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Empowering Sustainable Change: Emergence of Transforming Wellbeing Theory

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Abstract. Majority of global problems and business challenges are byproducts of poor human attitude and behavior. Communities, societies, businesses, and organizations, basically everyone needs help with transformations. People often tend to perceive changes as something difficult, impossible, and mystical, thus are willing to avoid them. That attitude naturally leads to poorer decisions and consequent behavioral outcomes. This science-driven tutorial demystifies transformation by introducing *Transforming Wellbeing Theory* that explains the essentials of and inevitable necessity for transformation, *Typology of Change* that clarifies the variety of different changes, and *Transforming Framework* that provides 8 (eight) applicable tools for bending technological innovations with human nature to empower sustainable changes at scale. Due to its scientific richness and practical nature, this transforming tutorial is applicable in many essential contexts, including wellbeing, health, innovation, leadership, autonomy, commercialization, education, diversity, culture, sustainability, dwelling, equality, social change, governance, automation, emergency, management, marketing, art, safety, ecology, and economy.

Keywords: Transforming Wellbeing Theory, Typology of Change, Persuasive Technology, Transforming Framework, Transformation, Design, Wellbeing

1 Transforming Wellbeing Theory

Transforming Wellbeing Theory is emerging as an inevitable response to the ever-growing imbalance in our lives across the globe [15]. Over the decades, we have been advancing technologies to make our lives better and businesses growing. The fundamental question still remains: with all the evolving technologies, are we gaining decent success in achieving healthier societies and well performing organizations? Every crucial domain of our lives continuously provides evidence of how things are getting imbalanced despite us making huge progress in building increasingly capable innovations. This work summarizes the state-of-the-art scientific insights and practical applications to transform lives and accelerate businesses at global scale.

Present knowledge on persuasive technology often reveals how behavior change designs and interventions are limited in sustaining their effects [5-6]. There is an increasing need for novel ways to design technology that helps people not only to achieve their goals, but also to support sustaining their newly developed habits. Transforming innovations should ultimately empower people and organizations to succeed in their desired and more often even inevitable changes. Thus, the theory aims at extending the understanding beyond limitations of traditional change management and behavioral designs.

The theory is highly instrumental for organizations and communities that are designing for and undergoing transformations, as it provides and helps internalizing easy to use methods and tools for achieving permanent behavior change. This science-driven work embodies advanced knowledge on how to design sustainable changes, including *Typology of Change* and *Transforming Framework*.

2 Typology of Change

Scientific literature [1] [3-4] [16] reveals three general types of change: *transactional*, *transitional*, and *transformational* (Fig. 1). Transactional change is usually defined as an occurrence producing an outcome that differs from previous preferences. Then, transitional change is often defined as a period, in which certain outcomes significantly differ from what was habitual before. However, transformational change manifests itself as a continuum having direction as well as magnitude to produce apparently irreversible shifts.

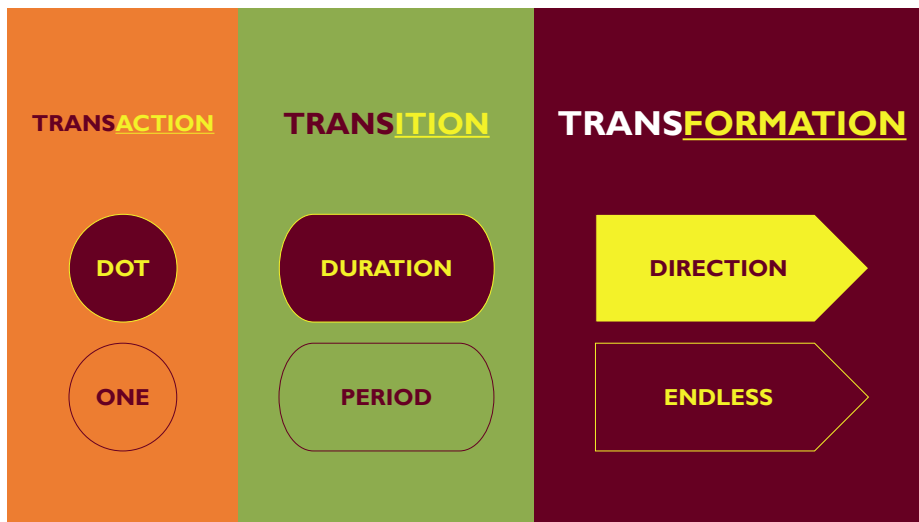


Fig. 1. Typology of Change.

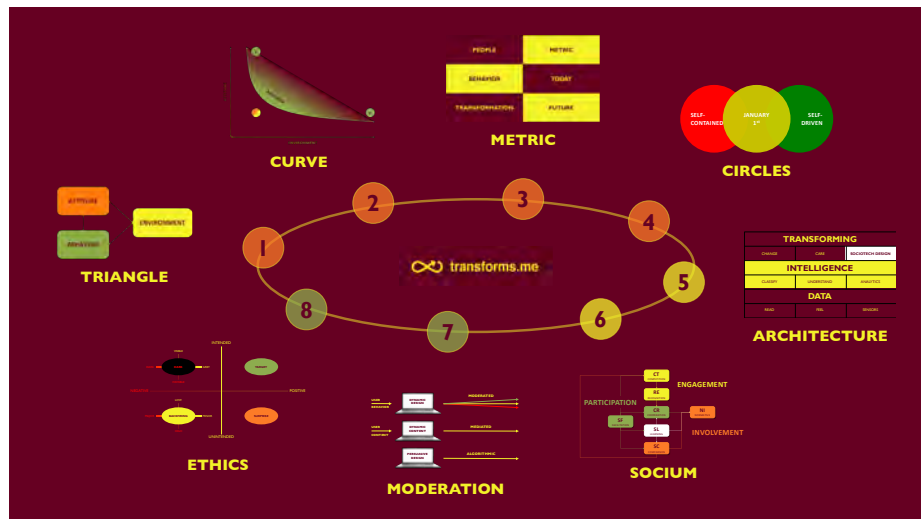
The three types of change have their characteristics, including general descriptions, overall perspective, perceived timelines, orientations, nature, metrics, underlining psychology, and some examples provided in Table 1.

Table 1. Types of change and their characteristics.

	Transactional Change	Transitional Change	Transformational Change
Description	To carry on or conduct something to a conclusion or settlement.	Relating to a period during which something is changing from one state or form into another.	To change completely the appearance or character of something or someone, especially so that that thing or person is improved.
Perspective	One-time decision	Durational approach	Paradigm shifts
Time	Short-term	Defined-term	Timeless
Orientation	Cost-benefit	Goal	Identity development
Nature	Bargaining	Achievement	Directional
Metric	Decision	Milestone	Personality traits
Psychology	Economical	Motivational	Spiritual
Example	Riding a bike to a park to get free lunch.	Giving up alcohol for a month.	Becoming a true forgiver from now on.

3 Transforming Framework

Despite acknowledgeable progress in designing persuasive technologies, many behavioral design interventions still produce unsustainable effects on target audiences [8]. To help scientists and practitioners creating technology designs for sustainable change [7] and wellbeing [10], a science-driven *Transforming Framework* is introduced (Fig. 2).

**Fig. 2.** Transforming Framework.

Transforming Framework embodies 8 (eight) scientifically driven tools that leverage prior knowledge on triadic reciprocal determinism (*TRIANGLE*) [2], elaboration and behavioral modeling (*CURVE*) [6] [9], essential components for defining transformation (*METRIC*) [14], susceptibility to influence and change (*CIRCLES*) [14], key layers of transforming technology design (*ARCHITECTURE*) [14], fundamentals of socially influencing systems (*SOCIUM*) [11], typology of computer-supported influence (*MODERATION*) [12], and dark patterns and persuasive backfiring (*ETHICS*) [13].

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