February 2019

Designing a Sustainable, Long-Term Revenue Model for Turn Back Time

Marc Charles Printz
Worcester Polytechnic Institute

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DESIGNING
A SUSTAINABLE, LONG-TERM
REVENUE MODEL FOR
TURN BACK TIME

By: Marc Printz
Designing a Sustainable, Long-Term Revenue Model for Turn Back Time

A Major Qualifying Project Report
Submitted to the Faculty of:

WORCESTER POLYTECHNIC INSTITUTE

In partial fulfillment of the requirement for the
Degree of Bachelor of Science for:
Marc Printz

February 20, 2019

Submitted to:
Professor Michael Elmes

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Abstract

Turn Back Time (TBT) is a non-profit organization in Central Massachusetts on a mission to improve the lives of children by getting them back to nature. Research suggests that exposure to nature has many long-term benefits for children and promotes better health, greater empathy, and long term success. The focus of this project was to propose a plan to help TBT achieve greater financial sustainability. I investigated various strategies and made recommendations to help the organization run more efficiently and profitably, grow new sources of revenue, and transform itself into a long-term sustainable enterprise with programs that effectively address the problem of nature deficit in children.
Executive Summary

“For a new generation, nature is more abstraction than reality. Increasingly, nature is something to watch, to consume, to wear -- to ignore” (Louv, 2008, p.6). Children’s exposure to nature has been steadily decreasing over the past decades due to busier schedules, decreased accessibility to greenspaces, a shift in parenting styles, and newer distractions (i.e. tv and computers). Nature deficit is important because a growing body of research has found evidence that “just as children need good nutrition and adequate sleep, they may very well need contact with nature” (Moss, 2012, p.7). Researchers have found connections between an exposure to nature and reductions in symptoms of ADHD, stress, nature knowledge deficit, depression, vitamin D deficiency, short-sightedness, asthma, declining emotional resilience, the lack of ability to assess risk and declining physical activity (Kuo, 2004; Nature Conservancy, 2011; Briggs, 2016; Presland, 2015; Moss, 2012; McCurdy, 2010). All these health problems are attributable, at least in part, “to a decrease in the time children spent outdoors compared with previous generations” (Moss, 2012, p.5).

Turn Back Time (TBT) is a non-profit organization on a mission to improve the lives of children through nature exploration, farm education and outdoor play; to get children back to nature. While the organization’s successes have resulted in increased demand for its summer day-camp and preschool programs, their financial model is not sustainable. In 2017 they operated at a loss of $2,500. Furthermore, the Director’s salary was only $19,200. While the salary did increase to $30,000 in 2018, the organization must continue raising it so that it is competitive enough that they may hire a new director when the current one retires. Also, the organization must hire additional personnel so that it may operate more effectively and grow.

Through the use of online research, data analysis and interviews I investigated strategies that TBT may use to achieve financial sustainability. I have categorized these strategies as Run, Grow and Transform. These three categories pertain to: running the organization efficiently and effectively in its current state, growing its program offerings, and transforming it from a ‘start-up’ to an established nonprofit. Specifically, each category looked at the following:

<table>
<thead>
<tr>
<th>Run</th>
<th>Grow</th>
<th>Transform</th>
</tr>
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<tbody>
<tr>
<td>Minimizing Expenses</td>
<td>Grant-Writing</td>
<td>Developing an Endowment Fund</td>
</tr>
<tr>
<td>Pricing of their Services</td>
<td>New Programs</td>
<td>Supplementing the Current Director Role</td>
</tr>
<tr>
<td>Web-Page Loading Speeds</td>
<td>Fundraiser Event</td>
<td></td>
</tr>
<tr>
<td>Design and Content of their Website</td>
<td>Membership System</td>
<td></td>
</tr>
<tr>
<td>Donation Structure</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Targeted Promoting for Individual Donors</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

I determined that TBT would not only break-even, but be able to boost director wages and hire a Fundraising Director just by implementing the following data-supported changes: minimize their expenses, increase the prices of their services to match the industry average, renovate their web-page to
improve loading speed and design. The other Run-Grow-Transform changes would also increase annual revenue (by way of business-related activity or donations), but I was unable to predict the exact amount.

By implementing my recommended changes TBT would not only break-even financially, but could reinvest the additional income in new strategies to grow the organization for long-term success. In the Recommendations section, I lay out a basic roadmap for how exactly TBT may go about this.

In summary, this project is a discussion of how a nonprofit may grow from a startup, to a mature organization. This is a worthwhile contribution to literature because while there is a wealth of information on how to grow for-profit organizations from startup to maturity, there is relatively little for nonprofits.
Acknowledgements

This project would not have been possible without the aid and support of several individuals. I am grateful for the opportunity to work with the following:

- **Lisa Burris, Director of Turn Back Time:** For being both the project’s sponsor and providing valuable information that helped develop the project.

- **My Advisor, Michael B Elmes:** For his continual guidance and constructive feedback throughout the project.

- **Bill McAvoy, Vice-President of University Advancement at Worcester Polytechnic Institute:** For his advice on best practices when developing a small, young nonprofit and strategies for achieving financial sustainability.

I would also like to extend my appreciation to the board members, staff, volunteers and others helping Turn Back Time address the international crisis that is Nature Deficit.
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1.0 Introduction

“For a new generation, nature is more abstraction than reality. Increasingly, nature is something to watch, to consume, to wear -- to ignore” (Louv, 2008, p.6). When Richard Louv published his book, Last Child in the Woods: Saving Our Children From Nature-Deficit Disorder, he unknowingly began a movement to get children back to the outdoors. A nationwide poll in the United States (2011) found that children spend less than 10% of their day outdoors, and likely much less. The results of a 2016 national survey in the United Kingdom were even more sobering: 74% of children spent less than one hour playing outdoors; this was less than the United Nations’ guidelines for prisoners, which require “at least one hour of suitable exercise in the open air daily” (Carrington, 2016, p.1). This deficit is critical because a growing body of research has found evidence that “just as children need good nutrition and adequate sleep, they may very well need contact with nature” (Moss, 2012, p.7). Children’s exposure to nature has been steadily decreasing over the past decades due to busier schedules, decreased accessibility to greenspaces, a shift in parenting styles, and newer distractions (i.e. tv and computers).

Through various independent studies in both the United States and Europe, researchers have found connections between an exposure to nature and reductions in symptoms of ADHD, stress, nature knowledge deficit, depression, vitamin D deficiency, short-sightedness, asthma, declining emotional resilience, the lack of ability to assess risk and declining physical activity (Kuo, 2004; Nature Conservancy, 2011; Briggs, 2016; Presland, 2015; Moss, 2012; McCurdy, 2010). Research has found that all these health problems are attributable, at least in part, “to a decrease in the time children spent outdoors compared with previous generations” (Moss, 2012, p.5).

Turn Back Time (TBT) is a non-profit organization on a mission to improve the lives of children through nature exploration, farm education and outdoor play; to get children back to nature. Established in 2011 by the Burris family, TBT operates a 58-acre homestead in Paxton, Massachusetts. Services offered include farm and nature focused pre-school, homeschool trips, after-school classes and a multi-week summer day-camp program. While Turn Back Time’s success has resulted in increased demand for its summer day-camp and preschool programs, their financial model is not sustainable. Most funds for their new barn, which has increased the organization’s capacity to run programs, came from the retirement savings of the organization’s founding family, the Burris family. This couple works overtime and receives relatively little pay. They are in their late 50s/ early 60s and will be looking to retire in the coming years. TBT is also understaffed due to a lack in revenue.

My task for this project was to review their financial model and to make recommendations for achieving a sustainable financial future, accounting for the eventuality that the founders will retire. Specifically, I determined which funding model suites the non-profit best, investigated TBT’s business-related income and expenses, analyzed the potential impact of the website’s loading speed and design on donations, identified zip codes to target for acquiring new donors, compared current program offerings of TBT to similar organizations, investigated creating an endowment fund and presented a potential annual fundraiser event.
2.0 Literature Review

To best understand the role of Turn Back Time, a local non-profit, in the international movement of getting kids out into nature, Chapter 2.0 has been organized by discussions on nature deficit, the movement to get kids into nature, Turn Back Time itself, and non-profit funding models. Section 2.1 will define nature deficit and its implications on health and knowledge. It will also cover how and why children’s’ access to nature has changed. Section 2.2 presents the rising international movement to get children back out into nature to correct these nature deficits. Section 2.3 introduces Turn Back Time, their mission, history, past university projects that have been done, and their current financial model. Section 2.4 will outline successful strategies across the non-profit industry for developing a sustainable revenue model.

2.1 Nature Deficit Disorder

Nature Deficit Disorder (NDD) is, according to Dr. Ross Cameron of the Department of Landscape at Sheffield University, “a coverall to describe the things of where we used to have natural processes, natural experiences in our lives, and that seem to be becoming less common” (Brigs, 2016, p.1). In other words, it is a term to evoke the loss of communication with other living things (nature), not a clinically recognized condition. NDD is a symptom of the current lifestyle where people spend more time indoors, becoming more alienated from nature. This alienation results in many consequences with respect to personal health and knowledge of the natural world. Overall, “children who learn outdoors know more, understand more, feel better, behave better, work more cooperatively, and are physically healthier” (Moss, 2012, p.9). The phrase “Nature Deficit Disorder” was coined by Richard Louv in his book The Last Child in the Woods.

The following section begins with looking at the impacts, both short-term and long-term, of nature deficiency in children. Impacts have been divided into two sections: health and knowledge. The section will conclude by investigating reasons for changes in children’s access to nature to explain why nature deficiency has become such a prominent issue.
2.1.1 Health Impacts

Short-Term Effects

Attention Deficit Hyperactivity Disorder (ADHD): The Center for Disease Control in the United States labels ADHD as a “serious public health problem” (Kuo & Taylor, 2004, p.1580), citing

*the large estimated prevalence of the disorder; the significant impairment in the areas of school performance and socialization; the chronicity of the disorder; the limited effectiveness of current interventions to attend to all the impairments associated with ADHD; and the inability to demonstrate that intervention provides substantial benefits for long-term outcomes."

(Kuo & Taylor, 2004, p.1580).

As alluded to, current treatments offer only limited relief from symptoms and often carry serious side effects. Long term studies have shown that children with ADHD, compared to those without, are more impaired in psychosocial, educational and neurophysical functions, and have higher risks for antisocial disorders, major depression and anxiety disorders as adults (Xu & Liu, 2018). The issue with ADHD is twofold: ADHD prevalence is on the rise, and, currently there is no effective treatment.

According to an annual nationwide study by the National Health Interview Survey, diagnosed ADHD in US children and adolescents increased by 42% from 2003 to 2011. The total proportion of children with ADHD rose from 6.1% to 10.2% (1997-2016). This rise was apparent across all subgroups of age, sex, race/ethnicity, family income and geographic location (Xu & Liu, 2018). Although some of the rise can be attributed to etiological factors (more publicity, doctors’ greater awareness, changes in diagnostic criteria, and improved access to health services), the change is still very important. The specific breakdown of the proportion of children with ADHD per subgroup in 2016 is provided in Table 1.

<table>
<thead>
<tr>
<th>Age</th>
<th>Gender</th>
<th>Ethnicity</th>
<th>Geography</th>
</tr>
</thead>
<tbody>
<tr>
<td>Age 4-11</td>
<td>Boys</td>
<td>Hispanic 6.1%</td>
<td>Northeast 10.3%</td>
</tr>
<tr>
<td>Age 12-17</td>
<td>Girls</td>
<td>Non-Hispanic White 12%</td>
<td>Midwest 12.2%</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Non-Hispanic Black 12.8%</td>
<td>South 11.1%</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>West 7%</td>
</tr>
</tbody>
</table>

Table 1 – Breakdown of ADHD Prevalence by Subgroup
(Xu & Liu, 2018)

Fortunately, there is a growing body of research demonstrating that an exposure to nature can help suppress symptoms in children with ADHD.

One study conducted a controlled field experiment where children with ADHD went on 20-minute guided walks, while unmedicated, in three different settings, which ranged from natural
to urban. Prior, they would complete 15 minutes of puzzle-like tasks to simulate attentional fatigue from school or work. Afterwards, a single evaluator, who was unaware of the study’s conditions, administered objective measures of attention. The study found that children performed significantly better on these measures after walking in the greenest setting than either of the other two (Kuo & Taylor, 2004).

Another study conducted a national online survey to determine if the salutary effects of nature apply to a wider range of ages, community sizes and geographic regions. In the study, parents rated the after-effects of common after-school and weekend activities in different setting on their child’s symptoms. The three surroundings measured were green outdoors (any mostly-natural area, such as a park, farm or green backyard), built outdoors (any mostly-human-made area, such a parking lot, downtown area, and non-green neighborhood space), and indoors. The study selected four easily observable symptoms from the official ADHD diagnostic criteria: ability to stay focused on unappealing tasks; difficulty in completing tasks; ability to listen and follow directions; and difficulty in resisting distractions. The study found that “green out-door activities significantly reduced symptoms” (p.1583) when done individually, in pairs or in larger groups. The overall positive aftereffects were also greater than for indoor or built outdoor activities (Kuo & Taylor, 2004). In fact, indoor activities significantly exacerbated symptoms when in larger groups. These benefits occurred nationally, no matter the size of the community the child lived in; their income bracket; gender; or demographic, or the activity. Furthermore, because the same benefit was found for children with ADD but not hyperactivity, this suggests that the salutary effects cannot be solely attributed to being able to “burn off” hyperactive impulses. Interpreting these findings, for those

“whom medication is tolerable and effective, exposure to green settings might augment the medication’s effects, offering a more complete relief of symptoms and helping children function more effectively at school and at home. In addition, a green dose might conceivably reduce the need for medication by 1 dose per day” (Kuo & Taylor, 2004, p. 1585).

For those whom medication is ineffective, green doses may offer relief from symptoms.

**Attention Fatigue:** According to environmental psychologist Stephen Kaplan, “tasks and situations that require one to deliberately direct attention or inhibit unwanted stimuli, thoughts or impulses draw on a shared mechanism that is subject to fatigue” (p.1580). That mechanism is the prefrontal cortex. Those with ADHD have both a smaller right prefrontal cortex and less activity there. Similarly, prolonged or intense use of the prefrontal cortex in ‘healthy’ people will cause fatigue, decreasing brain activity and making it increasingly difficult to pay attention and inhibit impulses. The result is that “the behavior and performance of individuals without ADHD temporarily take on many of the characteristic patterns of ADHD” (Kuo & Taylor, 2004, p.1580). This is called attention fatigue. Symptoms are so similar that the ADD evaluation scale is used for measuring attention fatigue.

Substantial research has shown that ADHD symptoms due to attention fatigue are reduced
after exposure to natural views and settings. This occurs because they engage the mind effortlessly. It’s a systematic restoration effect on direct attention that causes the “rejuvenation feeling” (Kuo & Taylor, 2004, p.1). Exposure to “natural settings” ranges from gardening, restoring prairie ecosystems, and having grass and trees outside your window, to back packing or simply viewing images of nature. The four main characteristics necessary for an environment to assist in attentional fatigue recovery and attentional capacity restoration are:

1. **Fascination**: Fascination occurs in environments where one’s attention is drawn effortlessly, thus involving involuntary attention and allowing the mechanism behind directed attention (the prefrontal cortex) to rest. Examples include: babbling brooks, the stir of leaves, and bird song.

2. **Being Away**: Being away is the experience of taking a mini-vacation from one’s daily concerns. This “trip” can be brief (i.e. looking out a window) or long (i.e. a backpacking trip).

3. **Extent**: Extent refers to the depth or scope of the experience; whether one can become immersed in the experience.

4. **Compatibility**: Compatibility between the environment and one’s purposes or inclinations, such that directed attention is not needed and can rest.

(Wells, 2000, p.782)

Although all four characteristics can be found in non-natural environments, nature has been found to be the most reliable source for mental restorative experiences. Even for those not suffering from ADHD or Attention Fatigue, exposure to nature can increase attentional capacity. This was demonstrated in one case where “children in a more natural daycare center had greater attentional capacity than those in a less natural daycare center where they spent less time outdoors” (Wells, 2000, p. 790).

**Implications for Performance**: Some studies have been conducted on nature’s effect on intellectual performance. Two separate studies have found that individuals perform better on active reading after walking in nature versus in a city or relaxing indoors. Related, a 1991 study found that people who went on a wilderness backpacking trip performed better at proof reading; those who went on an urban vacation or no vacation showed no improvement (Wells, 2000). Another study conducted in 2012 by psychologists at the University of Utah and University of Kansas found that after four days in nature backpackers performed 47% better in cognitive functions related to creativity and problem solving compared to others who had not yet gone on the trip (Presland, 2015).

**Implications for Generosity**: In a series of experiments published in 2014 by researchers from the University of California, Irvine, links between exposure to nature and generosity and trust were made. In the first part of the study, participants were observed playing two economics games (the Dictator Game and the Trust Game) which measure generosity and trust,
respectfully. Participants that were exposed to more beautiful nature scenes acted more generously and trusting than those exposed to less beautiful scenes—the beauty of the scenes was determined in a separate experiment. This seemed to be due to a corresponding increase in positive emotion. In the second part of the study, participants were asked to fill out a survey about their emotions while at a table with beautiful plants. Afterwards, participants were told that the study was over, and they could either leave, or help make paper cranes for relief effort in Japan. When there were more beautiful plants, both the likeliness of participants volunteering, and the number of cranes made increased significantly. The researches once again concluded that this was due to an increase in positive emotion elicited by the beauty of nature, which results in prosocial behavior (Zhang & Piff, 2014). This theory was later supported in a second study by Paul Piff, one of the authors of the previous experiment. Piff found that if participants stared up a grove of very tall trees for a little as a minute—compared to participants who stared up at high buildings—, they demonstrated more helpful behavior and approached moral dilemmas more ethically. The change in behavior was due to a measurable sense of awe felt by participants (Piff, Dietze, Feinberg, Stancato, Keltner, 2015).

**Psychological implications:** An experiment conducted in Japan in 2014 recorded participants’ heart rate variability (a measure of relaxation and stress), heart rate and blood pressure while walking in a forest or urban center. Participants also filled out questionnaires about their moods, stress levels and other psychological measures. The results showed that those walking in a forest had significantly lower heart rates and higher heart rate variability, denoting more relaxation and less stress. They also reported better moods and less anxiety than those who walked in an urban center (Lee & Tsunetsugu, 2014). Thus, walking in nature has a beneficial effect on cardiovascular and psychological health. A similar experiment conducted by Peter Aspinal at Heriot-Watt University in Edinburgh, continuously monitored participants’ brains using mobile electroencephalogram (EEG) while they walked through an urban, green setting. The EEG readings indicated lower frustration, engagement and arousal, and higher meditation levels while in the green area. It is this lower engagement and arousal, which encourages a more meditative mindset, that allows the brain to rest and restore attention capacity. It is also this resting state, free of distraction and multitasking, that allows for one to have the most break-through thoughts (Aspinall & Mavros, 2013).

A separate study in Finland confirmed nature’s stress relieving effect. In the study, urban dwellers reported significantly more stress relief after promenading in an urban park or woodland, compared to those who walked through a city center (Tyrväinen & Ojala, 2014). This connection was again confirmed by Roger Ulrich of Texas A&M University. In his study, after viewing a stress-inducing movie, participants showed much quicker and more complete recovery when they were exposed to videos of natural scenes (Tyrväinen & Ojala, 2014).

Continuing the discussion of nature improving one’s mood, a study from Stanford University
assessed participants on their emotional state and cognitive measures (such as short-term memory) before and after walking in a natural or urban setting. The study found that participants who walked in nature experienced less anxiety, rumination, and negative affect, as well as more positive emotions, compared to the urban walkers. They also exhibited improved performance on memory related tasks. A decrease in rumination (focused attention on negative aspects of oneself) is important because it has been associated with depression and anxiety (Bratman & Gretchen, 2015). This explains the findings of a study by the mental health organization MIND: walking in nature reduced depression for 71% of participants, while a shopping center made 22% of participants more depressed (Presland, 2015). Gregory Bratman, the author of the Stanford experiment, followed up by taking fMRI scans of participants’ brains before and after walking in a natural or urban setting to determine exactly how nature affects rumination. It turns out that participants who walked in a natural versus an urban setting showed increased activity in the subgenual prefrontal cortex. The deactivation of this area of the brain is affiliated with depression, anxiety and other mental illnesses (Bratman & Hamilton, 2015). These results imply that nature may be vital for our mental health.

Long-Term Effects
Implications in Creativity: In Section 2.1.1 (Short-term Effects), it was established that being in nature has been shown to enhance cognitive functions related to creativity and problem solving in the immediate. Researchers in the School of Psychology from the Victoria University of Wellington went one step further. They tested Singaporean secondary students to determine if people’s sense of connectedness with nature correlated with innovation and analytic-holistic thinking. Specifically, they used studied cognitive styles such as Kirton’s adaption-innovation (KAI) and analytic-holistic thinking (AHT). The study comprised of two smaller studies: one used an online survey, the other used a pen and paper survey. Controlling for well-being effects, the researchers found a significant correlation between nature connectedness and both innovative and holistic thinking. Nature connectedness was also a significant predictor of innovative thinking (Leong, Fischer, McClure, 2014). Thus, nature not only provides an immediate boost in these cognitive function, but also a permanent, longer-term and potentially life-long advantage. The Adventure Alternative (1984) by Colin Mortock offers some insight into why these connections may exist.

According to Mortlock, because nature is unpredictable and challenges people’s comfort zone, activities in nature may be considered outdoor adventures. Outdoor adventures often involve physically demanding activity, risk, and opportunities for uplifting experiences (i.e. viewing a beautiful view from a mountain). Thus, to connect with nature people need to be open to and embrace this sense of adventure. Similarly, innovative thinkers need to be willing to work hard, stay open to new experiences and accept risk, striving towards that eventual success moment. Furthermore, to generate new ideas they must be open-minded (Mortlock, 1987).
The impact of nature enhancing innovative and holistic thinking is that it may result in more innovators. In the modern era innovators and entrepreneurs are prized and rewarded (by both recognition and monetary means). To maintain competitive advantage, increase market share, or expand into new markets, companies are in a constant battle to innovate faster and better than their rivals. Governments are also incentivized to nurture innovation to grow their economy and assert themselves in international politics as global leaders. Innovators are also critical to solving the largest global problems (i.e. climate change, poverty, world hunger, energy sustainability, universal education). As discussed in the book Where Good Ideas Come From: The Natural History of Innovation, by Steven Johnson, innovation is not something that happens behind closed doors by a single genius. Instead, it flourishes when there are numerous innovative minds that ideas can bounce off (Johnson, 2010). Thus, the finding that nature connectedness enhances innovative and holistic thinking has great importance at a global scale. Because of this and previously mentioned benefits from nature exposure, businesses are beginning to have nature retreats, and introduce plants and natural light into building design (Rampton, 2013). Embracing plants in the workplace even topped design trends in 2016 (Good Earth Plant Company, 2016). Amazon’s new offices in Seattle now feature biospheres that resemble parks more than offices, tree-house meeting rooms, living walls and more. Walking meetings are also now encouraged there. Apple’s new headquarters in California features thousands of trees in a park-like design. Adobe, Clif Bar & Company, QuickLeft, and call centers have also embraced the green (Birrane, 2016; Good Earth Plant Company, 2016). There is still much to be desired, however. In 2016, 58% of respondents to the Human Spaces Global Report said there were no live plants at their workplace and 47% said there was no natural light (Birrane, 2016).

**Psychological Implications:** Section 2.1.1 covered that exposure to nature helps address many psychological issues such as stress, attention deficit and one’s emotional state in the short term. In parallel with a decline in exposure to nature, from 1974 to 1999 there was a significant rise in clinically diagnosed health disorders amongst children ages 5-16 years old. In 1999, 10% of that age group had a clinically diagnosed disorder (Moss, 2012). Other issues such as vitamin D deficiency, short-sightedness, and asthma have risen, and children’s emotional resilience and ability to assess risk have declined. Research has found that all these health illnesses are attributable, at least in part, “to a decrease in the time children spent outdoors compared with previous generations” (Moss, 2012, p.5). So, not only does nature alleviate these issues in the short-term, but a lack of nature causes them in the long-term. It is also important to mention that, as discussed in Section 2.1.1 Short-Term Effects: Attention Deficit Hyperactivity Disorder, an exposure to nature helps alleviated symptoms of ADHD. In the long-term, this may have large, positive implications for both the individual and society.
With respect to declining emotional resilience and ability to assess risk in children, Professor Tanya Byron, child psychologist, notes that:

the less children play outdoors, the less they learn to cope with the risks and challenges they will go on to face as adults... Nothing can replace what children gain from the freedom and independence of thought they have when trying new things out in the open (Moss, 2012, p.6).

“Nothing” includes playgrounds. “Compared with man-made playgrounds the natural world is highly complex, with lots of places to hide and explore” (Moss, 2012, p.7). While this untidiness makes it harder for adults to monitor, it is more stimulating for children. Furthermore, unlike man-made playgrounds, nature changes with the seasons, resulting in new things to see and discover.

Emotional resilience is important because of its causal relationship with illnesses such as depression and anxiety, both of which have soared among college students in the United States. Students’ emotional fragility has made university faculty afraid to give low grades, and, students are “increasingly seeking help [via counseling] for, and apparently having emotional crises over, problems of everyday life” (such as seeing a mouse or being insulted by their roommate) (Gray, 2015, p.1).

As noted by Lord Digby Jones, the former Chairman of the CBI, risk assessment is important because, if:

“we never took a risk, our children would not learn to walk, climb stairs, ride a bicycle or swim; business would not develop innovative new products... scientists would not experiment and discover; [and] we would not have great art, literature, music and architecture” (Moss, 2012, p.6).

If we do not learn to accept and deal with risk, then we would never try anything new or creative, for, trying something new inherently has risk. By trying something new one might risk financial failure, judgement from peers and society, emotional stress, et cetera. Thus, risk assessment connects back to Section 2.1.1 Long-Term Effects: Implications in Creativity.

Although less tangible, a correlation between nature exposure and overall happiness has been identified. National Trust Survey (2012) found that 80% of the happiest people in the United Kingdom reported having a strong connection with the natural world, compared with only 40% of the unhappiest people. In 2011 UNICEF conducted a cross-cultural ethnographic study which reinforced this finding. Comparing childhoods in the United Kingdom, Spain and Sweden, they found that children’s “happiness is dependent on having time with a stable family and plenty of things to do, especially outdoors, rather than on owning technology or branded clothes” (emphasis mine) (Moss, 2012, p.10).

A final note, even light contact with nature in a community, such as a view of green space from the window, may reduce incidences of crime by 50% (Moss, 2012). This may be due to both
nature reducing residents’ stress and improving personal wellbeing, as well as inviting families and children in the community to bond through use of the greenspace.

**Physical Implications:** According to the Center of Disease Control, 39.8% of US adults were obese between 2015 and 2016. As a result, obesity-related conditions (heart disease, stroke, type 2 diabetes and certain types of cancer) are the leading causes of preventable, premature death (CDC, 2018). Furthermore, there has been a 10% decline in cardiorespiratory fitness in one decade (Moss, 2012). It is widely accepted that exercise is an effective way to both prevent and treat persons with these conditions. There is also clear evidence that a child’s attitude towards exercise lays the foundation for their habits as adults (Moss, 2012). So, if they come accustomed to and enjoy exercise when younger, they are more likely to continue with these habits later in life, reducing their likelihood for obesity and obesity-related conditions. When children play outside they do many physical tasks—they run, dig and climb for hours—, as such, children who spend more time outdoors are more active (McCurdy, 2010). “If you told them to do it they wouldn’t, but they want to because they are playing. You won’t get that level of physical activity with anything else” (Moss, 2012, p.7). Compared to going to the gym or training for a sport where exercise is the primary goal, exercise is a side benefit of going outdoors, thus unintentional. In fact, research has shown that in places with good access to green space people are 24% more likely to be active (Moss, 2012). This make it easier for exercise to become part of adult habits since, as many people point out, exercise is not ‘fun’ for everyone. Representative of habit creation, obese youth have reported notably lower participation rates in outdoor activities and being less interested in pursuing them in the future (Nature Conservancy, 2011).

Children’ exercise has implications not just for the individual, but for the economy as well. In 2008 the estimated annual cost of obesity in the United States was $147 billion. Per person, the medical cost for people with obesity was $1,429 higher than those of normal weight (CDC, 2018). Although not the primary reason for rising health care costs, it is part of the issue. According to the same data set, men and women with college degrees have lower obesity prevalence compared with those of less education (CDC, 2018). While a direct causal relationship cannot be assumed, an exposure to nature as a child has been shown to boost creativity, critical thinking, problem solving, emotional resilience, and one’s ability to assess risk. Each of these attributes are important in acquiring a college degree, which is commonly known to improve one’s economic standing. As discussed before, an exposure to nature affects one’s adult exercise habits, which correlates with one’s risk for obesity. QED, it seems nature exposure may, in part, explain this finding by the CDC.

### 2.1.2 Nature Knowledge Deficit

Besides impacting the psychological, physical and general health, and performance of
children, nature deficit also results in a lack of knowledge about nature. Over time this amounts to people knowing more about the fictional worlds we create (i.e. Pokémon and Doctor Who) than the real, natural world. The larger impact is that the less someone knows about something, the less they are inclined to care about and protect it.

The Literature

In Britain, a survey of 4 to 11-year-old children investigated nature knowledge deficit by showing participants two sets of 100 cards. One set had images of common species of local plants or wildlife (i.e. adder, bluebell, heron, otter, puffin, wren), while the other was of common species of Pokémon (i.e. arbok, beedrill, hitmonchan, omanyte, psyduck, wigglytuff). The results were stark. Overall, the children were able to correctly name only 50% of the real species, but 80% of the Pokémon (Macfarlane, 2017). Furthermore, in 2008 a study found that only 33% of children ages 8 to 11 could identify a magpie, but 90% could name a Dalek (from Doctor Who) (Moss 2008). The knowledge disconnect is even apparent amongst students receiving biology and zoology degrees in college. Although they study the material and may have interest in environmental issues, few have practical, hands-on experience. As a result, most A-level biology students cannot identify more than three wild plants (Moss, 2012).

Although children are usually the focus of nature deficit research and material, nature knowledge deficit isn’t constrained to children. A RSPB Birdwatch survey (2017) of 2,000 parents in Britain and a Wildlife Trust Survey (2017) in the United States found that:

- 50% could not identify a house sparrow
- 25% could not identify a blue tit or starling
- 33% could not identify a barn owl
- 75% could not identify an ash tree
- 20% thought a red kite wasn’t a bird

(Macfarlane, 2017)

Afterwards, 67% of adults from the US survey reported feeling they had “lost touch with nature”, and, 90% of parents from British study wanted their children to learn about common British wildlife (Macfarlane, 2017, p.1).

The effects

Less knowledge and exposure to nature threatens to result in fewer people fighting to protect it. Generally, people only protect what they care about, and they only care about what they have experienced. These two concepts are exemplified by the aging population of active amateur naturalists who contribute their observations to national wildlife surveys—which may influence policy change. Many are more than 40 years old, and most are over 60. Paradoxically, there has been a huge rise in awareness of environmental issues (i.e. climate
change, deforestation, pollution, ocean acidification). This paradox suggests that there has been a decrease in people’s knowledge of the wildlife and natural environments they wish to save (Moss, 2012).

### 2.1.3 Access to Nature

According to a two-year study by the English government, more than 1 in 9 children had not set foot in a park, forest beach or other natural environment in at least 12 months. While 74% of youth (under 16 years old) from white households visited a natural environment once per week, just 56% of youth from BAME households (black, Asian, and minority ethnic) did. The decline in children’s access to nature is mainly due to changes in geography, national parenting styles, and conflicting interests of children due to new technologies.

#### Geography

As of 2008, for the first time in human history, more people live in cities than in the countryside (Howard, 2013). Because cities are highly developed environments with comparatively little greenspace, children have fewer opportunities to interact with nature. For example, in Massachusetts there is little green space around and between the state’s major cities: Boston, Cambridge, Worcester, Lawrence and Lowell (Figure 1). Nationally, the Nature Conservancy has found that 61% of children (ages 13 to 18) report that there aren’t any natural areas near their home. Even if there are, 62% of children say they do not have transportation to these natural areas. While the term ‘near’ may seem to represent a fixed distance, it has changed as the radius of activity (the area around the home that children are allowed to roam unsupervised) has shrunk. What may have once been considered near, is now far and what once did not need parental supervision or transportation to get to, now does.

In merely one generation, since the 1970s, the radius of activity has decreased almost 90% (Moss, 2012). A smaller radius of activity means that even there are ‘local patches of nature’ nearby, children cannot use them. A generation ago 50% of children both regularly used their ‘local patch of nature’ and played in wild places. Today, fewer than 25% of children regularly use their ‘patch of nature, and fewer than 10% play in wild places (Moss, 2012).
Parenting Styles

As previously mentioned, a 2011 UNICEF study of childhood in the United Kingdom, Spain and Sweden found that:

*Children in all three countries told researchers that their happiness is dependent on having time with a stable family and plenty of things to do, especially outdoors, rather than on owning technology or branded clothes* (Moss, 2012, p.10)

This was later supported by a Nature Conservancy study in which 66% of youth reported having had a personal experience in nature. These youths were twice as likely to say that they preferred spending time outdoors (Nature Conservancy, 2011). Despite this, parents say the feel “tremendous pressure from society to buy material goods” (Moss, 2012, p.10). Thus, due to societal peer pressure there seems to be a disconnect between what children desire and what parents think they need to provide. Although not initially desired, once children have televisions, video games, et cetera, they are likely to become drawn away from the outdoors by them.

Due to societal peer pressure parents today prioritize school, music lessons and athletics for their children. This leads to a busy daily schedule allowing for little time in which their children may play outside. Compounding, parents are less likely to see visiting nature as important as school and other extracurricular, thus they feel less inclined to bring their children to greenspaces (Barkham, 2016).

In 1971, 80% of children 7-8 years old walked to school, often alone or with friends. By the 1990s fewer than 10% of children did, and if so, it was almost always with their parents. Today we live in an age where concerned parents have called the police if they see a child walking alone. This can also be attributed to societal peer pressure enforcing a mindset of overprotection and “stranger danger” on parents. Richard Louv, author of *The last Child in the Woods*, argues that this makes parents fearful of letting children go outside alone (Howard, 2013).

Children’s reduced access to nature, due to changing parenting styles, is subject to continue declining. In households where the adults frequent nature, 82% of the children do, too. In households where adults rarely or never visit nature, only 39% of the children do (Barkham, 2016). One might argue that children may develop the habit of visiting nature later in life, but research shows that children who don’t connect with nature before the age of 12 are less likely as adults to connect with nature (Moss, 2012). So, as fewer children today gain exposure to nature, their children are even less likely to in the next generation; it is a compounding affect over generations.

Conflicting interests

In a 1991 study, adults were asked to name the most significant place from their childhood; they consistently named an outdoor place (Nancy, 2000). In those days, adults punished their children
by sending them to their room. Now, however, children retreat to their rooms willingly, drawn by television, electronic video games, social media, and other technologies. As a result, in 2010 children spent an average of 53 hours per week using electronic devices (USA Today, 2010). In the United States in 2011, most children used the computer, television or played video games daily, while fewer than 10% spent any time outdoors daily. To put this into perspective, the “UN guidelines for prisoners require ‘at least one hour of suitable exercise in the open air daily’” (Carrington, 2016). As it is, children nationally are spending less time outdoors than prison inmates.

2.2. Movement to Get Kids Back into Nature

This section presents a brief history of the movement to get children back into nature. First, the section discusses the book *The Last Child in the Woods*, by Richard Louv, which is credited with kicking off the movement. The section concludes by covering the No Child Left Inside movement, including some of its successes in policy change.

2.2.1 The Last Child in the Woods

*The Last Child in the Woods*, by Richard Louv is largely credited with kicking off the movement to get children back into nature. This was the first book to document decreased exposure amongst children in the United States to nature, and how this deficit harms them. Analyzing research, he concludes that direct exposure to nature is essential for healthy childhood development and for the physical and emotional health of both children and adults. After consistently hearing from adults that nature-deficit disorder applied to them, too, he wrote another book called *The Nature Principle*, extending the idea of nature-deficit to adults. Louv also coined the term “nature-deficit disorder”. In his words, it is defined as:

> the loss of connection children increasingly feel with the natural world [...] it is not a clinically recognized condition [...] but rather a a term to evoke a loss of communion with other living things.” It affects “health, spiritual well-being, and many other areas, including [people’s] ability to feel ultimately alive (Howard, 2013, p.1).

As problem-centered literature should, Louv also suggest solutions to the problems he describes.

The book received wide, positive reception and was listed on the New York Times best seller list for paper nonfiction. It also received the Audubon Medal for “sounding the alarm about health and societal costs of children’s isolation from the natural world—and for sparking a growing movement to remedy the problem” (Timm, 2008, p.1). Sally Jewell, the former head of REI, even took an REI daypack filled with copies of the book to the White House and handed them out to the President and staff.
The success of the book inspired Louv to co-found and chair the Children & Nature Network, whose goal is to encourage and support people and organizations working to reconnect children with nature. The movement has since expanded globally; nature preschools are taking off, policies are being lobbied, and awareness is spreading. According to Louv the movement has spread so quickly because no “matter what someone’s politics or religion is, they want to tell [him] about the treehouse they had as a kid” (Howard, 2013, p.1). Essentially, “nobody wants to be in the last generation where it’s considered normal for kids to go outdoors” (Howard, 2013, p.1).

2.2.2 No Child Left Inside

The No Child Left Inside movement in the United States seeks to promote environmental education through promotion and funding. The specific goal of the organization is to enhance environmental literacy, as well as encourage understanding, analysis and problem solving to environmental challenges between kindergarten and the 12th grade. The movement was largely started in response to the book The Last Child in the Woods. Because of the movement, in 2013 there were 112 regional, provincial or state campaigns in the United States and Canada to get more children outdoors (Howard, 2013). States such as Colorado, Connecticut, New Mexico, Washington, California, Illinois, Massachusetts and Wisconsin have endorsed the movement and established programs in local parks and schools to help reconnect children with nature. The No Child Left Inside Coalition includes more than 2,200 local, regional and national organizations, including: Sierra Club, the National Audubon Society, the National Wildlife Federation, the National Science Teachers Association, the National Education Association, and hundreds of colleges, universities, businesses, zoos, museums, arboretums, botanical gardens, and health care organizations (Jacobs, 2015).

In 2008, the No Child Left Inside Act (NCLI) was passed by the House of Representatives but was never voted on by the Senate because it was referred to the Senate Committee on Health, Education, Labor and Pensions. Then in 2009 it was referred to the Subcommittee on Early Childhood, Elementary, and Secondary Education. It was also reintroduced to the House in 2009 but was referred to the House Committee on Education and Labor. In 2015 Congressmen John Sarbanes and Mike Fitzpatrick reintroduced the NCLI to both the Senate and House as an amendment to the Elementary and Secondary Education Act of 1965. The act would require states to develop environmental literacy plans for K-12. To receive implementation grants, states would have to pass environmental education standards and teacher training prerequisites. The law was backed by 50 million citizens (of all geographical and political backgrounds) and the No Child Left Inside Coalition. Provisions of NCLI were also contained in the Every Student Succeeds Act, which was signed by President Obama on
December 10, 2015.

2.4 Non-Profit Funding Models

This chapter begins by introducing the various funding models that are commonly used in the non-profit sector. In the for-profit sector the beneficiary is the funder (the customer receives ‘x’ by paying ‘y’); In the non-profit sector this is not necessarily true. As such, non-profits operate using funding models, not business models. While a business model evaluates the cost structure and value proposition to the beneficiary, a funding model focuses only on the funding, not on the programs and services offered. Each funding model relies on a different combination of revenue sources. The chapter will then discuss donations, breaking it apart into the revenue streams it encompasses. The chapter will conclude by presenting trends in donations in the United States.

2.3.1 Funding Models

Although there are countless ways for non-profit organizations to generate income, the most common revenue sources are listed in Table 2.

<table>
<thead>
<tr>
<th>Gifts</th>
<th>Non-Profit Generated</th>
</tr>
</thead>
<tbody>
<tr>
<td>Annual or Sustained Gifts</td>
<td>Earned Income Activities</td>
</tr>
<tr>
<td>Major Gifts</td>
<td>Unrelated Business Income</td>
</tr>
<tr>
<td>Planned Gifts</td>
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</tr>
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</table>

<table>
<thead>
<tr>
<th>Donations</th>
<th>Government</th>
</tr>
</thead>
<tbody>
<tr>
<td>Corporate Giving Programs</td>
<td>Federated Funds</td>
</tr>
<tr>
<td>Cause-Related Marketing</td>
<td>State and Local Municipalities</td>
</tr>
<tr>
<td>In-Kind Donations</td>
<td></td>
</tr>
<tr>
<td>Online Donations</td>
<td></td>
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<tr>
<td>Benefit Events</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Grants</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>Foundation Grants</td>
<td>Churches and Denominations</td>
</tr>
<tr>
<td></td>
<td>Supporting Organizations</td>
</tr>
</tbody>
</table>

Table 2 – The 15 Most Common Revenue Sources
(Strengthening Nonprofits, 2018)

Each revenue source has a different opportunity cost (what is sacrificed to acquire income from said revenue source). Costs include time, physical resources, money, and labor.
Although each, ideally, increases a non-profit's bottom line, some may have a higher return than others (like return on investment). Returns are best measured in money gained from said revenue source divided by the cost to acquire it. The success of different revenue streams depends on the non-profit’s sector, resources, staff, actives, and mission (Strengthening Nonprofits, 2018).

While there are countless combinations of revenue sources, a study from Stanford University (2009) identified 10 non-profit models commonly used by the largest non-profits in the United States. These models are not meant to prescribe a single approach for a funding model; they are meant to guide non-profit leaders in designing the funding model they believe could best support their organization’s growth. These models are also meant to aid leaders in easily communicating and comparing their organization’s strategy and model, like existing terminology in the for-profit sector (i.e. the “low-cost provider” strategy, the “fast follower” strategy, the “razor and the razor blade” model) (Foster, 2009). A breakdown of the 10 funding models by dominant type of funder is provided in Table 3. Specific information on each model can be found in Appendix A.

<table>
<thead>
<tr>
<th>Heartfelt Connector</th>
<th>Many Individual Donors</th>
<th>Single or Few Donors</th>
<th>Government</th>
<th>Corporate Funding</th>
<th>Mix</th>
</tr>
</thead>
<tbody>
<tr>
<td>Beneficiary Builder</td>
<td>x</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Member Motivator</td>
<td></td>
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<td></td>
<td></td>
<td>x</td>
</tr>
<tr>
<td>Big Bettor</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>x</td>
</tr>
<tr>
<td>Public Provider</td>
<td>x</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Policy Innovator</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Beneficiary Broker</td>
<td></td>
<td></td>
<td>x</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Resource Recycler</td>
<td>x</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Market Maker</td>
<td></td>
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<td></td>
<td></td>
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<tr>
<td>Local Nationalizer</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>x</td>
</tr>
</tbody>
</table>

Table 3 – The 10 Founding Models by Funder Type (Foster, 2009)

As seen in Table 3, most large non-profits in the United States primarily rely on funding from many individual donors, the government, or a mix, rather than from a few donors or corporations. This suggests that within the non-profit funding sector, the markets for smaller donations from many individuals and government funding are much larger than other sources’ markets. So, if a non-profit requires $1,000,000 in annual donations, they are more likely to acquire it from these sources since that sum represents a smaller market share. Conversely, if the total market for the funding source is only five million dollars, it is far less realistic for the non-profit to acquire the required one million dollars. The market size of various types of funding is important to consider when designing a new non-profit. That said, the appropriate funding model largely depends on the non-profit’s sector (healthcare, environmental,
education, et cetera) and activities (as outlined in Appendix A).

### 2.3.2 Donations

Donations can be lumped into four broad sources: corporate giving, foundation giving, individual giving and bequest giving—it is assumed that cause-related marketing can be lumped under corporate giving; in-kind donations are part of both corporate and individual giving; and online donations and benefit events are part of individual giving. Bequest giving is similar to individual giving, except that donation occurs upon the individual’s death.

In 2017 a record $410.02 billion was donated to charities in the United States (Figure 2), according to Giving USA. Donations through digital channels grew by 27% in 2017, up from 15% in 2016 (Bugeaud, 2018).

Corporate giving and foundation giving, and their specifics, were previously discussed in the *Turn Back Time | Fundraising – Corporate Giving Sponsorship* report by MBA students at Clark University. In summary of their report, corporate and foundation giving involves identifying organizations that have charitable inclinations, and whose values, goals and mission align with those of your non-profit. Then, you develop a relationship with them to either acquire a one-time donation or reoccurring donations.

While bequest giving is important, accounting for $35.7 billion in 2017 (Figure 2), it is a less practical source for smaller, younger non-profits. Generally, bequest giving necessitates developing a strong, long-term relationship with an individual donor. As bequest giving only occurs at the death of the individual and a non-profit has a limited number of long-term donors, this type of donation does not occur often. As such, it is not practical for small, young non-profits to rely upon this source.

### Individual Giving

Individual giving accounted for 70% of total giving in the United States in 2017 (Figure 2). Historically, it also accounts for most of the growth in total giving (58% of growth between 2013 and 2014) (The EveryAction Team, 2018). Individual giving includes many individual donors,
each contributing a small amount, and few donors, each contributing a large amount. While different funding models rely on these two groups to a varying degree, both individual donor types are initially acquired and retained in much the same way: online media and benefit events. Overall, of those who donated to a nonprofit in 2016, 38% did so again in 2017. For small non-profits, 29% of new donors and 55% of reoccurring donors gave again in 2017 (Bugeaud, 2018). Thus, much of a non-profit’s marketing budget goes towards acquiring new donors and converting new donors into reoccurring donors. To acquire a new donor, the donor must first learn of the organization; to convert a new donor into a reoccurring donor, the donor must be reminded of the organization and see evidence of work it is doing.

Online Media: Many people first learn of a non-profit through digital advertisements. Small non-profits reported a 94% increase in total digital advertisement spending in 2017. Of that budget, 55% went towards social media advertising; the remainder went towards banner and search ads (Bugeaud, 2018). As with for-profit companies, nonprofits run various advertisements, each with different goals (i.e. acquiring donors/customers, lead generation, branding, awareness, publicizing an important business update, et cetera). In 2017, the breakdown of the average non-profit’s advertisements by goal were:

- 66% on direct fundraising and attracting new donors. This included: retargeting visitors who abandoned donation pages, promoting emergency-response pages, and sending fundraising posts to the organization’s own followers on social media.
- 25% on lead generation. This included engaging people to act by: signing petitions, sending letters to lawmakers, taking quizzes, signing up for newsletters, or some other form of action.
- 5-10% on branding, awareness or educational ads. To gain awareness and donors, small non-profits tend to devote around 35% to this, rather than 5-10%.

Traditionally, the first place a community member may interact with a non-profit is on their website. According to M+R Benchmarks’ 2018 report, which analyzed 154 non-profit organizations, 1% of non-profit website visitors joined an email list and 1.1% completed a donation in 2017 (up 18% from 2016). On average, $1.13 was raised per website visitor. Because desktop donations are larger, when compared to mobile, they account for 68% of website donations and 76% of website revenue. That said, the number of website visitors from mobile devices is rising ~5x faster than for desktop. As a result, mobile traffic is expected to soon exceed desktop traffic (Figure 3). So in order to stay current, non-profits need to make sure their websites are mobile friendly.

An important consideration is that slow website loading times will drive away visitors and donors, hurting the non-profit’s bottom line. One-half of web users expect the page to load in 2
seconds or less. A 1 second delay can lead to 11% fewer people visiting the website and many fewer donors. This applies to both a non-profit’s homepage and donation page. Overall, in 2017 non-profit homepages took 3.181 seconds and donation pages took 2.816 seconds to load (Figures 4 & 5 list load speed by non-profit size) (Bugeaud, 2018). As such, it is vital that non-profit websites load quickly so that they don’t lose visitors and potential donors.

![Figure 4 – Homepage Load Speed (Bugeaud, 2018)](image1)

![Figure 5 – Donation Page Load Speed (Bugeaud, 2018)](image2)

Email lists are also a traditional means for non-profits to interact with donors and interested community members. Email revenue grew by 24% in 2017, accounting for 28% of all online giving. Despite this positive trend, there is some concern about email lists. In 2017, email fundraising message response rates dropped to 0.06%. For the 154 non-profits analyzed, per 1,000 messages sent, the non-profits raised $42 on average (Bugeaud, 2018). Because most emails are now opened on a smartphone or tablet than a computer, it is important to make sure emails are mobile friendly. Some non-profits have done so by integrating a payment button directly into the email for easy donating (Horsley, 2016). So, while email lists do work well, non-profits should diversify their online outreach with social media and digital advertisements, and make donating as easy as possible.

To reiterate, email lists grew 11% in 2017. Comparatively, followers on Facebook grew by 13%, Twitter by 15% and Instagram by 44%. Mobile messaging lists grew by 35%. While the total number of followers/mobile subscribers may be smaller than for email lists (i.e. 84 mobile subscribers, 474 Facebook followers, 186 Twitter followers, and 41 Instagram followers per 1,000 email subscribers), the high growth in social media and mobile messaging should not be ignored (Bugeaud, 2018). It is important to note that social media outreach, compared to email lists, is likely to become even more important for coming generations. Some non-profits have found ways to accept donations directly through Instagram, Facebook and Snapchat (Horsley, 2016). When designing one’s social media ad campaign, one should consider that posts will have the greatest engagement if they are video (compared to photos and links) and are posted on Thursdays and Fridays (as opposed to the weekend).
Overall, the most important aspect of online promotion, no matter the channel (email lists, social media, etc.), is for a non-profit to humanize their story. This is done through storytelling: connecting with the emotions that help drive donor engagement and ongoing support. Beyond text, images and videos, innovative ways to do this include live streaming video and user generated content (Horsley, 2016). It just so happens that both these mediums lend themselves best to social media.

**Benefit Events:** Benefit events are a gathering, activity or some other special event that engages existing donors and the outside community with the goal of receiving more donations and growing its donor pool. The non-profit may also use a benefit event to grow its email list and social media following. While the general concept is self-explanatory, there are a few ways non-profits can “hype up” these events.

First, they should allow for some mystery in event promotions. While promotions should provide the necessary information (date, time, and location) and some idea of what to expect, they should not reveal all the details. This creates a sense of intrigue that will draw in the community. At the event itself, there should be something attendees can take pictures with (i.e. silly hats, a scene with props, Snapchat stickers, Instagram hashtags). Posts by attendees will help increase awareness in the community (of both the event and the non-profit), as well as traffic to the event. Pictures can also be later used for future promotions and validation (Hrabik, 2014).

Another creative solution to having more effective benefit events is to have one “super event” per year, rather than several smaller, spread-out events. A non-profit might partner with restaurants to host several benefit nights on the same night, or, have some sort of mini festival. Compared to individual events, super events attract greater publicity. This gets more people interested and coming out. Hosts, such as restaurants, are generally more willing to do super events because they stand to make more money from the larger crowds. Finally, because super events only happen once per year, the total time and resources invested are fewer than with several, smaller events. It also means fewer full-time event staff are needed (Garecht, 2018).

### 2.4 Turn Back Time

This chapter introduces the project sponsor, Turn Back Time. The section will begin by discussing the organization’s history, principle activities and mission to provide context to their current issue. After discussing past projects completed by students at Clark University and Worcester Polytechnic Institute, the section will discuss the organization’s current financial model. This provides the context for their issue: the current lack of a sustainable financial model.
2.4.1 Overview

Turn Back Time (TBT) is a non-profit organization based on a 58-acre homestead in Paxton, Massachusetts. The organization was established in 2011 by the Burris family with the mission of improving the lives of children through nature exploration, farm education and outdoor play. Services offered include farm and nature-focused preschool, trips for homeschooled students, after school sessions, and a multi-week, day, summer camp program.

2.3.2 Past Projects

In 2016 MBA students from Clark University researched corporate sponsorship fundraising options for TBT. Other potential revenue streams investigated were fundraising events, small and large donor groups, and activities outside normal businesses operations (Brytan, 2016). In 2018 students from Worcester Polytechnic Institute, led by adviser Lisa Stoddard, worked with TBT to research, develop, build and assess active outdoor learning stations. These stations were to be play-based to help teach STEM (science, technology, engineering and math) concepts to children with exceptional needs (Bonomo, 2018). Another project, also advised by Lisa Stoddard, helped design and install a rainwater collection system on TBT’s new barn for watering the adjacent garden.

2.4.3 Financial Model

Turn Back Time’s revenue stream is predominantly dependent on two sources: earned income activities and donations. The organization currently offers 6 programs. The programs and their associated prices are provided in Table 4.

<table>
<thead>
<tr>
<th>Summer Programs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Basic Camp ........................................... $150/week</td>
</tr>
<tr>
<td>Early morning drop-off ................................ $25/week</td>
</tr>
<tr>
<td>Extended Day .......................................... $75/week</td>
</tr>
<tr>
<td>Afternoon Farm Fun .................................... $125/week</td>
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<table>
<thead>
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</thead>
<tbody>
<tr>
<td>7-Week Program .......................................... $70</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Year-Long Pre-school Programs</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Day .................................................... $1,450</td>
</tr>
<tr>
<td>2 Days ................................................... $2,400</td>
</tr>
<tr>
<td>3 Days ................................................... $3,100</td>
</tr>
<tr>
<td>4 Days ................................................... $3,800</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Birthday Parties</th>
</tr>
</thead>
</table>
Donations primarily come from the parents of the children attending TBT, the local community, and the founding family. Donations from the community have not just been monetary, but labor-based as well. Recently, several contractors aided in the construction of TBT’s new barn at a reduced or free price. TBT commemorated these three individuals by having their children name the organization’s three mini goats. The founding family has donated much money over the years for the continued operation of the organization—including withdrawing from their retirement savings to fund the construction of the new barn. They have also worked overtime to see TBT succeed, forgoing fair compensation for their work.

The organization’s 2017 income statement may be seen Appendix B. At year’s end they had had a net income of ~$25,500, including donations for the construction of the new barn. Excluding barn donations, they operated at a ~$2,500 loss. Excluding barn donations, much of the revenue came from the Summer Camp program (40% of total) and Preschool program (36% of total). The Homeschool, Field trips, Birthday Parties, Mini camps, Festivals, Farming Activities, Family Farm Time, and School Age programs combined accounted for 19% of total revenue. Cash Donations were 5% of total.

In 2017 total expenses were ~$91,500. Breaking down the expenses, 58.5% were for payroll and 41.5% were for ‘other’ (i.e. camp supplies, advertising, animal feed and care). For TBT to attain financial sustainability the Director’s wage must be attractive enough to hire a replacement upon Lisa Burris’ retirement or reduced role. Currently the Director’s wage is $19,200. Speaking with Lisa, TBT’s Board of Directors has a set a goal of increasing the wage to $30,000 per year within the next few years.
3.0 Methodology

The original purpose of this project was to design an annual benefit event to help Turn Back Time achieve financial sustainability. After conducting the background research, I determined that a more encompassing analysis of TBT’s income, expenses and operations would be more useful to the organization. While designing a fundraising event would help the organization, TBT must do more than simply boost donations if they wish to achieve financial sustainability. As such, my analysis considered their revenue from provided services, working up to donations. While donations are important in the non-profit sector, Bill McAvoy, the vice-president of university advancement at Worcester Polytechnic Institute-whom I interviewed for this paper-, suggested that organizations should not become donation or grant reliant, otherwise they will be extremely vulnerable lest a key donation or grant is not received. Furthermore, business income accounts for a larger portion of non-profit revenue. In 2010, income from business related activities (called private sources: fees and services in Figure 6) were 45% of non-profit revenue nationally. Revenue from contributions (donations) and grants was only 20% of national revenue (Figure 6).

The specific breakdown of the percent of revenue per source within ‘private sources’ was:

- 74% from individuals
- 13% from corporations
- 8% from bequests
- 5% from corporations

(Paul Clarke Nonprofit Resource Center, 2010)

Comparing both this data and the funding models from Table 4, my opinion is that TBT would have more success by focusing on their related and unrelated business income and individual donors. While the report by the MBA students from Clark University was useful, in comparing national statistics, TBT’s activities and mission, and the funding models, I do not see corporate or foundation donations as a viable primary source of income for the organization. While government grants and foundation grants should not be ignored, they should be supplementary income. Specifically, I would classify Turn Back Time as a Heartfelt Connector (Appendix A). As a Heartfelt Connector, Turn Back Time should prioritize business related income and expenses, and then increase donations to achieve sustainable financial success. The methodology, results and discussion of this project will be broken into three main parts: run, grow, and transform.

Run highlights incremental improvements of existing systems, thus it is more operational in nature. Grow presents growth opportunities by introducing new systems and programs. As such, it is innovative and more resource intensive in nature. Transform discusses ways to take TBT
from its current “startup-like” stage to becoming an established, mature organization; to grow up. As such, these three sections are meant to provide a holistic view of TBT’s current position and their importance to the organization’s success.

3.1 Run

The first step to financial sustainability is to ensure that the organization operates smoothly and profitably on a day to day basis. It is analogous to the responsibilities held by the Chief Operating Officer in a for-profit business. In terms of innovation, it can be classified as incremental innovation; efficiency is of primary importance. In this analysis ‘Run’ will look at:

- minimizing expenses
- pricing of their services
- web-page loading speed
- design and content of their website
- donation structure
- targeted promoting for donations

Minimizing Expenses

If TBT is able to reduce their annual expenses, they will inherently boost their bottom line and require less income/fewer donations to break even. Savings from reducing expenses may be reassigned to increasing salaries or hiring additional talent.

TBT’s past financial records are broken down by category, making it possible to determine what areas are the most costly and, thus, which would have the largest impact on the organization’s bottom line if they were reduced. As such, I identified expenses could be reduced by switching to a different service provider or seeking specific donations from specific organizations.

Pricing of their Services

As stressed by Bill McAvoy, a non-profit must break even from their business-related income. If they are reliant on donations or grants, then they are at risk for failure if a key donation or grant is not received. As such, I compared TBT’s pricing for its programs to at least 20 organizations across the country with similar program offerings. Specifically, I calculated the price per hour of the different programs each organization offers (divide the program price by the number of days it lasts, then by the number of hours per day). Tabulating this data in Excel, I then calculated the mean price per hour that organizations in this industry charge for their services. This is a fair comparison because it shows how much money the organization earns per hour of work—
essentially, what one hour of their time is worth. This information is useful for determining how TBT compares to other nature programs. I included data for 22 nature programs (TBT included).

I also compared program prices to the average median household income for householders 25-44 years old for the local and surrounding counties and towns of each organization (using Income By Zipcode which pulls data from the US Census Bureau and American Community Survey). This approach makes sense because these programs receive campers not just from the local town, but from surrounding towns and the rest of the county. Conducting a regression model, I was able to determine if the prices charged correlated to the wealth of the parents whose children attend the programs. To control for potential price differences by state, a few of the selected organizations are located in Massachusetts.

**Web-Page Loading Speeds**

As covered in section 2.2.3 *Donations*, how quickly a non-profit’s webpage loads may affect the number of site visitors and, thus, donors. First, I used tools that measure loading speed (i.e., Pingdom and WebPageTest) to compare across each of the organizations from the price comparison. These tools also provided recommendations on how to improve a web page’s load speed. Then, I attempted to extrapolate how many visitors TBT is losing due to loading speed and how that may be impacting online donations.

**Design and Content of their Website**

A website’s design and content can have an enormous effect on a visitor’s understanding, perception and willingness to donate to an organization. The website is oftentimes the first place a newcomer will interact with an organization, thus it is critical to hook them quickly. They should be able to easily identify who you are and what you do, find evidence of your past success (to provide legitimacy) and learn how they can help. While I attempted to provide an unbiased analysis of TBT’s website, website design is inherently a personal experience.

**Donation Structure**

When asked if there are any notable, current trends with respect to donating, Bill McAvoy mentioned that, nationally, donors are no longer interested in general giving (letting the non-profit decide where to allocate a donation); they want specific donations (where the donor chooses what the money is used for). Taking this into account, I compared this national trend to TBT’s current donation structure.
Targeted Promoting for Individual Donors

Another of Bill’s recommendations was to use income by zip code data (from the US Census Bureau, American Community Survey and IRS tax records) to determine which local addresses would be the best to mail invites to a fundraiser event and/or ask for a donation. Among the data sets provided by the IRS, only in 2016 was there a column for both the total number of tax filings (which may represent an individual, family or household) that recorded having donated in that year, and the total amount that was donated. This data was broken down both by zip code and income bracket. Using this data I determined which zip codes around TBT would be the most worthwhile to target.

3.2 Grow

While operating efficiently is important, an organization cannot simply maintain status quo without the risk of being surpassed or forgotten in today’s fast-paced world. An organization must also consider growth for continued financial success. In the case of for-profit enterprises, they must introduce new products and services to keep their customers interested to grow market share. While non-profits are not competing for market share, they are competing for donation dollars, community interest (for donations and support) and attention. In this analysis ‘Grow’ looked at:
- grant writing
- new programs
- fundraiser event
- membership system

Grant Writing

While grant writing is not the primary income source of a Heartfelt Connector, according to Bill, grants can provide a fantastic supplementary income and should not be discounted.

New Programs

While conducting the program price comparison, I came across programs offered by the other organizations that TBT does not. Some of these programs may be interesting to TBT to help diversify and update their offerings. The programs may also help TBT target different demographics, increasing their customer base and business-related income.

While TBT could develop their existing programs, which may attract more students, it would not diversify their consumer base. The impact of developing existing programs versus developing
new programs was not studied in this analysis and remains as an important question for the organization to consider.

**Fundraiser Event**

Drawing upon online resources, recommendations from those who have run similar events, and my own experiences, I offered ideas for a potential fundraiser event. This event could be run annually to garner publicity, recognize board members and significant donors, grow the email alias, and gather donations.

**Membership Program**

Another of Bill’s recommendations for non-profits like TBT is to consider offering a membership that provides certain benefits. I provided insight as to what the membership fees are at the similar organizations, and what benefits they offer.

**3.3 Transform**

Now that the organization is operating efficiently and attracting donor and community interest with new programs, it must ensure it has strong foundations to succeed during both the good and bad times. ‘Transform’ refers to the idea of maturing from a ‘start-up-like’ non-profit, to an established one that will stand the test of time. Strong foundations can be broken into two categories: talent and monetary fall back. Talent means the organization has the necessary personnel to implement and run the programs from the Run and Grow phases. Monetary fall back refers to having a safety net in case revenue falls short one year or large, unexpected costs arise. In this analysis ‘Transform’ looked at:

- developing an endowment fund
- supplementing the current director role with a second officer

**Endowment Fund**

As suggested by both online sources and Bill, establishing an endowment fund is critical to the long-term success and maturing of a non-profit. I investigated both the benefits of having an endowment and how TBT might go about starting one.
Supplementing the Current Director Role

For-profit enterprises operate with one externally facing officer (the CEO) and one internally facing one (the COO). Having these two roles ensures that the organization can maintain both internal and external excellence and growth. In the case of large, established non-profits, this externally facing director is called the Fundraising Director. They are responsible for communicating with potential and current donors (individuals, corporations and foundations), planning fundraiser events, managing the website (which is externally facing), and applying for grants. Bill spoke about this duality at length in our interview. I investigated potential responsibilities for this new director, as well as how the new roles might impact the organization financially.
4.0 Results & Discussion

4.1 Run

Minimizing Expenses

In 2017 Turn Back Time lost ~$2,300 to PayPal fees (Appendix B). This expense primarily consists of transaction fees (2.9% + 30¢), an add-on feature that allows them to charge cards from the website ($30/month) and advanced fraud protection ($10/month). PayPal also charges a 3.5% transaction fee for American Express card users. While one of their competitors, Stripe, has the same transaction fee, charging cards on a website and advanced fraud protection are free. Stripe does not charge any additional rate for American Express. Also, recurring billing is free with Stripe, whereas for PayPal it’s $10/month. Alternatively, Skrill, another competitor, has a transaction fee of only 1-2.9%. Thus, by switching to Stripe or Skrill, TBT could save at least $500 annually on reoccurring monthly fees alone. If TBT decides to switch to Stripe, they should hire a website developer to integrate it into the website. Part of the reason Stripe’s fees are lower is because it counts on developers to do some of the integration themselves.

In 2017 TBT spent $550 on garden supplies and $2,870 on repair and maintenance. The organization may wish to approach Home Depot, Lowes or a similar hardware store about donating supplies. Similarly, to reduce the expense of animal feed and care, which was ~$8,300 in 2017, TBT could approach the Leicester Agway or a similar business for donations of feed. Agway carries both animal feed and lawn/garden care supplies. Any donation would temporarily help reduce these costs.

As the fundraising maxim goes, “ask for money, you’ll get advice. Ask for advice, you’ll get money” (Koenig, 2019, p.1). When TBT approaches a corporation for donations, they may want to first ask for advice instead. For example, rather than asking for a donation of animal feed, TBT could ask the manager for advice on cheaper, alternative feed types or how to use the feed more efficiently to reduce expense. By asking for advice the manager is made to feel valued and important. Prior to making the Ask, however, TBT should first research the manager. “We don’t convince donors. We help them realize that they already care” (Koenig, 2019, p.1). Developing targeted questions and learning about the manager makes it easier to relate TBT’s mission and issues to things that the manager already cares about. It is important in this conversation to use silence as a tool. For example:

"Fundraiser: “What’s the most important thing about the environment to you?”
Donor: “Well, I think the environmental damage is a pretty big problem. We’re hurting the environment forever and we don’t even realize it!”
Fundraiser: “How interesting” [shuts up and looks genuinely interested]
Donor: [feels like they should keep talking because of the silence] “… yeah! It’s really crazy. In fact, the other day I was thinking about when I was a kid and would go out and look as the
stars in the country and see meteors and all kinds of awesome stuff. But now that the city is so big, and there’s so much light pollution and smog, when I go out with MY kids to our cabin we’re lucky to see anything. It’s so sad.”

(Koenig, 2019, p.1)

Finally, the Ask should be well rehearsed, interesting (unlike plain, bullet point slides), unambiguous and specific. This includes identifying a specific amount that TBT requests be contributed to the cause. If the Ask comes as surprise to the prospect, then something is amiss (Koenig, 2019).

Pricing of their Services

Table 5 shows the price (per hour) of programs offered at 22 nature-oriented organizations like Turn Back Time. These calculations do not factor in add-on packages or taxes. Data is 2017 inflation-adjusted. I took the average of the median income for both the county and town(s) where the nature camp is located.
<table>
<thead>
<tr>
<th>Organization</th>
<th>Summer Camp ($/hr)</th>
<th>After-School ($/hr)</th>
<th>Homeschool ($/hr)</th>
<th>Preschool ($/hr)</th>
<th>Birthday Parties ($/hr)</th>
<th>Averaged county &amp; city Median HH Income for Householder 25-44 y/o</th>
<th>State</th>
</tr>
</thead>
<tbody>
<tr>
<td>Turn Back Time</td>
<td>$8</td>
<td>$7</td>
<td>$7</td>
<td>$93</td>
<td>$112,172</td>
<td>$173,424</td>
<td>MA</td>
</tr>
<tr>
<td>Elm Fork Education Center</td>
<td>$7</td>
<td></td>
<td>$7</td>
<td>$93</td>
<td></td>
<td></td>
<td>TX</td>
</tr>
<tr>
<td>New Canaan Nature Center</td>
<td>$12</td>
<td></td>
<td>$9</td>
<td>$340</td>
<td>$152,493</td>
<td></td>
<td>CT</td>
</tr>
<tr>
<td>Chip-In Farm</td>
<td>$12</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>MA</td>
</tr>
<tr>
<td>South Shore Natural Science Center</td>
<td>$17</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>MA</td>
</tr>
<tr>
<td>Bushy Hill Nature Center</td>
<td>$9</td>
<td>$9</td>
<td></td>
<td>$87</td>
<td>$106,264</td>
<td></td>
<td>CT</td>
</tr>
<tr>
<td>Environmental Nature Center</td>
<td></td>
<td>$11</td>
<td>$254</td>
<td></td>
<td>$99,874</td>
<td></td>
<td>WA</td>
</tr>
<tr>
<td>Pratt Nature Center</td>
<td>$12</td>
<td></td>
<td></td>
<td>$88</td>
<td>$99,388</td>
<td></td>
<td>CT</td>
</tr>
<tr>
<td>Nature Camp</td>
<td>$22</td>
<td></td>
<td></td>
<td></td>
<td>$98,777</td>
<td></td>
<td>CA</td>
</tr>
<tr>
<td>Fiddleheads Forest School</td>
<td>$10</td>
<td></td>
<td>$10</td>
<td></td>
<td>$95,561</td>
<td></td>
<td>MA</td>
</tr>
<tr>
<td>Nature Kids Preschool</td>
<td></td>
<td></td>
<td></td>
<td>$9</td>
<td>$92,034</td>
<td></td>
<td>WA</td>
</tr>
<tr>
<td>Matthews Beach Playschool</td>
<td></td>
<td>$9</td>
<td></td>
<td></td>
<td>$92,034</td>
<td></td>
<td>WA</td>
</tr>
<tr>
<td>Bob Jones Nature Center</td>
<td>$9</td>
<td>$13</td>
<td>$12</td>
<td>$100</td>
<td>$78,524</td>
<td></td>
<td>MD</td>
</tr>
<tr>
<td>Aldo Leopold Nature Center</td>
<td>$4</td>
<td>$5</td>
<td>$6</td>
<td>$7</td>
<td>$80</td>
<td>$72,147</td>
<td>WI</td>
</tr>
<tr>
<td>Taproot</td>
<td>$8</td>
<td>$5</td>
<td>$16</td>
<td>$10</td>
<td>$66,847</td>
<td></td>
<td>IA</td>
</tr>
<tr>
<td>Blue Heron Nature Preserve</td>
<td>$11</td>
<td>$12</td>
<td>$75</td>
<td></td>
<td>$64,173</td>
<td></td>
<td>GA</td>
</tr>
<tr>
<td>Nature Vision</td>
<td>$9</td>
<td></td>
<td></td>
<td>$14</td>
<td>$63,819</td>
<td></td>
<td>TX</td>
</tr>
<tr>
<td>Houston Audubon</td>
<td>$5</td>
<td>$5</td>
<td></td>
<td></td>
<td>$54,452</td>
<td></td>
<td>TX</td>
</tr>
<tr>
<td>Irvine Nature Camp</td>
<td>$14</td>
<td>$5</td>
<td>$12</td>
<td></td>
<td>$53,994</td>
<td></td>
<td>VA</td>
</tr>
<tr>
<td>Whole Earth Nature School</td>
<td></td>
<td>$6</td>
<td></td>
<td></td>
<td>$48,563</td>
<td></td>
<td>OR</td>
</tr>
<tr>
<td>Whistler Outdoor Learning</td>
<td>$7</td>
<td>$6</td>
<td>$8</td>
<td>$9</td>
<td></td>
<td></td>
<td>British Columbia</td>
</tr>
<tr>
<td>Nature School &amp; Education Center</td>
<td>$5</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Ontario</td>
</tr>
<tr>
<td>Average</td>
<td>$10</td>
<td>$5</td>
<td>$9</td>
<td>$10</td>
<td>$139</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Average without outliers</td>
<td>$9</td>
<td>$8</td>
<td></td>
<td></td>
<td>$111</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Table 5 – Business-Related Income Comparison ($/hr)
In comparing the industry-average price per hour to what Turn Back Time charges for the various programs (excluding outliers; Table 5), both the Summer Camp and Pre-School programs are being undercharged by $1-3 per hour.

To determine if prices varied due to camps being located in areas with more or less wealth, it was necessary to conduct an analysis between the prices charged per hour for the summer camp and pre-school programs, and, the averaged county and city median income where the householder is age 25-44. The Age 25-44 bracket was selected because it is the most likely demographic to have young children that would attend these programs. A regression analysis was selected because it provides a coefficient of determination ($r^2$) which provides information about how well data correlate. A value of 1 or -1 represents strong correlation (100% and -100%); 0 represents no correlation (0%). The coefficient of determination between income to summer camp and preschool prices were 0.5% and 8%, respectively, thus there is relatively little correlation. There was also little relation between pricing and the state the camp is located in. As such, we can conclude that prices across the industry are negligibly affected by where the camps are located or the median income for that region.

While it’s admirable that the organization wants to keep prices low so it is affordable to lower income families, it will do the families no good if TBT fails due to financial unsustainability. Other nature-oriented organizations tend to charge more but offer scholarships/financial aid to those in need. This allows them to increase revenue from those that can afford it and target aid to those who cannot. Some organizations have large grants or donation pools whose specific purpose is for providing financial aid.

In Table 6, the Proposed change per hour is how much more TBT should charge per hour in order to be even with or exceed the industry average by $1/hr. The subsequent columns represent the total change in the cost of the program numerically and as a percentage.

<table>
<thead>
<tr>
<th></th>
<th>Industry price per hour</th>
<th>TBT price per hour</th>
<th>Proposed change per hour</th>
<th>Total change in TBT program cost</th>
<th>Change in TBT program revenue</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>Summer Camp</td>
<td>$9</td>
<td>$8</td>
<td>+$1-2</td>
<td>+$20-40</td>
<td>113-127%</td>
<td></td>
</tr>
<tr>
<td>After-School</td>
<td></td>
<td>$7</td>
<td></td>
<td></td>
<td></td>
<td>Insufficient industry data</td>
</tr>
<tr>
<td>Home-School</td>
<td>$8-9</td>
<td></td>
<td></td>
<td></td>
<td>TBT prices unavailable</td>
<td></td>
</tr>
<tr>
<td>Pre-School</td>
<td>$10</td>
<td>$7</td>
<td>+$3-4</td>
<td>+$480-640</td>
<td>143-157%</td>
<td></td>
</tr>
<tr>
<td>Birthday Parties</td>
<td>$111-139</td>
<td>$93</td>
<td>-</td>
<td></td>
<td></td>
<td>No consistency in industry pricing</td>
</tr>
</tbody>
</table>

Table 6 – Business-Related Income Comparison Analysis
The main takeaway from comparing TBT’s prices to the industry average is that they are undercharging for the summer and pre-school programs; TBT should increase pricing for both to at least match the industry average, if not exceed it by $1 per hour. As with a for-profit organization, TBT should charge as much as needed for its services to operate sustainably, no matter if it’s above industry average. That said, it should not drastically exceed industry average, thus $1 per hour above it represents a reasonable compromise. In conducting this analyses I have concluded that the organization is not financially sustainable for long-term success in its current state.

As the summer camp and pre-school programs are in highest demand and generate the greatest share of total revenue, increasing prices would have an enormous impact on TBT’s bottom line. Depending on what TBT charges for the homeschool program, they may be able to increase those prices as well.

If the organization increased prices, as recommended in Table 6, total revenue would increase by 121-131% and they would become profitable. The exact impact, keeping everything else constant, can be seen in Table 7. This assumes that demand for the programs remains constant despite the price increase. It does not account for scholarships provided to families in need.

<table>
<thead>
<tr>
<th></th>
<th>2017 Actual Excluding Barn Donations</th>
<th>Changes: Min</th>
<th>Changes: Max</th>
</tr>
</thead>
<tbody>
<tr>
<td>Income</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Summer Camp Fees</td>
<td>$35,551.25</td>
<td>$40,173</td>
<td>$45,150</td>
</tr>
<tr>
<td>Preschool Fees</td>
<td>$34,248.70</td>
<td>$46,116</td>
<td>$50,630</td>
</tr>
<tr>
<td>Other</td>
<td>$21,184.45</td>
<td>$21,184.45</td>
<td>$21,184.45</td>
</tr>
<tr>
<td>Expenses</td>
<td>$91,495.93</td>
<td>$91,495.93</td>
<td>$91,495.93</td>
</tr>
<tr>
<td>Net Income</td>
<td>($2,511.53)</td>
<td>$15,977</td>
<td>$25,469</td>
</tr>
</tbody>
</table>

Table 7 – Forecasted Income Statement

By increasing the prices of its two most popular programs to circa industry average, TBT will begin making a profit. There is the risk that by raising prices, TBT will lose clientele. Before increasing prices, TBT should consider surveying some of the parents. In the survey it should be made clear that prices must increase if TBT is to become financially sustainable.
Web-Page Loading Speed

A website may lose traffic due to slow loading speed. As mentioned in section 2.4.2: Donations, consumers expect a two second load time or they may leave the website. Table 8 shows the loading time for the main page of organizations in the comparison. First Interactive is how long it took before the user could begin viewing and interacting with the webpage. While the page may be useable, not all the images or text may have yet loaded (especially as you scroll to the bottom of the page). Fully Loaded is the time it takes for everything to load.

<table>
<thead>
<tr>
<th>Organization</th>
<th>First Interactive (sec)</th>
<th>Fully Loaded (sec)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Turn Back Time</td>
<td>4.897</td>
<td>6.183</td>
</tr>
<tr>
<td>Blue Heron Nature Preserve</td>
<td>12.614</td>
<td>13.2</td>
</tr>
<tr>
<td>Nature Camp</td>
<td>7.948</td>
<td>11.25</td>
</tr>
<tr>
<td>Irvine Nature Center</td>
<td>7.693</td>
<td>12.533</td>
</tr>
<tr>
<td>Pratt Nature Center</td>
<td>7.085</td>
<td>12.695</td>
</tr>
<tr>
<td>Nature School &amp; Education Center</td>
<td>5.983</td>
<td>8.291</td>
</tr>
<tr>
<td>Fiddleheads Forest School</td>
<td>5.46</td>
<td>6.14</td>
</tr>
<tr>
<td>Houston Audubon</td>
<td>5.163</td>
<td>6.61</td>
</tr>
<tr>
<td>Aldo Leopold Nature Center</td>
<td>5.015</td>
<td>7.93</td>
</tr>
<tr>
<td>New Canaan Nature Center</td>
<td>4.719</td>
<td>6.785</td>
</tr>
<tr>
<td>Whole Earth Nature School</td>
<td>4.122</td>
<td>9.368</td>
</tr>
<tr>
<td>Whistler Outdoor Learning</td>
<td>3.727</td>
<td>5.96</td>
</tr>
<tr>
<td>Elm Fork Education Center</td>
<td>2.661</td>
<td>3.288</td>
</tr>
<tr>
<td>Bushy Hill Nature Center</td>
<td>1.59</td>
<td>3.356</td>
</tr>
<tr>
<td>Average</td>
<td>5.62</td>
<td>8.114</td>
</tr>
</tbody>
</table>

Table 8 – Website Loading Speeds ($/hr)

A 1 second delay can lead to 11% fewer people visiting the website and many fewer donors. Looking at Table 8, TBT’s main webpage took 4.897 seconds to load first interactive and 6.183 seconds for fully loaded. While this is better than industry average, it is slow compared to the two seconds consumers expect. As such, TBT could be losing 18.5% to 34% of total potential traffic due to the loading time. This could translate to both fewer visitors and donors.

The donation page took only 2.15 seconds. As this is near two and is run by PayPal, this is acceptable.

The 2018 M + R Benchmarks report found that, on average, 1.1% of non-profit website visitors complete a donation (Bugeaud, 2018). If TBT is indeed losing 18.5% to 34% of website traffic due to loading times, then the number of donors is also 18.5% to 34% lower than potential. Cash donations (excluding barn donations) totaled $4,573.52 in 2017 (Appendix B). Assuming ‘cash
donations’ are primarily via the website and scale linearly to website visitors, then TBT could have received $850 to $1,560 more in cash donations if loading times had been faster.

Hiring a website developer to redo the website would cost several thousands of dollars, but assuming TBT is planning to exist for decades to come, these changes would be well worth it; TBT should try not to put off future profits to minimize present costs. Section 5.1 Financial Predictions of Recommendations discusses potential strategies for reducing the cost of hiring a web developer.

Design and Content on Website

Currently, it is very difficult to locate the “donate” button on TBT’s website. A visitor must navigate away from the main page and then scroll; this most certainly has a negative impact on visitors donating to TBT. Instead, the “donate” button should be placed in a fixed location (i.e. the top right corner of the website or in the menu bar) which stays constant no matter which page a visitor navigates to. The first step to acquiring more donations is making donating as easy as possible.

Second, the main page should feature a brief video, in place of pictures, that tells the organization’s story, mission and what they provide. The video should contain pictures and video clips of the programs. Currently, the current front page is sparse on information, making it difficult to figure out who TBT is and what it does; visitors must dig around the website to find these details. This is extremely un-intuitive and may drive away traffic. Furthermore, visitors will only donate if they know to whom they are donating and believe in what they are doing. This information must be made extremely easy to find and clear to understand. It may be worthwhile to hire or leverage connections to acquire a video professional to ensure TBT has a high-quality video.

Third, the “Programs” drop down menu shows a different order of the programs than the actual “programs” page. This should be changed to match, with the most popular programs at the top. Also, prices, hours and dates should be made very clear on each program’s page. Currently visitors must download a PDF which provides the information. This is an unnecessary extra step which may drive away traffic. All the information available on the PDF should also be available on the web page.

If TBT were to renovate their website following the recommendations under Web-Page Loading Speed, they would likely increase their ‘cash donations’ by more than $850 to $1,560 annually. These estimates assume 1.1% of website visitors complete a donation, as reported in the M+R Benchmarks’ 2018 report (Bugeaud, 2018). My hypothesis is that due to the design of the main page, information not being easy to find, and the location of the donation button, less than 1.1%
of visitors donate—due to a lack of data, the real ratio can only be guessed. So, by decreasing the loading speed, the number of visitors would increase, and by making the mentioned renovations to the website’s design, a greater percentage of visitors might convert to donors. In total, ‘cash donations’ could increase by $900 to $3,000 (rough estimate).

**Donation Structure**

According to Bill McAvoy people today prefer to make specific donations, as opposed to general. This means donors would prefer to pick the project their funds help, as opposed to letting the non-profit choose.

In his recent book, *Thirst: A story of redemption, compassion, and a mission to bring clean water to the world*, Charity: water’s Founder and CEO, Scott Harrington, stresses the importance of regular donations, no matter how small. Regular donations allow the organization to forecast donation income. As such, repeat monthly giving should be encouraged; even $10-20 per month can make a big deal.

Also according to Bill, TBT should not discount the possibility of bequest giving. The organization should mention on their website that is an option. If just one individual decides to include them in their will, it could make an enormous difference. In fact, bequest giving has the highest ROI among non-profit revenue streams according to Bill. On the website and in their newsletters TBT could introduce the idea by saying, “Did you know that Turn Back Time has a bequest giving program?” If the organization receives a large bequest donation, they should consider putting it towards creating an endowment. If TBT manages to establish a large endowment, they will be more financially secure in the future.

**Targeted Promoting for Donations**

Turn Back Time is located in zip code 01612 and is surrounded by seven other zip codes, spanning several different towns. Assuming TBT would like to cultivate high-income-earners individuals into donors, this analysis looked at charitable donations made by people of the following income brackets (based on adjusted gross income) of the surrounding countries and towns in 2016: $100,000-$75,000; $200,000-$100,000; >$200,000. Dividing the total amount filed in charitable contributions by the number of returns filed yields the average amount donated by high-income-earners in that zip code. Because it is not possible to identify specific individuals by their exact income bracket, determining an average makes sense. Then, TBT must simply target general areas within each zip code that seem to be wealthy. The simplest way to do this is by driving around or using online house sale websites (e.g. Zillow) to locate expensive houses. Table 9 shows the average donated by filed return in 2016 per zip code.
Table 9 – Average Charitable Donation for High-Earners by Zip code 2016 (IRS, 2018)

According to Table 9, the top three zip codes TBT would have the greatest success targeting are: 01602, 01612, and 01520.

For cultivating bequest donors, TBT should target zip codes with a large number of elderly returns in the $100,000-$75,000, $200,000-$100,000, and >$200,000 income brackets. Elderly returns are defined by the IRS as those where the primary tax payer is of 60 years of age or more. Because it is not possible to identify specific individuals by their exact income bracket, calculating a total sum of elderly, high-income earners for these income brackets makes sense. The logic behind Table 10 is that it helps identify which zip codes TBT might have the best chance of attracting an elderly donor who would potentially have a large sum of money they could bequest if they so desired. Furthermore, Table 10 identifies if the population of elderly, high-income earners increased or decreased from 2015 to 2016. If the population is decreasing, TBT is less likely to encounter one and is, inherently, less likely to attract a wealthy bequest donor. Due to a lack of data specificity from the IRS records, it is not possible to determine how much these elderly, high-income earners donate annually, as with Table 9.

Table 10 – Average Charitable Donation for High-Earners by Zip code 2016 (IRS, 2018)
Accounting for both the total number and change in the total number of elderly returns, the top three zip codes TBT would have the greatest success targeting for bequest giving are: 01520, 01602, 01562.

Overall, the most effective zip codes to target for both individual giving and bequest giving are: 01602 and 01520.

4.2 Grow

Grant Writing

Bill McAvoy identified grants as having one of the largest ROIs of all revenue streams for non-profits. That said, Bill stressed that no matter the non-profit’s size or industry, they should always breakeven from business-related income. If they do not, they become donation and grant reliant, making them extremely vulnerable lest a key donation or grant is not received.

The grant writer position could be full-time, part-time, or even volunteer (such as a skilled stay-at-home parent who is looking for work to do). This volunteer could even be a student’s parent; in return for helping, their child could attend programs at a discounted rate.

New Programs

Children: In the spirit of Turn Back Time’s emphasis on getting more children back out into and connected with nature, I recommend creating a fully immersive week-long nature camp. Most children have never been completely immersed in nature (where they don’t hear cars, see buildings and electrical lines, et cetera) for an extended period of time. This is partly due to changing habits (e.g. children playing video games inside) and busier schedules (children and their parents may not have several days to take off), but also because there are fewer places in which you can be completely immersed (exemplified by Figure 1). TBT, however, has the unique opportunity to offer such a program. A small plot could be designated as “base camp” in the center of the organization’s 58 acres. Campers could stay the week in tents (keeping the experience fully immersive), cook using a campfire (or back packing stoves) and collect water from nearby ponds or streams (using backpacking/camping water filters). During the day they could play games, identify trees, learn bird calls, go fishing, take walks, practice archery and slingshots, learn meditation, et cetera. Keeping the camp small (10 people maximum), students would have a unique, rewarding experience with nature that they will remember for years. In my experience from hiking the Appalachian Trail, the most rewarding and personal experiences with nature came from being completely immersed and surround by very few people. Furthermore, being completely disconnected from a clock and defined schedule can be extremely liberating.
Ideally this program would only require one staff member. Because there would be few students, prices would be relatively high. While some organizations do run backpacking trips in the White Mountains, one can still see civilization in the distance and still run into many people. TBT has the competitive advantage of having 58 secluded acres. This program could also be run in partnership with a school. For example, Innovation Academy Charter School (my own high school), runs week-long, non-academically oriented trips at the end of the academic year. Trips may include sailing off the coast of Maine, traveling to Quebec, or attending various theater performances. One such trip could be the week-long immersive camp at TBT.

**Adults:** Many of the organizations from the pricing comparison (Table 5) offer programs for parents. A summary of their adult program offerings and prices are provided below (Table 8).

<table>
<thead>
<tr>
<th>Organization</th>
<th>Adult Programs</th>
<th>Program Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aldo Leopold Nature Center</td>
<td>Adult and Teacher workshops, group volunteer projects, seasonally-themed outdoor programs, land steward volunteer work days. Classes on how to integrate STEM into classes.</td>
<td>$50-125</td>
</tr>
<tr>
<td>Taproot</td>
<td>Camping trips, day trips to natural areas, canoe floats, hands-on workshops (e.g. artisanal bread and bagel making, canning and preserving, jelly and jam making, composting, mulching, native and invasive species identification) and book clubs.</td>
<td>n/a</td>
</tr>
<tr>
<td>New Canaan Nature Center</td>
<td>Yoga, hikes, horticulture and gardening classes. Donation run; no mandatory fees.</td>
<td>Donation based</td>
</tr>
<tr>
<td>Bushy Hill Nature Center</td>
<td>Corporate retreat program/ college club retreat where small groups compete to complete obstacles and challenges</td>
<td>$15 and up per person depending on customization of program</td>
</tr>
<tr>
<td>Blue Heron Nature Preserve</td>
<td>Art classes, such as bird drawing 101 through the local Audubon Society Chapter and nature illustration. Bird watching trips run by the Audubon Society.</td>
<td>$50</td>
</tr>
<tr>
<td>South Shore Natural Science Center</td>
<td>Art classes, nature education sessions (on whales, trout, fireflies, owls, history, etc.)</td>
<td>Free-$11</td>
</tr>
<tr>
<td>Environmental Nature Center</td>
<td>Weddings ceremonies/receptions, picnic weddings/receptions, parties, Events: $2,500-$5,500 Meetings: $200/hr + $200 membership</td>
<td></td>
</tr>
</tbody>
</table>
Table 8 – Adult Programs offered by Similar Organizations

<table>
<thead>
<tr>
<th>Location</th>
<th>Programs</th>
<th>Cost ($)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Irvine Nature Camp</td>
<td>rehearsal dinners, fundraisers, classroom meetings</td>
<td>$3,500-$4,500</td>
</tr>
<tr>
<td>Whole Earth Nature School</td>
<td>Weddings, special events, corporate meetings Animal tracking certification, intensive weekend outdoor skills classes, weekend grown-up summer camp</td>
<td>n/a</td>
</tr>
</tbody>
</table>

By offering adult programs TBT would create another revenue stream, expanding its support group, potential donor pool and customer base beyond those who are parents of attending children. Furthermore, it will help the organization expand its scope from getting more children back into nature, to getting more people back into nature. In effect, the adult programs will increase the organization’s impact. Adult programs may prove to be less energy and staff intensive to run compared to those with children, thus they may have a higher ROI than TBT’s current programs. Section 5.2 Other Recommendations discusses strategies for minimizing the cost to run these programs.

Alternatively, TBT could further develop existing programs, rather than creating new ones. While this may increase revenue and require fewer new structures/processes, it will not broaden their customer base. If TBT does decide to develop existing programs, I would recommend focusing on the after-school, home-school, birthday party, and parent-child play time programs. Relative to the summer camp and preschool programs, these programs generate relatively little annual revenue. Birthday parties should be of particular interest because they have a very high ROI (Table 6). Whether creating new programs or developing existing programs would be best for TBT in the immediate was not studied in this analysis. It remains an important question for the organization to consider.

Fundraiser Events
In reviewing the event offerings of the similar organizations, two types of fundraiser events are typically offered: donor/member-only events, and open events.

The primary purpose of donor/member-only events is for the organization to thank current donors, allow them to meet one another, and revitalize their commitment to the organization via a speech, images, et cetera. At the other nature-oriented organizations this type of event is most often a formal, annual dinner or a cocktail party.
While open events do allow donors to meet each other and for the organization to thank donors in person, the primary purpose is to allow the organization to attract new people (either familiars who have not yet donated, or, locals who did not yet know about the organization). This allows the organization to expand its donor pool, grow its email list, and open the doors to new opportunities.

**Membership Program**

According to Bill McAvoy, a membership program is a great way to generate a consistent minimum level of annual revenue. By paying an annual fee, members receive discounts on various programs, receive newsletters, may host on-site events, and are invited to member-only events. TBT could offer different tiers of discounts for different bonuses (i.e. adult individual, family, and benefactor). The benefits and pricing of the membership programs offered by the other nature organizations from Table 5 are listed in Appendix C.

A more outlandish idea, TBT could partner with a food truck vendor to offer weekend brunch in their barn. Members could receive discounted prices on the food or the brunch would only be available to members.

**4.3 Transform**

**Endowment Fund**

The primary purpose of an endowment fund (or similar long-term fund) is to provide reliable, long term income for a non-profit. The organization supplements their income with the interest earned by the fund. Endowment funds serve the dual purpose of “impress[ing] donors, especially generous donors. They know that your nonprofit manages its resources well, plans efficiently, and will likely survive any crisis” (Stevenson, 2018, p.1). Donors may also appreciate giving a gift that continues to give long into the future. Rather than a portion of current annual donations being diverted towards the endowment fund, resulting in a smaller pool for immediate use, endowment fund donations may actually grow total annual donations. Thus, TBT may not find itself with fewer donations for immediate use if an endowment fund is introduced.

While TBT is small, it is never too soon to start. The personal finance book, *The Richest Man in Babylon*, by George S. Clason, recommends putting aside 10% of one’s income (not profits) for long-term investment.

> This, then, is the third cure for a lean purse: to put each coin to laboring that it may produce its kind even as the flocks of the field and help bring to thee income, a stream of wealth that shall flow constantly into thy purse. (Clason, 1926, p.44)
While a personal finance book, this strategy would be extremely beneficial for both for-profit and non-profit organizations, as well. As such, TBT should consider putting 10% of business-related income aside for the endowment fund and/or savings (rainy-day fund).

Experts recommend that non-profits should have at least three times their annual expenses in their endowment fund (Stevenson, 2018). In 2017 TBT expensed nearly $100,000, but assuming TBT boosts the director salary and hires more staff, I would assume minimum annual expenditure of $150,000. So, they should aim for having $450,000 in the endowment fund. At a 5% annual return, TBT would earn ~$17,360 annually, equivalent to 12% of their expenses (Stevenson, 2018). This will take a while to accumulate, but is necessary for TBT to become a long-term, sustainable non-profit. As such, this should not be delayed for current gain.

A trick in personal finance to reduce the amount sitting in savings, earning a low interest rate, is to cycle money through a CD (certificate of deposit) ladder. One purchases a CD for x dollars for y time period for each month of the year, this way one always has access to x dollars if need be, but is earning high return on the other money. For example, if one purchased 12, $1,000 CDs, they would always have access to $1,000, but be earning a high interest rate on the other $11,000 during that time. TBT could investigate implementing something similar for their savings.

To determine the specifics of how to create an endowment and how their annual savings should be divided between the endowment and savings (rainy-day fund), the organization should consult their financial adviser and board of directors.

**Supplementing the Current Director Role**

Bill’s most valuable recommendation for small nonprofits, such as TBT, is to have one executive who is inward facing, and another than is outward facing. This is like the CEO-COO balance in a for-profit corporation. This allows for one person to focus on the internal operations of the organizations while the other focuses on building external relationships, attracting donations and planning for events. In large, established nonprofits this second director is called the Fundraising Director. Currently, TBT has no Fundraising Director. This new position would be in charge of analyzing donor records, developing relationships with new donors, planning fundraising/member-only events, and asking companies and foundations for donations.
5.0 Recommendations

5.1 Financial Predictions of Recommendations

As mentioned in Section 4.1 Run: Minimizing Expenses, TBT could save at least $500 annually by switching from PayPal to Stripe.

As mentioned in Section 4.1 Run: Pricing of their Services, if the organization increased prices, as recommended in Table 6, total revenue would increase by 121-131%.

Assuming the estimations from Section 4.1 Run: Web-Page Loading Speed are reasonably correct, TBT could have received $850 to $1,560 more in cash donations if loading times had been faster. Because it is likely that less than 1.1% of TBT web visitors make a donation, cash donations could likely increase by $900 to $3,000 if the website were faster and web design improved.

To improve the main page’s load time, TBT would need a website developer. The organization may, understandably, be hesitant to hire a website developer due to the inherent cost. As such, recommendations on how to address this have been provided later in this section. Components to be improved include (from most important to least):

1. Use a Content Delivery Network (CDN)
1. Make Fewer HTTP Requests
1. Add expires headers
1. Leverage browser caching (cache static content)
2. Use cookie-free domains
2. Defer parsing of JavaScript
2. Enable gzip compression
3. Compress components with gzip

If TBT makes all of the data-informed, recommended changes above they would become profitable even if they commit 5% of annual revenues to the endowment/savings (Table 9).

<table>
<thead>
<tr>
<th>Income</th>
<th>2017 Actual Excluding Barn Donations</th>
<th>Changes: Min</th>
<th>Changes: Max</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cash Donation</td>
<td>$4,573.52</td>
<td>$5,473.52</td>
<td>$7,573.52</td>
</tr>
<tr>
<td>Preschool Fees</td>
<td>$32,248.70</td>
<td>$46,115.64</td>
<td>$50,630.46</td>
</tr>
<tr>
<td>Summer Camp Fees</td>
<td>$35,551.25</td>
<td>$40,172.91</td>
<td>$45,150.09</td>
</tr>
<tr>
<td>School Age</td>
<td>$1,280.00</td>
<td>$1,280.00</td>
<td>$1,280.00</td>
</tr>
<tr>
<td>Homeschool Fees</td>
<td>$4,643.43</td>
<td>$4,643.43</td>
<td>$4,643.43</td>
</tr>
<tr>
<td>Field trips</td>
<td>$3,020.00</td>
<td>$3,020.00</td>
<td>$3,020.00</td>
</tr>
<tr>
<td>Other Income</td>
<td>$4,807.50</td>
<td>$4,807.50</td>
<td>$4,807.50</td>
</tr>
<tr>
<td>Farming Activities</td>
<td>$900.00</td>
<td>$900.00</td>
<td>$900.00</td>
</tr>
<tr>
<td>Family Farm Time</td>
<td>$1,960.00</td>
<td>$1,960.00</td>
<td>$1,960.00</td>
</tr>
<tr>
<td>Total Income</td>
<td>$88,984.40</td>
<td>$108,373.00</td>
<td>$119,965.00</td>
</tr>
<tr>
<td>---------------------------------</td>
<td>------------</td>
<td>--------------</td>
<td>-------------</td>
</tr>
</tbody>
</table>

**Payroll Expenses**
- Director Wages: $19,200.00, $19,200.00, $19,200.00
- Director Taxes: $1,822.87, $1,822.87, $1,822.87
- School Year Staff Taxes: $1,548.59, $1,548.59, $1,548.59
- School Year Staff Wages: $14,397.25, $14,397.25, $14,397.25
- Camp Staff Wages: $14,115.00, $14,115.00, $14,115.00
- Camp Staff Taxes: $1,518.20, $1,518.20, $1,518.20
- Payroll Fees: $953.64, $953.64, $953.64

**Total Payroll Expenses**: $53,555.55, $53,555.55, $53,555.55

**Other Expenses**
- Rent: $9,000.00, $9,000.00, $9,000.00
- Repair and Maintenance: $2,874.74, $2,874.74, $2,874.74
- Advertising: $936.38, $936.38, $936.38
- Camp Supplies: $4,806.07, $4,806.07, $4,806.07
- Classroom Furniture: $565.00, $565.00, $565.00
- Pay Pal Fees: $2,334.35, $1,834.35, $1,834.35
- Dues & Subscriptions: $1,325.11, $1,325.11, $1,325.11
- Insurance: $3,950.00, $3,950.00, $3,950.00
- Legal & Professional Fees: $0.00, $0.00, $0.00
- Meals and Entertainment: $276.93, $276.93, $276.93
- Office Expenses: $319.07, $319.07, $319.07
- Special Event Costs: $0.00, $0.00, $0.00
- Misc: $1,259.06, $1,259.06, $1,259.06
- Utilities: $1,260.00, $1,260.00, $1,260.00
- Postage: $203.04, $203.04, $203.04
- Animal Feed and Care: $8,279.98, $8,279.98, $8,279.98
- Garden Supplies: $550.65, $550.65, $550.65

**Total Other Expenses**: $37,940.38, $37,440.38, $37,440.38

**Total Expenses**: $91,495.93, $90,995.93, $90,995.93

**Endowment/Savings**: $5,419, $5,998

**Net Income**: ($2,511.53), $11,958, $22,971

Table 9 – TBT Predicted Income with Min and Max changes

By increasing the prices of their two main programs, renovating the website and switching to Stripe, TBT could put 5% of income aside for the endowment/savings and still break even. This assumes that demand for the programs does not change and TBT does not add any new
programs, a membership system, a grant writer, or an annual fundraiser, and that introducing targeted donating does not increase the amount donated. In the ‘minimum’ scenario, TBT could use the ~$12,000 to hire a part-time Fundraising Director. In the ‘maximum’ scenario, TBT could boost director wages to $25,000 and hire a part-time Fundraising Director for ~$18,000.

I have decreased the amount of annual income set aside for the endowment/savings to 5% because boosting the director wages and introducing a CEO-COO balance are critical to TBT’s short-term success. If the director’s wages are too low, the organization will be hard pressed to hire a replacement when Lisa Burris, the current director, retires. Hiring a Fundraising Director could have a great impact on TBT boosting their donations. A few large donations (from individual or corporate giving, or bequest giving) or consistent small ones (from repeat giving or membership fees) could total much great a sum than saving an additional 5% of annual income for the endowment/savings. In way, hiring a Fundraising Director would be investing in future financial security because of the programs they would maintain and create.

The Fundraising Director would be responsible for planning special events, contacting potential individual and corporate donors, and mailing locals inviting them to the open fundraiser event. Because it would be expensive to hire a programmer to implement the recommended changes to the website, TBT may want the new Fundraising Director to have basic web design skills so that they may update the website content themselves (it’d be part of their roles and responsibilities since it is externally facing). TBT should either find a web developer that will work pro-bono on making their website faster, a parent who is willing to do it for a discount on TBT services, or hire students at WPI do it low-cost as a learning endeavor/resume builder. While I cannot speak to how difficult it would be to find a pro-bono or parent developer, if TBT contacts the right channels at WPI (e.g. the head of the computer science program at WPI) and there is some financial incentive, they should not have a huge issue finding interested student developers. In this way TBT will renovate their website without it being prohibitively expensive.

I highly recommend that TBT ask students’ parents if anyone would be willing and able to grant write for TBT; in return they could receive a drastic discount on programs for their children.

5.2 Other Recommendations

While just as important, the following recommendations cannot be accounted for in financial predictions. As such, their ROI are not concrete.

Business-related Income

I highly recommend that TBT offer adult programs. They would diversify their revenue stream, expand their customer base and broaden their support group and donor pool. Those who attend these programs may be willing to donate and/or include TBT in their will.
While TBT could hire new staff, partner with third party organizations (e.g. Mass Audubon Society) or ask current parents and volunteers if they would be interested in creating and running the adult programs. Thus, they would be offering these programs at minimal expense and additional labor. Those who run the programs could earn a share of the revenue, receive discounts on other programs offered, or simply volunteer their time. Alternatively, instead of TBT offering the programs, they could rent out the space to outside organizations on specific days and times.

Donations

**Donation Structure:** First, per the findings in *Section 4.1 Run: Donation Structure*, TBT should establish three specific, funding projects:

1. Hiring a farmer
2. Student scholarships
3. Endowment Fund

While the latter two are operational in nature for long-term success, the first should always be for a ‘new growth’ project to show donors that TBT has ambitious plans for future growth. All three funding projects should be promoted on the website.

Alternatively, instead of offering student scholarships TBT could introduce a membership benefit in which members receive a discount on the programs offered.

**Fundraiser Event:** Because TBT is a relatively young, small organization, I recommend that they first work on establishing an open event to expand their network and potential donor pool. TBT should invite everyone on the email list, post on social media, and mail physical invites to local individuals (e.g. *Section 4.1: Targeted Promoting for Donations*) and companies—the board and important donors would of course be invited.

To achieve the aforementioned goals for the annual fundraiser event (*Section 4.2 Grow: Fundraiser Event*), based upon my own experiences of events that I have organized, helped run or have attended, and my own ideas from reading *Thirst: A story of redemption, compassion, and a mission to bring clean water to the world*, I propose the following:

**What:** a summer barbeque with live music.

**Who:** the event would be catered by food trucks and the music provided by a local musician. I would recommend contacting Wootrucks (Marc Gallant, thedogfathertruck@gmail.com) for the food trucks. It would be worth inquiring if they would provide the food pro-bono or if a percentage of sales could go to TBT. The musician(s) could be a local, donor, or child’s parent who is in a band; if none of these
are options, I recommend Ben Knight (https://www.benknightlife.com/). Staff should attend to take care of the children that attendees might bring. This allows parents to mingle and eat free of worry while their children play.

Where: the barn would be a perfect location for people to eat and mingle. Outside, lawn games would be provided (e.g. corn hole, crocket, badminton, frisbees, etc.).

When: June 29th

How: organizing such an event will highlight TBT’s need to hire an externally facing executive member. This person would be largely responsible for managing the small details.

Why: the event would be used to thank current donors, recognize board members, grow the email list and accrue donations. This is also a perfect time to meet people who might be potentially interested in volunteering to grant write, run adult programs, or help in some other way. There should be an easily visible table where attendees can find a clipboard for signing onto the email list and three bins for donations (hiring a farmer, student scholarships, and the endowment). These bins should be transparent (e.g. empty water jugs), allowing people to see donations accrue, adding social pressure to donate as well. A small amount of money should be placed into each at the start of the event to “get them started” (people are more likely to donate if they believe others have already donated). At some point during the event key members of Turn Back Time should speak about the organization, their accomplishments, how far they have come, and their future aspirations (the work still to be done). If the organization feels particularly ambitious, a fundraising goal for the event could be set and an inspiring video could be projected (see Thirst: A story of redemption, compassion, and a mission to bring clean water to the world by Scott Harrison, the CEO and founder of Charity: water).

Future Projects

This MQP project for Turn Back Time is only a starting place in helping the organization become financially sustainable. This report acts as an over-arching review of the organization; more specialized, topic-specific projects are needed in the future. These projects could either be completed by the organization itself, or via future IQP/MQP projects. Potential topics that I would recommend investigating include:

- Website design
  This project would research and design an effective website for Turn Back Time. Project members should consult the websites of the similar organizations, cutting edge nonprofits
(such as Charity: water), and experts on web design trends. The website should be able to convey information to the viewer in an efficient and effective manner.

- Donor records data mining

Bill McAvoy recommended that TBT should analyze their donor records to determine if any trends exist. One potential trend could be that a specific individual has been donating an increasing amount annually. This may signify that the individual’s wealth has grown over the years. As such, TBT may be able to approach them to inquire about making a larger donation towards a specific project. Likewise, if an individual has been consistently donating the same amount annually, they could approach the donor about increasing the donation by a small amount ($10-20). If enough people increased their donation by a small amount, it could add up to a large sum.

This project should also analyze donor records to determine the demographic distribution of their donors (e.g. are most of the donations coming from parents). A detailed fundraising plan should then be made for growing and diversifying their donor base.

**Questions to Consider**

In developing this analysis, I have identified a few questions that the organization should consider:

- Does TBT see itself as offering programs to only children, or adults as well?
- While I strongly recommend introducing new programs as some point in time, for the time being does it make more sense to develop existing programs or create new ones?
  - Is there any evidence that developing existing programs will increase demand?
  - Is the evidence that there would be demand for the new programs?
- Are the current board members asked to make annual donations to TBT? If so, are they sufficiently large? If not, should they be?
  - According to Bill McAvoy it is common for board members to be required to donate a minimum sum to the organization annually. This provides the organization with a minimum annual donation income stream.
- Is the organization open to making use of volunteer labor?
  - Volunteers could help run the programs, maintain the farm (as opposed to hiring a farmer), repair what needs to be fixed, design fundraising events, et cetera.
- At the earliest, when does Lisa Burris anticipate retiring?
  - The organization should then plan on having everything in place to find a new director for this date. This includes becoming financially self-sustaining, having a Fundraising Director, starting an endowment, having an attractive Director salary,
and preparing all other materials so that the next director may easily continue building the organization.

- Will increasing program prices reduce demand?
  - To answer this question the organization may want to consult parents of existing students. TBT should be honest with the parents about its financial situation and that raising prices modestly would be necessary for the long-term survival of the program.
Works Cited


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Heartfelt Connectors…
“grow by focusing on causes that resonate with the existing concerns of large numbers of people at all income levels”. They also create a structured way for people to connect about these issues. This differs from non-profits that tap religious beliefs, political standings, or sporting interesting.

Areas this model works well for:
- Environmental
- International
- Medical

Example organizations:
- Make-a-Wish Foundation
- Susan G. Komen Foundation (breast cancer)

Questions to be considered:
- “Have a large cross section of people already shown that they will fund causes in this domain?”
- “Can we communicate what is compelling about our nonprofit in a simple and concise way?”
- “Does a natural avenue exist to attract and involve large numbers of volunteers?”
- “Do we have, or can we develop, the in-house capabilities to attempt broad outreach in even one geographic area?”

Beneficiary Builders…
“are reimbursed for services that they provide to specific individuals, but rely on people who have benefited in the past from these services for additional donations” (5-30% of revenue). While most of the funding comes from the beneficiary of the provided service, the fees do not cover the entire cost. Thus, these non-profits try to build long-term relationships with beneficiaries.

Areas this model works well for:
- Hospitals
- Universities

Example organizations:
- Cleveland Clinic
- Worcester Polytechnic Institute

Questions to be considered:
- “Can we communicate what is compelling about our nonprofit in a simple and concise way?”
- “Do individuals develop a deep loyalty to the organization in the course of receiving their individual benefit?”
- “Do individuals develop a deep loyalty to the organization in the course of receiving their individual benefit?”

Member Motivators…
“rely on individual donations” from members of the nonprofit. Members donate because the issue is integral to their everyday life and from which there is a collective benefit. Instead of creating the rationale for group activity, these non-profits connect with members by running or supporting activities the members already seek.

Areas this model works well for:
- Religion
- Environment
- Arts

Big Bettors…
“rely on major grants from a few individuals or foundations to fund their operations”. The primary donor is often also a founder. Donors often want to tackle some issue of deep personal concern to him or her. While these non-profits may grow quickly with significant backing, they are highly exposed if a donor pulls their backing or does not renew it over time. They receive large donations because the problem being addressed can potentially be solved with a large amount of money.

Areas this model works well for:
### Culture

**Humanities**

**Example organizations:**
- National Wild Turkey Federation
- Churches

**Questions to be considered:**
- “Will our members feel that the actions of the organization are directly benefiting them, even if the benefit is shared collectively?”
- “Do we have the ability to involve and manage our members in fundraising activities?”
- “Can we commit to staying in tune with, and faithful to, our core membership, even if it means turning down funding opportunities and not pursuing activities that fail to resonate with our members?”

### Medical

**Environmental**

**Example organizations:**
- Stanley Medical Research Institute
- Conservation International

**Questions to be considered:**
- “Can we create a tangible and lasting solution to a major problem in a foreseeable time frame?”
- “Can we clearly articulate how we will use large-scale funding to achieve our goals?”
- “Are any of the wealthiest individuals or foundations interested in our issue and approach?”

### Public Providers...

“work with government agencies to provide essential social services, such as housing, human services, and education, for which the government has previously defined and allocated funding”. This includes request for proposal (RFP) projects. These organizations often seek other funding sources to augment government funding.

**Areas this model works well for:**
- Immigration
- Housing
- Education
- Healthcare

**Example organizations:**
- Success for All Foundation
- Texas Migrant Council

**Questions to be considered:**
- “Is our organization a natural match with one or more large, preexisting government programs?”
- “Can we demonstrate that our organization will do a better job than our competitors?”
- “Are we willing to take the time to secure contract renewals on a regular basis?”

### Policy Innovators...

“have developed novel methods to address social issues that are not clearly compatible with existing government funding programs” and rely on government funding. These organizations have convinced government funders to support their alternative solutions because they are more effective and less expensive than existing programs.

**Areas this model works well for:**
- Immigration
- Housing
- Education
- Healthcare

**Example organizations:**
- HELP USA
- Youth Villages

**Question to be considered:**
- “Do we provide an innovative approach that surpasses the status quo (in impact and cost) and is compelling enough to attract government funders, which tend to gravitate toward traditional solutions?”
- “Can we provide government funders with evidence that our program works?”
- “Are we willing and able to cultivate strong relationships with government decision makers who will advocate...”
<table>
<thead>
<tr>
<th>Beneficiary Broker…</th>
<th>Resource Recyclers…</th>
</tr>
</thead>
<tbody>
<tr>
<td>“compete with one another to provide government-funded or backed services to beneficiaries”. This model differs from Public Providers and Policy Innovators in that beneficiaries may choose the non-profit from which they will receive the service.</td>
<td>collect “in-kind donations from corporations and individuals, and then [distribute] these donated goods to needy recipients who could not have purchased them on the market”. Goods are donated because they would otherwise go to waste (i.e. food or medication), the production cost is low, or they will be distributed in non-competing markets (i.e. sent to developing countries). These non-profits must raise funds to cover their operational costs. Oftentimes they are internationally focused.</td>
</tr>
<tr>
<td>Areas this model works well for: Housing Employment services Healthcare Student Loans</td>
<td>Areas this model works well for: Food Agriculture Medical</td>
</tr>
<tr>
<td>Example organizations: Iowa Student Loan Liquidity Corporation Metropolitan Boston Housing Partnership</td>
<td>Example organizations: AmeriCares Foundation The Greater Boston Food Bank</td>
</tr>
<tr>
<td>Questions to be considered:</td>
<td>Questions to be considered:</td>
</tr>
<tr>
<td>• “Can we demonstrate to the government our superior ability to connect benefit or voucher holders with benefits, such as successful placement rates and customer satisfaction feedback?”</td>
<td>• “Can we demonstrate to the government our superior ability to connect benefit or voucher holders with benefits, such as successful placement rates and customer satisfaction feedback?”</td>
</tr>
<tr>
<td>• “Can we develop supplemental services that maximize the value of the benefit?”</td>
<td>• “Can we master the government regulations and requirements needed to be a provider of these benefits?”</td>
</tr>
<tr>
<td>• “Can we find ways to raise money to supplement the fees we receive from the benefits program?”</td>
<td>• “Can we develop the expertise to stay abreast of trends in the industries that donate products to us so that we can prepare for fluctuations in donations?”</td>
</tr>
<tr>
<td>• “At this time are there sufficient pressures on government to overturn the status quo?”</td>
<td>• “Do we have a strategy for attracting the cash we’ll need to fund operations and overhead?”</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Market Makers…</th>
<th>Local Nationalizers…</th>
</tr>
</thead>
<tbody>
<tr>
<td>“provide a service that straddles an altruistic donor and a payor motivated by market forces”. Even if there is money available for the service, it would be unseemly or unlawful if a for-profit benefited from the service. Much of this type of non-profit’s revenue comes from fees or donations directly related to their services.</td>
<td>grow “by creating a national network of locally based operations”. These non-profits focus on issues important to local communities across the country that the government alone cannot solve. Much of the revenue is raised locally from individual and corporation donations, and benefit events; very little comes from the government. While individual operations may be quite small (less than $5 million in size), totaled nationally, they can be quite large.</td>
</tr>
<tr>
<td>Areas this model works well for: Healthcare Disease Environmental Protection</td>
<td>Areas this model works well for:</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Example organizations:
The American Kidney Fund
Land conservation organizations

Questions to be considered:
• “Is there a group of funders with a financial interest in supporting our work?”
• “Are there legal or ethical reasons why it would be more appropriate for a nonprofit to deliver the services?”
• “Do we already have a trusted program and brand name?”

Example organizations:
Big Brothers Big Sisters of America
Teach for America

Questions to be considered:
• “Is there a group of funders with a financial interest in supporting our work?”
• “Are there legal or ethical reasons why it would be more appropriate for a nonprofit to deliver the services?”
• “Do we already have a trusted program and brand name?”

(Foster, 2018)

Appendix B- Turn Back Time 2017 Income Statement

<table>
<thead>
<tr>
<th>Income</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cash Donation</td>
<td>$4,573.52</td>
</tr>
<tr>
<td>Barn Specific Donation</td>
<td>$28,027.72</td>
</tr>
<tr>
<td>Preschool Fees</td>
<td>$32,248.70</td>
</tr>
<tr>
<td>Summer Camp Fees</td>
<td>$35,551.25</td>
</tr>
<tr>
<td>School Age</td>
<td>$1,280.00</td>
</tr>
<tr>
<td>Homeschool Fees</td>
<td>$4,643.43</td>
</tr>
<tr>
<td>Field trips</td>
<td>$3,020.00</td>
</tr>
<tr>
<td>Other Income (Birthday Parties, Mini camps and Festivals)</td>
<td>$4,807.50</td>
</tr>
<tr>
<td>Farming Activities</td>
<td>$900.00</td>
</tr>
<tr>
<td>Family Farm Time</td>
<td>$1,960.00</td>
</tr>
<tr>
<td><strong>Total Income</strong></td>
<td><strong>$117,012.12</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Payroll Expenses</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Director Wages</td>
<td>$19,200.00</td>
</tr>
<tr>
<td>Director Taxes</td>
<td>$1,822.87</td>
</tr>
<tr>
<td>School Year Staff Taxes</td>
<td>$1,548.59</td>
</tr>
<tr>
<td>School Year Staff Wages</td>
<td>$14,397.25</td>
</tr>
<tr>
<td>Camp Staff Wages</td>
<td>$14,115.00</td>
</tr>
<tr>
<td>Camp Staff Taxes</td>
<td>$1,518.20</td>
</tr>
<tr>
<td>Payroll Fees</td>
<td>$953.64</td>
</tr>
<tr>
<td><strong>Total Payroll Expenses</strong></td>
<td><strong>$53,555.55</strong></td>
</tr>
</tbody>
</table>
Other Expenses
Rent $9,000.00
Repair and Maintenance $2,874.74
Advertising $936.38
Camp Supplies $4,806.07
Classroom Furniture $565.00
Pay Pal Fees $2,334.35
Dues & Subscriptions $1,325.11
Insurance $3,950.00
Legal & Professional Fees $0.00
Meals and Entertainment $276.93
Office Expenses $319.07
Special Event Costs $0.00
Misc $1,259.06
Utilities $1,260.00
Postage $203.04
Animal Feed and Care $8,279.98
Garden Supplies $550.65
Total Other Expenses $37,940.38

Total Expenses $91,495.93

Net Income $25,516.19
Actual Loss after Barn donation separated $(2,511.04)

Appendix C- Membership benefits and prices offered by similar organizations

<table>
<thead>
<tr>
<th>Organization</th>
<th>Membership</th>
<th>Membership Benefits</th>
<th>Membership Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aldo Leopold Nature Center</td>
<td>Community Membership</td>
<td>Help preserve local prairie ecosystem and education programming + Receive regular updates and e-newsletters on programs and events</td>
<td>Any</td>
</tr>
<tr>
<td></td>
<td>Family Membership</td>
<td>10% discount on education programs, advanced registration on summer camps, family events, birthday parties, gift shop items + Free rentals of hiking backpacks and snow shoes</td>
<td>$75</td>
</tr>
<tr>
<td>Membership Level</td>
<td>Description</td>
<td>Membership Fee</td>
<td></td>
</tr>
<tr>
<td>------------------------------------------</td>
<td>-----------------------------------------------------------------------------</td>
<td>----------------</td>
<td></td>
</tr>
<tr>
<td>Supporting Membership</td>
<td>One copy of <em>A Sand Country Almanac</em> by Aldo Leopold</td>
<td>$100</td>
<td></td>
</tr>
<tr>
<td>Sustaining Membership</td>
<td>10% discount on one facility rental</td>
<td>$250</td>
<td></td>
</tr>
<tr>
<td>Benefactor Membership</td>
<td>A private docent-led tour of nature grounds</td>
<td>$500</td>
<td></td>
</tr>
<tr>
<td>Nina Leopold Bradley Stewardship Circle</td>
<td>Invitation to Cocktails in the Cattails, their exclusive annual appreciation event</td>
<td>$1,000</td>
<td></td>
</tr>
</tbody>
</table>

**New Canaan Nature Center**

<table>
<thead>
<tr>
<th>Membership Level</th>
<th>Description</th>
<th>Membership Fee</th>
</tr>
</thead>
<tbody>
<tr>
<td>Individual Membership</td>
<td>Free use of Nature Activity Packs, snowshoes and fishing poles for exploring the ecosystem + Discounts on adult and youth programs. + Opportunity to rent facilities and outdoor spaces for events. + Invitations to member-only winter and summer solstice events + Subscription to monthly newsletter</td>
<td>$45</td>
</tr>
<tr>
<td>Family Membership</td>
<td>Individual Membership benefits + Able to register birthday parties for children and adults + Early access to registration</td>
<td>$85</td>
</tr>
<tr>
<td>Benefactor Membership</td>
<td>Family Membership benefits + Invitation to annual donor events and receptions</td>
<td>$1,000</td>
</tr>
</tbody>
</table>

**Blue Heron Nature Preserve**

<table>
<thead>
<tr>
<th>Membership Level</th>
<th>Description</th>
<th>Membership Fee</th>
</tr>
</thead>
<tbody>
<tr>
<td>Beaver</td>
<td>Discount on Blue Heron programs + Invitation to annual appreciation event + Blue Hero car magnet</td>
<td>$75</td>
</tr>
<tr>
<td>Flock</td>
<td>Beaver benefits + Early registration for camps + 10% discount on summer camps + 10% discount on Fall, Winter and Spring camps during early registration period</td>
<td>$100</td>
</tr>
<tr>
<td>River Otter</td>
<td>Flock benefits + Invitation to member-only day +</td>
<td>$250</td>
</tr>
<tr>
<td>Membership Level</td>
<td>Benefits</td>
<td>Price</td>
</tr>
<tr>
<td>------------------</td>
<td>--------------------------------------------------------------------------</td>
<td>--------</td>
</tr>
<tr>
<td><strong>Rookery</strong></td>
<td>Invitation to member-only art opening reception + Priority reservations on facility rental for private events and birthday parties + River Otter benefits + Exclusive events and other opportunities + Invitation to special gardening class at the community garden</td>
<td><strong>$500</strong></td>
</tr>
<tr>
<td><strong>Great Blue Heron</strong></td>
<td>Rookery benefits + Invitation to bi-annual blueway trail updates + Opportunity to meet with the artists from Art of Nature</td>
<td><strong>$1,000</strong></td>
</tr>
<tr>
<td><strong>Blueway Backer</strong></td>
<td>Great Blue Heron benefits + One hour private staff-led tour + Permanent Blueway Backer Recognition in the Preserve</td>
<td><strong>$2,500</strong></td>
</tr>
<tr>
<td><strong>South Shore Natural Science Center</strong></td>
<td>Annual Membership + Free admission to EcoZone + Members’ free programs + Discounts on programs, events and summer camp + Invitation to member-only events + Subscription to seasonal newsletter + Free snowshoe rentals + Discounts on facility rental + 10% discount in facility nature store</td>
<td><strong>$25-$1,000</strong></td>
</tr>
<tr>
<td><strong>Education Nature Center</strong></td>
<td>Basic Membership + Individual: Receive newsletter + 10% store discount + Invitation to membership dinner + Family: Individual benefits</td>
<td><strong>$30</strong></td>
</tr>
<tr>
<td>Membership Type</td>
<td>Benefits</td>
<td>Cost</td>
</tr>
<tr>
<td>-----------------</td>
<td>----------</td>
<td>------</td>
</tr>
<tr>
<td>Supporter</td>
<td>Family benefits + Able to host birthday parties (excluding event fees)</td>
<td>$100</td>
</tr>
<tr>
<td>Institutional Membership</td>
<td>10% store discount + Two free admission per month to a community program + 10% discount on team-building/professional development workshops + Able to host one staff meeting per year + Staff-led tour + Three invitations to member appreciation dinner</td>
<td>$150</td>
</tr>
<tr>
<td>Sequoia Circle Membership</td>
<td>All Basic Membership benefits + Additional recognition + Able to host special event (excluding event fees)</td>
<td>$200-$10,000</td>
</tr>
<tr>
<td>Pratt Nature Center - Basic Membership</td>
<td>Discounted on programs</td>
<td>$50</td>
</tr>
<tr>
<td>Houston Audubon Membership</td>
<td>Newsletters + Volunteer opportunities + Monthly membership meetings with speaker presentations</td>
<td>$15-500</td>
</tr>
</tbody>
</table>