

WAYS TO GREATER HAPPINESS

A Delphi study¹

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ABSTRACT

In the first round of this Delphi study 14 experts suggested strategies for improving life-satisfaction. In a second round, the experts rated these strategies for a) effectiveness, b) feasibility and c) cost-effectiveness. They considered 56 strategies policy makers can use to raise average happiness in a nation and 68 ways in which individuals can raise their own happiness. Experts were informed about the average ratings made by the panel and about the arguments advanced. Then, in a third round, experts made their final judgments.

Summed ratings for average effectiveness and feasibility of the strategies ranged between 8,4 and 4.9 on scale 2-10, which means that most of the recommendations were deemed suitable. Agreement was slightly higher on policy strategies than on individual ways to greater happiness.

Policy strategies deemed the most effective and feasible are: 1) investing in happiness research, 2) support of vulnerable people and 3) improving the social climate, in particular by promoting voluntary work and supporting non-profits.

Individual strategies deemed most effective are: a) investing in social networks, b) doing meaningful things and c) caring for one's health.

Keywords: life-satisfaction, research review, policy advice, utilitarianism

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1 INTRODUCTION

Call for greater happiness

All humans want a satisfying life for themselves and their children. This is seen in the high ranking given to happiness in the value hierarchies of students all over the world (Diener et al. 1995) and in the preferences of ordinary people in western nations (e.g. Adler et al. 2012). Individually, people seek ways to achieve a more satisfying life and this quest is manifested in the soaring sales of 'how-to-be-happy' books and in the ongoing development of life-coaching businesses. Citizens in western societies call on their governments to improve the social conditions for happiness; for example, 85% of the British agree with the statement that 'A government's prime aim should be achieving the greatest happiness of the people, not the greatest wealth' (BBC 2006, question 14).

This call for greater happiness is not new, it has figured in western thought since antiquity and became particularly salient in the 18th century European Enlightenment, a spokesman of which was Jeremy Bentham, who declared that we should aim at 'greater happiness for a greater number' (Bentham 1789). This call for greater happiness gains strength these days, among other things because research has shown that greater happiness is possible (Veenhoven 2015).

Happiness research

Over the ages the subject of happiness has been a subject of philosophical speculation but in the second half of the 20th century it also became a subject of empirical research. In the 1950s, happiness appeared as a side-topic in research on successful aging and mental health. In the 1970's happiness became a main topic in social indicators research and since 2000, it has become the main subject of the field of Happiness Economics. All this research is gathered in the World Database of Happiness (Veenhoven 2017, 2018) To date (October 2017), this findings-archive covers the work of some 15.000 investigators, who have produced about 30.000 research findings, both findings on how happy people are (distributional findings) and findings on things that go together with more or less happiness (correlational findings).

The available research findings show that a high degree of happiness is possible. In answer to a question on how much they like the life they live, many people tick the highest possible response option, such as 'very happy' and in Denmark the average score on a numerical scale 0 to 10 is 8.4. (Diener & Diener 1997). Correlational findings give cues about conditions for happiness, both with respect to the kind of society in which people live happiest and to differences in individual ways of life between more and less happy people.

Inference of recommendations

These data are typically gathered with the purpose of identifying ways to greater happiness, both for policy makers and individuals. Yet deriving recommendations is

not easy. Correlations do not always denote causes and effects on happiness, which can differ across persons and situations. Hence, reading the available research data requires specialized expertise. Expertise is also required to judge the practical feasibility of strategies to raise happiness.

There is a growing literature on ways to greater happiness. Scientific publications on this subject are listed in the Bibliography of Happiness (Veenhoven 2017b), which currently consist of 282 publications on policy implications of happiness research⁵, e.g. Bok (2010), and 217 publications on observed effects of individual level interventions⁶ such as psychological trainings, e.g. Goldwurm et al. (2006). The scientific literature on what individuals themselves can do to get happier is much smaller, though there is an abundance of popular self-help literature, in which references are made to research findings.

Problems in getting an overview

The available literature on ways to greater happiness is difficult to oversee. Not only are the writings too numerous to digest for an interested layperson, but any view is limited by conceptual confusion and technical jargon. Even more problematic is that many of the recommendations are contradictory of others or apply only in particular situations. Another problem is that the derived recommendations are often not free from ideological bias. Therefore, considerable expertise is required to make sense of the advisory literature on ways to greater happiness.

One way to get an overview of the recommendations is to do a review study, that is, to read all the available literature and consider the strengths and weakness of the various recommendations advanced and propose a list of best ways to greater happiness. This takes a lot of time, and typically results in a book, which is then added to the pile of existing advisory literature. This approach is time-consuming and vulnerable to being skewed towards the preferences of the reviewer. An alternative way to separate to grain from the chaff among these many recommendations is to pick the brains of several experts and gather their views. That approach is followed in this study.

Aim of this study

We want to know what ways to greater happiness are recommended by the best-informed people of our time, that is, experts in empirical happiness research. We want to know what strategies they envision, how they rank these strategies for effectiveness and feasibility and how much consensus there is among the experts.

⁵ Section Rf 'Policy implications', direct link:

http://worlddatabaseofhappiness.eur.nl/hap_bib/src_pubs.php?mode=1&Subject=187

⁶ Section Re 'Individual level interventions', direct link

http://worlddatabaseofhappiness.eur.nl/hap_bib/src_pubs.php?mode=1&Subject=1714

2 METHOD

Expert-opinion was gathered using the Delphi-method. This involves structured consultation of a panel of specialists about a particular problem, typically involving several rounds, in which experts express their views and consider each other's opinions before making a final judgment. The method has been used for forecasting future developments (Wikipedia). Here, we use it to understand the implications of present day happiness research.

2.1 Experts

We invited senior scientists who have a strong record in empirical research on happiness, defined in the sense of satisfaction with one's life as-a-whole (cf. section 2.2). We selected these experts from the Directory of Happiness Investigators of the World Database of Happiness (Veenhoven 2017c) with an eye on the different strands that exist in this research field. Two experts from the funding agency (National Geographic) were added. Together 20 experts were invited, of which 15 agreed to participate, 10 of these completed all the steps described below, 2 participated only in round 1 and 3 only in round two. Two of us (Buettner and Veenhoven) also participated in the Delphi process. This resulted in the following list of participants in this study.

- Dan Ariely, Duke University, USA
- Mak Arvin, Trent University, Canada
- Leonardo Becchetti, University of Roma Tor Vergata, Italy
- Dan Buettner, Independent science writer and National Geographic, USA
- Bob Cummins, Deakin University, Australia
- Johannes Echstaedt, University of Pennsylvania, USA
- Bruno Frey, University of Zurich, Switzerland
- Carol Graham, Brookings Institute, USA
- David Halpern, Behavioral Insights Team, UK
- Bruce Headey, University of Melbourne, Australia
- John Helliwell, University of British Columbia, Canada
- Richard Layard, London School of Economics, UK
- Richard Lucas, Michigan State University, USA
- Sonja Lyubomirsky & Kristin Layous, University of California Riverside, USA
- Ruut Veenhoven, Erasmus University Rotterdam, Netherlands
- Heinz Welsch, University of Oldenburg, Germany
- Dan Witters, Gallup, USA

2.2 Concept life-satisfaction

We asked experts to focus on happiness in the sense of *life-satisfaction*; that is, the

subjective enjoyment of one's life as a whole (Veenhoven (1984 ch. 2) and provided a link to the Bibliography of Happiness⁷ in which this concept is delineated in much detail. Thus, we avoided the conceptual confusion that often haunts happiness advice. We reminded experts that the research literature on happiness defined in this particular sense is gathered in the World Database of Happiness (Veenhoven 2017).

2.3 Questions

We asked these experts the following two fundamental questions:

- A. What policies are most likely to yield greater happiness for a greater number of citizens in nations?
- B. What individual strategies are most likely to enhance people's happiness in the long run?

2.4 Procedure

The following 5-step procedure was followed:

1. We asked experts to suggest their best ideas to address each of the two questions above: what ways to follow and why.
2. We sorted the answers, eliminated redundancy and rephrased some of the suggestions.
3. We presented the resulting list of strategies to the experts, together with the justifications provided in first round. We asked them to rate each of the strategies for effectiveness, cost-effectiveness and feasibility.
4. We then presented the list obtained in step 3, consisting of strategies and initial ratings, to the experts and invited them to comment.
5. The experts then made their final rating. For this second rating, we limited to the 40 strategies on which experts had disagreed most in step 2. In this last round, the experts were also asked to consider a set of specific individual behaviors that figure in popular happiness advice. Rating of these latter strategies was optional.

Full detail about each of these steps and the data file is available online at

<https://www.eur.nl/en/media/71222>

2.5 Analysis

⁷ https://worlddatabaseofhappiness.eur.nl/hap_bib/bib_fp.php

We counted the *number of experts* who had rated that recommendation for each of the proposed ways to greater happiness. We next computed the *mean ratings*, on a 1 to 5 scale, for 1) effectiveness of the strategy, 2) feasibility and 3) cost effectiveness. We also computed the *standard deviation* of the ratings, to get a view on rated agreement. These numbers are reported in online Excel files, links to which are at the bottom of [Table 2](#) and [Table 3](#).

We then ranked all the strategies by the sum of effectiveness and feasibility. All rankings were classified into 4 degrees, the means into 4 degrees of effectiveness and feasibility, the standard deviation into 4 degrees of expert agreement. [See table 1](#). We used standard deviations from the mean as boundaries, top and bottom quarters respectively above and below one standard deviation from the mean and the two middle categories within one standard-deviation above and below the mean.

[Table 1](#) about here

We will first discuss the general tendency in the ratings; which strategies are deemed the most appropriate and which the least? In that analysis, we focused on the means. Then, we considered the differences in the ratings, to determine on which strategies the experts agreed with most and which least, focusing on the standard deviations. Finally, we looked at the divergence between the ratings of effectiveness and feasibility, to determine which ways to greater happiness were deemed effective but not to be feasible and which feasible but not effective. This analysis was done by comparing findings across rows in the tables.

2.6 Presentation

The format of the results section 3 of this paper differs from the usual design of scientific reviews papers. One reason is that enumerating expert's readings of the research literature requires a different way of referencing than appraising that literature oneself. Another reason is that technical innovations in the publication of scientific texts allow a more condensed and better controllable presentation than in traditional review articles.

2.6.1 How the results are presented

All rankings are presented in [table 2](#) and [table 3](#). The colors used in these tables are explained in [table 1](#).

Average ratings of effectiveness and feasibility are presented in shades of **green**, where darker shades denote higher scores. Differences in these ratings among experts are presented in shades of **red**, where darker red denotes more disagreement.

Links at the bottom of these tables lead to excel files that contain more detail, which readers can use to sort the ratings in different ways.

2.6.2 Difference with standard literature reviews.

Technical

We take advantage of the fact that academic texts are now mostly read on screen, rather than on printed paper. This allows us to use make links from statements in the text to corresponding rows in tables. We also provide a link to an online appendix⁸, in which the reader can sort tables in different ways, re-analyze the quantitative database and read all the underlying statements made by the experts. Links in the appended tables allow the reader to jump to underlying verbal statements and back again. Such easy and precise referencing is not possible in traditional reviews.

We also take advantage of the fact that the use of colors is easily possible in electronic texts. We use colors in the text and tables to mark differences in effectiveness of ways to greater happiness and consensus among experts. This allows more efficient transfer of information than a single color printed text can provide. These technical innovations fit our subject matter well, the scattered nature of which is not easy to overview.

Narratively

The results section is a numeration of proposed ways to greater happiness, rather than a running discussion of one particular thesis as is most common in academic papers. Together, 124 ways to greater happiness have been reported and a clear overview of that amount of recommendations requires a more deeply layered structure than usual in academic papers, which typically use only use 3 layers. This results in a rather 'chopped' presentation of the results in section 3; unusual but functional. Since readers tend to scan texts, rather than read from beginning to the end, this way of presentation has its advantages.

Another narrative difference is that we present fewer references than usual in literature reviews. This article is about the expert's reading of the research literature on happiness, not our reading of that literature, and we cannot list all the literature the experts may have read. Instead, we provide full detail on the expert's statements made in the Delphi process in the on-line appendix, again using the possibilities of e-publishing. Access to the voluminous literature (cf. section 1.1) on which the experts draw is provided by a linked reference to the Bibliography of Happiness (Veenhoven 2017b), in which *all* scientific literature on happiness, as defined in section 2.2, is listed, taking advantage of another technical innovation, an on-line 'findings-archive' on happiness (Veenhoven 2018).

3 RESULTS

We will now focus on the combined ratings for effectiveness and feasibility of the strategies for greater happiness. We will not consider these matters separately. In

⁸ <https://www.eur.nl/en/media/71222>

this paper we discuss cost-effectiveness only shortly, since the ratings for this point were very similar to the general effectiveness ratings. We mark the main findings in in the sections 3.1.4 and 3.2.4. More detailed information is available in extended presentations of the ratings, a link to which is found at the bottom of the tables 2 and 3.

The highest possible rating for summed effectiveness and feasibility of a strategy was 10 (average score of 5 on both) and the lowest possible rating was 2 (average 1 on both). We did not find any extreme scores, with summed ratings for effectiveness and feasibility ranging from 8.4 to 4.2. This means that our experts were not overenthusiastic; however, with an average score of 6.6, we can assume that most of the proposed ways to greater happiness were deemed suitable.

Not all strategies were equally valued. Below we first present the strategies deemed most effective and feasible and next review the strategies deemed least effective and feasible. In our presentation, we follow a slightly different categorization than presented in the tables, in order to present the same findings in another light.

3.1 What do experts think that policymakers can do to produce greater happiness for a greater number of citizens?

Together, the experts proposed 56 strategies for raising the level of happiness in a country. Their ratings of these strategies are presented in table 2, both the average scores of effectiveness and feasibility and the differences in these rating.

As announced in section 2.5, we will first consider the average ratings, focusing on the sum of effectiveness and feasibility (Mean), then the differences in ratings across experts (SD) and lastly the differences in ratings for effectiveness and feasibility.

[Table 2](#) about here

3.1.1 Average ratings for effectiveness and feasibility

Which of the 56 proposed strategies were judged to be the most apt, which the least? To answer this question, we need to focus on column 4 in table 2 where degrees of summed effectiveness and feasibility are indicated, using different shades of **green**: the darker the green, the most apt.

Most apt

The following policy strategies were rated the most effective and feasible. Expert agreement was typically high on these approaches.

Invest in happiness research

Experts call for more happiness research, since this is required for evidence based policy making and for overcoming ideological prepossession about ways to greater happiness. The experts call for three strands of research in particular: a) [looking for](#)

[what works for whom](#), rather than focusing on an average citizen, b) [monitoring happiness](#) over time, to assess progress and effectiveness of interventions and c) assessing [how much of the things deemed conducive for happiness is optimal](#); for example: How many years of their life should citizens spend sitting in their school desks, for the sake of greater happiness?

Foster freedom

Experts recommend to foster the citizens [freedom to choose](#), in particular to [combat discrimination](#) and to improve individual [ability to choose](#). This latter advice fits their recommendations to invest in education and mental care, to be mentioned below.

Invest in good governance

Experts emphasize the importance of institutional quality in a country and in particular [good government](#). Though few citizens will associate happiness with bureaucracy, well-functioning public organizations does add to the happiness of a great number of them. One of the reasons is that institutions, like courts and employment offices, create a predictable environment, in which citizens can plan their lives and are less dependent on pressures by kin and neighbors.

Support vulnerable people

Experts advise prioritizing strategies aimed at the least happy citizens in a nation. In this context, they recommend findings ways to: a) to [reduce loneliness](#) and b) to [combat discrimination](#) and c) to provide [free health care](#). In this context, several experts also mentioned d) [minimum income security](#) e) [support of families](#), f) [reduction of unemployment](#), and g) [political empowerment](#), but the panel is more divided on these issues.

Improve social climate

Experts mention several ways to improve the social climate in a nation and in particular recommend policies to a) [promote voluntary work](#) and b) increase [support for non-profit organizations](#). Some of the experts recommend introduction of civil service. Further recommendations in this context rated average for effectiveness and feasibility are: c) to [facilitate social contacts](#), such as by providing d) [support for local fairs and festivals](#). The above-mentioned advice to [support families](#) also fits this context.

Invest in health

The experts advise governments to provide a) [free health care](#), a strategy already mentioned above in the context of focusing on vulnerable people, b) [to prioritize prevention](#) and in that context and c) to [encourage healthy living](#). Expert call for d) [investment in mental health care](#) in particular and in that line also finding ways e) to [bring life-skills into schools](#) and f) [foster people's ability to choose](#).

Invest in education

Experts agree largely that a) [investment in education](#) is an effective and feasible way to greater happiness in a country, but they are less unanimous on whether b) [free education](#) is required for that purpose. They are also less unanimous, but still positive, about particular investments, such c) to bring [life skills into the school](#) curriculum d) maintain [order in schools](#), e) [monitor happiness in schools](#) and f) also support [happiness education outside the school](#) system.

Support work

Macro-economic strategies score not too high in the expert ratings, as we will see in more detail below, however most experts recommend a) [improvement of working conditions](#) and b) [reduction of unemployment](#).

Focus on economic stability

With respect to macro-economic policy, the experts advise a) an economic policy that favors [stability over growth](#). Fostering [economic growth](#) is at the bottom of table 2. Though experts recommend b) providing [minimum income security](#) and c) [reducing unemployment](#) (as mentioned above for supporting vulnerable people), the experts are less in favor of [reducing income inequality](#).

Higher tax

Most of the above recommendations will require [higher tax rates](#). Experts deem that strategy effective, but not well feasible.

Least apt

Let us now look at the ways to greater happiness deemed less effective by the majority of the experts, presented in the lower part of table 2. Since at least one expert has proposed a strategy, low average ratings typically go together with high difference of rating, the correlation between average and standard deviation is $-.43$. Note that a low score for effectiveness and feasibility does *not* mean that the proposed strategy will be counter-productive and lower average happiness in a nation; rather it means that the 'medicine' will not work.

Combat capitalism and consumerism

Though market forces are often held responsible for unhappiness in modern societies (e.g. by Lane 2000), not all experts support all suggestions for taming these forces, such as a) to [counter-balance global capitalism](#). Experts also do not support b) [reduction of working hours](#) and c) stimulating consumption of [stimulus-goods over comfort-goods](#). This is not to say that our panel embraces materialism, because they unanimously see some point in d) [favoring saving over consumption](#) and expect little gain in e) [supporting home-ownership](#) and f) [fostering economic growth](#). Above, we have also seen that the experts are positive about some correction of market forces, such as [improving work conditions](#) and providing [minimum income security](#).

Improve happiness advice and coaching

Experts are skeptical about fostering professional happiness coaching, typically fruits of the new 'positive psychology'. Still, we have seen above that they endorse [investment in mental health care](#) and bringing [life-skills into the school](#) curriculum.

Support modernization

Though people live happiest in the most modern societies, the panel is divided on whether [backing spontaneous societal modernization](#) (rather than slowing it down), will add to greater happiness in a country. The experts agree on a low rating for feasibility of this strategy.

3.1.2 Agreement and disagreement among experts about policy strategies

How much consensus is there within the panel? On what strategies do the experts agree? On which do they diverge? Expert agreement is indicated by shades of red in table 2.

Agreement

Experts agree most on: a) [reduce loneliness](#), b) [combat discrimination](#), c) [focus on the least happy](#) and d) [empower and involve citizens](#). They also agree strongly on the lower effectiveness of e) maintaining [order in schools](#), f) investing in a [greener environment](#), g) [education of parents](#) and h) [reducing income inequality](#).

Disagreement

In their ratings of strategies policy makers can follow to raise the level of happiness in a country, experts differ most on the following economic strategies: a) [improving work-conditions](#) and b) [reduction of unemployment](#) and c) increasing [foreign aid](#). Experts also differ in their ratings of the following issues in health policy: d) [prioritizing prevention](#), e) [encourage healthy living](#) and d) [getting people to the dentist](#). Another point of disagreement is f) [reduce use of cars](#) and g) [stimulate study abroad](#).

3.1.3 Difference between effectiveness and feasibility of political strategies

Ways to greater happiness can be effective but not easily feasible, or well feasible, but not very effective. Do such differences occur in the ratings of our experts? Below we consider the differences of more than 1 point on the 1 to 5 ratings of effectiveness and feasibility of particular strategies. Note that the panel was selected for expertise in effectiveness in the first place and may not be equally acknowledged on practicability.

Effective but not feasible

Several macro-economic strategies are seen to be effective, but not feasible. These are: a) [favor economic stability over economic growth](#), b) [increase support for non-profits](#), c) [increase taxes](#) and d) [reduce income inequality](#). A similar difference appears in the ratings of two psychological strategies: e) [foster ability to choose](#) and f) [support happiness education](#). Likewise, experts deem effectiveness higher than feasibility for g) [promoting voluntary work](#), such as by civil service for every body and h) [empowering citizens](#) and involving them in the political process. Surprisingly, the biggest difference (2 points), was on [maintaining order in schools](#).

Feasible but not effective

Interestingly, none of the strategies *policymakers* can follow were deemed better feasible than effective.

3.1.4 Cost-effectiveness

The macro strategies deemed most effective + feasible are also rated high for cost-effectiveness, that is, rated 4 or more. This is most apparent for investment in happiness research, such as a) [monitoring happiness](#) in nations, findings out b) [what works for whom](#) and assessing c) [how much of conditions for happiness is optimal](#) in a nation. Likewise, investments in social support are deemed cost-effective, in particular d) [reducing loneliness](#) and e) a policy [focus on the least happy](#). Promoting f) [good governance](#) is also rated high for cost-effectiveness.

None of the strategies that were rated effective + feasible (6,7 or more) was deemed to be cost-*ineffective* (3 or less) and none of the strategies in the lower half of table 2 was rated cost-effective.

3.2 What do experts think that individuals can do to make their lives more satisfying life?

Together, the experts proposed 68 strategies that individuals could follow to raise their own happiness. These options and the expert's ratings of these for effectiveness and feasibility are presented in Table 3. Again, we first summarize the strategies rated highest and next the ones rated lowest, we then consider unanimity among the experts and lastly the possible divergence between effectiveness and feasibility of the strategies.

[Table 3](#) about here

3.2.1 Average ratings for effectiveness and feasibility of individual strategies

Which of the individual strategies are reckoned to be the most apt? Which the least? Differences ratings are indicated using shades of **green** in the columns of [Table 3](#)

Most apt

The general strategies in the top of the table are rated higher than the more specific recommendations at the bottom. The main recommendations are as follows:

Connect

Experts advise in the first place to focus social bonds, such as by a) [investing in friends and family](#), b) [joining a club](#), c) [acting nicely](#) d) [marrying](#) and e) [socialize with colleagues](#). They see more gain in social contact when f) the [focus is on the happiness of others](#) and that advice fits the strategy recommended below.

Seek meaning

Experts think that living a meaningful life will make that life more satisfying. They recommend the following ways to seek meaning: a) live up to your values, and if you are religious, [practice your religion](#), b) [be generous](#) and c) [volunteer](#), and d) do [not focus on your own happiness](#) in the first place and e) [seek a purpose in life](#), which e) you may clarify by [writing a personal mission](#) statement.

Be active

Experts agree that an active way of life is the most satisfying. They recommend in particular a) getting [regular physical exercise](#), b) to [keep learning](#) and c) to [set goals](#) and to [seek challenges](#). This advice goes counter to common notions of an easy happy life.

Mind your health

Alongside their advice to live an active life, experts also recommend a) to get [regular and ample sleep](#) and some of them even endorse the recommendation b) to [optimize one's bedroom for good sleep](#). With respect to physical health experts advise c) to [check your health](#) regularly and d) to invest in a good [health insurance](#). With respect to mental health, there is modest support for f) use of [professional advice](#), though mental health care figures prominently in the policy strategies reviewed above in section 4.1. Still, some trainings for positive mental health are mentioned, such as cultivating a positive outlook on life, which we discuss below.

Cultivate a positive outlook

Several strategies are mentioned in this context. a) Fostering [self-acceptance](#) is rated effective, but not easily feasible and experts disagree on the effectiveness of b) to [laugh often](#), c) follow [trainings](#) that promote a positive outlook, d) to [keep a gratitude journal](#) or e) to [write about positive experiences](#).

Save

Economic issues are again not very prominent in the rankings. The highest scores are for the advice to a) enroll in [automatic saving plans](#), b) to [avoid getting into debt](#)

and c) to [invest in durables and savings](#). Experts are less supportive of the advice d) to [minimize credit cards](#).

Find a way of life that fits you

Not very prominent either, is the more abstract advice to a) find a [lifestyle that fits you](#) and in particular, b) [a job that fits you](#). This strategy requires you c) to [know your strengths](#) and d) to monitor [your happiness](#), neither of which are seen as very effective or feasible.

Least apt

At the bottom of table 3 are many strategies deemed ineffective or not feasible; most of these are rather specific recommendations.

Get rich

Contrary to the common view that money buys happiness, experts do not advise a) to [build wealth](#), which is deemed ineffective and not very feasible for most individuals. The same holds for b) [own your house](#). These judgements do not fit too well with the above-mentioned advice to save.

Have children

[Raising a family](#) is rated as feasible, but not as an effective way of raising one's own happiness. [Owning a pet](#) is deemed slightly more effective, though experts diverge on that matter. Experts do endorse the advice to [live close to family](#), though they deem this not easily done.

Reduce workload

In spite of considerable publicity about work-stress and related burnout (e.g. Schor 1991) experts do not whole-heartedly endorse the advice to a) [limit your working hours](#), and see no point at all in b) work part-time. They see more effect in c) [avoiding a long commute](#), but rate the feasibility of that option as low for most individuals.

Choose for an alternative life-style

Several of the lowest rated strategies are part of unconventional ways of life, inspired by anti-materialism, new-age thinking, environmental concern and food-awareness, such as: a) [de-clutter](#), b) [eliminate screens in your house](#), c) [designate a 'flow' room](#), d) [create a meditation space](#) and d) [become a vegan](#). As noted in section 2.4, these strategies were part of a set of optional questions on specific behaviors, which we added in the last round. One of the reasons for the low scores is probably, that there is little research on these matters, and for that reason, several experts may have skipped these optional questions.

3.2.2 Agreement and disagreement among experts about individual strategies

What can we say about consensus in the panel on ways in which individuals can make their life more satisfying? Differences in expert agreement are indicated using shades of red in table 3. The darker the red, the less agreement.

Agreement

Experts agree the most on *high* effectiveness of a) [investment in family and friends](#), b) [leading an active life](#), such as by c) [setting goals](#) and d) [volunteering](#). Experts also agree on the importance of: e) [being open for enjoyments](#), f) [good sleep](#) and g) [self-acceptance](#). They also agree in *low* ratings for h) [opting for an average house](#) and i) [de-cluttering](#).

Disagreement

Experts disagree most on the recommendations inspired by positive psychology, such as a) [laugh](#), b) [train to have a positive outlook](#), c) [develop skills required for greater happiness](#) and d) monitor your happiness. They also disagree e) on the effectiveness of [self-employment](#) for leading a happier life.

3.2.3 Difference between effectiveness and feasibility of individual strategies

The following ratings of effectiveness and feasibility differed more than 1 point on scale 1 to 5. Remember that the panel was selected for expertise in effectiveness in the first place.

Effective but not feasible

The experts rate effectiveness of the following psychological strategies higher than their feasibility: a) [accept yourself](#), b) [seek a job that fits you](#) and c) [find a way of life that fits you](#). A similar difference appears in the ratings of two more tangible strategies: d) [keep out of debt](#) and e) [avoid long commutes](#). The greatest difference in effectiveness and feasibility is seen in f) [live in an environment of trust](#).

Feasible but not effective

The experts rate practicability higher than effectiveness for a) [use/learn social media](#) and b) create a '[pride shrine](#)' in your house. In both cases, the difference is due to a low effectiveness rating.

3.2.4 Cost-effectiveness of individual strategies

The individual strategies rated highest for effectiveness + feasibility are also rated highest for cost-effectiveness, that is 4 points or more. This concerns building social bonds, such as by a) [investing in friends and family](#), b) [joining clubs](#) and c) [focusing on the happiness of others](#). Likewise, life-style matters rated high for cost-effectiveness are: d) [be active](#), [experience nature](#) and e) get [exercise](#).

Only one of the individual strategies deemed effective and feasible, was rated

cost-ineffective, that is below 3. This was f) [investing in experiences](#). None of the strategies rated lower than 6,7 for effectiveness + feasibility was considered cost-effective,

4 DISCUSSION

Above, we summarized the experts' responses, focusing on strategies deemed both effective and feasible. Let us now take a helicopter view of the results. Below, we will first consider the differences between the view taken by experts and prevailing public opinion on ways to greater happiness. We then dwell on the difference in views among experts; we set out to establish consensus but find much disagreement. Next, we consider possible bias in the expert ratings; could their reading of facts be influenced by their political preferences, or by their cultural background? Lastly, we propose an agenda for further synthetic research on ways to greater happiness.

4.1 Why not more agreement?

The prime aim of this study was to assess scientific consensus on ways to greater happiness. We found considerable agreement among our experts, but also much disagreement, as can be seen from the many red colored cells in tables 2 and 3. Why is there so much disagreement among experts?

One reason is in the maturity of this research field. Happiness research is new, taking off in the 1990s, and many issues have not yet had sufficient research for the answers to become crystallized. This is why reviewers disagree so often (cf. section 1) and why, for getting an overview, we resorted to the Delphi method.

Another reason may be found in disciplinary differences in our panel of experts, in particular between economists and psychologists, each drawing on a somewhat different research literature. The divergence in effectiveness ratings for life-coaching and psychological exercises may result from this.

One more reason lies in the questions we presented the experts. We asked them for ways to greater happiness that apply for all countries and all individuals, that is, one-size-fits-all recommendations. We did so, because we wanted to grasp consensus about universal conditions. Yet, in reality, conditions for happiness differ considerably between and within countries.

4.2 Leftish bias?

Some of the strategies endorsed by the experts fit a left wing socialist-political agenda, such as a) [free health care](#) and free [education](#), b) [minimum income security](#), d) [increased taxes](#) and d) favor [economic stability over growth](#). Yet experts do not cherish all leftish ideas, given their *low* ratings for d) [reduction of income inequality](#) and e) [counterbalancing global capitalism](#). In their rating of individual strategies, the

experts also do *not* endorse e) [less work](#) or f) [lavish spending](#). Note that experts were asked to judge ways to greater happiness based on their scientific knowledge, not to present their ideological preferences.

4.3 Limitations

The available scientific knowledge about happiness was largely developed in rich western nations, research done by western investigators and paid by western agencies. Can that have colored the expert's recommendations? Probably not very much in the case of policy recommendations (question 1), since these are largely based on cross-national studies. A western bias is more likely to exist in the recommendations for personal ways to greater happiness (question 2), since individual level data were mostly gathered in western contexts. The experts themselves are all western and predominantly male (cf. section 2.1), and this may have influenced their reading of the data. This first Delphi study is not the last word, but rather marks understanding in progress.

4.4 Future research

This study reflects the views of leading experts on happiness at this moment. Since much progress is made in this research field, it would be interesting to repeat this study every 10 years.

The possible western bias in research and expertise will be much reduced by that time. If not, we can add experts from particular regions and cultures. A step further is to ask experts to focus on differences in ways to greater happiness; what will work for whom?

Another possible addition can be, to run parallel studies among policy-makers and, practitioners in the field of life-coaching and the public. This would provide us a better view on the difference between current beliefs about ways to greater happiness and established facts on that matter.

5 CONCLUSIONS

There is considerable expert consensus on some ways in which policy makers can raise the level of happiness in a country, in particular to a) invest in more happiness research, b) to strengthen social bonds, c) to promote good governance, and d) to invest in education. They also agree on the **ineffectiveness** of several common strategies, among which e) fostering economic growth.

Likewise, experts agree that ways individuals can follow to raise their own happiness are; a) invest in your social bonds, b) keep learning and c) lead an active life. Experts also agree on the **ineffectiveness** of several trendy alternative ways of

life.

There is also a lot of disagreement in our panel of experts in empirical happiness research and it is a task for further research to get a better view on the suitability of the various ways to greater happiness.

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Table 1
How the expert ratings were sorted

Ways to greater happiness	Rating by experts on scale 1-5					
	Effectiveness		Feasibility		Cost-effectiveness	
	M	SD	M	SD	M	SD
Strategy						

Key to colors

Average rating by experts (Mean)				Expert agreement (Standard Deviation)			
Very good	Good	Average		High	Medium high	Medium low	Low

Table 2

Expert ratings of ways to greater happiness for a greater number of citizens (policy strategies)

Strategy	Sum mean effectiveness + feasibility	Effectiveness + Feasibility SD	Effectiveness Mean	Effectiveness SD	Feasibility Mean	Feasibility SD
Look for What Works for Whom	8,5	1,35	4,5	0,82	3,8	0,92
Promote Voluntary Work, Civil Service	8,3	1,25	4,3	0,67	4,0	0,67
Assess How Much is Optimal	8,1	1,66	4,1	0,83	3,9	1,20
Reduce Loneliness	8,1	1,24	4,5	0,67	3,6	0,90
Monitor Happiness	8,1	1,56	4,0	1,04	4,1	0,67
Focus on the Least Happy	7,8	1,06	4,4	0,51	3,3	0,89
Combat Discrimination	7,5	1,08	4,5	0,71	3,0	0,94
Support Non-Profits	7,5	1,27	3,8	0,79	3,7	0,67
Foster Freedom to Choose	7,5	1,51	3,8	0,98	3,6	0,84
Bring Life Skills to Schools	7,5	1,62	3,9	1,31	3,6	0,67
Invest in Education	7,4	1,17	4,2	0,79	3,2	1,03
Support of Fairs and Festivals	7,3	1,56	3,3	0,97	4,1	0,79
Encourage Healthy Living	7,3	1,42	3,6	1,03	3,6	0,70
Facilitate Social Contacts	7,3	1,60	3,8	0,87	3,5	0,90
Support Families	7,2	1,47	4,0	1,04	3,1	0,94
Foster Peoples Ability to Choose	7,2	2,17	3,7	1,37	3,5	1,00
Promote Good Government	7,1	0,99	4,5	0,53	2,6	0,97
Improve Work Conditions	7,1	1,76	4,3	0,97	2,8	0,87
Prioritize Prevention	7,0	1,49	3,8	0,98	3,1	0,99
Empower and Involve Citizens	7,0	1,70	3,9	0,94	3,0	0,94
Maintain Order in Schools	7,0	1,70	3,7	1,10	3,3	0,67
Be Explicit About Greater Happiness	7,0	2,41	3,1	1,51	3,9	1,14

Provide Minimum Income Security	6,9	1,24	4,2	0,94	2,8	0,87
Reduce Unemployment	6,9	0,83	3,9	0,90	3,0	0,77
Provide Free Healthcare	6,9	1,14	4,5	0,52	2,5	1,21
Promote Financial Education	6,9	1,70	3,2	0,98	3,7	0,89
Promote Sports	6,8	1,11	3,3	0,75	3,6	0,79
Invest in Mental Health Care	6,7	1,56	3,9	0,94	2,8	1,17
Support Happiness Education	6,7	2,35	3,2	1,40	3,5	1,09
Top-up' Wages Program	6,5	1,21	3,8	0,60	2,7	0,90
Monitor Happiness in Schools	6,5	2,70	3,2	1,40	3,4	1,43
Invest in a Greener Environment	6,5	1,43	3,4	0,97	3,1	0,74
Limit Urban Sprawl	6,4	1,43	3,7	0,95	2,7	0,82
Educate Parents	6,4	1,51	3,2	0,87	3,2	0,63
Favor Economic Stability Over Growth	6,3	1,06	3,9	0,32	2,4	0,97
Increase Foreign Aid	6,3	1,34	3,5	0,97	2,8	0,63
Facilitate Internet Access	6,3	1,01	2,5	0,52	3,7	0,65
Promote 8 Hours of Sleep	6,3	1,79	3,3	1,01	3,0	1,00
Invest in Clean Air	6,2	1,14	3,7	0,95	2,5	0,53
Provide Free Education	6,2	1,14	3,7	0,48	2,5	1,08
Favor Saving Over Consumption	5,9	1,29	3,1	0,88	2,8	0,63
Promote Healthy Eating	5,8	2,08	2,7	1,07	3,2	1,19
Get People to the Dentist	5,8	1,62	2,8	1,03	3,0	0,82
Improve Happiness Advise/Coaching	5,8	2,30	2,7	1,23	3,1	1,16
Support Home Ownership	5,6	1,43	2,7	1,01	2,9	0,54
Increase Taxes	5,6	1,44	3,3	1,14	2,3	0,65
Support Ongoing Societal Modernization	5,5	1,29	2,6	1,03	2,9	0,70
Foster Economic Growth	5,5	1,04	2,5	0,82	3,0	1,10
Reduce Income Inequality	5,5	1,21	3,2	0,98	2,3	0,65
Reduce Working Hours	5,4	1,73	2,8	1,06	2,7	0,98
Decentralize	5,3	1,42	2,9	1,31	2,5	0,82
Stimulate Study Abroad	5,0	1,50	2,1	0,93	2,9	0,78

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Stimulate Consumption of Stimulus Goods Over Comfort Goods	4,8	1,75	2,7	1,23	2,2	0,83
Reduce Use of Cars	4,7	1,37	2,5	0,90	2,2	0,83
Counterbalance Global Capitalism	4,2	1,81	2,6	1,43	1,6	0,70
Mean	6,6	1,50	3,5	0,95	3,07	0,87
SD	0,96	0,38	0,64	0,25	0,54	0,19
Median	6,7	1,4	3,7	1,0	3,0	0,9
SD+	7,54	1,88	4,13	1,20	3,62	1,06
SD-	5,61	1,11	2,85	0,69	2,53	0,68

An Excel file with more detail is available at: <https://www.eur.nl/en/ehero/2017-1supplementtable2xlsx>

Using this file, you can sort the ratings in different ways

Table 3

Expert rating of ways to greater happiness for a person can follow (individual strategies)

Strategy	Sum of mean effectiveness + feasibility	Effectiveness + Feasibility SD	Effectiveness Mean	Effectiveness SD	Feasibility Mean	Feasibility SD
Invest in Friends and Family	9,0	1,25	4,7	0,47	4,2	0,92
Join a Club	8,5	1,51	4,1	1,04	4,3	0,67
Be Active Both physically and mentally	8,4	1,19	4,5	0,52	3,8	1,04
Practice Your Religion	8,2	1,39	4,0	0,89	4,0	0,87
Get Physical Exercise	8,0	1,63	4,1	0,94	3,7	1,06
Act Nicely	7,9	1,60	4,0	1,00	4,0	0,94
Be Generous	7,9	1,37	4,2	0,87	3,8	1,03
Check Your Health	7,9	1,17	3,8	0,87	3,8	0,67
Experience Nature	7,8	1,40	3,7	1,10	4,1	0,57
Socialize with Colleagues Outside of Work	7,8	1,55	3,7	0,79	4,0	0,94
Focus on the Happiness of Others	7,8	1,87	4,2	0,98	3,6	1,07
Keep Learning	7,7	1,16	3,7	0,79	4,0	0,67
Volunteer	7,7	1,57	4,3	0,65	3,4	1,17
Marry	7,7	1,42	4,2	0,98	3,4	1,26
Don't Seek Happiness	7,6	1,85	4,0	1,05	3,4	1,19
Set Goals	7,6	1,13	4,1	0,54	3,4	0,73
Enjoy	7,6	1,13	4,0	0,63	3,6	0,73
Get Regular and Ample Sleep	7,5	1,18	4,3	0,65	3,2	1,03
Enroll in Automatic Savings	7,5	2,07	3,8	1,04	3,8	1,04
Accept Yourself	7,4	1,67	4,5	0,69	3,0	1,22
Seek Challenges	7,3	1,73	3,8	0,75	3,4	1,01

Safe Surroundings	7,3	1,38	4,0	0,71	3,0	1,15
Laugh	7,3	2,28	3,7	1,37	3,7	1,10
Invest in Good Health Insurance	7,3	0,89	3,8	0,63	3,4	0,52
Find a Way of Life That Fits You	7,3	1,67	4,1	1,04	2,9	1,13
Seek Purpose	7,2	2,18	3,7	1,15	3,5	1,13
Keep a Gratitude Journal	7,1	1,29	3,3	1,01	3,9	0,57
Optimize Your Bedroom for Sleep	7,0	1,41	3,3	1,11	3,7	0,52
Avoid Long Commutes	7,0	1,12	4,3	0,67	2,7	0,87
Keep Out of Debt	7,0	1,20	4,1		3,1	0,93
Seek a Job That Fits You	7,0	1,56	0,78		2,7	1,06
Train to Have a Positive Outlook	6,9	2,21	0,79	1,45	3,5	1,04
Know Your Strengths	6,9	1,62	3,6	1,03	3,3	0,71
Invest in Experiences	6,8	1,56	3,3	1,06	3,7	0,82
Opt for an Average House	6,7	0,95	3,3	0,67	3,4	0,53
Write About Positive Experiences	6,7	1,34	3,0	1,00	3,8	0,79
Add at Least One New Happy Person	6,7	1,42	3,8	0,63	2,9	1,10
Choose to Live Near Family	6,6	1,00	3,8	0,75	2,8	0,39
Grow a Garden	6,6	1,90	3,4	0,73	3,0	1,15
Live in an Environment of Trust	6,5	2,00	4,3	1,12	2,3	1,04
Develop Skills for Happiness	6,5	2,16	3,4	1,24	3,1	0,94
Invest in Durables and Savings	6,4	0,92	3,2	1,09	3,1	0,78
Limit Your Work Hours	6,3	1,41	3,5	1,08	2,9	0,78
Use/Learn Social Media	6,3	1,41	2,4	0,92	3,9	0,93
Eat Healthy	6,3	1,68	2,9	1,08	3,3	0,79
Own a Pet	6,2	1,75	3,1	1,22	3,2	1,03
Develop Arts Appreciation	6,1	2,19	3,1	1,05	3,1	1,21
Create a Meditation Space	6,1	1,45	3,3	1,12	2,8	1,09
Use Professional Advice	6,1	1,22	3,1	1,00	3,2	0,87
Monitor Your Happiness	6,1	2,55	2,8	1,40	3,3	1,27

Write a Personal Mission Statement	6,0	1,67	3,7	1,15	3,6	1,13
Create a Giving Account	5,9	1,66	2,6	1,07	3,3	0,82
Maximize Sunlight	5,9	1,57	3,4	0,74	2,6	1,13
Curate a Tight Social Circle (Moai)	5,7	1,50	3,3	0,89	2,6	0,79
Have children	5,7	1,83	2,7	0,98	3,1	1,10
De-Clutter	5,7	0,82	2,9	0,64	2,8	0,75
Own Your House	5,5	1,31	2,6	1,07	2,9	0,33
Designate a "Flow" Room	5,5	1,58	2,5	1,08	3,0	0,82
Choose Live in a Suburb or a Small Town	5,5	1,60	2,9	1,05	2,8	0,97
Minimize Credit Cards	5,4	2,01	2,8	1,40	2,7	1,25
Live in Quiet Surroundings	5,4	0,98	3,1	0,83	2,4	0,53
Learn the Value of Your Free Time	5,4	2,07	3,0	1,12	2,6	0,98
Eliminate Screens	5,4	1,17	2,6	1,12	2,9	0,88
Build wealth	5,3	1,35	2,8	0,94	2,4	0,81
Create a Pride Shrine	5,3	0,89	2,1	0,99	3,4	0,52
Work Part-Time	5,1	1,60	2,6	0,81	2,5	1,08
Employ Yourself	5,1	1,81	2,6	1,36	2,5	0,67
Become a Vegan	3,9	1,35	1,5	0,93	2,3	0,71
Mean	6,7	1,5	3,5	0,95	3,3	0,90
SD	1,01	0,38	0,65	0,22	0,51	0,23
SD+	7,72	1,90	4,14	1,17	3,76	1,13
SD-	5,70	1,14	2,83	0,72	2,75	0,67

An Excel file with more detail is available at: <https://www.eur.nl/en/ehero/2017-1supplementtable3xlsx>

Using this file, you can sort the ratings in different ways.

