainability goals (Frantzeskaki et al., 2012). Transitions go beyond incremental improvements and involve transformative shifts in technological, economic, and social systems. Sustainability transitions refer to the fundamental and systemic changes in societal structures, practices, and technologies that arenecessary to move towards a more sustainable future (Gaziulusoy & Erdoğan Öztekin, 2019).These transitions are driven by the need to address pressing global challenges, such as climate change, resource depletion, and environmental degradation. Sustainability transitions involve a shift from current unsustainable patterns of production and consumption to more environmentally friendly, socially equitable, and economically viable alternatives (Bennett etal., 2019).

According to Huttenen et al. (2021), sustainability transitioning is basically a behaviour changeissue. Meaning to achieve a considerable level of sustainability, individuals will have to changetheir lifestyles and choices. Examples of sustainability transitions can be seen across four mainareas of endeavour and these include renewable energy, circular economy, transportation and food production and consumption.

1. ***Renewable Energy Transition:*** The shift from fossil fuel-based energy sources to renewableenergy, such as solar, wind, and hydropower, represents a prominent sustainability transition. This involves changes in energy production technologies, policies, and consumer behaviours.

2. ***Circular Economy:*** The transition towards a circular economy involves minimizing waste and maximizing resource efficiency. This includes practices like recycling, reusing, and reducing the environmental impact of production and consumption.

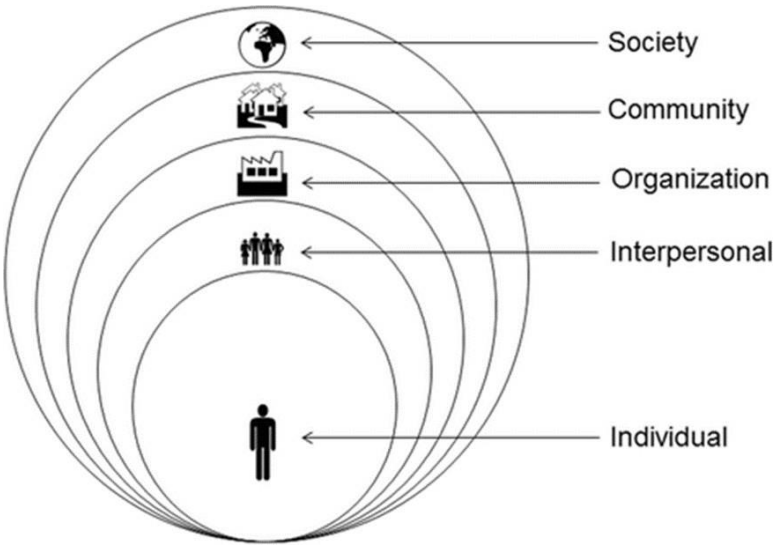
3. ***Sustainable Transportation:*** The transition to sustainable transportation involves moving away from reliance on fossil fuel-powered vehicles to more environmentally friendly alternatives, such as electric vehicles, public transportation, and cycling.

4. ***Local Food Movements:*** The growing emphasis on local and sustainable food systems represents a transition in agriculture. This involves supporting local farmers, reducing food miles, and promoting environmentally friendly farming practices.

As seen, sustainability transitions cut across all levels of society as best illustrated in Figure 2below.

Figure 2.

Sustainability transitions framework



Note: This framework shows that sustainability transitions have at the centre, the individual and that only when the individual agrees and begins to transition, will the change resonate across all other areas of society from the individual to the society

One thing that stands out in the discussion on sustainable development and sustainability transitions is the role of social psychology and its applications. The following sections of this paper focus on this area, highlighting the most important theories that help in ourunderstanding of this field.

Application Of Social Psychology In Sustainability Transitions

Social psychology plays a crucial role in sustainability transitions by providing insights into the individual and collective behaviours, attitudes, and social dynamics that influence the adoption of the SDGs and sustainable practices (Hargreaves, 2011). It helps understand the underlying factors that drive or hinder the acceptance of sustainable innovations, the formation of pro-environmental attitudes, and the development of sustainable norms within societies. The application of social psychology in sustainability transitions enhances the effectiveness of interventions and policies aimed at fostering more sustainable behaviours and systems (Loorbach et al., 2017). Below are some key aspects of the role of social psychology in sustainability transitions:

1. ***Understanding Human Behaviour*:** Social psychology examines how individuals and groups perceive, interpret, and respond to environmental issues and sustainability challenges. By understanding human behaviour, motivations, and decision-making processes, researchers and practitioners can design interventions that resonate with people's values and encourage sustainable choices (Steg & Vlek, 2009).

2. ***Attitude Formation and Change*:** Social psychology explores how attitudes toward sustainability are formed and can be changed. Efforts to promote sustainability transitions often involve shifting attitudes towards more pro-environmental perspectives. Social marketing campaigns, education programs, and communication strategies leverage principlesfrom social psychology to influence individuals' attitudes (Ajzen, 1991; Stern, 2000).

3. ***Social Norms and Influences*:** The study of social norms and social influence is central to social psychology. Norms, both descriptive (what others are doing) and injunctive (what is perceived as socially approved), play a significant role in shaping behaviour. Understanding how social norms operate helps in designing interventions that leverage social influence to encourage sustainable practices (Cialdini, 2003).

4. ***Group Dynamics and Identity*:** Social identity theory and group dynamics offer insights into how social groups influence behaviour. Sustainable transitions often involve the formation of communities and networks advocating for change. Understanding group dynamics and identity formation aids in fostering a sense of belonging and shared values, which can motivate individuals to participate in sustainability initiatives (Tajfel & Turner, 1979; Steg et al., 2014).

5. ***Barriers and Motivators*:** Social psychology identifies barriers to and motivators for sustainable behaviour. Perceived barriers, such as inconvenience or social pressure, can impede sustainable choices. Identifying and addressing these barriers, while highlighting motivators like intrinsic values and social recognition, are essential for successful sustainability transitions (Gifford, 2011; Stern, 2000).

6. ***Behavioural Interventions*:** Behavioural interventions draw on social psychological principles to design strategies that encourage pro-environmental actions. These interventions may include feedback mechanisms, goal-setting, and social norm feedback to promote sustainable behaviours (Steg & Vlek, 2009; Abrahamse et al., 2005).

7. ***Communication and Framing*:** Social psychology informs effective communication strategies and message framing. Tailoring messages to align with individuals' values, using positive framing, and employing social comparison can enhance the persuasiveness of sustainability communications (Maibach et al., 2010; O'Neill & Nicholson-Cole, 2009).

8. ***Community Engagement*:** Building on principles of community psychology, involving communities in sustainability transitions is vital. Community engagement fosters a sense of ownership and empowerment, enhancing the likelihood of sustained and meaningful changes within local contexts (Pahl-Wostl, 2009).

The above listed applications of social psychology in the field of sustainability transitions can

be viewed through the lenses of some classical and contemporary theories. These theories are discussed in the proceeding sections.

Theoretical Frameworks Supporting The Application Of Social Psychology To SustainabilityTransitions

Understanding Human Behaviour: Social Cognitive Theory

The Social Cognitive Theory (SCT), proposed by Albert Bandura, emphasizes the role of observational learning, modelling, and cognitive processes in shaping human behaviour (Bandura, 1986). It helps explain how individuals acquire new behaviours by observing others and offering insights into how individuals learn and adopt new sustainable behaviours, and how these behaviours can be effectively promoted and sustained. The tenets of this theory will be explained one after the other.

a) ***Observational learning and modelling***: The SCT posits that individuals learn by observing others. In the context of sustainability transitions, this means that people can adopt sustainable behaviours by observing and modelling the actions of others within their social and cultural contexts. For example, showcasing successful sustainable practices in communities can serve as models for others to emulate.
b) ***Environmental influences on behaviour***: The SCT acknowledges the impact of the environment on behaviour. In the case of sustainability transitions, this involves understanding how the physical and social environment influences the adoption of sustainable practices. Environmental cues, such as the availability of recycling bins or the presence of sustainable infrastructure, can shape individuals' behaviours.
c) ***Self-regulation and goal setting***: The SCT also suggests that individuals are motivated by their expectations of the outcomes of their actions. Reinforcement, both positive and negative, influences the likelihood of behaviour repetition. In sustainability transitions, highlighting the positive outcomes of sustainable behaviours (e.g., cost savings, environmental benefits) can serve as a powerful motivator.
d) ***Collective efficacy and social support***: The SCT introduces the concept of collective efficacy, referring to the belief in a group's ability to achieve common goals. Social support and community engagement are crucial in sustainability transitions, as they enhance individuals' collective efficacy, making them more likely to engage in and sustain pro-environmental behaviours.
e) ***Self-efficacy and empowerment***: The SCT places a strong emphasis on self-efficacy, an individual's belief in their ability to perform a specific behaviour. Fostering self-efficacy is essential in sustainability transitions, as individuals need to feel empoweredto

contribute to positive environmental changes. This can be achieved through education, skills development, and supportive community structures.

f) ***Communications and social influence***: SCT informs communication strategies by highlighting the importance of role models, persuasive messages, and social influence. Sustainability campaigns can leverage SCT principles by showcasing individuals and communities adopting sustainable practices, using positive reinforcement, and highlighting the social norms associated with sustainability.

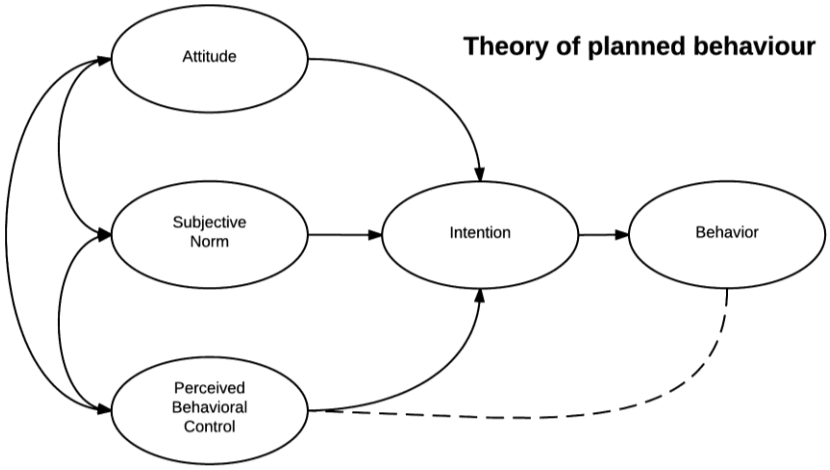
In summary, the SCT provides a valuable framework for understanding the cognitive and social processes that influence behaviour change. In sustainability transitions, the SCT offers insights into how individuals can learn, adopt, and maintain sustainable behavioursthrough observational learning, environmental influences, self-regulation, and social support. Integrating SCT principles into interventions and communication strategies enhances the likelihood of successful sustainability transitions by addressing the psychological and social factors that drive behaviour change (Sawitri et al., 2015).

Attitude Formation and Change: Theory of Planned Behaviour (TPB)

TPB, developed by Icek Ajzen, posits that attitudes, subjective norms, and perceived behavioural control influence behavioural intentions, which, in turn, predict behaviour (Ajzen,1991). TPB has been widely applied to understand and predict pro-environmental behavioursand attitude changes in the context of sustainability specifically in the context of individuals'intentions to engage in a particular behaviour. The TPB consists of three primary constructs: attitudes, subjective norms, and perceived behavioural control, which collectively shape an individual's behavioural intentions as seen in Figure 3 below.

Figure 3.

The theory of planned behaviour



The theory of planned behavior assumes that individuals act rationally, according to their attitudes, subjective norms, and perceived behavioral control.

a) ***Attitudes towards sustainability transitions:*** TPB suggests that individuals' attitudes toward a behaviour significantly influence their intentions to engage in that behaviour. In the context of sustainability transitions, understanding people's attitudes toward sustainable practices, such as using renewable energy or reducing waste, is crucial. Researchers and practitioners can explore how positive attitudes toward sustainability contribute to individuals' willingness to adopt and promote sustainable behaviours.

b) ***Subjective norms:*** Subjective norms refer to the perceived social pressure and approval or disapproval from significant others regarding a particular behaviour (Latimer & Martin Ginis, 2005). In sustainability transitions, understanding the influence of subjective norms helps identify the role of social networks, communities,and cultural factors in shaping pro-environmental behaviours. It is essential to consider how individuals perceive the expectations and approval of others when deciding whether to adopt sustainable practices.

c) ***Perceived behavioural control:*** Perceived behavioral control refers to individuals' beliefs about the ease or difficulty of performing a behavior. In the context of sustainability, this includes factors such as access to resources, knowledge, and the perceived ability to make a meaningful impact. Examining perceived behavioral control helps identify barriers and facilitators to sustainable practices. For instance, individuals may be more likely to adopt sustainable behaviors if they feel they have the necessary skills, resources, and support.

d) ***Predicting sustainable behaviour intentions:*** According to the TPB, behavioural intentions are strong predictors of actual behaviour (Norman & Smith, 1995). By assessing attitudes, subjective norms, and perceived behavioural control, researchersand practitioners can predict individuals' intentions to engage in sustainable practices. Understanding these intentions is crucial for designing effective interventions and policies that encourage sustainable behaviour adoption during sustainability transitions.

e) ***Actual behaviour, e.g. sustainable consumption:*** Sustainable consumption involves choices related to purchasing and using products and services with lower environmental impacts. The TPB is instrumental in understanding consumers' intentions and behaviours in adopting sustainable products. Researchers can examine

how attitudes, subjective norms, and perceived behavioural control influence the willingness to choose eco-friendly alternatives. The TPB's focus on behavioural intentions and the factors influencing them aligns with the long-term perspective of sustainability transitions. By understanding and addressing attitudes, subjective norms, and perceived behavioural control, interventions can target sustained behaviour change rather than short-term adjustments.

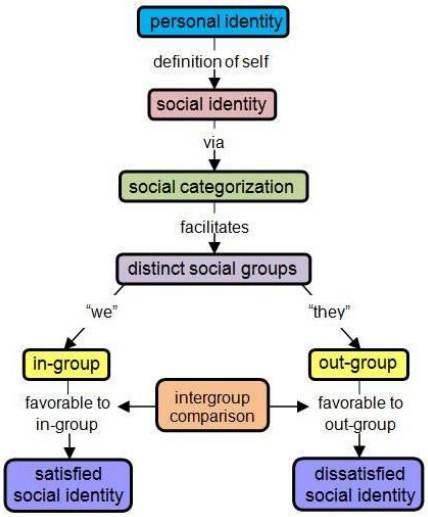
In summary, the TPB plays a pivotal role in sustainability transitions by offering a systematic framework to understand and predict human behaviour related to sustainable practices. Its emphasis on attitudes, subjective norms, and perceived behavioural controlprovides valuable insights for designing effective interventions, policies, and communication strategies that facilitate the transition towards more sustainable behaviours and systems. By applying the TPB, researchers and practitioners can enhancetheir understanding of the psychological determinants of behaviour, contributing to successful and enduring sustainability transitions.

Group Dynamics and Identity: Social Identity Theory

Social Identity Theory (SIT), proposed by Henri Tajfel and John Turner, explains how individuals categorize themselves and others into social groups, influencing behaviour and attitudes (Tajfel & Turner, 1979)

Figure 4.

Social Identity Theory



Social identity theory (SIT) provides a framework for explaining intergroup behavior and intergroup communication based on the inherent value humans place on social group memberships, and their desire to view their specific social groups in a positive light (Harwood, 2020). Sustainable transitions often involve the formationof communities and shared identities, which ultimately makes the SIT relevant.

a) ***Formation of personal pro-environmental identities*:** The SIT suggests that individuals derive a sense of identity and self-esteem from their group memberships. In the context of sustainability, individuals may identify with pro-environmental or eco- conscious groups, forming a personal pro-environmental social identity. Strategies that emphasize positive environmental identities and group memberships can encourage individuals to adopt sustainable behaviours. Campaigns promoting "green"or eco-friendly lifestyles often leverage SIT principles to foster a sense of belonging toa community with shared

environmental values.

b) ***Funnelling into social identities, categorisations and groups:*** SIT posits that individuals conform to the norms and behaviours of their in-group to enhance their social identity and acceptance. Sustainable transitions often involve the establishmentof pro-environmental norms within social groups. Social norm interventions can be designed to leverage existing or desired group identities to promote sustainable practices. Communicating that a particular behaviour is consistent with the values of one's social group can encourage adherence to pro-environmental norms.

c) ***Group dynamics and collective action:*** SIT highlights the importance of social groups in shaping attitudes and behaviours. Sustainable transitions often require collective action, and SIT offers insights into how groups can mobilize toward common goals. Initiatives promoting community-based sustainability projects or encouraging group participation in environmental activities align with SIT principles. By emphasizing the collective identity and shared goals, these initiatives can enhance engagement and commitment to sustainable actions. SIT recognizes the potential for intergroup conflicts based on perceived differences. Sustainability transitions may encounter resistance from individuals or groups with conflicting beliefs or interests. Strategies informed by SIT can seek to reduce intergroup conflicts by finding common ground and emphasizing shared identities. Highlighting the shared benefits of sustainability for various groups helps overcome resistance and fosters collaboration. IT emphasizesthe importance of positive intergroup relations. Communication strategies that enhance positive perceptions of sustainability initiatives among different social groupscan contribute to more effective transitions. Communicating sustainability messages in a way that aligns with diverse social identities and values can enhance receptiveness. Framing sustainability as a shared group goal rather than an individual responsibility can resonate better with SIT principles. SIT acknowledges the importance of both in-group and out-group dynamics. Emphasizing inclusivity and diversity in sustainability initiatives can help build bridges between different social groups. Sustainability transitions benefit from inclusive approaches that acknowledge diverse identities and perspectives. Promoting a sense of shared identity that transcends traditional boundaries can foster collaboration and inclusivity.

In summary, the Social Identity Theory provides valuable insights into the role of social groups, identities, and intergroup dynamics in shaping attitudes and behaviours related to sustainability. Leveraging the principles of SIT in interventions and communication strategies can contribute to more effective and inclusive sustainability transitions by fostering positive social identities and group dynamics. This link provides a list of articles that applied the TPB in environmental

behaviour research.

Barriers and Motivators: Construal Level Theory

The Construal Level Theory (CLT), developed by Nira Liberman and Yaacov Trope, offers valuable insights into how individuals mentally represent and construe information at different psychological distances. The theory suggests that individuals process information either in a more abstract, high-level manner or a more concrete, low-level manner, depending on the psychological distance of the information (Liberman & Trope, 1998). This theory can be particularly relevant to understanding and influencing sustainability transitions.

a) ***Temporal distance and long-term thinking***: According to CLT, distant future events are construed at a higher, more abstract level. Sustainability transitions often involvelong-term thinking and planning. CLT suggests that emphasizing the distant future consequences of current actions may encourage individuals and communities to adopt more sustainable behaviours, as these behaviours are construed in a more abstract, high-level manner (Liberman & Trope, 1998).

b) ***Special distance and motivation***: Distant locations or global issues are construed more abstractly. Global challenges like climate change and biodiversity loss require a broad, abstract perspective. Applying CLT, interventions that emphasize the global impact of individual actions may be more effective in encouraging pro-environmental behaviours by encouraging a high-level construal of the consequences (Trope &Liberman, 2010).

c) ***Psychological distance and motivation***: Psychological distance influences motivation, with distant events being construed more abstractly and involving higher-level goals. When sustainability goals are framed as high-level, abstract values (e.g., protecting the environment for future generations), individuals may be more motivated toengage in sustainable behaviours. CLT suggests that aligning sustainability messages with abstract, high-level goals can enhance motivation for long-term sustainable transitions (Trope & Liberman, 2010).

d) ***Interventions and message framing***: Framing messages in a way that aligns with individuals' construal level can impact their perceptions and behaviours. Tailoring interventions to match individuals' construal levels can enhance their effectiveness. For instance, concrete, low-level construals might be more effective in communicating immediate benefits of sustainable practices, while high-level construals may be more effective in conveying long-term and global consequences (Bar-Anan et al., 2006).

e) ***Behavioural change programs***: CLT suggests that individuals may be more receptive

to information presented at a construal level that matches their psychological distanceto the issue. Behavioural change programs can benefit from incorporating CLT insights. For instance, promoting local and immediate benefits (low-level construal) might be effective for short-term behaviour change, while emphasizing global and long-term consequences (high-level construal) can contribute to sustained engagement in sustainability practices (Trope & Liberman, 2010).

f) ***Overcoming barriers and resistance***: Distant future consequences may be more likely to overcome present-focused biases and resistance to change. CLT suggests that emphasizing the long-term benefits of sustainability can address cognitive biases that prioritize immediate rewards. By highlighting the abstract, high-level outcomes associated with sustainable actions, individuals may be more open to overcoming barriers and embracing transitions to more sustainable practices (Liberman & Trope, 1998).

Construal Level Theory provides a valuable framework for understanding how individuals mentally represent and process information related to sustainability transitions. By considering the temporal, spatial, and psychological dimensions of psychological distance,interventions and communication strategies can be tailored to align with individuals' construal levels, thereby enhancing the effectiveness of efforts to promote sustainable behaviours and contribute to broader sustainability transitions.

Conclusion

In conclusion, sustainable development has emerged as a response to the unsustainable practices of traditional development models, aiming to balance environmental, social, andeconomic considerations for the well-being of present and future generations. The Sustainable Development Goals (SDGs) provide a comprehensive framework to address global challenges and promote sustainable development across various sectors and dimensions. Sustainability transitions represent transformative shifts in societal systems and practices necessary to achieve sustainability goals. These transitions involve changes in technological, economic, and social structures, addressing challenges such as climate change, resource depletion, and environmental degradation. The role of social psychology in sustainability transitions is paramount, as it offers insights into individual and collective behaviours, attitudes, and social dynamics influencing the adoption of sustainable practices. Social psychology helps understand the underlying factors driving or hindering sustainable innovations, the formation of pro-environmental attitudes, and the development of sustainable norms within societies. By applying principles from social psychology, interventions and policies can be designed to foster more sustainable behaviours and systems. Key theoretical frameworks supporting the application of social psychology to sustainability transitions include Social Cognitive Theory, Theory of Planned Behaviour, Social Identity Theory, and

Construal Level Theory. These theories provide valuableinsights into human behaviour, attitude formation and change, group dynamics and identity, and barriers and motivators for sustainable behaviours. By integrating these theoretical frameworks into interventions and communication strategies, stakeholders can enhance their understanding of the psychological determinants of behaviour, contributing to successful and enduring sustainability transitions.

In summary, the integration of social psychology principles into sustainability transitions is essential for promoting widespread adoption of sustainable practices and achieving the overarching goal of sustainable development. By addressing individual and collective psychological factors, stakeholders can effectively drive behavioural change and facilitatethe transition towards a more sustainable and equitable future.

References

Ajzen, I. (1991). The Theory of Planned Behaviour. Organizational Behaviour and Human *Decision Processes, 50*(2), 179–211.

Bandura, A. (1986). *Social Foundations of Thought and Action: A Social Cognitive Theory*. Prentice-Hall.

Bar-Anan, Y., Liberman, N., Trope, Y., Algom, D. (2007). Automatic Processing of Psychological Distance: Evidence from a Stroop Task. *Journal of Experimental Psychology: General, 136*(4), 610–622.

Bennett, N. J., Blythe, J., Cisneros-Montemayor, A. M., Singh, G. G., & Sumaila, U. R. (2019). Just transformations to sustainability. *Sustainability*, *11*(14), 3881.

Biermann, F., Kanie, N., & Kim, R. E. (2009). Global governance by goal-setting: The novel approach of the UN Sustainable Development Goals. Current Opinion in Environmental Sustainability, 1(3), 261–267.

Cialdini, R. B. (2003). Crafting Normative Messages to Protect the Environment. *Current Directions in Psychological Science*, *12*(4), 105–109.

Elkington, J. (1997). Cannibals with Forks: The Triple Bottom Line of 21st Century Business. New Society Publishers.

Frantzeskaki, N., Loorbach, D., & Meadowcroft, J. (2012). Governing societal transitions to sustainability. *International journal of sustainable development*, *15*(1-2), 19-36.

Gaziulusoy, İ., & Erdoğan Öztekin, E. (2019). Design for sustainability transitions: Origins, attitudes and future directions. *Sustainability*, *11*(13), 3601.

Geels, F. W. (2002). Technological transitions as evolutionary reconfiguration processes: A multi-level perspective and a case study. Research Policy, 31(8–9), 1257–1274.

Hargreaves, T. (2011). Practicing behaviour change: Applying social practice theory to pro-environmental behaviour change. *Journal of consumer culture*, *11*(1), 79-99.

Harwood, J. (2020). Social Identity Theory. In *The International Encyclopedia of Media Psychology*, J. Bulck (Ed.). https://doi.org/10.1002/9781119011071.iemp0153

Latimer, A. E., & Martin Ginis, K. A. (2005). The importance of subjective norms for people who care what others think of them. *Psychology & Health*, *20*(1), 53-62.

Lele, S. (1991). Sustainable development: A critical review. *World Development, 19*(6), 607–621.

Liberman, N., & Trope, Y. (1998). The role of feasibility and desirability considerations in near and distant future decisions: A test of temporal construal theory. *Journal of Personality and Social Psychology, 75*(1), 5–18.

Loorbach, D., Frantzeskaki, N., & Avelino, F. (2017). Sustainability transitions research: transforming science and practice for societal change. *Annual review of environment and resources*, *42*, 599-626.

McKenzie-Mohr, D., & Schultz, P. W. (2014). Choosing Effective Behavior Change Tools. *SocialMarketing Quarterly, 20*(1), 35–46.

Mebratu, D. (1998). Sustainability and sustainable development: historical and conceptual review. *Environmental impact assessment review, 18*(6), 493-520.

Norman, P., & Smith, L. (1995). The theory of planned behaviour and exercise: An investigation into the role of prior behaviour, behavioural intentions and attitude variability. *European Journal of Social Psychology, 25*(4), 403-415.

Pahl-Wostl, C. (2009). A conceptual framework for analyzing adaptive capacity and multi-level learning processes in resource governance regimes. *Global Environmental Change, 19*(3), 354–365.

Petty, R. E., & Cacioppo, J. T. (1986). *Communication and Persuasion: Central and Peripheral Routes to Attitude Change*. Springer.

Raworth, K. (2012). A Safe and Just Space for Humanity: Can We Live Within the Doughnut? *Oxfam Policy & Practice: Climate Change and Resilience, 8*(1), 1–27.

Sawitri, D. R., Hadiyanto, H., & Hadi, S. P. (2015). Pro-environmental behavior from a socialcognitive theory perspective. *Procedia Environmental Sciences, 23*, 27-33.

Stern, P. C. (2000). Toward a Coherent Theory of Environmentally Significant Behaviour. *Journal of Social Issues, 56*(3), 407–424.

Tajfel, H., & Turner, J. C. (1979). An Integrative Theory of Intergroup Conflict. *The Social Psychology of Intergroup Relations, 33*, 47–74.

Thaler, R. H., & Sunstein, C. R. (2008). *Nudge: Improving Decisions About Health, Wealth, and Happiness*. Yale University Press.

Trope, Y., & Liberman, N. (2010). Construal-level theory of psychological distance. *Psychological Review, 117*(2), 440–463.

World Commission on Environment and Development (WCED). (1987). *Our Common Future*. Oxford: Oxford University Press.