



# Closing the Sustainability Values–Action Gap

Development of Interdisciplinary Training  
for Emerging Corporate Leaders

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# Abstract

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Humanity has reached a critical time for decision-making as ecosystem tipping points approach that will determine the future livability of planet Earth. American corporations are major contributors to the climate crisis, driving high rates of emissions and pursuing unsustainable growth for capital gains, rather than working towards a life-centered economy that prioritizes the health of all people and the planet. This thesis addresses the need for emerging corporate leaders who value sustainability, to act in alignment with those beliefs when it comes to taking action in the corporate sector. Using design for behavior change, this thesis developed a training program built around an in-person retreat. The material covered uses the combined disciplines of sustainability, design, and mindfulness to equip participants with the knowledge, skills, and understanding needed to have the capabilities to act in their respective workplaces in accordance with their sustainability values, especially as new opportunities arise when they step into more powerful leadership positions within their corporations. Supported by a new network of like-minded change-makers, participants of the program have the potential to steer the American economy toward a life-centered future and inspire greater global action to follow suit.

# Table of Contents

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PROJECT INTRODUCTION .....	4-16
PROJECT EXECUTION .....	17-71
Empathize .....	24
Define .....	34
Ideate .....	49
Prototype .....	57
Test .....	68
PROJECT OUTCOME .....	73-87
Conclusion .....	86
WORK CITED .....	88-99
APPENDICES .....	100-106

# Project Introduction

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problem

challenge

thesis

idea

strategy

impact

scope

goals

insights



**“There is a rapidly closing window of opportunity to secure a liveable and sustainable future for all...The choices and actions implemented in this decade will have impacts now and for thousands of years.”<sup>1</sup> -2023 IPCC Report**



# Problem Statement

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Emerging U.S. corporate leaders\* residing in the U.S. who exhibit sustainability behaviors in their personal lives, are experiencing a sustainability values-action gap at work,<sup>2</sup> hindering progress towards achieving a life-centered economy.<sup>3</sup>

# Sustainability Challenge

The **Fortune 500 companies** are estimated to be responsible for around **27% of global emissions**,<sup>4</sup> however, despite American corporations acknowledging that action needs to be taken, **the super majority of corporate sustainability initiatives are currently vastly inadequate to mitigate devastating ecosystem and social tipping points** around the world as current business strategy continues to pursue growth at the expense of social equity and our ecosystem health.<sup>5</sup>

Emerging corporate leaders, mostly categorized by age as millennials, are one of the first generations to indicate they are **unsatisfied with business as usual** and would rather pursue their sustainability values to push for systemic change.<sup>2</sup>

Despite **90% making an effort to reduce their environmental impact**, these millennials still have **trouble acting on these values at work**.<sup>2</sup> While **84% of millennials believe their employers are not strongly committed to fighting climate change**, only 43% say they have put some pressure on their employer to take action.<sup>2</sup> While these statistics are based on global millennial data, conservative extrapolation could infer that similar numbers also apply to the target demographic of this thesis.

It is also important to note that U.S. **“Millennials have significantly more student debt, lower levels of homeownership, and less net worth than previous generations,”**<sup>6</sup> and therefore are likely to face increased personal risks to their financial security if they challenge priorities and practices in their workplaces.

**Only 52% of global millennials feel empowered to drive change** within their organizations, and many have requested employers make it a **top priority to commit to visible climate actions**, including providing **training** to help people make better environmental decisions.<sup>2</sup> Again, while data was collected from a global audience, extrapolation could infer that similar numbers also apply to U.S. millennials working in fortune 500 companies.

challenge



# Thesis Statement

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Training that integrates design, mindfulness, and sustainability can equip emerging U.S. corporate leaders who reside in the U.S. and work for U.S. fortune 500 companies, with the knowledge, skills, and understanding needed to align their sustainability-focused values with their professional actions, enabling behavior change at an individual level to ultimately contribute to significant progress on an organization scale towards achieving a life-centered economy.





# Idea

The initial idea behind this thesis work is to help professionals who are on track to step into U.S. corporate leadership positions, to identify and address disconnections that are creating a **sustainability values-action gap in the workplace**.

By examining **core values** and exploring **inner development work**, emerging leaders will expand their leadership capacities, better preparing them to influence their organizations towards achieving a **life-centered economy**.

Emerging U.S. corporate leaders will enroll in a training that will cover the **integration of design thinking , sustainability frameworks, and mindfulness** to effectively achieve the **behavior change** needed to redirect the trajectory of a traditional leadership path and guide participants to becoming **evolving leaders** (as labeled for the purpose of this thesis).

The training will contain information and practice activities to slowly introduce new perspectives and strategies, while ultimately culminating in the creation of a **personal action plan** for sustained change and accountability beyond the duration of the programmed material.

While there are innumerable paths that lead to the types of leader that would contribute to a life-centered economy, **this thesis work offers one possible solution** that deviates from the traditional path.



# Strategy

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## Implementation

The proposed training will be available to **self-selecting participants** regardless of their industry and independent of internal company development offerings. This will ensure that attendees are **motivated to achieve the objectives** of the training and allow them to connect with other like-minded individuals from outside their organization. This new network not only further engenders personal integration of the training, but also cultivates a **community of support and accountability** for emerging leaders to lean on as they advance in their careers.

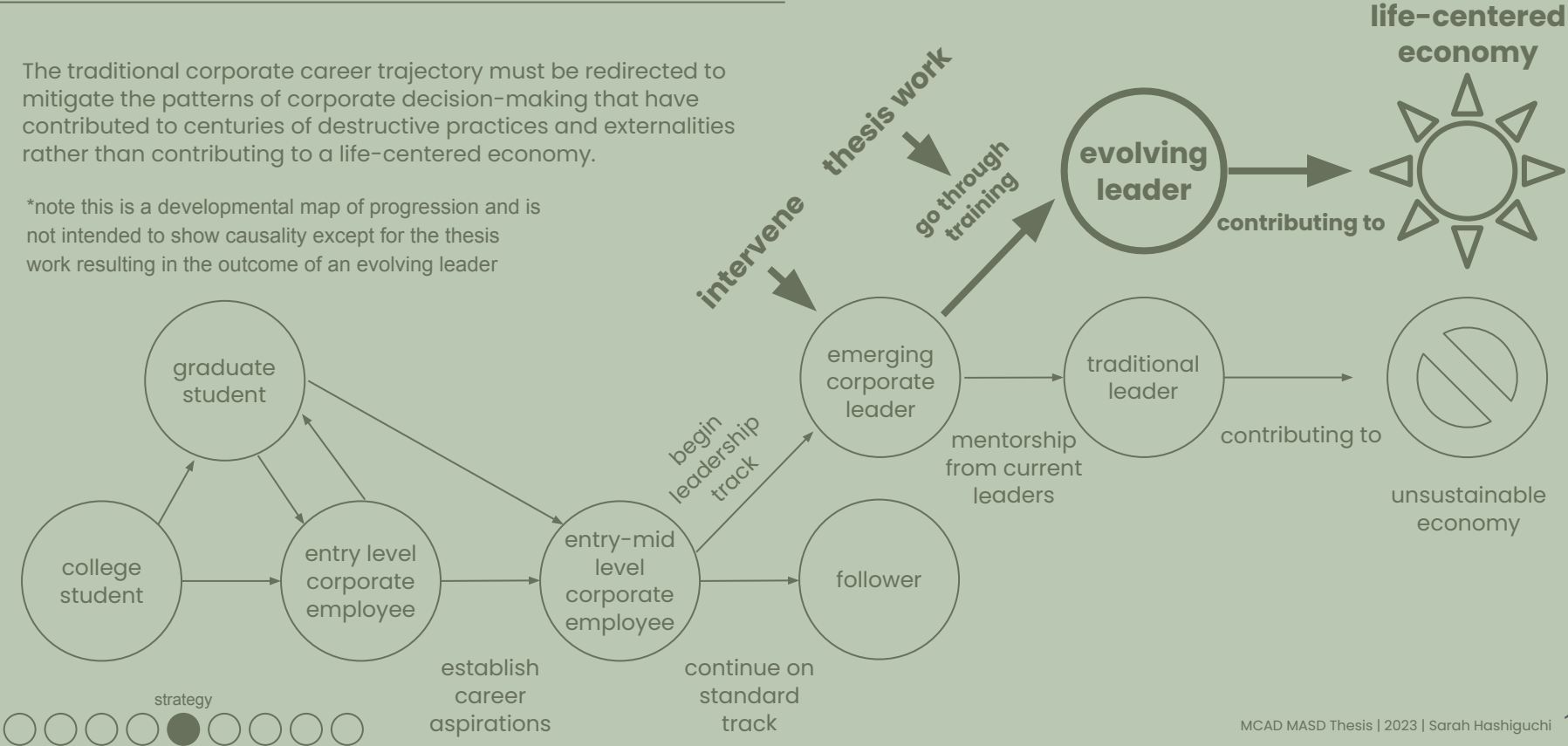
## Getting There

**Further research** will need to be conducted to better understand the **barriers and the systematic factors** contributing to the sustainability values-action gap in the workplace and how best to integrate frameworks in a way that aligns with the selected behavior change model. **Research insights will inform how the training is structured** including the schedule, activity formats, learning styles, and amount of content included as to be useful rather than overwhelming. The formal business plan, including the 'go-to-market' strategy, are missing components in this document, but would need to be addressed if this work continues beyond this thesis project.

# Professional Journey Map

The traditional corporate career trajectory must be redirected to mitigate the patterns of corporate decision-making that have contributed to centuries of destructive practices and externalities rather than contributing to a life-centered economy.

\*note this is a developmental map of progression and is not intended to show causality except for the thesis work resulting in the outcome of an evolving leader





# Potential Impact

This thesis work has the potential to impact about a million emerging corporate leaders within the U.S. Participants that have moved through the program and stepped into leadership roles have the potential to act on their values to reduce nearly a third of the global GHG emissions that their American corporations produce.

## Total Potential Participants

5% of 21,738,000 = 1,086,900

“A high-potential employee is usually in the top 5% of employees in an organization”<sup>7</sup>

Americans ages 25-34 in management, business, & financial operations<sup>8</sup>

professionals who are on track to step into U.S. corporate leadership positions

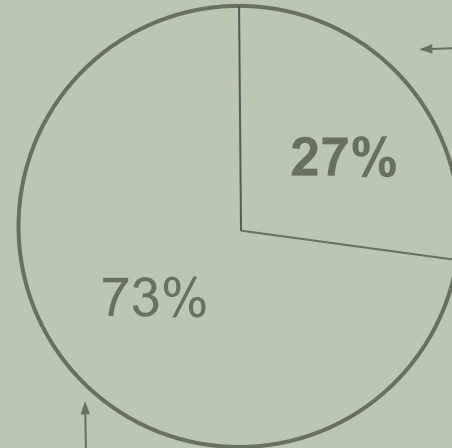
90% of 1,086,900 ≈ 1 Million

of U.S. millennials practice sustainability at home (based on an inference from global millennial data<sup>2</sup>)

professionals who are on track to step into U.S. corporate leadership positions

potential participants

## Total Worldwide Greenhouse Gas (GHG) Emissions per Year



500 largest companies in the U.S. economy<sup>4</sup>

=

13.15 billion tonnes GHG emissions per year<sup>4</sup>

=

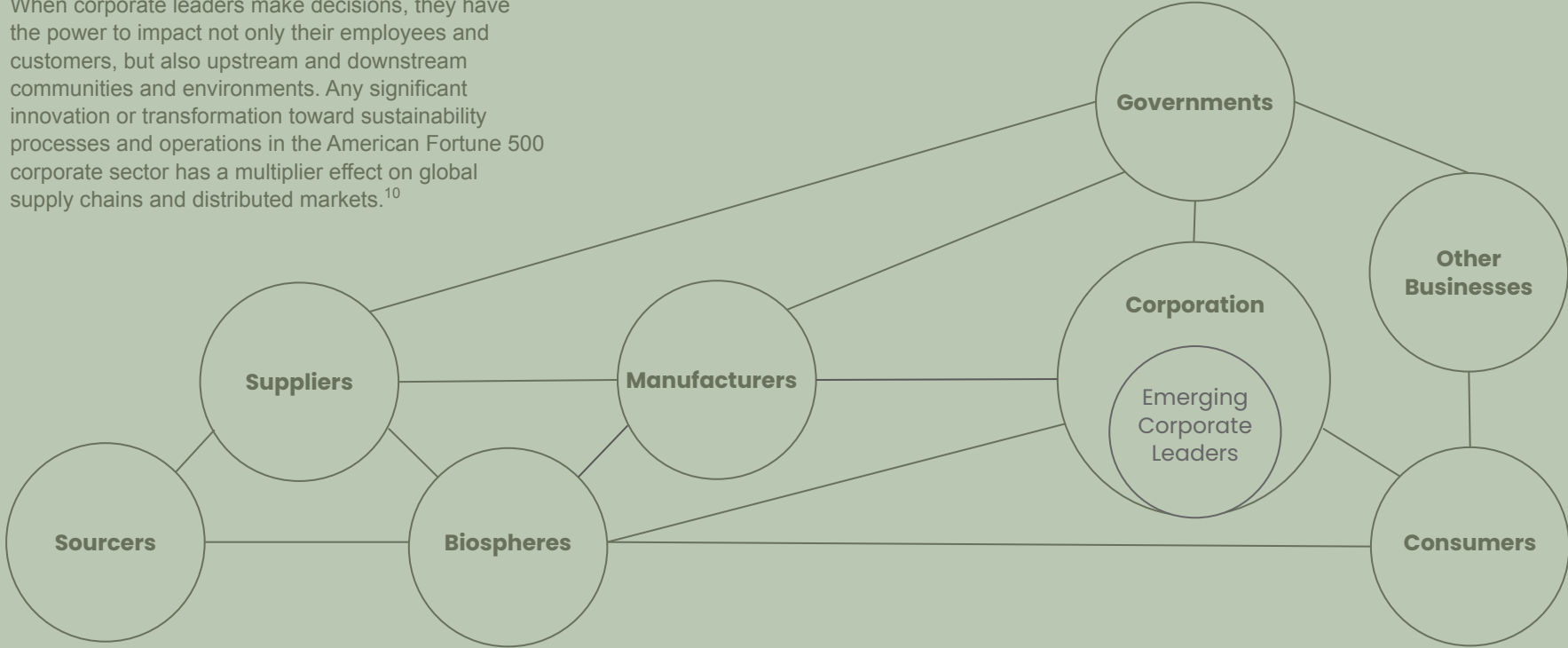
GHG emissions from 11,708 coal-fired power plants in a year<sup>9</sup>

everyone else in the world



# Potential Impact

When corporate leaders make decisions, they have the power to impact not only their employees and customers, but also upstream and downstream communities and environments. Any significant innovation or transformation toward sustainability processes and operations in the American Fortune 500 corporate sector has a multiplier effect on global supply chains and distributed markets.<sup>10</sup>



# Scope



The scope of this thesis includes the behaviors of emerging leaders bound to step into positions of power in American corporations within the next five years.

This work does not include current senior leadership, nor does it cover emerging leaders who do not already practice sustainability behaviors in their personal lives. While ancient yoga and mindfulness practices have ties to specific religions, this thesis work will focus on secular adaptations.

# My Professional Goals

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- Effectively communicate design and sustainability concepts to people across various industries
- Improve people's overall wellbeing – share optimism, inspiration, and joy
- Empower individuals with tools to join and stay resilient in the fight against climate change
- Connect different schools of thinking to create innovative ways to approach new problems
- Use personal strengths to impact larger systemic change



# Project Introduction Insights

- Many leadership training focus on hard skills, which leaves opportunity for more dynamic trainings<sup>11, 12</sup>
- People must develop self-awareness and cultivate self-regulation skills in order to lead others most effectively<sup>13</sup>
- Creating the journey map proved to be a helpful visual in better understanding the point of intervention and end goal
- A related issue to address in future work would be reconciling personal values with a company's values-action gap when an employer vocally promotes sustainability business values while actively greenwashing or taking no action at all → a different misalignment
- Coming from a background of over two decades worth of practice, intentionally making time for meditation and breathwork before thesis working sessions help ease the stress and overwhelm of the process → walk the walk

insights



# Project Execution

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insight reflected in the Project Outcome

**“Design is the first signal of  
human intention.”<sup>14</sup>**

-William McDonough

architect and co-author of Cradle to Cradle



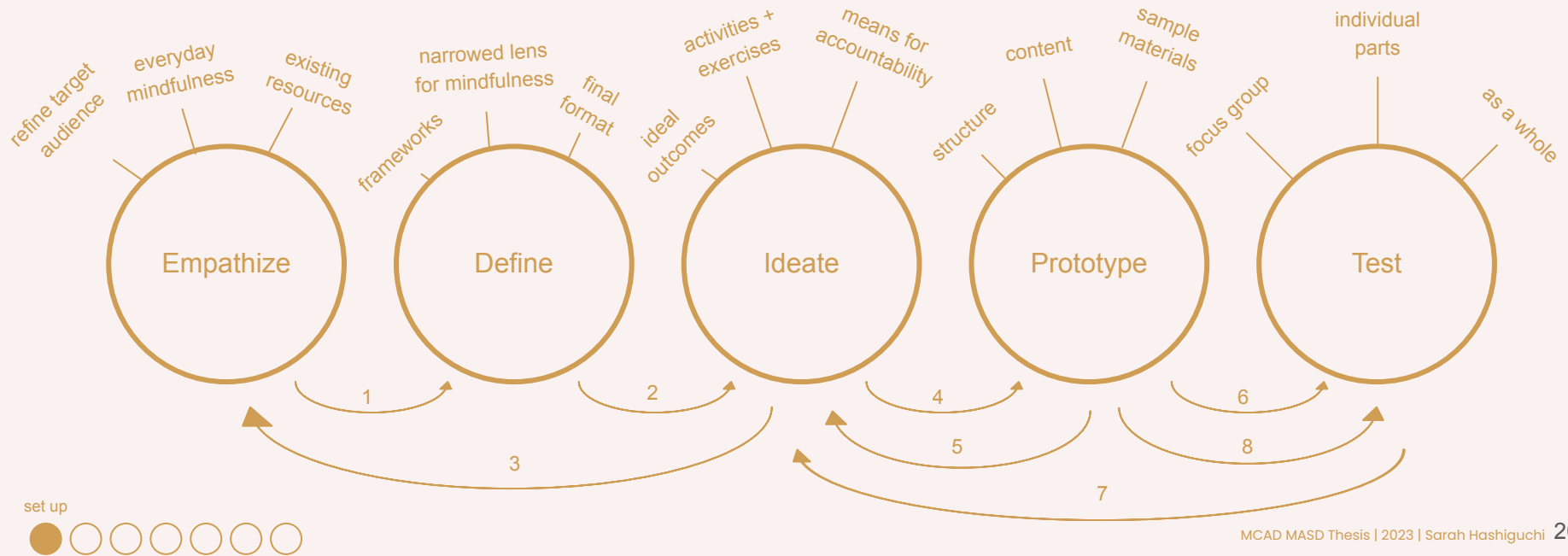
# Project Objectives

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- Empower emerging leaders to step into future influential roles equipped with the knowledge, skills, and understanding to demonstrate sustainability values-based leadership
- Integrate frameworks from different disciplines to highlight the emergent theme of deep connection\* to create a holistic approach to values-based action
- Show mastery over the understanding and application of select sustainability frameworks
- Use a case study to demonstrate the potential of this work to positively impact future business leadership
- Contribute to efforts to effect the systemic change required to achieve a life-centered economy

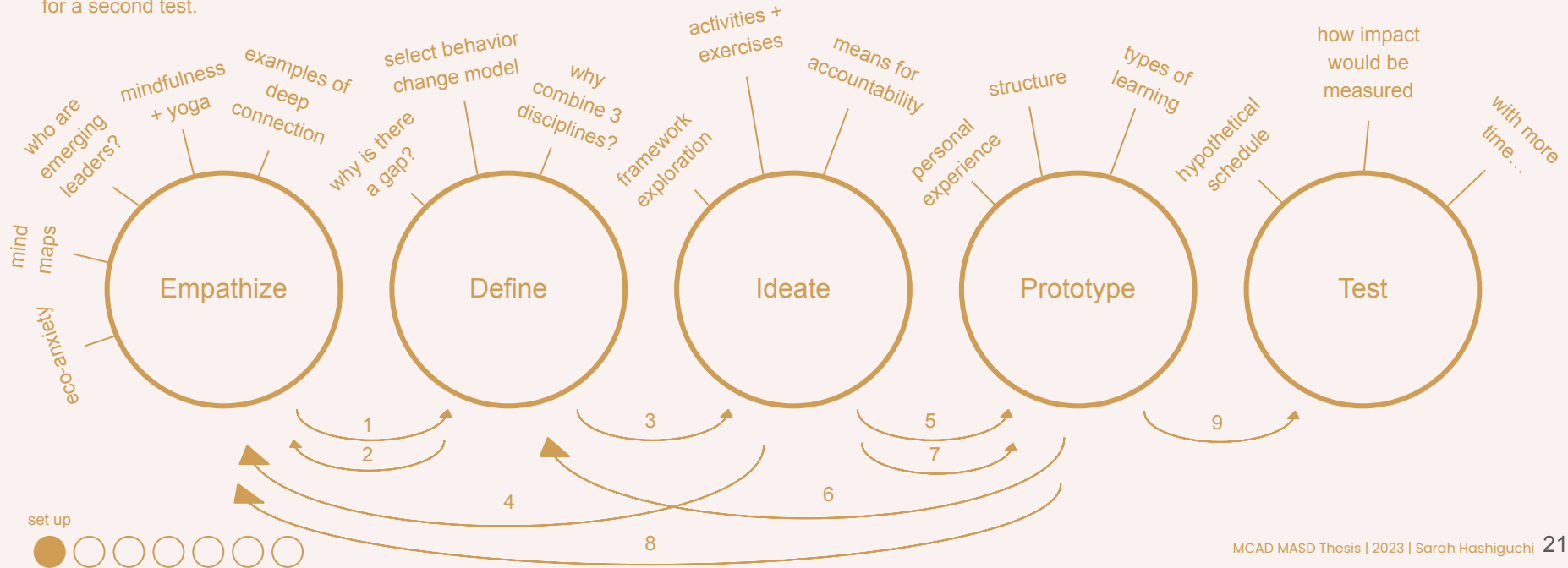
# Proposed Process

Using Design Thinking to work through the thesis development process, it was predicted that ideation would illuminate some gaps in knowledge about the target audience and spark more empathy work, while prototyping may show the need for more ideation.<sup>15</sup> Finally, responding to insights from the first test might require more ideation and prototyping before running again.



# Actual Process

The actual thesis development process spent much more time in the Empathize stage than originally predicted to ensure the root of the problem and target audience were adequately understood. The test also became hypothetical, so there was no additional ideation or prototyping to prepare for a second test.



# Frameworks for Design Process

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This is an overview of the frameworks used to design and develop this thesis work. Each was used to guide research and discovery as the final project began to take form. These frameworks will be revisited in more depth in upcoming sections.

## Systems Thinking<sup>16</sup>

### *What?*

A way of understanding complex connections between individual parts whose dynamic relationships and feedback loops influence each other and the whole.

### *Why?*

This framework helped determine significant leverage points that served as places in which to intervene in the larger system; by affecting change at these points, the systems view also gives context for cascading effects of potential impacts of this thesis work on a larger scale.

## Design Thinking<sup>15</sup>

### *What?*

A non-linear process that emphasizes a human-centered approach to problem solving and involves working through ideas quickly in order to learn and improve upon each iteration.

### *Why?*

Design thinking for this type of a social issue – which is one of demographic perceptions/values/behaviors – is an approach that prototypes possible 'solutions' in view of a context. Systems thinking allows insight into the systemic factors and drivers within that context.

## COM-B Model<sup>17</sup>

### *What?*

A behavior change model that recognizes capability (C), opportunity (O), and motivation (M) as the key factors in enabling behavior (B) change.

### *Why?*

The ultimate goal of this thesis is to redirect the behavior of emerging leaders to support them in closing their sustainability values-action gap in the workplace, which will require knowing where and how to successfully intervene.

# Frameworks for Training Program

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This is an overview of the frameworks used to create the final project outcome of the Training Program. These frameworks, with the addition of Design Thinking, are introduced directly to participants of the training program.<sup>15</sup> Again, these frameworks will be revisited in more depth in upcoming sections.

## The Natural Step<sup>18</sup>

### *What?*

A process for envisioning an ideal future, assessing current levels of sustainability of an organization against four sustainability principles, and building a plan to achieve that ideal future.

### *Why?*

The A, B, C, and D steps that guide the overall process include important activities such as backcasting and devising a plan, which can offer both inspiring and actionable steps for emerging leaders.

## The Living Principles<sup>19, 20</sup>

### *What?*

A framework that addresses four streams of sustainability – environment, people, economy, and culture – to create an actionable roadmap for leaders to improve sustainability in their organization.

### *Why?*

The framework is simple enough for first time users to understand and apply quickly, but also allows for deeper insights when used to assess more complex projects.

## Inner Development Goals<sup>21, 22, 23</sup>

### *What?*

A series of 23 skills across five dimensions that are necessary to address sustainability issues, understand complex problems, and accomplish the UN Sustainable Development Goals.

### *Why?*

These existing goals help confirm specific measures of inner growth to work on and will therefore inform thesis outcome learning objectives.

# EMPATHIZE

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## Thesis Process

Research to better understand the humans who will have the opportunity to advance the development of corporations' sustainability impact. Who are they now and what are the goals for the future?

- Who Are Emerging Corporate Leaders?
- Who Are They Trying to Become?
- What Will They Feel?
- Deep Connection
- Achieving a Life-Centered Economy
- Pain Points
- Socioeconomic Pressures
- Empathy Maps
- Empathize → Define

empathize



# Who Are Emerging Corporate Leaders?

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In this thesis, emerging corporate leaders are defined as millennials residing in the U.S. and working in American fortune 500 corporations who will be stepping into higher leadership positions in the next five years. Identifying patterns around this demographic's wants and needs provides background to inform how best to work with and support them on their behavior change journey.

## Distressed

“...millennials are deeply worried about the state of the world and are fighting to reconcile their desire for change with the demands and constraints of everyday life”<sup>2</sup>

## Empathetic & Adaptable

“Empathy and Adaptability are unique to Millennials compared with all other generations’ top five strengths”<sup>24</sup>

## Seeking Change

“Millennials are pushing for change in the world — including in the marketplace and the workplace. They don’t accept ‘that’s the way it has always been done’ as a viable answer”<sup>24</sup>

## Eager to Step Up

“...eagerness to take the torch from those who, in their opinion, are doing too little to improve society and address the issues they care about most”<sup>25</sup>

empathize





# Who Are They Trying to Become?

Emerging corporate leaders strive to be effective leaders for sustainable change (referred to in this thesis as evolving leaders).<sup>2, 24, 25</sup> Collections of the qualities necessary to be one of these leaders have been defined by a number of organizations working in a similar space. After exploring the following options, this thesis focuses on the **Inner Development Goals** due to the close alignment with the UN Sustainable Development Goals.

## Inner Development Goals<sup>21, 22, 23</sup>

*Qualities within the framework of:*

- Being – relationship to self
- Thinking – cognitive skills
- Relating – caring for others & the world
- Collaborating – social skills
- Acting – enabling change

## AACSB<sup>26</sup>

*Emerging Competencies:*

- Co-Creation
- Compassion
- Depolarization
- Discernment
- Interconnectivity
- Paradox
- Self-reflexivity

## The B Team<sup>27</sup>

*From a Letter to Leaders:*

“bold and brave leadership, embracing not only purpose, but also the principles of sustainability, equality and accountability”

## Soil<sup>28</sup>

*Pillars of Inspired Leadership:*

- Awareness
- Balance
- Compassion
- Diversity
- Ethics

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# What Will They Feel?

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As emerging corporate leaders work to become evolving leaders, the goal is for them to embrace the feeling of **deep connection**, most often understood as a knowing of one's place in the universe and the interdependence of life across the planet. They will explore on a somatic level how one's actions have a ripple effect of impact throughout the grand network of biodiversity on Earth.

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# Deep Connection

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How has deep connection been defined? Where else has the concept arisen? Why is it important? Dominant cultural and thought systems that represent Deep Connection include:

## Indigenous Wisdom

“Each person, human or no, is bound to every other in a reciprocal relationship. Just as all beings have a duty to me, I have a duty to them. If an animal gives its life to feed me, I am in turn bound to support its life. If I receive a stream’s gift of pure water, then I am responsible for returning a gift in kind. An integral part of a human’s education is to know those duties and how to perform them.”<sup>29</sup>

## The Hanover Principles

Principle 3: “Respect relationships between spirit and matter. Consider all aspects of human settlement including community, dwelling, industry and trade in terms of existing and evolving connections between spiritual and material consciousness.”<sup>30</sup>

## Deep Ecology

“The cornerstones of his [Norwegian philosopher and ecologist Arne Naess] deep ecology perspective include self-realization and biocentric equality. Self-realization is the concept of being connected to other life forces. Biocentric equality means that all species have the intrinsic right to exist. Thus, deep ecology asks us to reexamine our role in the web of life.”<sup>30</sup>

## The Systems View of Life

“The systems view of life is an ecological view that is grounded, ultimately, in spiritual awareness. Connectedness, relationship, and community are fundamental concepts of ecology; and connectedness, relationship, and belonging are the essence of spiritual experience. Thus it is not surprising that the emerging systematic and ecological paradigm is in harmony with many ideas in spiritual traditions.”<sup>31</sup>

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# Achieving a Life-Centered Economy

What it might feel like to live in a life-centered economy:



empathize



**Life-Centered Economy:** “places well-being of all lives, social equity, and ecological sustainability at its core, moving beyond traditional growth-focused approaches. By embracing circularity, regenerativity, and inclusivity, it aims to create thriving communities, preserve resources, and distribute wealth and opportunities more equitably.”<sup>32</sup>

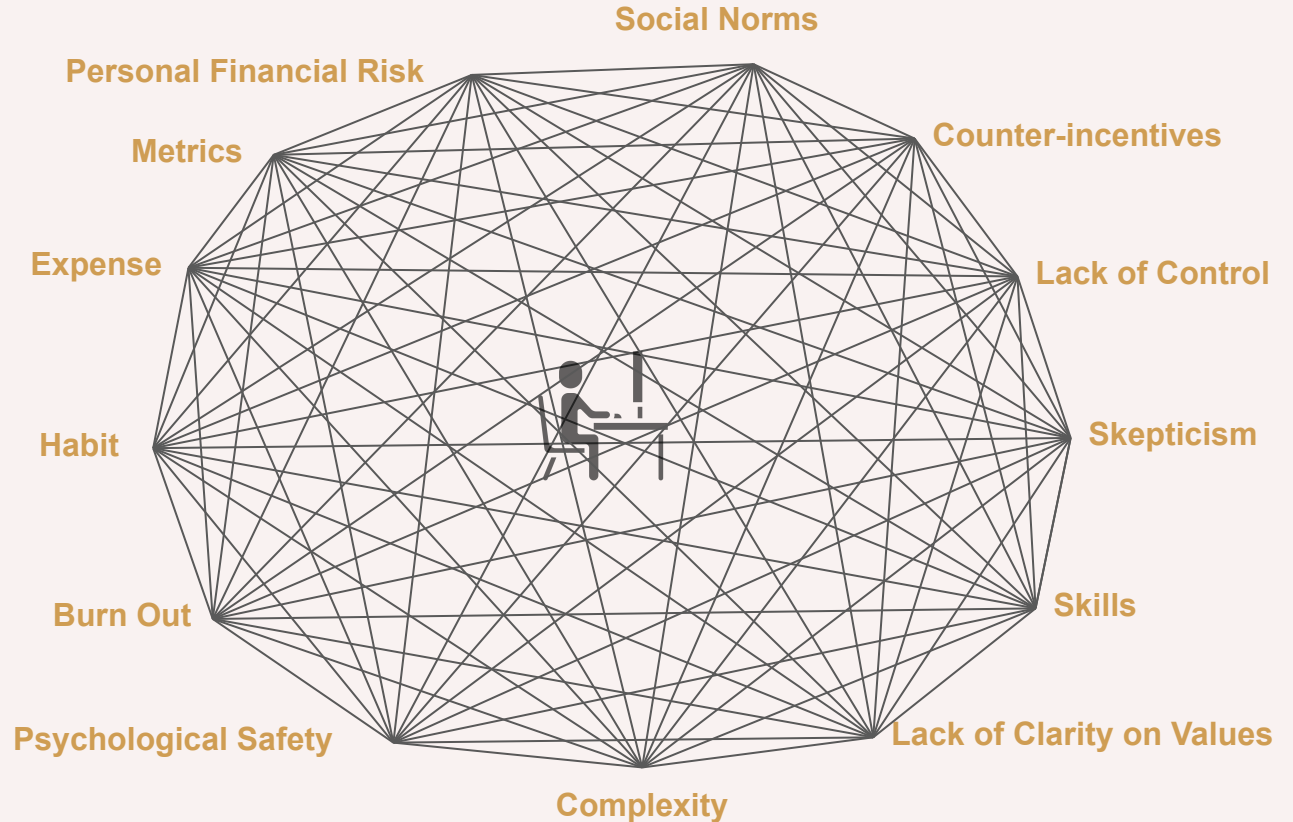
# Pain Points

Why is there a values-action gap?

It's impossible to pinpoint a single reason, and the overlap of risks (which could be perceived as overwhelming barriers) that emerging corporate leaders face in the workplace, increase the challenge of closing the gap.

Research includes reasons behind values-action gaps among broader populations and types of sustainable behavior, following the logic that these pain points are likely shared by emerging corporate leaders trying to enact sustainable influence at work.<sup>33, 34, 35, 36, 37, 38, 39</sup>

“Because people are multifaceted, there are inherent tensions and tradeoffs in the lives of even the most sustainability-minded among us.”<sup>39</sup>



empathize





# Socioeconomic Pressures

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Examining a broader systems view, the situational conditions of U.S. millennials' (the prominent age demographic of our target audience) existence shaped by the current economy also play an important role in understanding pressures they feel to keep a well-paying corporate job.

Regardless of the actual job risk around enacting sustainable influence at work, the perception of risk can be very real and can be a disincentive to closing their values-action gap.

“...the **median net worth** of Millennials aged 35-44 is **20% lower** than that of the Baby Boomers and Gen X at the same age.”<sup>40</sup>

“Millennials are seeing their health decline faster than the previous generation as they age,” in regards to both physical and mental health, which impacts their **healthcare costs**.<sup>41</sup>

“While data on the amount of **student loan debt per Millennial** graduate varies, the consensus median is somewhere around **\$25,000-\$30,000 per borrower**.”<sup>40</sup>

“**Half** of Gen Zs and millennials say they **live paycheck to paycheck**.”<sup>41</sup>

“**Economic uncertainty is causing them to postpone big life decisions** – many say it will become harder or impossible to buy a house, start a family, ask for a promotion, or start a new job if the economy doesn't improve.”<sup>41</sup>

**The high cost of living is the top societal concern** for millennials, ahead of climate change.<sup>42</sup>

empathize



# Empathy Maps<sup>43</sup>

## Emerging Corporate Leader

<p><b>Thinks</b></p> <ul style="list-style-type: none"> <li>It is hard to act on sustainability values at work due to compounding pain points and a complex macroscape of contextual factors</li> <li>Not sure where to start</li> <li>Business cannot continue to go on as usual</li> </ul>	<p><b>Feels</b></p> <ul style="list-style-type: none"> <li>Unease with their organization's negative externalities</li> <li>Unsupported by leadership</li> <li>Socioeconomic pressures</li> <li>Job risk around speaking up</li> <li>Eco-anxiety, overwhelmed, isolated, cognitive dissonance</li> <li>A desire to change behavior</li> </ul>
<p><b>Sees</b></p> <ul style="list-style-type: none"> <li>Alarming climate reports</li> <li>Opportunities for sustainable decisions getting passed up</li> <li>Peers with similar values-action gaps</li> <li>Organizational advancement predominantly favoring those high-potentials achieving/surpassing financial targets</li> <li>Beginnings of a social movement on the rise</li> </ul>	<p><b>Does</b></p> <ul style="list-style-type: none"> <li>Conforms to performance objectives and targets as set by senior leadership</li> <li>Practices sustainable behaviors at home, though does not advocate for sustainability initiatives in their functional departments.</li> </ul>

## Evolving Leader

<p><b>Thinks</b></p> <ul style="list-style-type: none"> <li>All human systems and the planetary biosphere are interconnected</li> <li>Thinks in terms of interacting with complex systems</li> <li>Big changes are possible</li> <li>It is possible to navigate workplace risks and opportunities to effect positive change</li> </ul>	<p><b>Feels</b></p> <ul style="list-style-type: none"> <li>Embodied connection to their personal values</li> <li>Deep connection to life and the elements on Earth</li> <li>Support from community</li> <li>Socioeconomic pressures</li> <li>Hopeful for the future</li> </ul>
<p><b>Sees</b></p> <ul style="list-style-type: none"> <li>A growing shift in company priorities</li> <li>Ways to support others</li> <li>Opportunities to collaborate across industries to increase impact</li> <li>Relationship between risks and alignment</li> </ul>	<p><b>Does</b></p> <ul style="list-style-type: none"> <li>Capable of verbally expressing their values</li> <li>Acts in alignment with values in all aspects of personal and professional life</li> <li>Shares inspiration and information with others</li> <li>Mentors new emerging leaders</li> <li>Guides followers towards a life-centered economy</li> </ul>

empathize





# Empathize → Define

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The **Empathize** stage dove into systems thinking and provided a situational analysis to address the complex macroscape of the contextual factors – including socioeconomic pressures – contributing to the incentives and disincentives for emerging corporate leaders to close their values action gap. Work in this stage also acknowledged the active agency of the participants and the dynamic situation of a building social movement towards a new tipping point in corporate America as organizations begin to realize the sustainability-driven changes required to to not only combat environmental and social tipping points, but also attract and retain talent in the coming years, among other factors, which are already impacting markets and business strategy.

The **Define** stage will build on the contextual learnings and keep them at the forefront of project development.

empathize



# DEFINE

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## Thesis Process

Use empathy insights to more accurately and acutely articulate the problem statement.  
Develop a unique design vision to address the challenge.

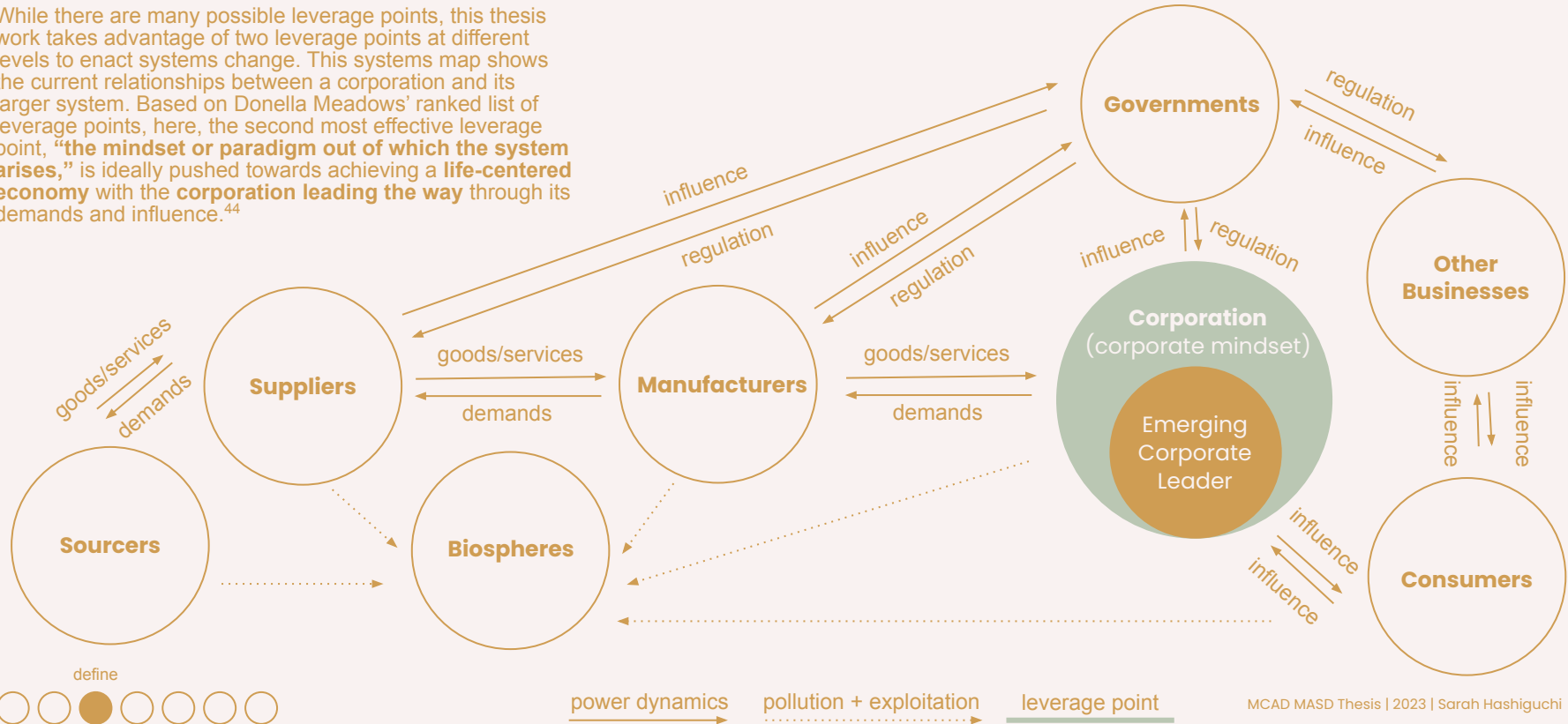
- First Leverage Point
- Second Leverage Point
- Knowledge, Skills, and Understanding
- Sustainability x Design x Mindfulness
- Sustainability x Design
- Design x Mindfulness
- Mindfulness x Sustainability
- Other Values Action Gaps
- Similar Existing Solutions
- Behavior Change Model Exploration
- COM-B
- Define → Ideate

define



# First Leverage Point

While there are many possible leverage points, this thesis work takes advantage of two leverage points at different levels to enact systems change. This systems map shows the current relationships between a corporation and its larger system. Based on Donella Meadows' ranked list of leverage points, here, the second most effective leverage point, **"the mindset or paradigm out of which the system arises,"** is ideally pushed towards achieving a **life-centered economy with the corporation leading the way** through its demands and influence.<sup>44</sup>



# Second Leverage Point

Honing in on emerging corporate leaders as the change-makers, this thesis uses **personal values as the second leverage point**, tapping into the most effective place to intervene in a system: “**the power to transcend paradigms.**”<sup>44</sup>

“Inner dimensions as leverage points for transformation put[s] emphasis on the role of the individual, while not ignoring the necessity for collective and systems change.”<sup>45</sup>

“An expansion of individual agency, awareness and broadening of perspectives, is likely to facilitate the emergence of a new paradigm or worldview, which is **considering wider circles of care and impact from individual human action to a broader consideration of human and non-human life.**”<sup>45</sup>

This systems map illustrates the extent of impact the emerging corporate leader has, capturing the interface of their personal values with their role in the corporate context inside the boundary line, while continuing to acknowledge external pressures.



system boundary

influence

pressure

leverage point

# Knowledge, Skills, Understanding

While pain points are ever moving and evolving, **knowledge, skills, and understanding** help people to step outside the problem and start to break down the complexity. All three levels (also referred to as head, hands, and heart) work together “**balancing cognitive, psychomotor and affective domains**... [sustainability education] programs and courses meeting these learning objectives exhibit an emergent property,” which has been termed **transformative sustainability learning (TSL)**.<sup>46</sup>

Since “...both, scholars and practitioners increasingly highlight that the techno-scientific (**outward**) focus of sustainability transformations and transitions needs to be complemented with psychological, cultural, artistic and spiritual dimensions of human life (**inward** focus) and its future possibilities... inner dimensions like consciousness, **values**, worldviews, beliefs, spirituality and **human–nature-connectedness** are seen as **inevitably important for sustainability transformation** at both the individual and societal plane.”<sup>47</sup>

“Sustainability is an emotionally charged theme of study and people often have difficulty in grappling with its complexity,” therefore it is particularly **necessary to address all three levels of learning**.<sup>48</sup> To achieve TSL, this thesis work teaches knowledge, skills, and understanding through the lens of **sustainability, design, and mindfulness** disciplines.

Teaching Pedagogy:

Knowledge

Skills

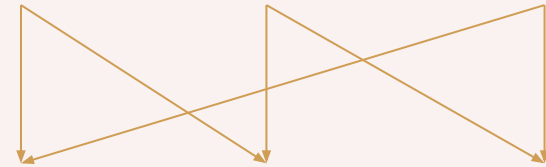
Understanding

Pillars of Thesis:

Sustainability

Design

Mindfulness



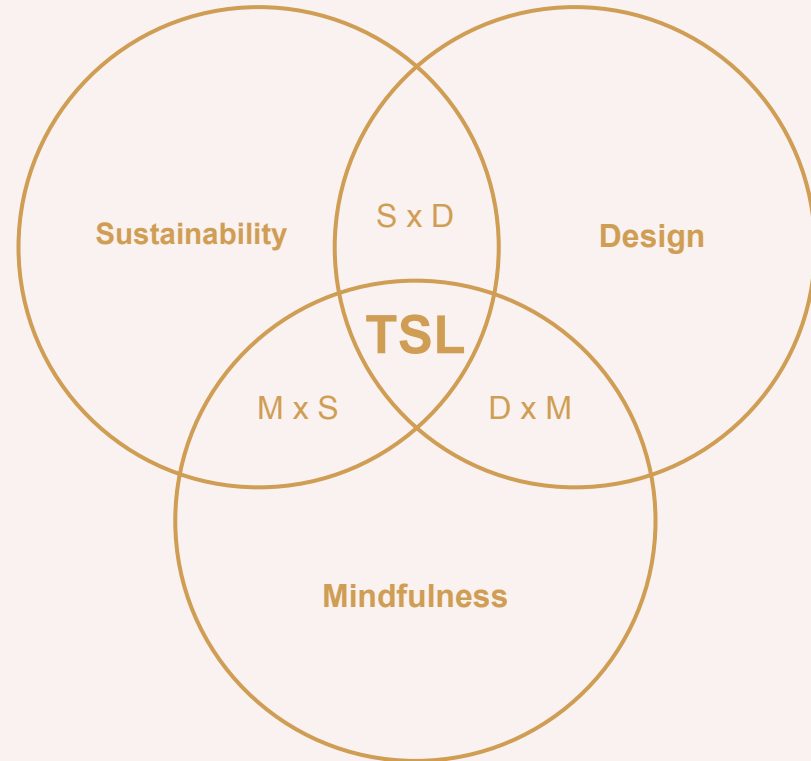
define



# Transformative Sustainability Learning

**Sustainability, design, and mindfulness** have coexisted in different combinations that have provided a multitude of benefits to the practitioners, including support for acting on sustainability values.

While combining two disciplines at a time provides some benefits, there continues to be a **lack of ultimate synergy without all three**. Only then, do the emergent properties arise that will enable transformative sustainability learning (**TSL**).<sup>46</sup>



define



# Sustainability x Design



Sustainability and design have become so intertwined in some areas of practice, that the combination has resulted in fields such as green design, ecodesign, emotionally durable design, design for sustainable behavior, Cradle to Cradle, biomimicry, and Design for Sustainability (DfS).<sup>49</sup>

## What can both disciplines achieve together?

- **Life-Cycle Thinking:** Consideration of the entire life cycle of a product or system, from raw material extraction to disposal, to identify opportunities for sustainability improvements.<sup>49</sup>
- **Circularity and Regeneration:** Frameworks and processes to support closed loop material flows, industrial ecology principles, and earth-positive strategies.<sup>49</sup>
- **Long-Term Viability:** Solutions that are economically viable and have a positive impact on the environment and society over the long term.<sup>49</sup>
- **Innovation:** Development of eco-friendly materials, energy-efficient technologies, creative problem-solving, and the potential for sustainable behavior change.<sup>49, 50</sup>
- **Community Engagement:** Work with communities to ensure their needs and values are considered in local initiatives, including creating safer, cleaner biospheres around factories.<sup>49</sup>

## What might still be missing?

- **Emotional Intelligence:** Mindfulness often enhances emotional intelligence, which is essential for understanding and effectively managing emotions in leadership roles. The absence of mindfulness may result in challenges in handling stress, conflicts, and employee well-being in the face of uncertainty, such as that which arises with the process innovative design.<sup>51</sup>
- **Decision-Making Clarity:** Mindfulness helps leaders make clearer, more informed decisions. The absence of mindfulness may lead to less mindful, reactive, or impulsive decision-making.<sup>51</sup>
- **Resilience:** Mindfulness practices increase resilience, enabling leaders to bounce back from setbacks and adapt to change. The absence of mindfulness may result in lower resilience and adaptability in the face of challenges.<sup>52, 53</sup>
- **Self-Awareness:** Mindfulness deepens self-awareness, which is essential for effective leadership. Without mindfulness, leaders may have limited awareness of their strengths, weaknesses, and their impact on others.<sup>51</sup>

define



# Design x Mindfulness



Design and mindfulness share a human-centered approach that can be thoughtful and creative. Since inner awareness is essential for designers, some research argues mindfulness should be made explicit in design education.<sup>54</sup>

## What can both disciplines achieve together?

- **Innovative Problem-Solving:** The fusion of mindfulness and design can empower corporate leaders with innovative problem-solving techniques to address complex challenges.— Designers have also noted when mindful design is applied to products, it can be related to behavior change.<sup>55</sup>
- **Human-Centered Leadership:** Mindfulness fosters empathy and self-awareness, allowing corporate leaders to adopt a more human-centered leadership approach, understanding and responding to the needs of both employees and customers.<sup>53</sup>
- **Ethical Decision-Making:** By integrating mindfulness, corporate leaders can make more sustainable and ethical decisions, considering the environmental and social implications of their design choices.<sup>56</sup>
- **Enhanced Team Collaboration:** Mindful leadership can improve team collaboration, communication, active listening, and co-design, creating a harmonious work culture that promotes productivity and well-being.<sup>54, 57</sup>

## What might still be missing?

- **Sustainability Alignment:** Without sustainability knowledge and frameworks, corporate leaders may struggle to align their business practices with broader sustainability goals and principles, impeding the development of sustainability strategies, clear targets, and progress reports.
- **Environmental Impact Mitigation:** Lack of sustainability knowledge may hinder leaders from effectively identifying and mitigating their organization's environmental impact, potentially resulting in missed opportunities for resource efficiency and environmental conservation.
- **Global Perspective:** Sustainability knowledge could provide a broader, global perspective on the interconnectedness of environmental, social, and economic issues, which can be critical in making informed decisions in an increasingly globalized world.
- **Resource Efficiency Optimization:** The absence of sustainability knowledge may prevent leaders from optimizing resource efficiency, potentially leading to wasted resources and missed cost-saving opportunities.

define





# Mindfulness x Sustainability



Mindfulness and sustainability offer insight into connection and alignment with nature, while there may be a lack of process, experimentation, and result without the factor of design.

## What can both disciplines achieve together?

- **Disruption of Unsustainable Habits:** The combination of mindfulness and sustainability has been shown to increase “subjective well-being, pro-social behaviours, and awareness of one’s intrinsic values,” which coupled with emotional awareness and self-regulation could disrupt unsustainable habits.<sup>58, 60</sup>
- **Stress Management:** Mindfulness practices enhance resilience and stress management, crucial for corporate leaders dealing with the challenges and uncertainties of sustainability initiatives.<sup>59, 60</sup>
- **Empathetic Leadership:** Mindfulness nurtures empathy, which is essential for understanding the needs of employees, stakeholders, and communities impacted by sustainability initiatives, promoting more inclusive and ethical leadership.<sup>53, 60</sup>
- **Environmental Stewardship:** Mindfulness promotes a deeper connection to the environment, encouraging corporate leaders to become better stewards of the planet and adopt environmentally responsible practices within their organizations.<sup>60</sup>

## What might still be missing?

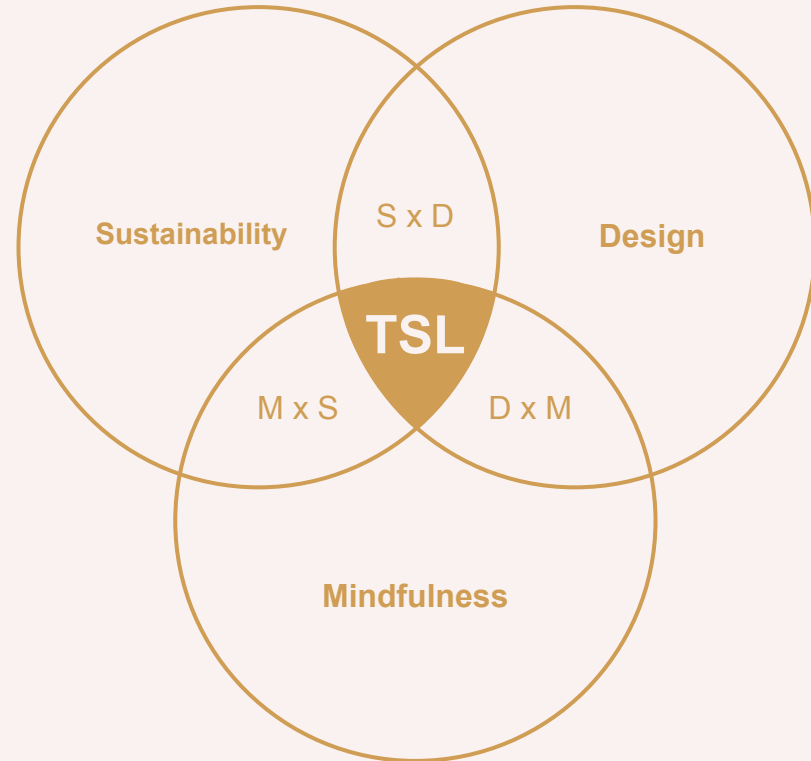
- **Creative Problem-Solving:** Design thinking techniques are essential for creative problem-solving, which can lead to innovative solutions for sustainability challenges. The absence of design may limit the ability to generate novel ideas and approaches.
- **Visual Communication:** Design can help visualize complex sustainability data, playing a significant role in visual communication. The lack of design may hinder leaders' ability to effectively communicate sustainability initiatives and progress to internal and external stakeholders.
- **Systemic Thinking:** Design often promotes a systemic perspective. Without design, leaders may struggle to see the interconnections between various sustainability elements, potentially leading to less effective strategies.
- **Prototyping and Testing:** Design involves prototyping and testing, allowing leaders to refine sustainability solutions. Without design, corporate leaders may miss opportunities to test and improve sustainable initiatives.

define



# Sustainability x Design x Mindfulness

While sustainability and design are necessary and frequently used tools in the pursuit of sustainable behavior change, the addition of mindfulness provides access to the creative leadership qualities and skills required for transformational evolution.



define



# Other Values Action Gaps

Where else might people be experiencing values-action gaps? What do these all have in common? These all happen to be examples of cognitive dissonance.



Valuing **health + fitness**, but failing to exercise regularly or maintain a healthy diet



Valuing **financial responsibility**, but overspending and failing to create a budget or plan for the future



Valuing **time management**, but consistently procrastinating, not prioritizing tasks, or wasting time scrolling through social media



Valuing **conflict resolution**, but using confrontational reactionary dialog, while not seeking or practicing forms of nonviolent communication



Valuing **work-life balance**, but voluntarily working overtime, neglecting personal time, or failing to set boundaries



Valuing **community involvement**, but not volunteering, participating in community events, or supporting local causes

define



# Similar Existing Solutions

How have other values-action gaps been addressed? Research on closing values-action gaps in other contexts point to specific keys for success:

Link goals +  
routines

☀️ “abstract personal values have to be transformed into **specific goals and linked to behavioral routines** before they can initiate goal-directed action”<sup>61</sup>

Be  
introspective

☀️ “the theory of planned behaviour should more clearly acknowledge the importance of **internalized norms and self-expectations** in the development of one's motivation to adopt a given behaviour”<sup>62</sup>

Use  
values-based  
indicators

☀️ “design and use of **values-based indicators**—statements that link generic or specific ‘values vocabulary’ to specific real-world referents such as behaviours or perceptions”<sup>63</sup>

define



☀️ insight reflected in the Project

# Similar Existing Solutions

How do existing options compare to the outcomes achieved by this training program? This chart shows topics definitely and possibly covered by other programs.

	Knowledge of Sustainability Frameworks	Value-Action Alignment	Interdisciplinary Skill Set	Deepened Connection	Sustainable Problem- Solving	Community for Accountability	Leadership in Corporate Sustainability	Effective Communication	Ethical Decision-Making
Natural Step Training <sup>64</sup>	✓	∅	∅	∅	✓	∅	X	?	✓
IDEO U Design Thinking <sup>65</sup>	∅	∅	?	∅	?	∅	∅	✓	∅
Global Leadership for Sustainable Development <sup>66</sup>	✓	✓	?	✓	✓	?	∅	?	✓
Institute for Mindful Leadership <sup>67</sup>	∅	?	?	✓	∅	✓	∅	∅	?
UN Free Resources <sup>68</sup>	∅	?	∅	∅	✓	∅	∅	∅	∅
All We Can Save – Climate Wayfinding <sup>69</sup>	✓	✓	∅	✓	∅	✓	∅	✓	✓
Inner Green Deal <sup>70</sup>	?	✓	?	✓	✓	∅	✓	?	∅

define



# Behavior Change Model Exploration

A common theme in values-action gap research, as well as a missing element of other existing trainings is the explicit use of a behavior change model. Multiple models were considered for this work, however, **only COM-B was chosen to use moving forward** due to its simplicity and relevance to behavior intervention in industry leaders.

## Self-Determination Theory

Self-Determination Theory (SDT) is a psychological framework developed by Deci and Ryan in the 1980s. SDT helps explain why people do what they do by emphasizing the importance of meeting innate psychological needs for **autonomy**, **competence**, and **relatedness**. It suggests that when these needs are satisfied, individuals are more likely to be intrinsically motivated and experience greater well-being. “Formally, SDT comprises **six mini-theories**, each of which was developed to explain a set of motivationally based phenomena that emerged from laboratory and field research.”<sup>71</sup>

## B-MAP / Fogg Behavior Model

The B-MAP (Behavior Model for Adaptive Persuasion) is a behavior change model developed in 2009 by Dr. B.J. Fogg, a renowned psychologist and expert in persuasive technology. When an individual has the **motivation** and **ability** to perform the behavior, and they receive an appropriate **prompt**, they are more likely to engage in the desired action. It is often applied in the design of **digital products, websites, or applications** to make them more persuasive and effective in encouraging specific behaviors.<sup>72, 73, 74</sup>

## COM-B

The COM-B Model was developed by Michie, Stralen, and West in 2011. “Designed by behavioral scientists for policy makers and **industry leaders**, these summaries of cutting edge decision-making insights are essential for applying research in the public and private spheres... This makes it possible for complex, theoretical insights about how people think and act to make their way into the practices of organizations across every industry and environment.”<sup>75</sup>

**“The COM-B model is particularly important when considering intervention methods, as interveners need to ensure the sustainability of learned behavior.”<sup>17</sup>**

define



# COM-B

This behavior change model is used as an overarching structure to create the training program as to ensure the success of achieving and maintaining the behavior change of closing the sustainability values-action gap.

“The COM-B model of behavior change proposes that to engage in a behaviour (B) at any given moment, a person must be physically and psychologically able (C) and have the opportunity (O) to exhibit the behavior, as well as the want or need to demonstrate the behaviour at that moment (M)”<sup>17</sup>

## Capability



Capability refers to whether someone has the **knowledge, skills and abilities** (including mental state) to engage in a behavior.<sup>17</sup>

Emerging corporate leaders are **missing the capabilities** to close their values-action gaps. Building these capabilities will be the main focus of the training program.

## Opportunity



Opportunity refers to **external factors that make execution of a behavior possible**, such as physical opportunity, opportunities provided by the environment, social opportunity, and the positive outcome of a professional cost-benefit analysis.<sup>17</sup>

Emerging corporate leaders **need small opportunities to practice in a safe environment** before they step into larger leadership roles where they will have an abundance of opportunities to act on their values.

## Motivation



Motivation refers to the **internal processes that influence decision making and behavior**, including reflective motivation and automatic motivation.<sup>17</sup>

Emerging corporate leaders who are practicing sustainability behaviors at home and want to attend this training will **have the motivation required**, driven by their **personal values** to achieve behavior change.

## Behavior Change

An individual's behavior will change if **all the previous factors are successfully met**.<sup>17</sup>

Participants of the training program will work to build their capabilities, which they will practice during curated opportunities, in preparation for real world opportunities, meanwhile continuing to strengthen their motivation.

define



# Define → Ideate

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The **Define** stage used systems thinking as a lens for addressing two leverage points for change: a paradigm shift and personal values. Transformative sustainability learning showed the necessity of multiple levels of learning known as head, hands, and heart, which will be addressed in this thesis through sustainability, design, and mindfulness. The behavior change model COM-B will be used to better support the success of the training program.

The **Ideate** stage will generate ideas around how to apply the chosen behavior change model, and integrate it with sustainability, design, and mindfulness content.

define





# IDEATE

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## Thesis Process

Brainstorm what knowledge, exercises, and practices could benefit emerging leaders in their journey of behavior change. How might these activities be cohesively programmed together into one offering?

- Brainstorm of Outcomes
- Key Learnings From Each Discipline
- Possible Activities
- Framework Exploration
- Journey of a Participant
- Accountability
- [summary slide]



# Brainstorm of Outcomes

---

This brainstorm of possible outcomes for participants who have completed the training program helped guide the process of how to achieve these goals.

- Understand and articulate personal values, especially around sustainability
- Identify ideal scenario of values-led personal and professional life
- Name barriers and their relative significance currently causing the values-action gap at work
- Cultivate tools to support mitigating and, in some cases, overcoming those barriers that are feasible and scalable
- Unlock a deeper understanding of one's place within interconnected systems in the biosphere and in socioeconomic contexts.
- Develop a personalized action plan to bring teachings beyond the retreat and begin implementing them in day-to-day life
- Establish a community of support and accountability to rely on throughout the journey of sustainable behavior change
- Feel inspired, empowered, and capable to take on positive climate action at work

# Key Learnings From Each Discipline

Brainstorm lists of important takeaways for participants from each area of focus:

## SUSTAINABILITY

- Background on climate change
- Intersectional environmentalism
- Successful business case studies (e.g. Interface)
- Sustainable vs. circular vs. regenerative
- Planetary boundaries
- Triple bottom line

## DESIGN

- Brainstorming
- Problem solving
- Creativity
- Collaboration
- Imagination
- Innovation
- Process (non-linear)
- Approaching situations w/ empathy + curiosity
- Storytelling + communication

## MINDFULNESS

- History/background
- 4 foundations of mindfulness
- Psychology of 52 Mental factors
- Opposing mental factors
- 4 noble truths
- Active physical practice
- Integrate into routines
- Intention + awareness → non-judgemental, curious, kind

ideate



# Possible Activities

Brainstorm lists of what could be helpful in moving declarative learning to procedural learning:

## SUSTAINABILITY

- Nature walk
- Foraging
- Plant a seed
- Reuse/repurpose a material for a new project
- Make a terrarium
- Make a mini indoor greenhouse
- Recycling activity
- Build a composting station
- Cook with local ingredients
- Label education/game
- Determine personal carbon footprint
- Learn about modern day slavery in supply chains

## DESIGN

- Systems map
- Define your creative identity
- Magic circle
- Brainstorming tools
- Empathy mapping
- Persona development
- Customer journey mapping
- Mind mapping
- Paper prototyping
- Role play + simulation
- Collaborative sketching
- Storyboarding
- Rose, thorn bud
- Post-it voting

## MINDFULNESS

- Body scan
- Box breathing
- Find 5 examples of \_\_\_ in the room (e.g. something red)
- Set an intention → continue to check in on it
- Mindful eating
- Nature walk
- Rubbing fingertip together
- Guided meditation
- Sound bath
- Labyrinth walk
- Gratitude reflection
- Tapping

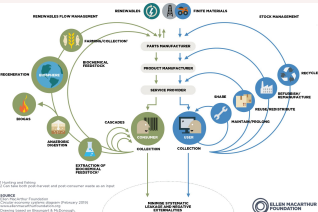
ideate



# Framework Exploration

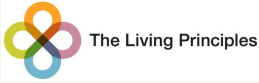
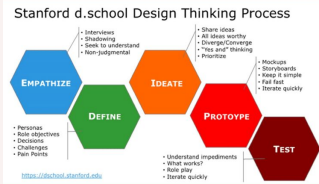
What frameworks might be applicable to teaching sustainability and design to emerging corporate leaders? Frameworks used in the training program **need to be simple to learn and apply** for people with limited sustainability backgrounds coming from diverse industries. They must also **work towards a life-centered economy**, rather than focus on limitations and simply reducing impact.

\*note that the Y-axis is largely practitioner dependant



Complicated to Learn + Apply

Life-centered (do good)



Simple to Learn + Apply

Reduce Impact (do less bad)

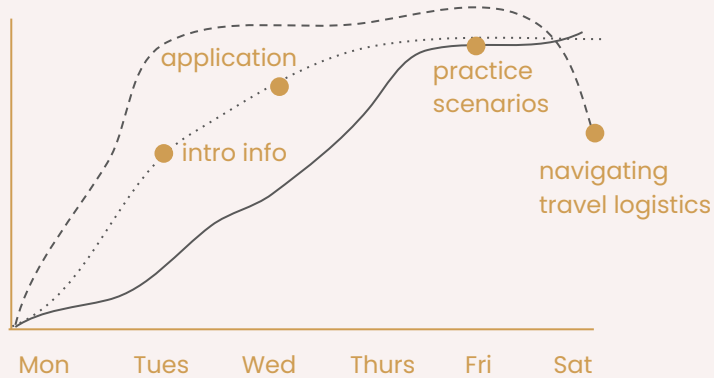


# Journey of a Participant

Tracking aspects of a participant's experience both during the retreat as well as over the course of the whole program helps identify the impact of different moments are how to keep participants engaged in the work.

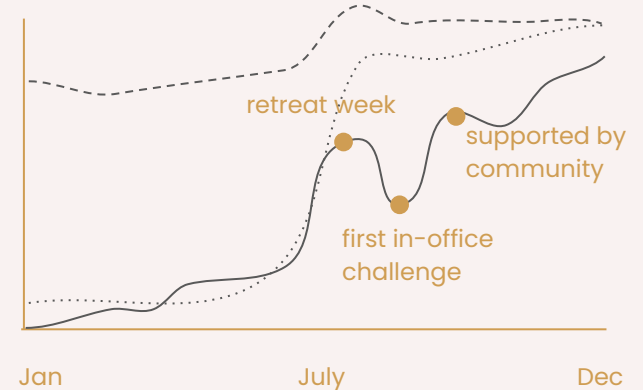
## Retreat Week

- Mindfulness
- ..... Design + Sustainability
- Behavior Change



## Program Year

- Motivation
- ..... Capabilities
- Behavior Change



ideate



# Accountability

☀ Examining the predicted pitfalls in the Journey of a Participant led to a brainstorm around various means for accountability. This initial brainstorm was followed up with research to help confirm which strategies may be helpful to incorporate into the training program.



“...if you find it too hard going solo, ask a peer or coach to help.”<sup>75</sup>

“...recognize yourself immediately after you do your new behavior... This recognition, a la celebration, serves as self-compassion. And it gives you—and your brain—a positive boost, which encourages you to keep doing the behavior.”<sup>75</sup>

“need for feedback tools to drive accountability.”<sup>77</sup>

“Due to the effort and discipline that is often needed to bring about inner development and change, we encourage you to form groups with colleagues or friends with whom you embark on the journey together. Such a learning context or community is very valuable. Those communities may help to make sense of the experiences that arise. Especially in the case of unexpected events, this can be of great benefit to those who are part of the journey.”<sup>23</sup>

“A behavior change goal-setting process allows for mapping out causal pathways and intended outcomes, which can be used to measure the success of social accountability activities.”<sup>76</sup>

“If it were not for weekly piano lessons, it is unlikely that students would practice much until just before their recital. The anticipation of the weekly social interactions between the student and the teacher is critically important in holding the student accountable to practice (even if there is no formal accounting of exactly when the student practiced).”<sup>78</sup>

# Ideate → Prototype

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The **Ideate** stage explored goals of a participant's experience, how to reach those goals (through frameworks and activities focused around key learnings from each discipline), and how to support participants through foreseen challenges. This stage identified Design Thinking, Living Principles, Inner Development Goals, and The Natural Step as the frameworks that will be used in the training program.<sup>15, 20, 21, 18</sup>

The **Prototype** stage will put together the frameworks, activities, and strategies for accountability in various ways to compare how best to integrate these learnings into the development of a training program schedule and agenda.





# PROTOTYPE

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## Thesis Process

Explore multiple concepts with the intent to test in parallel. Gain a deeper understanding of emerging corporate leaders through building out possible solutions.

- Personal Experience
- Framework + Principles Integration
- The Natural Step
- Living Principles
- Inner Development Goals
- Schedule Development
- Possible Retreat Schedule
- Possible Timeline Overview

prototype



# Personal Experience

☀ = insight reflected in the Project Outcome

Some of the prototypes explored for this thesis work were existing events that served as learning opportunities for how elements of this training program played out in the real world. These experiences provided insight into what worked well and what could be left behind.

## Yoga Teacher Training<sup>79</sup>

A 200 hour training course spread over three months that covered topics including history, philosophy, anatomy, postures, adjustments, language, and creating sequences.

### Key Takeaways:

- ☀ It was really helpful to be provided with a journal and given ample opportunities to take notes and reflect along the way
- ☀ Each participant was paired with a buddy to get extra comfortable with and practice outside of scheduled trainings
- Frequent feedback was presented as “grows” + “glows” and was essential for balancing encouragement with guidance for improvement
- Honest self evaluation was also important
- In addition to actively practicing teaching, it was helpful to sit and observe skilled teachers work
- ☀ Even as a teacher, breath is a helpful tool for grounding
- Yogis come in at all different levels and it’s up to the teacher to give instruction and use language/metaphors to make everyone one feel included and empowered

## Spirit Rock Meditation Retreat<sup>80</sup>

A six day on-site retreat with a focus on Indigenous wisdom and healing, hosted at a designated meditation center.

### Key Takeaways:

- ☀ Length was perfect to have enough time to get deep into practice, uninterrupted by logistics
- ☀ The natural landscape helped facilitate a deep experience
- It’s powerful being with a group of people who have collectively chosen to come together united by a deeper purpose/motivation/goal/belief
- ☀ Open Q&A opportunities are essential to aligning teaching intentions with outcomes
- Being in deep meditation brings a profound rooted sense of connection and awareness
- Reintegration training could be a whole day
- Beginning with land acknowledgement felt powerful
- Nice to have different kinds of mindfulness meditation formats → sitting (guided + unguided), walking, working
- Meditation anchors → helpful for beginners
- Challenging to be present while also managing a tight schedule (thinking about the future)

## Inner Development Goals Summit<sup>81</sup>

A two day event that brought together “a global community that is co-creating the IDG framework and exploring how to leverage the power of inner development for the challenges we face as humanity,” hosted at multiple locations across Stockholm Sweden, as well as online.<sup>81</sup>

### Key Takeaways:

- Excellent email communication - felt inclusive and built excitement + trust around what to expect
- Well-executed accessible options for people who could not attend in person
- Provided designated places for collaboration and dialog around different topics
- Connecting with other participants was frequently encouraged and made simple
- Offered customization to the experience by providing “Tracks” that participants could choose between, which followed a particular topic throughout day 2
- Beautiful branding and program materials
- Balanced offering of passive and active learning
- Very clear on the *why* of the work/summit

prototype



# Framework + Principles Integration

As demonstrated in Framework Exploration, the tools selected are **simple to learn and apply** and can also **support individual and social progress toward a life-centered economy**. The Natural Step will be used as the basic outline for a process that participants will engage in during the retreat week because it begins with imagining an ideal future, which can be inspiring and energizing, while ending with a personal action plan to help enable behavior change back in a corporate environment.<sup>18</sup>

The metrics used during backcasting for this training program are different from the four “Sustainability Principles” traditionally used in the Natural Step.<sup>18</sup>

Prototypes were created to explore how best to integrate frameworks + principles to maximize effectiveness of participant absorption and application of the material.

## Basic Outline for Process<sup>18</sup>



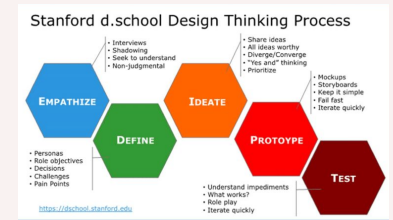
## Metrics for Outer Change<sup>19, 20</sup>



## Metrics for Inner Change<sup>21</sup>



## Tool for Creative Solutions<sup>15</sup>



# The Natural Step

Developed by Swedish oncologist Sr. Karl-Henrik Robért and physicist Dr. John Holmberg in the early 1990s, The Natural Step uses a systems view to identify how to help organizations become more sustainable. The original framework uses four “Sustainability Principles” as the metrics to analyze the gap between an ideal future and the current baseline, however, these are not very approachable nor applicable for the target audience of this thesis work, so they will be substituted out while the main ABCD process remains the same.<sup>18</sup>

## Sustainability Principles (Original Metrics)



1. concentrations of substances from the earth's crust (such as fossil CO<sub>2</sub>, heavy metals and minerals)



2. concentrations of substances produced by society (such as antibiotics and endocrine disruptors)

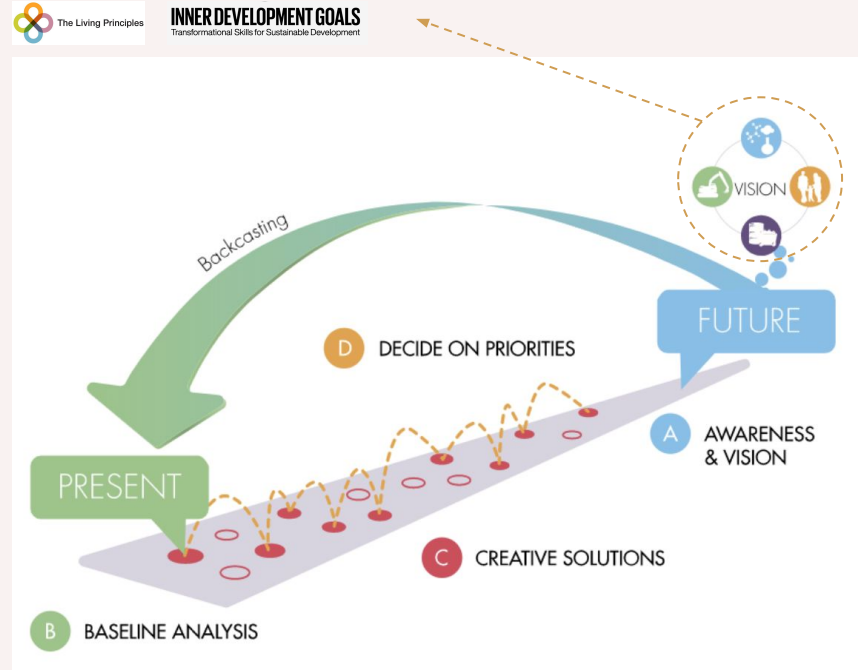


3. degradation by physical means (such as deforestation and draining of groundwater tables)



4. And in that society there are no structural obstacles to people's health, influence, competence, impartiality and meaning

Sustainability Principles will be substituted for alternative metrics:



prototype

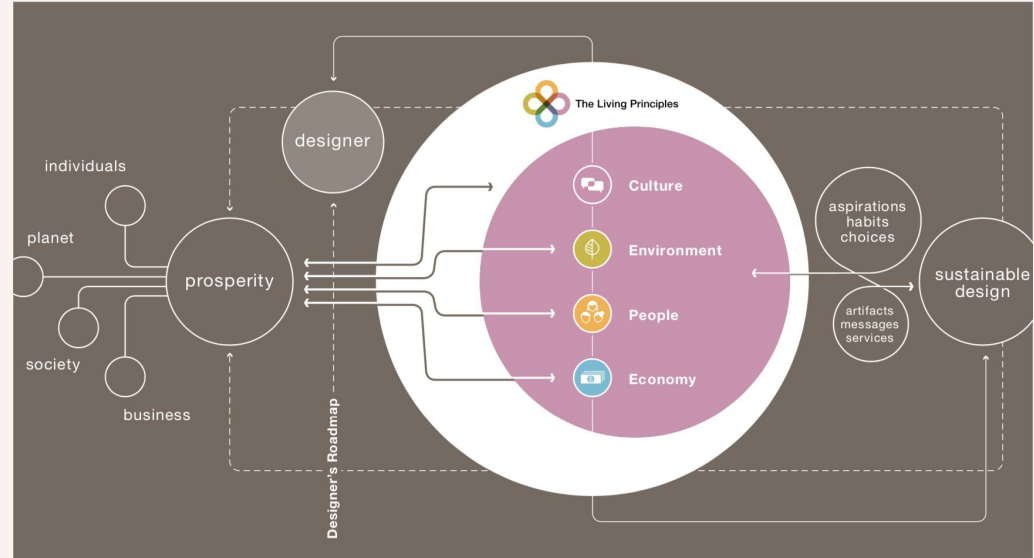


# Living Principles

The Living Principles for Design were developed in 2009 with the goal “to distill the collective wisdom found in decades of sustainability theories and make it accessible to a broad audience of design practitioners and their clients.”<sup>19</sup>

“The Living Principles for Design framework is a catalyst for driving positive cultural change. It distills the four streams of sustainability—environment, people, economy, and culture—into a roadmap that is understandable, integrated, and most importantly, actionable. Designers, business leaders, and educators can use The Living Principles to guide every decision, every day.”<sup>19</sup>

The Living Principles framework is also accompanied by a scorecard, which will be used by training program participants during the backcasting step of the ABCD process adapted from The Natural Step. The scorecard provides a straightforward way for participants to rank the subcategories within each Stream of Integrated Sustainability for the ideal state and the present state of their corporation.<sup>19</sup>



## Four Streams of Integrated Sustainability<sup>19</sup>



### Environment

Actions and issues that affect natural systems, including climate change, preservation, carbon footprint and restoration of natural resources.



### People

Actions and issues that affect all aspects of society, including poverty, violence, injustice, education, healthcare, safe housing, labor and human rights.



### Economy

Actions and issues that affect how people and organizations meet their basic needs, evolve and define economic success and growth.



### Culture

Actions and issues that affect how communities manifest identity, preserve and cultivate traditions, and develop belief systems and commonly accepted values.

prototype



# Inner Development Goals

“The Inner Development Goals (IDGs) were officially founded in 2020 by Ekskåret Foundation, The New Division and 29k Foundation together with a group of researchers, experts and practitioners in leadership development and sustainability.”<sup>21</sup> While this initiative is still in development with Phase 3 starting in 2023, it has already produced a toolkit, training experience, and two global summits.

“The IDG framework of skills and qualities relate to what is needed in order to successfully work with complex societal issues, in particular those identified in UN's Agenda 2030 and the 17 Sustainable Development Goals”<sup>22</sup>

“The argument is that we talk far more about what ought to be done to resolve the problems out in the world, than we talk about how to build skillfulness among the actors who are in a position to make the visions happen.”<sup>22</sup>

There are 23 skills within the five dimensions which will be used by training program participants during the backcasting step of the ABCD process adapted from The Natural Step.<sup>22</sup> Participants will rank their ideal and current competencies of each skill on a scale of 1-5.

The reflection questions and IDG Toolkit developed in Phase 2, could also be used for additional activities.<sup>23</sup>



prototype

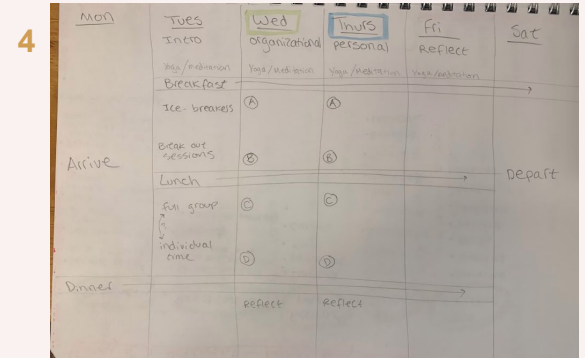
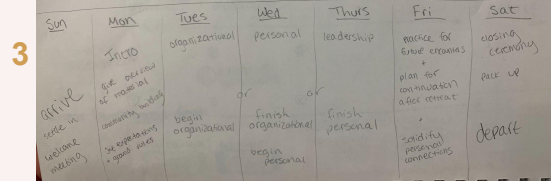
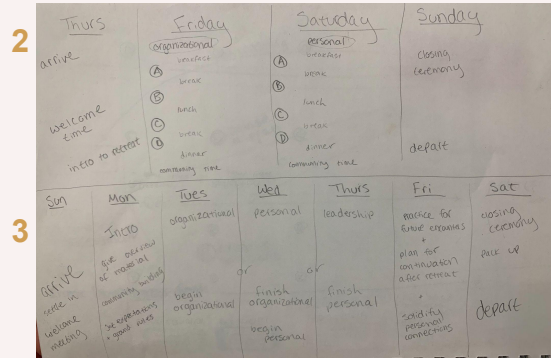
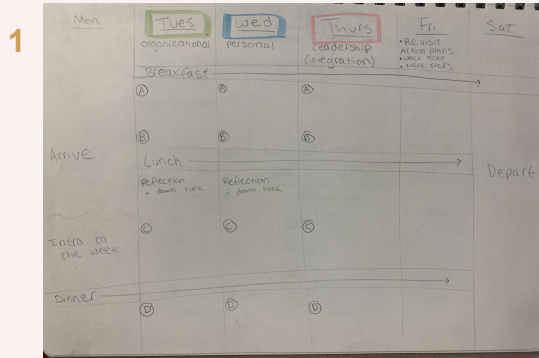




# Schedule Development

Responding to the necessity of additional time, the one day workshop evolved into an immersive onsite retreat.

## Possible Retreat Formats



- Going through the Natural Step inspired process three times might be too many
- Possibly jumping in too fast on the first day

- Too short
- Too rushed
- Lacking smooth transitions

- Could be shorter and still cover desired material
- This length would add cost

- Flexibility around arrival and departure
- Allows four full days of content
- Ease in and out of peak work days
- Absorb material + develop community





# Possible Retreat Schedule

What might the potential schedules for the full days (excluding travel days) of the in-person retreat look like, taking into account different types of learning, and balancing individual/group work?



prototype



# Possible Timeline Overview

To enable behavior change and build a solid community, participants will need to be supported before and after the retreat.

	<u>Stage</u>	<u>Activity</u>	<u>Objective</u>
Jan	Registration	Attract and register participants	
Feb			
Mar			
April	Preparation	Assign reading materials	Introduce foundational concepts
May		Virtual welcome meeting	Share personal intros + goals
June		Virtual reading discussion	Discuss initial reading materials
July	Retreat	In-person retreat	Learn and practice in a safe space
Aug	Continuation	Monthly virtual meeting	Problem solve real world challenges together + continue to build a solid community + stay accountable
Sep		Monthly virtual meeting	
Oct		Monthly virtual meeting	
Nov		Monthly virtual meeting	
Dec	Reflection	Weekend retreat	Share progress report + revise personal action plans if necessary

prototype



# Prototype → Test

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The **Prototype** stage collected key learnings from personal experience, described the frameworks and principles chosen for the training program, and concluded that the project outcome will include an in-person retreat supported by a nine month curriculum.

The **Test** stage for this thesis describes potential next steps for testing, the completion of which are outside the scope of this thesis.

prototype



# TEST

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## Thesis Process

For the purpose of this thesis, the Test phase of the Design Thinking process is theoretical. Given more time and resources, the test would provide an additional chance to learn about emerging corporate leaders through observation and engagement, as well as give insights to refine prototypes and point of view.

- Theoretical Tests
- Analyzing Results





# Theoretical Tests

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One way to test the theory of the training program before launching into a full scale event, would be to go through an empathy exercise with a diverse collection of personas based in extensive research to imagine what each personal experience and set of action plans may look like after completing both rounds of the ABCD process.

Ideally, a diverse collection of real volunteers could also participate in a practice run through of both rounds of the ABCD process.

This exercise could help identify any issues in the organization and flow of the programming, as well as illuminate any sensitive considerations around equity in the workplace tied to people's identities that should be addressed in the training program.



# Analyzing Results

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If a real world test were to take place, the success of the experience could be measured using a survey with questions built around progress and achievement of the intended final outcomes.

The survey method would be modeled after existing programs such as the greater Good Science Center's measurements of impact, PERMA questionnaires, and the survey conducted by The Global Leadership for Sustainable Development Programme as all three sources are measuring related wellbeing and impacts on their participants.<sup>82, 83, 84, 85</sup>



# Project Execution Insights

- Interested in using the Natural Step, but wanted something more approachable for beginners and “Sustainability Principles” phrased in a positive way<sup>18</sup>
- Challenging to pinpoint one cause of the values-action gap because issues are so intertwined and compounding
- Other similar existing problems are all examples of cognitive dissonance
- Program Length → a one day workshop could not possibly contain all of the information necessary or allow participants the time necessary to absorb and practice the information
- Adult Learning → people are generally out of practice learning at a rapid pace – it’s important to schedule in plenty of breaks and time for processing + reflection<sup>86</sup>

insights



# Project Outcome

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final  
solution

key  
insights

viability

potential  
impact

conclusion



**“The best leaders, the ones people will want to follow into this new territory, are first and foremost good human beings. They are at ease with themselves, have integrity, and what they say and what they do are in sync.”** <sup>87</sup>

– Paul Polman + Andrew Winston

authors of Net Positive

# “Designing Mindful Leadership for a Life-Centered Economy”

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The final project outcome is the design of a **year long training program** called “**Designing Mindful Leadership for a Life-Centered Economy**,” built around a **six-day on-site retreat**. This learning experience is aimed at **self-selecting emerging corporate leaders who are motivated to align their sustainability values with their actions** in the corporate sector despite pain points and a complex macroscope of contextual factors. These individuals are motivated to seek this alignment with the intention to facilitate a shift in corporate action towards achieving a **life-centered economy**.

In order to facilitate closing participants’ sustainability values-action gap, this thesis work focused on **behavior design**, specifically through the lens of the **COM-B model**, to impact both internal and external transformation work. This process is addressed through instilling participants with **knowledge, skills, and understanding** that show up in the training as interdisciplinary work in **sustainability, design, and mindfulness**.

While on retreat, participants will learn about **The Natural Step** (and a modified version), the **Inner Development Goals**, the **Living Principles**, and **Design Thinking**. Participants not only work towards a sense of **deep connection** to all life and profound personal growth, but they also immerse themselves in a community that will continue to support them as they are kept accountable for following their **action plans** beyond the end of the training program.

# Training Program Learning Outcomes

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**Knowledge of Sustainability Frameworks:** Participants will acquire a comprehensive understanding of sustainability frameworks, including The Natural Step (and its modified version), The Living Principles, and The Inner Development Goals, enabling them to critically assess and apply these frameworks in a corporate context.

**Alignment of Personal Values and Actions:** Participants will learn strategies to bridge the sustainability values-action gap, developing the ability to align their personal values with their professional actions, ultimately contributing to a life-centered economy.

**Interdisciplinary Skill Set:** Participants will engage in interdisciplinary learning, combining sustainability, design thinking, and mindfulness, equipping them with a holistic skill set to address complex sustainability challenges in the corporate world.

**Deepened Connection:** During the retreat, participants will cultivate a profound connection to all forms of life and better understand their place within nature and other complex systems.

**Sustainable Problem-Solving:** Through Design Thinking exercises, participants will enhance their ability to identify and solve sustainability-related challenges creatively and collaboratively.

**Community and Accountability:** Participants will immerse themselves in a supportive community that fosters ongoing accountability, and be able to hold space for co-creation and reflection.

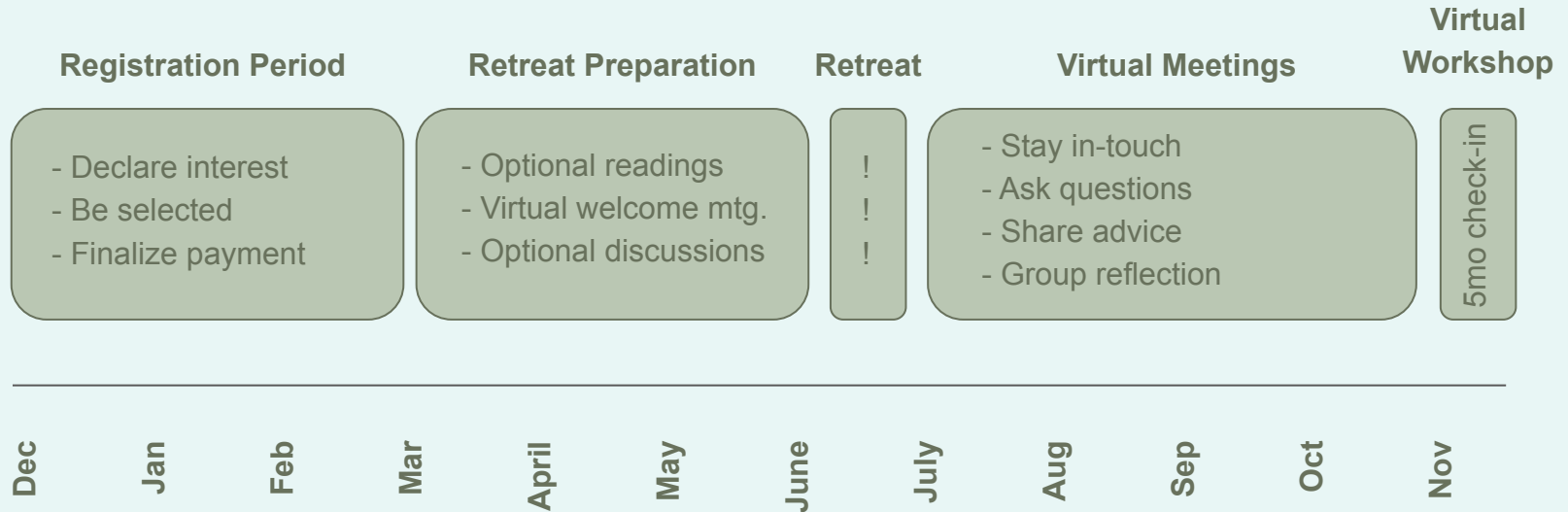
**Leadership in Corporate Sustainability:** Graduates of the program will be prepared to act on their sustainability values when they assume leadership roles, driving positive change in their organizations and contributing to the broader goal of a life-centered economy.

**Effective Communication:** Participants will develop strong communication skills to convey sustainability principles and goals effectively within their corporate settings, fostering engagement and buy-in from colleagues and stakeholders.

**Ethical Decision-Making:** Through exploration of sustainability principles like the Living Principles, participants will develop the capacity to make ethically sound decisions that prioritize the well-being of people and the planet in corporate contexts.

# Training Program Timeline

The final timeline spans an entire year to give participants an adequate amount of time to plan for travel arrangements for the retreat, build community together, and practice new skills to successfully enact behavior change. After further consideration, the virtual workshop at the five month check-in will be held at the beginning of November, before the busy holiday season begins. Readings before the retreat will be optional.



# ABCD Process

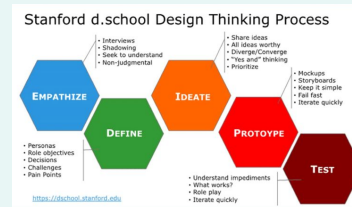
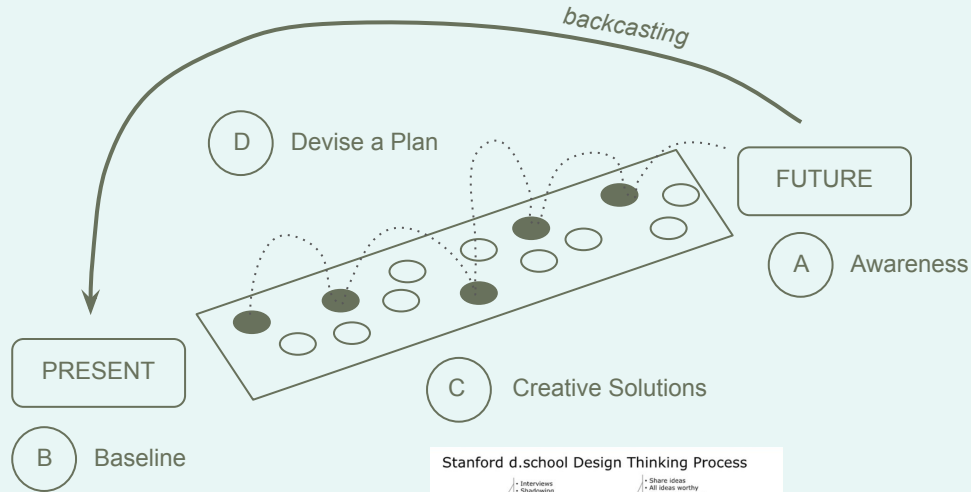
The Natural Step **ABCD** process will be used as the **basic outline** for a process that participants will engage in during the **retreat week**.<sup>18</sup>

**Round 1**, participants will focus on their **external** world, examining their organizations and creating a **professional action plan**.

**Round 2**, participants will focus on their **internal** world, exploring their inner development and creating a **personal action plan**.

At the end of the week, participants will combine external and internal learnings to form a **leadership action plan**.

The metrics used during backcasting are different from the four “Sustainability Principles” traditionally used in the Natural Step. **Each round has its own set of metrics**.<sup>18</sup>

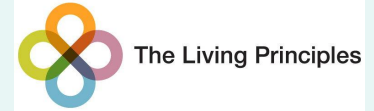


The Creative Solutions step introduces **Design Thinking** as a tool to bridge the gap between current reality and their vision for the ideal future.<sup>15</sup>

final solution



## Round 1



Participants will use **Living Principles** as the metrics to evaluate their **external** world.<sup>19, 20</sup>

## Round 2



**INNER DEVELOPMENT GOALS**  
Transformational Skills for Sustainable Development

Participants will use **Inner Development Goals** as the metrics to evaluate their **internal** world.<sup>21, 22, 23</sup>

# Retreat Schedule

Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	
<i>Welcome</i>	<i>Introduction to Frameworks</i>	<i>ABCD Process – Round 1</i>	<i>ABCD Process – Round 2</i>	<i>Practice + Reflection</i>	<i>Farewell</i>	
Arrive   Move-in logistics   Community building   dinner   Opening ceremony	Optional morning activities ■	Optional morning activities ■	Optional morning activities ■	Optional morning activities ■	Move-out logistics   Closing ceremony   Depart	
	breakfast	breakfast	breakfast	breakfast		breakfast
	Tap into motivation ⬡ ■	(A) Awareness ⬡ ■	(A) Awareness ⬡ ■	Create and share leadership action plans		
	break	break	break	break		
	Set retreat goals & articulate values ⬡ ▲ ■	(B) Baseline ⬡ ■	(B) Baseline ⬡ ■	Role play scenarios ⬡ ▲ ■		
	lunch	lunch	lunch	lunch		
	Review Design Thinking ▲	(C) Creative Solutions ⬡ ▲ ■	(C) Creative Solutions ⬡ ▲ ■	Revise + reflect ⬡ ▲ ■		
	break	break	break	break		
	Review The Natural Step ⬡	(D) Devise a Plan ⬡ ▲ ■	(D) Devise a Plan ⬡ ▲ ■	Future goals + accountability ⬡ ▲ ■		
	dinner	dinner	dinner	dinner		
Mindfulness activities ■	Mindfulness activities ■	Mindfulness activities ■	Mindfulness activities ■			

final solution






⬡ Sustainability ▲ Design ■ Mindfulness





# Tuesday

The following schedules break down the specifics of the non-travel days at the heart of the retreat.

On Tuesday, participants are introduced to topics that will be applied in the following days.

## Key

-  Sustainability
-  Design
-  Mindfulness

-  Passive Solo Learning
-  Passive Group Learning
-  Active Solo Learning
-  Active Group Learning

## Introduction to Frameworks

Optional morning activities 	Yoga class 	or	Meditation 	or	Journal 
<b>breakfast</b>					
Tap into motivation  	Warm up + instructions  	→	Vision board 	→	Vision board collaboration 
<b>break</b>					
Set retreat goals & articulate values   	Instructions 	→	Set goals for the week 	→	Articulate values 
<b>lunch</b>					
Review Design Thinking 	Presentation 	→	Practice round in small groups 	→	Share  
<b>break</b>					
Review The Natural Step 	Presentation 	→	Review modifications 	→	Take questions  
<b>dinner</b>					
Mindfulness activities 	Option A 	or	Option B 		

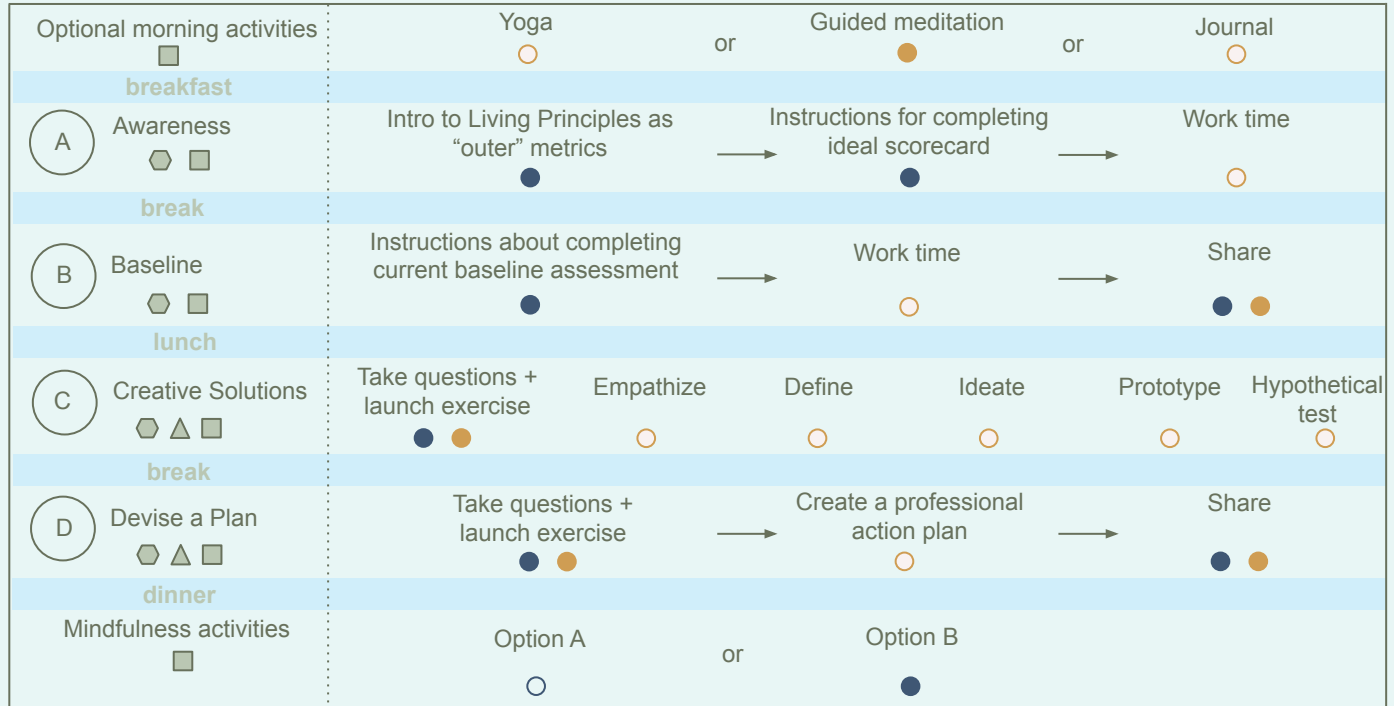
final solution



# Wednesday

On Wednesday, participants begin examining their **outer** conditions and realities by moving through the modified ABCD process from The Natural Step, resulting in a **professional action plan**.

ABCD Process – Round 1: External Focus



**Key**

- Sustainability
- ▲ Design
- Mindfulness

- Passive Solo Learning
- Passive Group Learning
- Active Solo Learning
- Active Group Learning

final solution












# Thursday

On Thursday, participants begin examining their inner state of being by moving through the modified ABCD process from The Natural Step for the second time, resulting in a **personal action plan**.

## Key

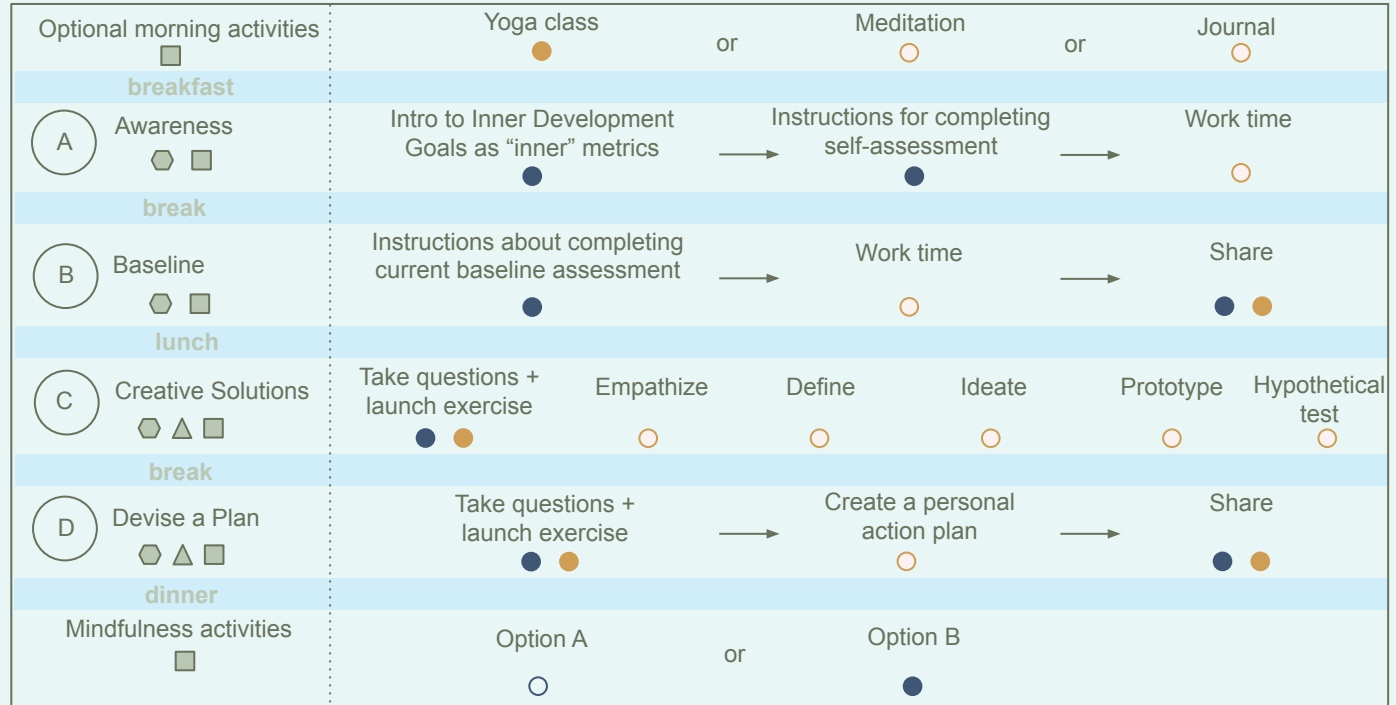
-  Sustainability
-  Design
-  Mindfulness

-  Passive Solo Learning
-  Passive Group Learning
-  Active Solo Learning
-  Active Group Learning

final solution






## ABCD Process – Round 2: Internal Focus







# Friday

On Friday, participants combine what they have learned about their outer and inner worlds into a **leadership action plan**. They also begin to practice their new capabilities in safe group spaces, reflect, and prepare for re-entry post-retreat.

## Key

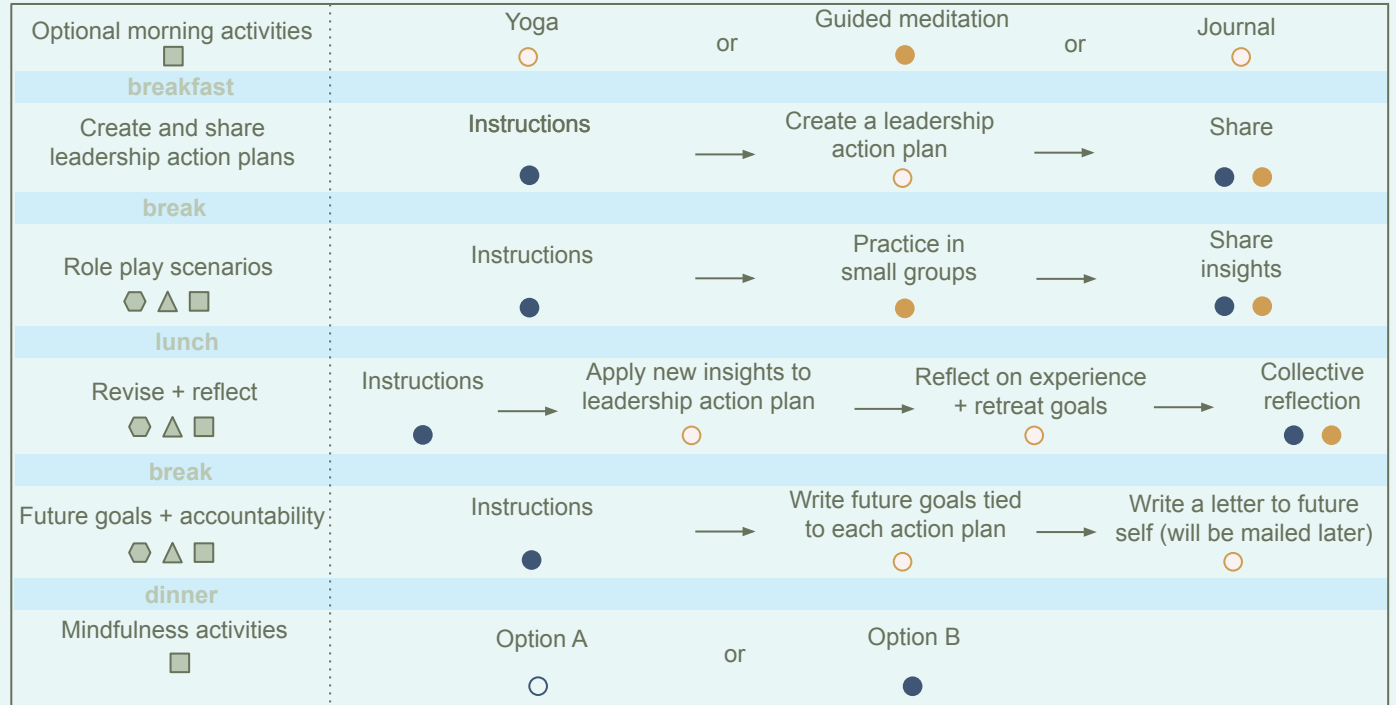
-  Sustainability
-  Design
-  Mindfulness

-  Passive Solo Learning
-  Passive Group Learning
-  Active Solo Learning
-  Active Group Learning

final solution



## Practice + Reflection: Preparing to Move Forward



# Viability

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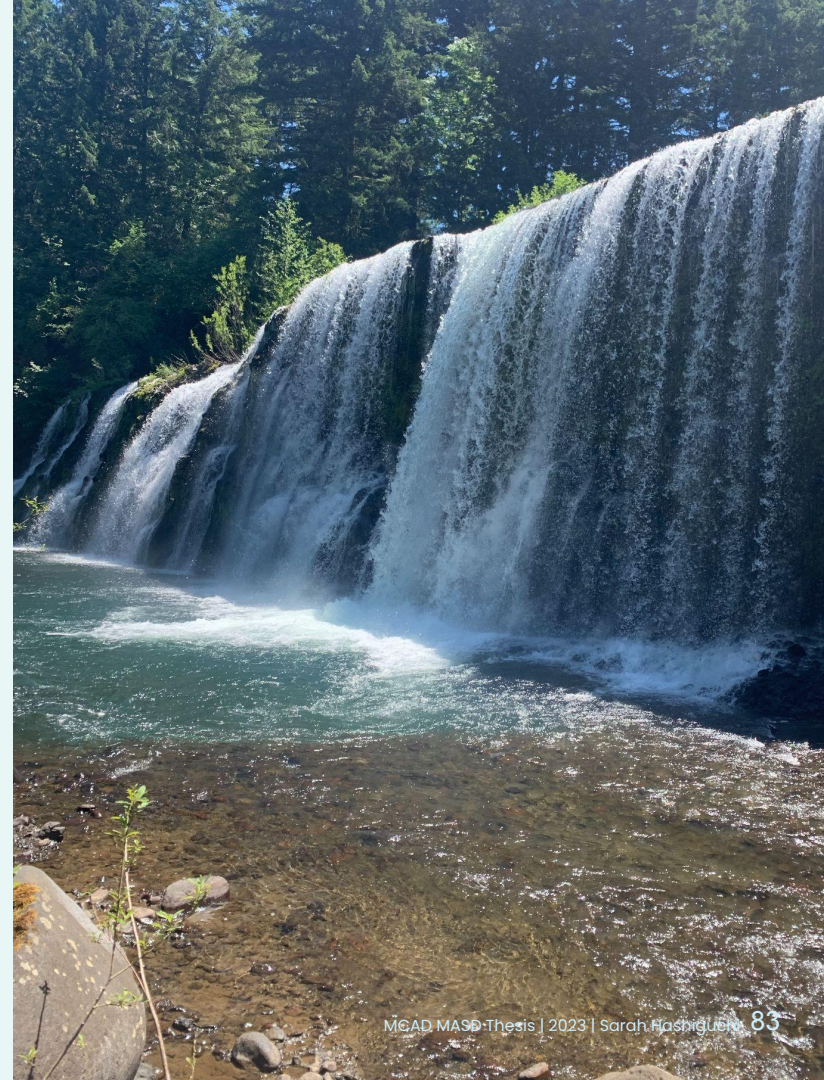
The viability of a training program like the one described is contingent upon several factors. Firstly, the **commitment and engagement of self-selecting emerging corporate leaders** who are genuinely motivated to bridge the sustainability values-action gap is crucial. The success of the program depends on participants' dedication to the principles and practices it promotes.

Additionally, **securing organizational buy-in and financial support** from corporations willing to invest in their employees' sustainable leadership development is essential for sustainability-focused programs to thrive. This kind of support helps alleviate the financial burden from the individual and provides a supportive structure for PTO to attend the retreat.

Furthermore, the **availability of skilled facilitators** and resources to deliver interdisciplinary training in sustainability, design thinking, and mindfulness plays a pivotal role. This factor could make the program challenging to scale quickly in the race against time.

Lastly, **ongoing evaluation and adaptation** of the program to align with evolving corporate sustainability needs and trends will contribute to its long-term viability. While challenges exist, a well-structured and adequately supported training program has the potential to create a cadre of influential evolving leaders who can drive positive change in the corporate world toward a life-centered economy.

viability

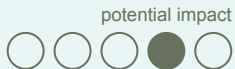
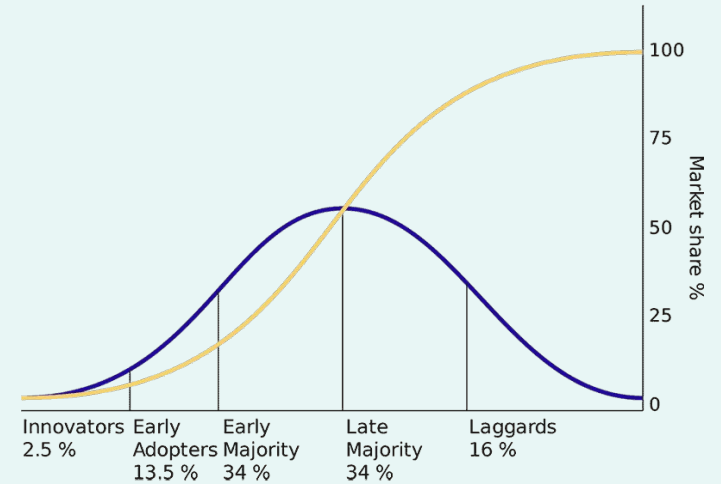


# Potential Impact

“...research on social movements and change suggests that a relatively **small number of dedicated individuals can catalyze much wider and more rapid shifts** in the broader environment.”<sup>39, 88</sup> In considering E.M. Rogers’ Diffusion of Innovation Theory as a model for change, this thesis will target the **Early Adopters** on the innovation curve, as they typically exhibit leadership qualities and are already **aware of a need for change**.<sup>89, 8</sup>

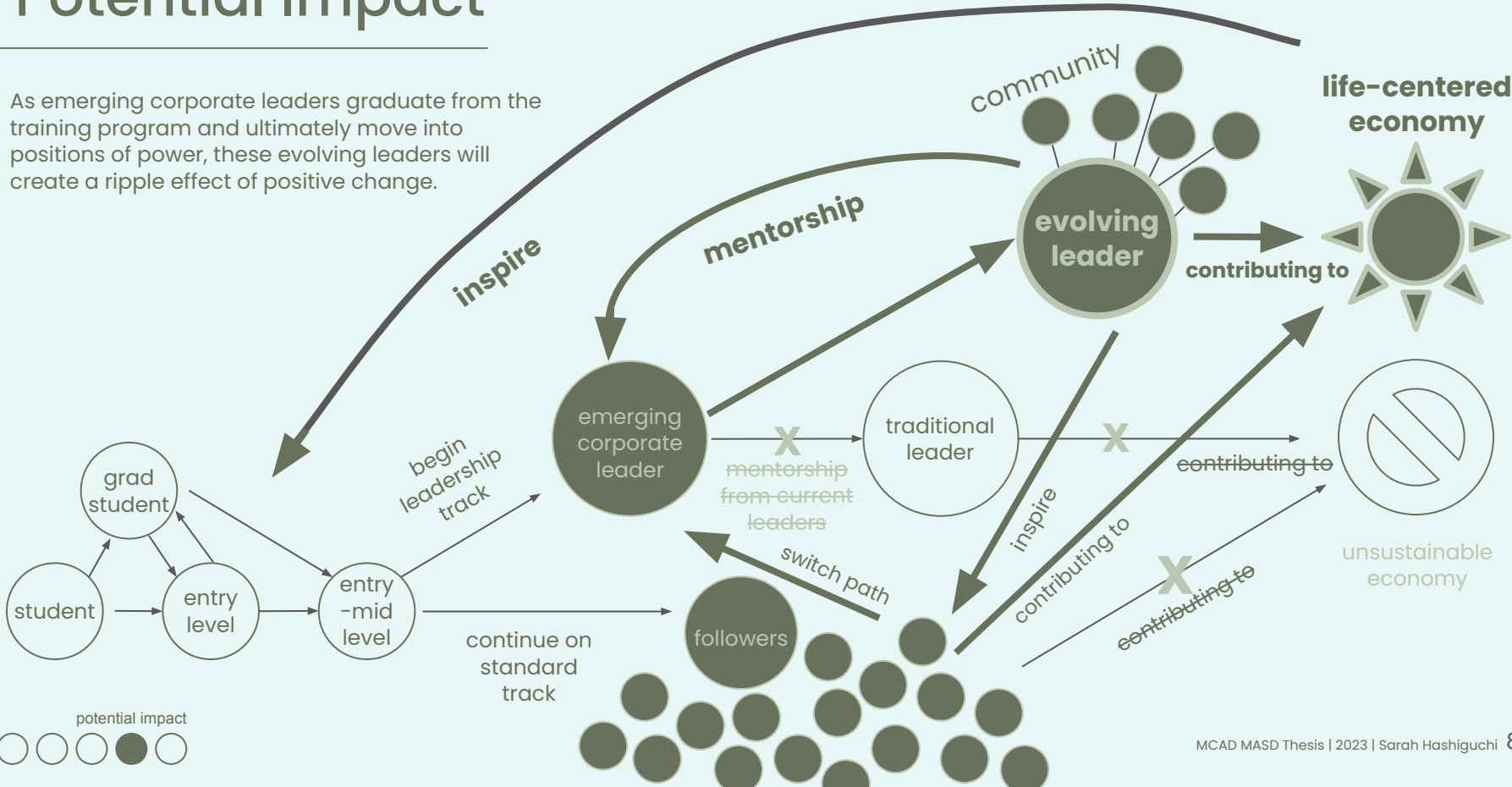
While it’s clear change is not yet happening at the rate necessary to avoid irreversible ecological tipping points, it is also important to acknowledge that **there is a social movement building** in the corporate world at a rate faster than previous major social movements in history. With the help of research and reporting from third party agencies, current leaders have come to realize that **corporations must change their ways to better align with the values of younger generations if they hope to continue to attract and retain new talent** unless they dare to face the consequences such as the possibility of leadership deserts.<sup>90, 91, 41</sup>

If the outcome of this thesis work was implemented, program participants would be responsible for spreading the ideas and knowledge of the capabilities they took away from the training to **share with other emerging corporate leaders** who may at first see the systematic change to pursue a life-centered economy to be uncertain or even risky. By spreading necessary tools through direct peer-to-peer communication, **trust and familiarity can accelerate the larger social movement** at play.<sup>89</sup> The more people actively pushing for change, the more likely corporations and the bodies of power they influence, can shift their priorities to protecting and preserving all forms of life.



# Potential Impact

As emerging corporate leaders graduate from the training program and ultimately move into positions of power, these evolving leaders will create a ripple effect of positive change.







# Conclusion

This thesis work **recognizes the complex dynamic world that emerging corporate leaders face everyday**, and offers a training intervention as a possible solution to enable their potential to enact greater change beginning in their organizations. Emerging corporate leaders are **trying their best** to navigate the incentives and disincentives of aligning their sustainability values and actions, while also recognizing they need to learn and develop more robust capabilities to continue to push for systematic change.

There is an overwhelming amount of content around what needs to be avoided, limited, stopped, and reversed in order to maintain a livable planet, however, negative messaging can be overwhelming and fail to spark engagement. The process of **backcasting and more vividly imagining an ideal future hold so much power to inspire people to fight for the world they want for themselves and future generations down the line.**

Next steps could include bringing this training to life and running it at full scale. This venture would require thoughtful branding, marketing, web design, facilitation materials, capable facilitators, retreat accommodations, and willing participants to come with an open mind and share a generous amount of feedback. Due to the costs associated with interventions like this, **a more inclusive future iteration could involve an entirely online program where participants immerse themselves in local nature settings** such as parks or botanical gardens while still maintaining the educational and community building aspects.

One of the most striking insights of this process has been how much good humans have the potential to do on this planet. It is a commonly held belief among many environmentally passionate people that the world would be better off without the species actively (and knowingly) causing the most harm to all other life.<sup>29</sup> In contrast to that view, this thesis builds the case that younger generations have the motivation to push for sustainable change. **They seek a future not separate from, but in harmony with the rhythms of nature, where human actions can help create thriving communities within the web of all interconnected beings.** Everyone has a role to play, and it's time for emerging leaders to get ready to make waves of change. **There is hope for a vibrant future.**

conclusion



**“Hózhó is the joy of being a part of the beauty of all creation. When we understand that humanity is an expression of the earth’s beauty, we understand that we too belong. Hózhó understands that we have an ecological role. Hózhó understands that our Mother Earth needs us.”** <sup>92</sup>

– Lyla June

Diné musician, scholar, and cultural historian

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# Appendices

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# Appendix A: Possible Activities

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- Gratitude journal<sup>93</sup>
- Compassion component<sup>94</sup>
- Interconnectedness exercise<sup>95</sup>
- Envisioning for an ideal future to work towards and protect<sup>96</sup>
- Explore internalized norms and self-expectations in the development of one's motivation to adopt a given behaviour<sup>62</sup>
- Cover the Four Foundations of Mindfulness<sup>97</sup>

# Appendix B: Living Principles Scorecard

## Living Principles Scorecard

The following Project Scorecard Worksheet is intended to facilitate critical evaluation of efforts as they relate to sustainability. The objective of this metric is to arrive at a “score” for each of the four integrated streams of sustainability. The scorecard is used for this Proposal Project to assess the applicability of sustainability ideas to the project and account for each of the twenty-one discreet principles that comprise the four streams (Living Principles 2009).

<u>EN Environment</u>	<u>Score</u>	<u>EC Economy</u>	<u>Score</u>
EN.01 Behaviors		EC.01 Systemic View	
EN.02 Creation		EC.02 Metrics	
EN.03 Durability		EC.03 Benefits	
EN.04 Disassembly		EC.04 Transparency & Truth	
EN.05 Supply Chain		EC.05 Waste = Food	
EN.06 Waste		EC.06 Product > Service	
<b>Total Environment Score</b>		<b>Total Economy Score</b>	
<u>PE People</u>	<u>Score</u>	<u>CU Culture</u>	<u>Score</u>
PE.01 Impacts		CU.01 Visions	
PE.02 Conflicts		CU.02 Meanings & Reactions	
PE.03 Desirability		CU.03 Systemic View	
PE.04 Need/Use		CU.04 Diversity	
PE.05 Long View		<b>Total Culture Score</b>	
<b>Total People Score</b>			

Living Principles Scorecard Scoring Key:

0= Doing nothing,

1 = Exploring Concepts,

2 = Implementing Solutions,

3 = Exhibiting Leadership,

4 = Achieving Restoration. Note: Restoration in sustainability terms means to restore ecosystems to their original, self-sustaining balance.



# Appendix C: Inner Development Goals

<p><b>Inner Compass</b> Having a deeply felt sense of responsibility and commitment to values and purposes relating to the good of the whole.</p> <p><b>Integrity and Authenticity</b> A commitment and ability to act with sincerity, honesty and integrity.</p> <p><b>Openness and Learning Mindset</b> Having a basic mindset of curiosity and a willingness to be vulnerable and embrace change and grow.</p> <p><b>Self-awareness</b> Ability to be in reflective contact with own thoughts, feelings and desires; having a realistic self-image and ability to regulate oneself.</p> <p><b>Presence</b> Ability to be in the here and now, without judgement and in a state of open-ended presence.</p>	<p><b>Critical Thinking</b> Skills in critically reviewing the validity of views, evidence and plans.</p> <p><b>Complexity Awareness</b> Understanding of and skills in working with complex and systemic conditions and causalities.</p> <p><b>Perspective Skills</b> Skills in seeking, understanding and actively making use of insights from contrasting perspectives.</p> <p><b>Sense-making</b> Skills in seeing patterns, structuring the unknown and being able to consciously create stories.</p> <p><b>Long-term Orientation and Visioning</b> Long-term orientation and ability to formulate and sustain commitment to visions relating to the larger context.</p>	<p><b>Appreciation</b> Relating to others and to the world with a basic sense of appreciation, gratitude and joy.</p> <p><b>Connectedness</b> Having a keen sense of being connected with and/or being a part of a larger whole, such as a community, humanity or global ecosystem</p> <p><b>Humility</b> Being able to act in accordance with the needs of the situation without concern for one's own importance.</p> <p><b>Empathy and Compassion</b> Ability to relate to others, oneself and nature with kindness, empathy and compassion and address related suffering.</p>	<p><b>Communication Skills</b> Ability to really listen to others, to foster genuine dialogue, to advocate own views skillfully, to manage conflicts constructively and to adapt communication to diverse groups.</p> <p><b>Co-creation Skills</b> Skills and motivation to build, develop and facilitate collaborative relationships with diverse stakeholders, characterized by psychological safety and genuine co-creation.</p> <p><b>Inclusive Mindset and Intercultural Competence</b> Willingness and competence to embrace diversity and include people and collectives with different views and backgrounds.</p> <p><b>Trust</b> Ability to show trust and to create and maintain trusting relationships.</p> <p><b>Mobilization Skills</b> Skills in inspiring and mobilizing others to engage in shared purposes.</p>	<p><b>Courage</b> Ability to stand up for values, make decisions, take decisive action and, if need be, challenge and disrupt existing structures and views.</p> <p><b>Creativity</b> Ability to generate and develop original ideas, innovate and being willing to disrupt conventional patterns.</p> <p><b>Optimism</b> Ability to sustain and communicate a sense of hope, positive attitude and confidence in the possibility of meaningful change.</p> <p><b>Perseverance</b> Ability to sustain engagement and remain determined and patient even when efforts take a long time to bear fruit.</p>
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# Appendix D: Sustainability Indicators

If the end goal is working to achieve a life-centered economy, how might that be measured in the future? One option might be to look at **Sustainability Indicators** as potential metrics for measuring sustainable communities.<sup>98</sup>

These differ from traditional indicators in that they focus on quality of life, human activities and processes. This is by no means an exhaustive source for potential metrics, just one avenue to be explored.

<http://www.sustainablemeasures.com/node/90>

## Traditional vs. Sustainability Indicators

The tables below compare traditional indicators with sustainable community indicators.

Economic Indicators		
Traditional Indicators	Sustainability Indicators	Emphasis of Sustainability Indicators
Median income Per capita income relative to the U.S. average	Number of hours of paid employment at the average wage required to support basic needs	What wage can buy Defines basic needs in terms of sustainable consumption
Unemployment rate Number of companies Number of jobs	Diversity and vitality of local job base Number and variability of industry types Variability of skill levels required for jobs	Resilience of the job market Ability of the job market to be flexible in times of economic change
size of the economy as measured by GNP and GDP	Wages paid in the local economy that are spent in the local economy Dollars spent in the local economy which pay for local labor and local natural resources Percent of local economy based on renewable local resources.	Local financial resilience
Environmental Indicators		
Traditional Indicators	Sustainability Indicators	Emphasis of Sustainability Indicators
Ambient levels of pollution in air and water	Use and generation of toxic materials (both in production and by end user). Vehicle miles traveled.	Measuring activities causing pollution
Tons of solid waste generated	Percent of products produced which are durable, repairable, or readily recyclable or compostable.	Conservative and cyclical use of materials
Cost of fuel	Total energy used from all sources Ratio of renewable energy used at renewable rate compared to nonrenewable energy.	Use of resources at sustainable rate
Social Indicators		
Traditional Indicators	Sustainability Indicators	Emphasis of Sustainability Indicators
SAT and other standardized test scores	Number of students trained for jobs that are available in the local economy Number of students who go to college and come back to the community.	Matching job skills and training to needs of the local economy
Number of registered voters	Number of voters who vote in elections Number of voters who attend town meetings. Ability of citizens to register to vote (reduced barriers).	Participation in democratic process Ability to participate in the democratic process

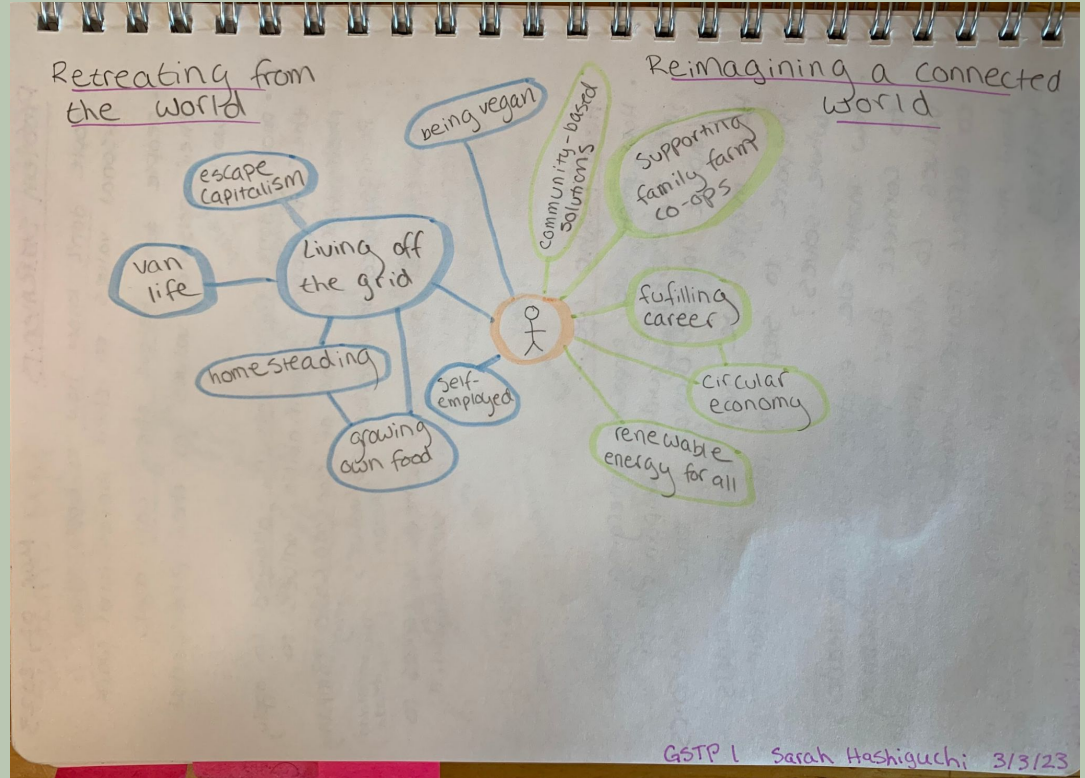
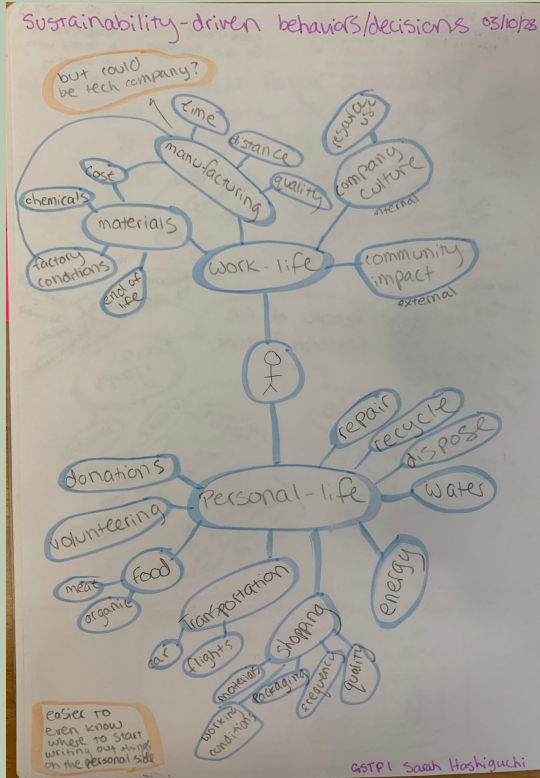
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# Appendix F: Mind Maps



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