

Urban-Rural Happiness Gradient Theory: What Happiness Theories Tell Us About Urban Way Of Life?

Tuesday 1st June, 2021 11:41

Urbanization, arguably the most dramatic disruption of human habitat, has received surprisingly little attention from happiness studies in terms of theory. We know that in the developed world urbanites are less happy, yet we miss theory: what can be the mechanism? This article aims to start filling this gap. An apparently surprising finding that people are less happy in cities should not be surprising given that happiness theories indicate at least substantial or usually complete happiness disadvantage of cities. In developing countries, on the other hand, cities probably do not lower happiness, and may even raise it.

CITIES, URBAN LIVING, URBANICITY, HAPPINESS THEORIES

Cities are not just buildings, urbanism is a way of life (Wirth 1938), and our species' way of life has changed dramatically. In 1800 a mere 1.7% of the world population lived in cities larger than 100k (Davis 1955), but urban population will explode from 30% in 1950 to 70% in 2050, or from .75b to 6.75b (<https://population.un.org/wup>)—that's an addition of 6 billion of people to cities over just 100 years. Arguably, this is the most dramatic change of human habitat in our species history.

Why cities exist in the first place? Economics tells us that cities are necessary because humans are not self sufficient (e.g., O'Sullivan 2009), that is labor specialization works best at high population level and density, and cities through agglomeration economies increase productivity and ultimately Gross Domestic Product (GDP), an end-in-itself (the ultimate goal of interest) (O'Sullivan 2009, Glaeser 2011b).

Yet we don't need more GDP, in fact a reasonable argument can be made that we need less (Skidelsky and Skidelsky 2012, Joutsenvirta 2016, Kallis et al. 2012, Kallis 2011, Kasser 2003, Roberts 2011, Roberts and Clement 2007, Klein 2014). And arguably the metric to be maximized is happiness (Stiglitz et al. 2009, Diener 2009, Okulicz-Kozaryn 2016).

There is an apparent "urban unhappiness paradox." People flock to cities—6b over 100 years—and yet people in cities are less happy: across the developed world, the least happy places are largest cities: New York City (Okulicz-Kozaryn and Mazelis 2016, Senior 2006), London (Office for National Statistics 2011, Chatterji 2013) Helsinki (Morrison 2015), Bucharest (Lenzi and Perucca 2016), Sydney (cited in Morrison 2011), and so forth.

It is especially a puzzle for economists, who then try to cherry-pick data to argue that people are happier in cities Glaeser (2014, 2011b,a, 2007). Economic theory runs against the urban unhappiness phenomenon as it predicts higher SWB in cities. To economist, money=utility (e.g., Autor 2010), there is more money in cities, and so cities must be happier. And since also to economists, people are perfectly rational and fully informed, they must rationally flock to the happiest places of all, cities Glaeser (2011b).

A simple point is missed—people do not vote with their feet in favor of urbanism—substantial portion of city growth is not due to people preference, but actually against it (Molotch 1976) People move to places mostly for jobs (Campbell 1981). Contemporary companies locate most jobs in metropolitan areas and so people are forced to live there. Just like with industrial revolution—much of urban population is forced (Engels [1845] 1987, Harvey 2012, Molotch 1976).¹ Many others think they chose city consciously, but are actually driven by subconscious city size fetish (Okulicz-Kozaryn and Valente 2017).

It is of paramount importance to study the effect of cities on human condition. The question is long-standing and many have studied it, notably classical US urban sociologists such as Wirth, Burgess, and Park; but also notably German sociologists Simmel and Toennies. Some even suggest a new field e.g., 'neurourbanism' (Adli et al. 2017). This study is a continuation of <<<BLIND FOR PEER REVIEW>>>

As this article argues, an apparently surprising finding that people are less happy in cities in the developed world should not be surprising given that happiness theories indicate at least substantial or usually complete happiness disadvantage of cities.

This article doesn't concern itself with philosophical or measurement issues—for that see for instance Brulde (2007)—we agree that a hybrid version of happiness theory seems most plausible. Subjective Wellbeing (SWB) is an umbrella term for various subjective measures of wellbeing, notably positive and negative affects, happiness, and life satisfaction. Most of the urban SWB research uses life satisfaction measure, which is a global self-evaluation of one's life as a whole. This measure is rather cognitive than affective—respondent evaluates her life as whole globally (everything, including professional, personal, family, community, etc)—for discussion see Campbell et al. (1976), Diener (2009). Following usual practice, for simplicity, we use these terms interchangeably: SWB, happiness, and life satisfaction, but specifically we mostly mean life satisfaction as defined above. SWB measure is also at least adequately reliable and valid and considered good enough for public policy making and public administration (Diener 2009, Stiglitz et al. 2009).

1 Urbanicity and the Happiness Theories

There are many happiness theories, but the most relevant ones to the urban-rural happiness gradient can be subsumed under three major theories:

- genes/evolution: set point/adaptation (adjustment, “hedonic treadmill”) (Brickman et al. 1978); happiness as a motivator (Carver and Scheier 1990)
- comparisons/discrepancies (Michalos 1985)
- needs/livability (Veenhoven and Ehrhardt 1995)

The first two theories predict a major urban disadvantage of cities in terms of happiness. The livability theory does not make direct predictions on the urban-rural happiness gradient, but some urban disadvantage can be inferred from it. In what follows each of the theories is briefly described and applied to urbanicity.

¹Wage slaves are “hired slaves instead of block slaves. You have to dread the idea of being unemployed and of being compelled to support your masters” (p. 283 Goldman et al. 2003).

1.1 Genes/Evolution

Genes and evolution have bad reputation in social science due to eugenics, social Darwinism, and so forth, but the pendulum have swung too far in the other direction and avoidance or denial of evolution is counterproductive (Pinker 2003, Haidt 2012).

Humans' behavior, as that of any animal, is dictated by genes (e.g., Dawkins 2006). It is notable that humans share with a chimp more than 95% of genes.² And a simple, yet overlooked point is that neither homo sapiens nor chimps evolved to live at high population size or density—in cities. As hunters-gatherers, when our natural evolutionary habitat has formed for tens of thousands of years, humans have lived in bands of 50-80 people in wilderness Maryanski and Turner (1992).³ A modern city of hundreds of thousands of people is a very recent invention in human evolutionary history—there was no such even single place in the world before around 1,000 BC. By 1850 AD only about 2.3% of world population lived in cities larger than 100,000 (Davis 1955).

Some argue that many species, e.g., ants and bees, thrive at high densities, but humans are unlike ants or bees. By one estimate—we're 90% chimp and only 10% bee (Haidt 2012). Small population level and density in natural setting is humans' evolutionary home, not high population size and density in artificial setting. Pretty (2012). Humans have evolved to live sparsely in a natural environment, not densely in a mixture of asphalt, concrete, steel, and glass—a city. To summarize, the critical point is that it is not in human nature to live in a city.⁴

Genes/evolution are also a foundation of several closely related happiness theories: set point/adaptation (adjustment, “hedonic treadmill”) (Brickman et al. 1978), and happiness as a motivator (Carver and Scheier 1990).

Set point/adaptation theory states that life events happen, even dramatic ones such as losing a limb or winning millions in a lottery, but humans have an extraordinary ability to adapt to just about anything, and so their happiness over time comes back to status quo, a set-point (Brickman et al. 1978).⁵ A useful closely related term is “hedonic treadmill”—we chase some goals, some greater happiness, but like on a treadmill, we never get anywhere, being stuck always at the same place despite running. Durkheim ([1895] 1950) put it well: “the more one has, the more one wants, since satisfactions received only stimulate instead of filling needs.” Human adaptation is astonishing indeed: winning millions in a lottery and losing limbs has little if any effect on happiness. Astonishingly, about half of world population lives on less than 6\$ per day and they somehow manage and don't commit suicide—humans can adapt to just about anything.⁶

²<https://www.genome.gov/15515096/2005-release-new-genome-comparison-finds-chimps-humans-very-similar-at-dna-level>.

³Contemporary largest cities crowd millions of people at densities of about 25,000/sq km (Manhattan), which is 105 people per acre. Imagine about 3 times larger soccer field (2.7 acre) and 22 people on it (2 teams of 11 players)—it's a livable density—Manhattan has 281 people on it. Of course it is only manageable thanks to towers and underground (subway) facilities. And there are dozens of cities more dense than Manhattan.

⁴A side point in terms of genes is about heritability of happiness. Genes also matter more than anything else for one's happiness. About 50 percent of happiness, intelligence, personality, etc is determined by genes (Dawkins 2006, Krueger et al. 2008, Stangor and Walinga 2010, Stoolmiller 1999, Plomin et al. 1994, Bartels 2015). Hence of all the influences on our happiness level, genes have the greatest effect, as what is left for all the other influences is only the other 50%.

⁵Also see homeostasis, e.g., ch4 by Cummins in Brulé and Suter (2019): SWB, like any physiological system requires homeostasis, a stable narrow range to function properly about 70-90 on 0-100 scale; still some people are chronically low say due to arthritis or caring for an elderly; and some over time change is still possible not that set point is set in stone; and see an interesting piece on Brickman: <https://www.nytimes.com/2020/11/24/opinion/happiness-depression-suicide-psychology.html>.

⁶See <https://www.worldbank.org/en/news/press-release/2018/10/17/nearly-half-the-world-lives-on-less-than-550-a-day>. And yet the happiness distributions do differ, for instance those of Denmark and Togo are almost non-overlapping—society can make a huge difference (Diener 2015). We also know that the adaptation is not full, e.g., people do not adapt fully to unemployment (Lucas et al. 2004), unexpected death of a child (cited in Headey 2008), etc. And see the next section per livability theory.

Then the city allure is overrated—people simply adapt to urban amenities.⁷ People are often attracted to city not just by jobs, but also by its amenities—opera houses, museums, etc (Campbell 1981). Arguably expected urban happiness is higher than experienced urban happiness (Kahneman et al. 1997, Schkade and Kahneman 1998, Kahneman 2000, Kahneman and Krueger 2006), and it may help to explain the apparent paradox of urbanization and urban unhappiness at the same time.

But wouldn't people by the same mechanism adapt to smaller places as well? Again, natural environment is a natural human habitat and it has consistently positive effect on human condition Pretty (2012). And why pay more for city life,⁸ and have less time? Urbanites work longer hours (Rosenthal and Strange 2002, 2003, 2008)—to pay for skyrocketing urban crowded housing and other “urban amenities,” while free time is critical for human flourishing—one of the top regrets of the dying is “I wish I hadn't worked so hard” (Ware 2012). People would arguably stayed rural if they could, by they were forced into metropolitan areas (cities and its suburbs) by jobs (Campbell 1981, Engels [1845] 1987, Harvey 2012, Molotch 1976).⁹

Happiness as a motivator is a critical and largely overlooked theory (Carver and Scheier 1990). Like set-point/adaptation theories, it also closely derives from genes/evolution. SWB merely signals that task at hand has been accomplished, then happiness dissipates, so that the signal is that a person should move to another task. If a person was perfectly happy all the time, she would not accomplish much. Happiness is simply a reward for accomplishing a task. Happiness is necessary to motivate a person to accomplish the task, and then the happiness must dissipate, so that a person is motivated to move to another task.¹⁰

A problem in the modern world, and especially in a city, is that majority find themselves on a hamster wheel accomplishing tasks until one lies on a deathbed and wishes one didn't work so hard—one of the top regrets of the dying is “I wish I hadn't worked so hard” (Ware 2012). There are many more tasks in the city and one cannot ever accomplish all of them, because there are always more (Rosenthal and Strange 2002, 2003, 2008).

Furthermore, ever-increasing complexity and abundance of choices, exemplified in cities, may lead to paralysis as opposed to liberation. For instance, it has been shown that people offered many choices became overloaded and

⁷People don't adapt to urban disamenities—again city living is not in human nature. And one does not adapt to multiple city stressors such as air, noise, and light pollutions, skyrocketing housing prices, etc, as evidenced by poor mental health of urbanites (Lederbogen et al. 2011, Adli et al. 2017).

⁸In other words, for jobs, it is often necessary to be in a city or close to it (suburb), but one should be aware that she is likely to adapt to city amenities and hence she should discount the expected happiness from her decision making to live in a city. Furthermore, enjoyment of many of urban amenities is expensive and time consuming—one is likely to end up not enjoying the amenities. It is another explanation for the apparent paradox that cities grow and yet are unhappy—people think they will enjoy more amenities (opera houses, top universities, etc) than they actually do, and they don't take into account the disamenities such as high prices and pollutions. Again it is expected v experienced utility (Kahneman et al. 1997, Schkade and Kahneman 1998, Kahneman 2000, Kahneman and Krueger 2006). Similarly with California—many Americans would like to live there and many actually move, but they have unrealistic ideas about happy lifestyle, but end up with unhappy congestion, pollution, and high prices (Schkade and Kahneman 1998).

⁹Contemporary Americans prefer suburban settings, close to city so that they have access to jobs and urban amenities, and yet outside of central city so they have at least some nature, and less of urban disamenities Fuguitt and Zuiches (1975), Fuguitt and Brown (1990). More recent data are at <http://today.yougov.com/news/2012/07/05/suburban-dream-suburbs-are-most-popular-place-live/>. And yet suburbs are not a viable solution (Duany et al. 2001) for a society—rather, it was “smart for one, but dumb for all”—if few suburbanized, they'd probably came close to the best of the two worlds—city amenities close by, but without city disamenities, and plenty of nature. But predictably what happened instead is massive suburbanization. And suburbs are morphing into city-like creatures with less nature, higher prices, more congestion, pollution, etc Okulicz-Kozaryn (2015).

¹⁰Also as in an equation: SWB=achievement/experience—expectations/aspirations, i.e. the higher the expectations or aspirations, the lower the SWB, Carver (2003) argues similar: if rate of progress is below the reference rate: negative affect; if above: positive affect also if doing well: become satisfied, comfortable, possibly complacent (Carver 2003) until you fall below the reference line and it goes over again. Homo sapiens is not designed by genes to be happy but to survive and reproduce (Euba 2019). Carver (2003) discusses various models: cruise control: going over the hill gets tough, increase velocity and fuel use, reach plateau; and going down the hill: decrease fuel coasting: positive affect leads to coasting opportunistic shifting: positive feelings promote play—also see Marcuse (2015, 2013).

confused as opposed to thrilled (Schwartz 2004). On the other hand, it is not so that people in smaller areas are disengaged or withdrawn, rather they are more sane and at peace (Thoreau 1995 [1854], Nietzsche 1896). People in big cities are cognitively overloaded. They are not at peace, always chasing something, their gaze is disconnected from present and focused on some future task or goal, or they are distracted, sometimes disoriented as observed long time ago by Simmel (1903). Urbanism has a negative effect on human mental health in general (Adli et al. 2017). Cities stimulate and overstimulate human nervous system (Simmel 1903, Lederbogen et al. 2011)—one feels energetic, possibly hectic in the city—urban environment gives one quick short-lived excitement boosts from its towers, neons, shopping windows, etc (Pile et al. 1999, Pile 2005b,a, Okulicz-Kozaryn and Valente 2017). An urbanite has more of just about everything than a rural person, but also seem to want even more—“the more one has, the more one wants, since satisfactions received only stimulate instead of filling needs” (Durkheim [1895] 1950).

Indeed an urbanite has a fuller, more experiential and more challenging life and more utility (money or consumption) (Florida 2008, Glaeser 2011b). The urban challenging environment can potentially build a better fuller human being. And yet such an opportunity seems to be open for few, an upper class. In general, an urbanite achieves greater monetary achievement, but also cost of living is higher; one achieves higher position in society, but also hierarchies are taller, etc.

An interesting finding is that urbanites find life frustrating and they think they weren’t able to achieve their full share of happiness (Campbell 1981). This suggests that urbanites either have higher aspirations or lower achievement or both; but given extreme opportunity found in cities (Tönnies [1887] 2002, Milgram 1970, Fischer 1995, Glaeser 2011b, O’Sullivan 2009), it is rather aspirations. The end result is often cognitive overload and poor mental health (Simmel 1903, Lederbogen et al. 2011, Adli et al. 2017).

And a critical problem with the city is that for a person it is better to be a big fish in a small pond than a small fish in a big pond—reference line is higher in city Luttmer (2005), Firebaugh and Schroeder (2009), which brings us to comparisons in next section.

1.2 Comparison/Discrepancies: Multiple Discrepancies Theory (MDT)

Multiple Discrepancy Theory (MDT) (Michalos 1985) states that happiness is function of:

1. social comparison, e.g., co-workers, high school friends, relatives
2. comparison to various standards, e.g., clothes, car expected in a given profession
3. over-time: your SWB now is determined by how you were doing in the past and what you expect in the future e.g., losing may be more felt than gaining (Kahneman and Tversky 1979)

Per MDT, city is a negative influence on happiness: there is relative deprivation through upward comparisons and other mechanisms. Cities bestow great deal of freedom on a person Tönnies ([1887] 2002), “city air if free,” but is it usually forgotten that cities also enslave through urban finish and manners, etiquette, visual recognition, etc Marcuse (2015), Freud et al. (1930), Okulicz-Kozaryn (2015). City intensifies conspicuous consumption: urban etiquette, sophistication, manners and finish (White and White 1977, p. 169). City intensifies vice, crime, indifference, strangeness, aversion, and repulsion (Bettencourt and West 2010, Simmel 1903, Wirth 1938, Thrift 2005, Amin 2006, Veblen 2005b, Park 1915, Park et al. [1925] 1984, Tönnies [1887] 2002, White and White 1977).

One mechanism is built environment—corporate buildings, shops, advertisements—they signal success is wealth and material possessions (Joye et al. 2020). Visual and social comparisons are more likely in urban areas as there are more people and more stimuli. Likewise, use of social media is higher in urban areas (Perrin 2015), and both visual and social comparisons in real life and on social media can make people seek status through money, material possessions, and conspicuous consumption (Taylor and Strutton 2016, Joye et al. 2020). This is also arguably why thinkers such as Nietzsche and Thoreau felt better in the wilderness, away from crowds that are not only dull, energy-sucking, and uncreative, but also mired in endless petty competition and comparisons.

Humans are usually unwilling and unable to make absolute judgments, rather they constantly draw comparisons from their environment (Frey et al. 2008). Higher aspirations reduce wellbeing (Frey et al. 2008). And cities induce higher aspirations (Okulicz-Kozaryn 2015, Okulicz-Kozaryn and Valente 2017). Cities are also consumerist and materialistic—e.g., urbanites try to classify others in terms of visible attributes such as dress (Wilson 1985). A key finding is that people look upward, not downward, when making comparisons (Frey et al. 2008). People look upwards when making comparisons: wealthier people impose negative external effect on poorer people but not vice versa (Frey and Stutzer 2002). Hence, cities induce positional concerns as income ladders are tallest in cities. Campbell et al. (1976) makes an important point that aspirations do adjust to reality, and there is no other place on earth with more opportunity, inequality, and hierarchy than city (Tönnies [1887] 2002, Milgram 1970, Fischer 1995, Glaeser 2011b, O’Sullivan 2009, Campbell 1981).

A notable comparison that people make is against neighbors: do I keep up with Joneses? We tend to compare to people in our geographic or social proximity—and there are more such people by definition in a city. Marx has observed that “A house may be large or small; as long as the neighboring houses are likewise small, it satisfies all social requirements for a residence. But let there arise next to the little house a palace, and the little house shrinks to a hut.” (Marx and Engels 1849, quoted in Dittmann and Goebel 2010). There are many mansions in urban areas, and many very wealthy people, so a typical urbanite, by comparison, is poor and insignificant.

Notably, all these comparisons—against others, standards, and our own past, result in consumption arms race—people want to out-compete others—we want to demonstrate that we are better than others—but such race almost never can be won, and one ends up disappointed and unhappy (Frank 2004, 2005, 2012). People compare themselves with others who are richer (Frey and Stutzer 2002, Frey et al. 2008) and therefore feel poorer. Those living in less urban areas have fewer comparisons to make. Neighbors act as negatives Luttmer (2005), Firebaugh and Schroeder (2009)—rich neighbors make us unhappy—the denser the area, everything else equal, the more neighbors and more negatives—and we tend to make upwards comparisons—people look upwards when making comparisons: wealthier people impose negative external effect on poorer people but not vice versa (Frey and Stutzer 2002)

One reason we move to a metropolis such as London, Shanghai, or New York is simply because we want to demonstrate that we are better than others (Okulicz-Kozaryn and Valente 2017)—dwellers of big cities feel consistently more proud than dwellers of smaller locations (Balducci and Checchi 2009, Morrison 2016, Fuller 2017, Hanson 2015).

Urban way of life increases chances, but not necessarily improves outcomes. But it does increase relative deprivation—more people means more comparisons, and for happiness it is better to be a big fish in small pond (rural area). City stimulates but instead of fulfillment it increases wants and needs (“hedonic treadmill”)—indeed,

many had to leave the city to attain peace Nietzsche and Parkes (2005), Tesson (2013), Thoreau (1995 [1854]).

Indicators of Quality Of Life (QOL) are high in urban areas, but SWB is higher in less populated areas (Sirgy 2002, Okulicz-Kozaryn and Valente 2019, Okulicz-Kozaryn 2013). Then people are also arguably attracted to cities because cities have high QOL (opera houses, etc) but people actually end up with lower happiness than elsewhere.¹¹ The most conspicuous consumption or waste¹² tends to take place in metropolitan areas (cities and their extension, suburbs)–for striking examples of urban conspicuousness see Frank (2012).

1.3 Livability Theory

Livability theory (Veenhoven 2014, 2000) is also based on evolution/genes. Humans as all animals have innate needs–if those needs are satisfied, happiness follows. Human needs notably include those on Maslow hierarchy of needs in figure 1: physiological needs like water, food and sleep; social needs: e.g., contact with other living organisms (biophilia, social capital, nature, etc); and finally the highest human need, self-actualization. Then there are attributes of places, environment, or ecology–if it is “livable,” then happiness follows. Florida conceptualized this as a place pyramid in figure 2.

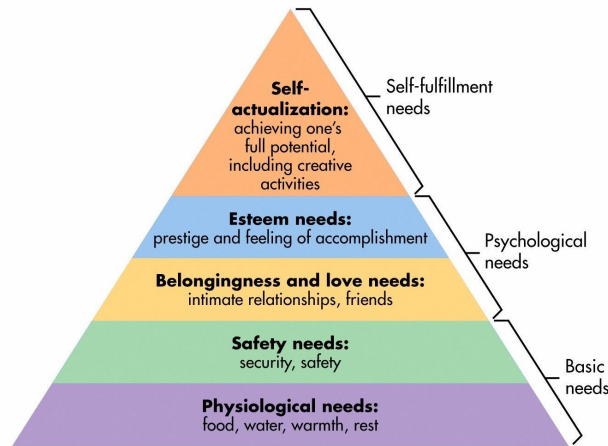


Figure 1: Maslow Pyramid, (Maslow [1954] 1987).

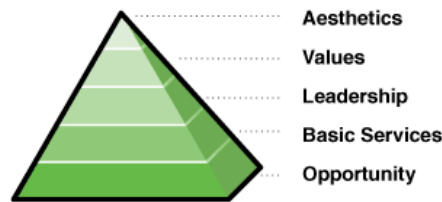


Figure 2: Place Pyramid, (Florida 2008, p 294).

¹¹E.g., arguably most popular urban QOL index Mercer ranks Vienna as #1 in the world. Many would wonder why? Opera house, symphony, museums etc are a distinctive feature of Vienna. But so what? Do most people actually use these amenities? Or are they just proud they are around? (Balducci and Checchi 2009, Morrison 2016).

¹²“Conspicuous consumption” and “waste” are used interchangeably by Veblen (2005a,b)–the key feature of conspicuousness is waste–wasting something so that it can be shown that one is rich enough to do so.

(Molotch 1976) states that it is necessary to increase city disamenities to have a sufficient population size as per central place theory (e.g., O’Sullivan 2009, p. 86) to produce city amenities such as opera houses.¹³

But human flourishing does not require urban amenities, such as opera houses, large airports, large museums, etc. They are neither necessary nor sufficient for human flourishing. Amenities such as opera houses if anything may help with the very highest need, self-actualization, but more basic needs (such as physiological) are endangered—for instance car pollution kills more people than car accidents (Jaffe 2014). Humans do have a fundamental need for freedom from air, noise, and light pollutions exemplified in cities. Social relations, an important human need, are endangered, in turmoil, of lower quality and more distrustful in a city (Wirth 1938, Thrift 2005, Amin 2006, Simmel 1903, Milgram 1970)¹⁴ Humans also have a fundamental need for adequate living space without crowding and freedom from consistent stress.

High density such as that in New York City or Hong Kong usually implies some degree of crowding for most people, which is not livable. For instance, New York City offers 250 sq ft apartments—given that a couple lives there with one child—it is less than 100 sq feet per person. Even more stunningly, some New Yorkers already live in 100 sq feet apartments. There are even so called “cubbyholes” at striking 40 square feet (Charlesworth 2014, Yoneda 2012, Weichselbaum 2013, Velsey 2016, Stevenson and Wu 2019).

Importantly, there are needs and wants (desires)—and much of urban glitz and attraction is about desires (Okulicz-Kozaryn and Valente 2017, Campbell 1981). And so in a way one’s happiness in a city is delusional as in Nozick’s experience machine (discussed in Brulde 2007). The point is that modern city does not help to satisfy human needs significantly in developed countries; human needs are already satisfied; if anything it was industrial revolution that produced city that helped to satisfy human needs such as shelter and clothing.

A very important distinctive feature of city life is that of specialization—as opposed to rural area, one has to deeply specialize in the city. Human density forces differentiation and specialization as already observed by Darwin and Durkheim (Wirth 1938, p. 15). City not only enables, but what is often missed, forces differentiation and specialization, because it’s the only way high density can be supported (e.g., Burgess 1926). And humans, as most other animals, have not evolved to spend abbot half of their wake time performing a repetitive task—it is against human nature: specialization alienates us from other humans and our nature (Marx 1844, [1867] 2010)—indeed one ideally should be able to “to do one thing today and another tomorrow, to hunt in the morning, fish in the afternoon, rear cattle in the evening, criticize after dinner” (Marx and Engels [1845] 1965)

2 Discussion

Kallis (2011), Kallis et al. (2012) made a convincing and yet largely overlooked case for degrowth of GDP. Cities are a growth machine (Molotch 1976)—this article, based on happiness theories, make a case for degrowth of cities.

Urban economists view cities as a highly desirable development (O’Sullivan 2009, Glaeser 2011b). To economist, the end-in-itself or the final outcome of interest is income and consumption, not happiness (Autor 2010). And accordingly economists advise people to maximize income and consumption, not happiness (Becker and Rayo 2008).

¹³Freud provides a wonderful discussion on civilization and its discontents (Freud et al. 1930).

¹⁴Fischer (1995) presents an alternative in his sub-cultural theory.

Then cities indeed are a desirable development, because the more people are crowded together (agglomeration and size economies), the more productivity, and the higher the GDP.

Except that we do not need to grow GDP anymore, and in fact we may actually need to degrow it Kallis (2011), Kallis et al. (2012), Klein (2014). If GDP is not to be maximized anymore, but SWB, then we should also degrow cities, because people are less happy there.

But because cities are the most environmentally friendly way of housing billions of people on this planet Meyer (2013), we cannot degrow cities before we degrow human population. So the first problem to be fixed is overpopulation, not over-urbanization. Proper discussion of overpopulation is beyond the scope of this happiness urban-rural gradient theory article.

Last, but not least, do keep in mind that the article refers to the developed world; in poorest countries, cities actually may help satisfy human needs, and accordingly may increase SWB. In poorest countries, life is often unbearable outside of cities lacking basic necessities such as healthcare and clean water. Hence, at very early stages of economic development, some urbanization may be useful.

References

- ADLI, M., M. BERGER, E.-L. BRAKEMEIER, L. ENGEL, J. FINGERHUT, A. GOMEZ-CARRILLO, R. HEHL, A. HEINZ, J. MAYER, N. MEHRAN, ET AL. (2017): “Neourbanism: towards a new discipline,” *The Lancet Psychiatry*, 4, 183–185.
- AMIN, A. (2006): “The good city,” *Urban studies*, 43, 1009–1023.
- AUTOR, D. (2010): “Lecture 3: Axioms of Consumer Preference and the Theory of Choice,” *MIT Open Course Ware*.
- BALDUCCI, A. AND D. CHECCHI (2009): “Happiness and Quality of City Life: The Case of Milan, the Richest Italian City,” *International Planning Studies*, 14, 25–64.
- BARTELS, M. (2015): “Genetics of wellbeing and its components satisfaction with life, happiness, and quality of life: A review and meta-analysis of heritability studies,” *Behavior genetics*, 45, 137–156.
- BECKER, G. AND L. RAYO (2008): “Comment on ‘Economic Growth and Subjective Well-Being: Reassessing the Easterlin Paradox’ by Betsey Stevenson and Justin Wolfers,” *Brookings Papers on Economic Activity*, 88–95.
- BETTENCOURT, L. AND G. WEST (2010): “A unified theory of urban living,” *Nature*, 467, 912–913.
- BRICKMAN, P., D. COATES, AND R. JANOFF-BUMAN (1978): “Lottery winners and accident victims: Is happiness relative?” *Journal of Personality and Social Psychology*, 36, 917–927.
- BRULDE, B. (2007): “Happiness theories of the good life,” *Journal of Happiness Studies*, 8, 15–49.
- BRULÉ, G. AND C. SUTER (2019): *Wealth (s) and Subjective Well-being*, vol. Social Indicators Research Series 76, Springer.

- BURGESS, E. W. (1926): *The urban community: selected papers from the proceedings of the American Sociological Society, 1925*, vol. 4, The University of Chicago press, Chicago IL.
- CAMPBELL, A. (1981): *The sense of well-being in America: Recent patterns and trends*, McGraw-Hill Companies.
- CAMPBELL, A., P. E. CONVERSE, AND W. L. RODGERS (1976): *The quality of American life: perceptions, evaluations, and satisfactions*, Russell Sage Foundation, New York NY.
- CARVER, C. (2003): "Pleasure as a sign you can attend to something else: Placing positive feelings within a general model of affect," *Cognition and Emotion*, 17, 241–261.
- CARVER, C. S. AND M. F. SCHEIER (1990): "Origins and functions of positive and negative affect: a control-process view." *Psychological review*, 97, 19.
- CHARLESWORTH, M. (2014): "Couple squeezes into one of Manhattan's tiniest apartments," *ABC7NY*.
- CHATTERJI, A. (2013): "London is the Unhappiest Place to Live in Britain," *International Business Times*.
- DAVIS, K. (1955): "The origin and growth of urbanization in the world," *American Journal of Sociology*, 429–437.
- DAWKINS, R. (2006): *The selfish gene*, Oxford university press, New York NY.
- DIENER, E. (2009): *Well-being for public policy*, Oxford University Press, New York NY.
- (2015): "Advances in the Science of Subjective Well-Being," *2015 ISQOLS Keynote*.
- DITTMANN, J. AND J. GOEBEL (2010): "Your House, Your Car, Your Education: The Socioeconomic Situation of the Neighborhood and its Impact on Life Satisfaction in Germany," *Social Indicators Research*, 1–17.
- DUANY, A., E. PLATER-ZYBERK, AND J. SPECK (2001): *Suburban nation: The rise of sprawl and the decline of the American dream*, North Point Press, New York NY.
- DURKHEIM, E. ([1895] 1950): *The Rules of Sociological Method*, The Free Press, New York NY.
- ENGELS, F. ([1845] 1987): *The condition of the working class in England*, Penguin, New York NY.
- EUBA, R. (2019): "Humans aren't designed to be happy," *medicalxpress*.
- FIREBAUGH, G. AND M. B. SCHROEDER (2009): "Does Your Neighbor's Income Affect Your Happiness?" *American Journal of Sociology*, 115, 805–831.
- FISCHER, C. S. (1995): "The subcultural theory of urbanism: A twentieth-year assessment," *American Journal of Sociology*, 543–577.
- FLORIDA, R. (2008): *Who's your city?*, Basic Books, New York NY.
- FRANK, R. (2012): *The Darwin economy: Liberty, competition, and the common good*, Princeton University Press, Princeton NJ.

- FRANK, R. H. (2004): “How not to buy happiness,” *Daedalus*, 133, 69–79.
- (2005): “Does Absolute Income Matter,” in *Economics and Happiness*, ed. by L. Bruni and P. L. Porta, Oxford University Press, New York NY.
- FREUD, S., J. RIVIERE, AND J. STRACHEY (1930): *Civilization and its discontents*, Hogarth Press London.
- FREY, B. S. AND A. STUTZER (2002): “What Can Economists Learn from Happiness Research?” *Journal of Economic Literature*, 40, 402–435.
- FREY, B. S. ET AL. (2008): “Happiness: A revolution in economics,” *MIT Press Books*, 1.
- FUGUITT, G. V. AND D. L. BROWN (1990): “Residential Preferences and Population Redistribution,” *Demography*, 27, 589–600.
- FUGUITT, G. V. AND J. J. ZUICHES (1975): “Residential Preferences and Population Distribution,” *Demography*, 12, 491–504.
- FULLER, T. (2017): “California’s Far North Deplores Tyranny of the Urban Majority,” *The New York Times*.
- GLAESER, E. (2011a): “Cities, productivity, and quality of life,” *Science*, 333, 592–594.
- (2011b): *Triumph of the City: How Our Greatest Invention Makes Us Richer, Smarter, Greener, Healthier, and Happier*, Penguin Press, New York NY.
- (2014): “Happiness is overrated,” *Boston Globe*.
- GLAESER, E. L. (2007): “The economics approach to cities,” Tech. rep., Harvard.
- GOLDMAN, E., C. FALK, B. PATEMAN, AND J. M. MORAN (2003): *Emma Goldman: Made for America, 1890–1901*, vol. 1, Univ of California Press.
- HAIDT, J. (2012): *The righteous mind: Why good people are divided by politics and religion*, Vintage.
- HANSON, V. D. (2015): “The Oldest Divide. With roots dating back to our Founding, America’s urban-rural split is wider than ever.” *City Journal*, Autumn 2015.
- HARVEY, D. (2012): *Rebel cities: From the right to the city to the urban revolution*, Verso Books.
- HEADEY, B. (2008): “Life goals matter to happiness: A revision of set-point theory,” *Social indicators research*, 86, 213–231.
- JAFFE, E. (2014): “Car Emissions vs. Car Crashes: Which One’s Deadlier?” *City Lab*.
- JOUTSENVIRTA, M. (2016): “A practice approach to the institutionalization of economic degrowth,” *Ecological Economics*, 128, 23–32.
- JOYE, Y., J. W. BOLDERDIJK, M. A. KÖSTER, AND P. K. PIFF (2020): “A diminishment of desire: Exposure to nature relative to urban environments dampens materialism,” *Urban Forestry & Urban Greening*, 54, 126783.

- KAHNEMAN, D. (2000): “Experienced Utility and Objective Happiness: A Moment-Based Approach,” in *Choices, Values and Frames*, ed. by D. Kahneman and A. Tversky, Cambridge University Press and the Russell Sage Foundation, New York NY.
- KAHNEMAN, D. AND A. B. KRUEGER (2006): “Developments in the measurement of subjective well-being,” *Journal of Economic Perspectives*, 22, 3–24.
- KAHNEMAN, D. AND A. TVERSKY (1979): “Prospect theory: An analysis of decision under risk,” *Econometrica*, 47, 263–291.
- KAHNEMAN, D., P. P. WAKKER, AND R. SARIN (1997): “Back to Bentham? Explorations of Experienced Utility,” *The Quarterly Journal of Economics*, 112, 375–405.
- KALLIS, G. (2011): “In defence of degrowth,” *Ecological Economics*, 70, 873–880.
- KALLIS, G., C. KERSCHNER, AND J. MARTINEZ-ALIER (2012): “The economics of degrowth,” *Ecological Economics*, 84, 172–180.
- KASSER, T. (2003): *The high price of materialism*, MIT press.
- KLEIN, N. (2014): *This changes everything: capitalism vs. the climate*, Simon and Schuster, New York NY.
- KRUEGER, R. F., S. SOUTH, W. JOHNSON, AND W. IACONO (2008): “The heritability of personality is not always 50%: Gene-environment interactions and correlations between personality and parenting,” *Journal of personality*, 76, 1485–1522.
- LEDERBOGEN, F., P. KIRSCH, L. HADDAD, F. STREIT, H. TOST, P. SCHUCH, S. WUST, J. C. PRUESSNER, M. RIETSCHEL, M. DEUSCHLE, AND A. MEYER-LINDENBERG (2011): “City living and urban upbringing affect neural social stress processing in humans,” *Nature*, 474.
- LENZI, C. AND G. PERUCCA (2016): “The Easterlin paradox and the urban-rural divide in life satisfaction: Evidence from Romania,” *Unpublished*; <http://www.grupposervizioambiente.it>.
- LUCAS, R. E., A. E. CLARK, Y. GEORGELLIS, AND E. DIENER (2004): “Unemployment alters the set point for life satisfaction,” *Psychological science*, 15, 8–13.
- LUTTMER, E. F. P. (2005): “Neighbors as Negatives: Relative Earnings and Well-Being,” *Quarterly Journal of Economics*, 120, 963–02.
- MARCUSE, H. (2013): *One-dimensional man: Studies in the ideology of advanced industrial society*, Routledge.
- (2015): *Eros and civilization: A philosophical inquiry into Freud*, Boston MA: Beacon Press.
- MARX, K. (1844): “Economic and Philosophical Manuscripts of 1844. Human Requirements and Division of Labour Under the Rule of Private Property,” www.marxists.org.
- ([1867] 2010): *Capital, vol. 1*, <http://www.marxists.org>.

- MARX, K. AND F. ENGELS ([1845] 1965): “The German Ideology (1845),” .
- MARYANSKI, A. AND J. H. TURNER (1992): *The social cage: Human nature and the evolution of society*, Stanford University Press.
- MASLOW, A. ([1954] 1987): *Motivation and personality*, Longman, 3 ed.
- MEYER, W. B. (2013): *The Environmental Advantages of Cities: Countering Commonsense Antiurbanism*, MIT Press, Cambridge MA.
- MICHALOS, A. (1985): “Multiple discrepancies theory (MDT),” *Social Indicators Research*, 16, 347–413.
- MILGRAM, S. (1970): “The experience of living in cities,” *Science*, 167, 1461–1468.
- MOLOTCH, H. (1976): “The city as a growth machine: Toward a political economy of place,” *American journal of sociology*, 82, 309–332.
- MORRISON, P. (2015): “Capturing effects of cities on subjective wellbeing,” *European Regional Science Association Conference, Lisbon*.
- MORRISON, P. S. (2011): “Local expressions of subjective well-being: The New Zealand experience,” *Regional studies*, 45, 1039–1058.
- (2016): “Pride in the city,” *REGION*, 3, 103–124.
- NIETZSCHE, F. W. (1896): *Thus spake Zarathustra: a book for all and none*, MacMillan and Company, New York NY.
- NIETZSCHE, F. W. AND G. PARKES (2005): *Thus spoke Zarathustra: A book for everyone and nobody*, Oxford University Press, New York NY.
- OFFICE FOR NATIONAL STATISTICS (2011): “Analysis of Experimental Subjective Well-being Data from the Annual Population Survey,” *The National Archives*.
- OKULICZ-KOZARYN, A. (2013): “City Life: Rankings (Livability) Versus Perceptions (Satisfaction),” *Social Indicators Research*, 110, 433–451.
- (2015): *Happiness and Place. Why Life is Better Outside of the City.*, Palgrave Macmillan, New York NY.
- (2016): “Happiness Research for Public Policy and Administration,” *Transforming Government: People, Process and Policy*.
- OKULICZ-KOZARYN, A. AND J. M. MAZELIS (2016): “Urbanism and Happiness: A Test of Wirth’s Theory on Urban Life,” *Urban Studies*.
- OKULICZ-KOZARYN, A. AND R. R. VALENTE (2017): “The Unconscious Size Fetish: Glorification and Desire of the City,” in *Psychoanalysis and the Global*, ed. by I. Kapoor, University of Nebraska Press.

- (2019): “Livability and subjective well-being across European cities,” *Applied Research in Quality of Life*, 14, 197–220.
- O’SULLIVAN, A. (2009): *Urban economics*, McGraw-Hill.
- PARK, R. E. (1915): “The city: Suggestions for the investigation of human behavior in the city environment,” *The American Journal of Sociology*, 20, 577–612.
- PARK, R. E., E. W. BURGESS, AND R. D. MAC KENZIE ([1925] 1984): *The city*, University of Chicago Press, Chicago IL.
- PERRIN, A. (2015): “Social media usage,” *Pew research center*, 52–68.
- PILE, S. (2005a): *Real cities: modernity, space and the phantasmagorias of city life*, Sage, Beverly Hills CA.
- (2005b): “Spectral Cities: Where the Repressed Returns and Other Short Stories,” in *Habitus: A sense of place*, ed. by J. Hillier and E. Rooksby, Ashgate Aldershot.
- PILE, S., C. BROOK, AND G. MOONEY (1999): “Unruly cities,” *Order/disorder*.
- PINKER, S. (2003): *The blank slate: The modern denial of human nature*, Penguin, New York NY.
- PLOMIN, R., N. L. PEDERSEN, P. LICHTENSTEIN, AND G. MCCLEARN (1994): “Variability and stability in cognitive abilities are largely genetic later in life,” *Behavior genetics*, 24, 207–215.
- PRETTY, J. (2012): *The earth only endures: On reconnecting with nature and our place in it*, Routledge, New York NY.
- ROBERTS, J. A. (2011): *Shiny Objects: Why We Spend Money We Don’t Have In Search Of Happiness We Can’t Buy* Author: James A. Roberts, Publisher, HarperOne.
- ROBERTS, J. A. AND A. CLEMENT (2007): “Materialism and satisfaction with over-all quality of life and eight life domains,” *Social Indicators Research*, 82, 79–92.
- ROSENTHAL, S. S. AND W. C. STRANGE (2002): “The urban rat race,” *Syracuse University Working*.
- (2003): “Agglomeration, Labor Supply, and the Urban Rat Race,” *Center for Policy Research Working Paper*.
- (2008): “Agglomeration and hours worked,” *The Review of Economics and Statistics*, 90, 105–118.
- SCHKADE, D. AND D. KAHNEMAN (1998): “Does living in California make people happy? A focusing illusion in judgments of life satisfaction,” *Psychological Science*, 9, 340–346.
- SCHWARTZ, B. (2004): *The Paradox of Choice: Why More Is Less*, New York NY: Ecco.
- SENIOR, J. (2006): “Some Dark Thoughts on Happiness,” *New York Magazine*.
- SIMMEL, G. (1903): “The metropolis and mental life,” *The Urban Sociology Reader*, 23–31.

- SIRGY, M. J. (2002): *The psychology of quality of life*, vol. 12, Springer.
- SKIDELSKY, E. AND R. SKIDELSKY (2012): *How much is enough?: money and the good life*, Penguin UK.
- STANGOR, C. AND J. WALINGA (2010): “12.3 Is Personality More Nature or More Nurture? Behavioural and Molecular Genetics,” *Introduction to Psychology-1st Canadian Edition*.
- STEVENSON, A. AND J. WU (2019): “Tiny Apartments and Punishing Work Hours: The Economic Roots of Hong Kong’s Protests,” *The New York Times*.
- STIGLITZ, J., A. SEN, AND J. FITOUSSI (2009): “Report by the Commission on the measurement of economic performance and social progress,” *Available at www.stiglitz-sen-fitoussi.fr*.
- STOOLMILLER, M. (1999): “Implications of the restricted range of family environments for estimates of heritability and nonshared environment in behavior–genetic adoption studies.” *Psychological bulletin*, 125, 392.
- TAYLOR, D. G. AND D. STRUTTON (2016): “Does Facebook usage lead to conspicuous consumption?” *Journal of Research in Interactive Marketing*.
- TESSON, S. (2013): *Consolations of the Forest: Alone in a Cabin in the Middle Taiga*, Penguin, London UK.
- THOREAU, H. D. (1995 [1854]): *Walden*, Dover Publications, Mineola NY.
- THRIFT, N. (2005): “But malice aforethought: cities and the natural history of hatred,” *Transactions of the institute of British Geographers*, 30, 133–150.
- TÖNNIES, F. ([1887] 2002): *Community and society*, DoverPublications.com, Mineola NY.
- VEBLEN, T. (2005a): *Conspicuous consumption*, vol. 38, ePenguin, New York NY.
- (2005b): *The theory of the leisure class; an economic study of institutions*, Aakar Books, New York NY.
- VEENHOVEN, R. (2000): “The four qualities of life,” *Journal of happiness studies*, 1, 1–39.
- (2014): “Livability Theory,” *Encyclopedia of Quality of Life and Well-Being Research*, 3645–3647.
- VEENHOVEN, R. AND J. EHRHARDT (1995): “The Cross-National Pattern of Happiness: Test of Predictions Implied in Three Theories of Happiness,” *Social Indicators Research*, 34, 33–68.
- VELSEY, K. (2016): “So You Think Your Place Is Small?” *The New York Times*.
- WARE, B. (2012): *The top five regrets of the dying: A life transformed by the dearly departing*, Hay House, Inc.
- WEICHSELBAUM, S. (2013): “The smallest apartment in New York–barely bigger than a prison cell for \$1,275 a month,” *NYDailyNews*.
- WHITE, M. G. AND L. WHITE (1977): *The intellectual versus the city: from Thomas Jefferson to Frank Lloyd Wright*, Oxford University Press, Oxford UK.

WILSON, T. C. (1985): "Urbanism, misanthropy and subcultural processes." *The Social Science Journal*.

WIRTH, L. (1938): "Urbanism as a Way of Life," *American Journal of Sociology*, 44, 1-24.

YONEDA, Y. (2012): "Woman's Impossibly Tiny 90 Sq. Ft. Manhattan Apartment is One of the Smallest in NYC," *Inhabitat*.