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The Sources of Meaning and Meaning in Life Questionnaire (SoMe): Relations to demographics and well-being Tatjana Schnell*

Institute of Psychology, Personality and Individual Differences, University of Innsbruck, Austria The grade space of the state of

Shortfalls of widely used measures of meaning in life are described. Their use results in biased correlations and restriction of the complexity inherent in experiences of meaning. To qualify results, the Sources of Meaning and Meaning in Life Questionnaire (SoMe) is employed. It offers separate scales to measure a positive and a negative dimension of meaning: meaningfulness - a fundamental sense of meaning and belonging, and crisis of meaning the evaluation of life as frustratingly empty and lacking meaning. Both intercorrelate moderately (-.38/-.35). Additionally, the SoMe assesses 26 sources of meaning. Based on a representative sample, relationships between meaningfulness, crisis of meaning, and sources of meaning with demographics are reported (Study 1). In Study 2, SoMe scales are correlated with positive (mood, satisfaction with life) and negative (neuroticism, anxiety, depression) indicators of well-being. SEM reveals that meaningfulness predicts positive well-being, but is not predictive of negative well-being. Crisis of meaning is a strong predictor for both positive and negative well-being.

Keywords: meaning in life; meaningfulness; crisis of meaning, purpose in life; scale construction; SoMe; existentialism; well-being

Introduction

Sometimes of the second Not only with the establishment of positive psychology have relationships between meaning in life and wellbeing been investigated. Viktor Frankl posited a universal will to meaning, assuming that it is the basic interest of individuals to find meaning in life. He also claimed that a frustration of this will to meaning can result in symptoms and problems similar to those of psychological origin (Frankl, 1996). His assumptions have been investigated empirically in numerous studies. Many researchers employed the Purpose in Life (PIL) test, which is based on Frankl's theory and measures the degree to which an individual experiences purpose in life (Crumbaugh & Maholick, 1964). Crumbaugh, Raphael, and Schrader (1970) found a relationship of r = -.52 between PIL and anxiety; PIL and neuroticism correlated at r = -.32. Pearson and Sheffield (1975) employed both the PIL and the Eysenck Personality Inventory; they published correlations of r = -.34/-.48 between purpose in life and neuroticism for men and women. In a study by Harlow, Newcomb, and Bentler (1986), the PIL showed strong negative relationships with depression (r=-.65), self-derogation (r=-.71), and suicide ideation (r=-.55). Edwards and Holden (2001) report similarly strong negative correlations between suicide ideation and PIL (r = -.53) and Sense of Coherence (SOC) (r = -.46). Dog The State of the State of the State of

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Frankl's assumption that an absence of meaning in life is associated with negative well-being or even pathologic states thus seems to be supported by empirical data. Various studies also report positive relationships between meaning (PIL; Fulfillment and Framework scales of the Life Regard Index, LRI, and SOC) and measures of well-being (e.g. Debats, 1998; Zika & Chamberlain, 1992). Accordingly, 'the main view of the clinical work associating meaning in life and well-being is that psychopathology may arise from lack of meaning and, conversely, attainment of meaning is healing' (Scannell, Allen, & Burton, 2002, p. 94). produkt is a carter of the second of the

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Drawing on Chamberlain (1988), Scannell et al. emphasize the necessity to link meaning to positive as well as negative measures of well-being, since 'positive and negative components of well-being are influenced by different factors and are not just opposite ends of a continuum' (2002, p. 95). The same should hold for the two components of meaning in life, meaningfulness and crisis of meaning. Nevertheless, the most widely used measures of meaning in life do not distinguish between both as two dimensions of experience. Meaning in life is conceived as a continuum from crisis of meaning to meaningfulness. Due to the conceptual interdependence of both variables, effects of (1) the experience of purpose or meaning, (2) the absence of

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life (e.g. 'I really feel good about my life'; 'Nothing very outstanding ever seems to happen to me'). The 'framework' subscale overlaps with measures of depression ('I just don't know what I really want to do with my life'; 'I get completely confused when I try to understand my life').

Most of what we know today about relationships between meaning and well-being is based on studies employing one of these three measures. Though the problem of confounding is long-known, a qualification of flawed results has only just started. If meaningfulness is assumed to be a specific quality of faction with life, or absence of depression, a clean assessment of the construct is needed. Moreover, if meaning is worth investigating and measuring, it should not merely be a composite of other personality constructs, but rather have a degree of specificity and uniqueness' (Mascaro et al., 2004, p. 846).

Simultaneous assessment of positive and negative aspects of meaning in life

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validity of an instrument, and the second specific inclusion of negative items thus adversely affects the Rindsleisch, & Burroughs, 2003). In many cases, Rodebaugh, Woods, & Heimberg, 2007; Wong, Barling, & Nault, 2002; Pilotte & Gable, 1990; Dmitrieva, & Farruggia, 2003; Kelloway, Loughlin, (Benson & Aocevar, 1985; @ Greenberger, Chen, represent item phrasing rather than item content mixed-item scales have shown that factor structures measure the same as positive items. Several analyses of However, recoded negative items do not necessarily construction to reduce effects of acquiescence. negative content. This is a common strategy in item life. The LRI consists of items with positive and interest vs. routine or boredom vs. satisfaction with meaningfulness scale requests ratings with regard to enthusiasm and despair vs. excitement. The SOC the PIL asks for self-ratings regarding boredom vs. Both PIL and SOC use bipolar items, For instance,

Moreover, as demonstrated by Clark and Watson (1995), any negative mood term shows high covariation with neuroticism: '... the inclusion of several such affect-laden items, in turn, ensures that the resulting scale – regardless of its intended construct – will be primarily a marker of neuroticism' (p. 8). While this for scales solely measuring negative states of experience, it creates difficulties when scales are meant to represent positive frames of mind, as is the case with the PIL, the SOC, and the LRI. High negative correlations found between PIL, SOC, LRI scales correlations found between PIL, SOC, LRI scales and negative affect (as in Zika & Chamberlain, 1992) and negative affect (as in Zika & Chamberlain, 1992)

meaning, and (3) a frustration of the will to meaning (a crisis of meaning) cannot be determined.

A second point worth considering is the common use of bi-polar items or scales because they might produce artificially high correlations with variables of negative well-being. Finally, these instruments have also been criticized for being confounded with positive and negative affect and satisfaction with life, thus the aspects of subjective well-being as defined by Diener aspects of subjective well-being as defined by Diener (1984). Though criticism has been voiced by many authors, a qualification of findings regarding the relationship between meaning in life and subjective well-being is still due.

explained in detail. is introduced, shortfalls of PIL, LRI, and SOC are qualities of meaning and well-being. Before the SoMe contribute to a clarification of associations between stantial deviations from previous findings; they thus 20Me seales and measures of well-being show subunconfounded 'pure' measures. Correlations between and crisis of meaning, they can be regarded as cumscriptions of the experiences of meaningfulness reverse-coded items. By using relatively narrow cirscales are conceptualized as uni-polar, avoiding meaning with other psychological variables. Both presence of positive as well as negative experiences of enabling researchers to correlate the absence and measure meaningfulness and crisis of meaning, thus & Becker, 2006, 2007) contains two separate scales to Questionnaire (SoMe; Schnell, 2004, 2009; Schnell The Sources of Meaning and Meaning in Life

Confounded measures of meaning in life

The measures most often used in research on meaning in life are the PIL (Crumbaugh & Maholick, 1964), the LRI (Debats, 1998), and the SOC (Antonovsky, 1993), as a whole, or its subscale 'meaningfulness.' The availability of these instruments instigated numerous studies, even when meaning in life had little acceptance studies, even when meaning in life had little acceptance as a research subject. Each of them presented a new perspective and thus strongly contributed to the understanding of meaning in life. All of them show high internal consistencies.

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Notwithstanding, they are confounded with psychological variables such as satisfaction with life, positive affect, depression, or boredom. The PIL has often been criticised (Dufton & Perlman, 1986; Dyck, 1987; Mascaro & Rosen, 2005; Mascaro, Rosen, & Morey, 2004; Schnell & Becker, 2006; Steger, Frazier, Oishi, & Kaler, 2006). It is known to be confounded with both depression and satisfaction with life. Half of the items of the SOC-subscale 'mean-tingfulness' centre on boredom and indifference to life. The LRI's subscale 'fulfillment' contains several items concerned with well-being and (dis-)satisfaction with

strong relationship between negative states of mood comprised by the measures of meaning, and negative affect. Instead, interpretations usually claim that the experience of meaning in life renders negative affect unlikely, or vice versa.

Negation and contradiction

PIL and SOC employ bipolar items representing continua from despair to purpose, etc. They use grammatical antonymy and assume functional antonymy. As marked by several authors (cf. Riemann, 1990; Wishner, 1960), grammatical antonyms do not necessarily correspond to psychological opposites. Furthermore, aggregated scale values indicate a position on a continuum of two poles conceived as mutually excluding each other. High values represent meaningfulness or purpose, low values stand for a conglomerate of despair, boredom, emptiness and crisis of meaning. Assessment of a mere absence of meaning is only possible through choice of a middle value, which is difficult to interpret, since it can mean 'neither X nor Y,' 'equiproportionately X and Y,' 'disproportionately X and Y,' 'simultaneously wholly X and wholly Y' and many more items (according to Yorke, 2001, there are 15 possible midpoints of bi-polar scales). The design for him the second section than

As Yorke (2001) notes, Blanche's (1957) analysis of contraries and contradictions shows the shortfalls of bipolar scales. Blanché questions the classical design of opposition as used in bipolar scales and proposes 'a six-term logic in which both contraries and contradictions have a third term standing in opposition to each' (Yorke, 2001, p. 180). Figure 1 depicts the six-term notion transferred to the construct of meaning in life.

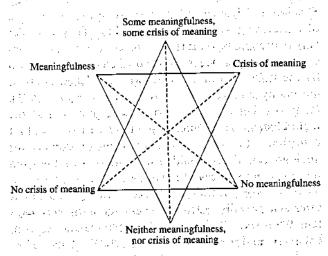


Figure 1. Six-term notion of meaning in life. Triangles: contradictions; broken lines: contraries.

'Meaningfulness' and 'No meaningfulness' are negating each other, as do 'Crisis of meaning' and 'No crisis of meaning.' For both contraries, grading and middle-points are conceivable, as clarified by Bonfiglioli (2008, p. 110): 'As well known, the possibility of having a meson, i.e., an intermediate, is peculiar to some species of contraries, the gradable ones, and distinguishes contrariety from contradiction.' 'Meaningfulness' and 'Crisis of meaning' are contradictions. There is no gradable transition from one to the other; both describe different dimensions of experience. Bipolar scales with contradicting poles should thus be viewed critically.

The PIL is conceptualized as such a continuum between contradicting poles. While Crumbaugh and Maholick describe the PIL as a measure of 'purpose in life' (1964, p. 201), they also aim 'to measure the condition of existential frustration described by Frankl' (1964, p. 201). The total score's interpretation is thus fuzzy, indicating a certain degree of existential frustration or purpose in life. The SOC comprises a mixture of bipolar items making use of contradiction (e.g. interesting versus routine) and negation (e.g. no goals versus clear goals), but no distinction is made between the two when calculating the total score which usually is interpreted as indication of the degree of absence or presence of meaningfulness, thus drawing on the principle of negation.

In the LRI, negative items are phrased as negations as well as contradictions to positive items. None of the three questionnaires thus differentiates between negation and contradiction. Though prone to misinterpretation, continua between contradicting constructs are employed. Therefore, none of the instruments allows for a clear distinction of the six states of meaning in life displayed above.

The Sources of Meaning and Meaning in Life Questionnaire (SoMe)

Theoretical background: A hierarchic model of meaning

The theoretical conceptualization of the SoMe draws on a hierarchic model of meaning (Schnell, 2004, 2009; Schnell & Becker, 2007; see Figure 2) based on action theory. It comprises five levels of increasing complexity and abstractness, from perception to the experience of meaning in life. As demonstrated by different research programs, the five levels are interconnected. On each of the levels, meaning-making processes occur. They entail the integration of objects, actions, or events into a larger context, thus creating coherence (cf. Reker & Wong, 1988). Higher levels provide the integrative framework for lower levels.

Perception is based on complex neuronal interpretation of sensory stimuli. Only by integration into

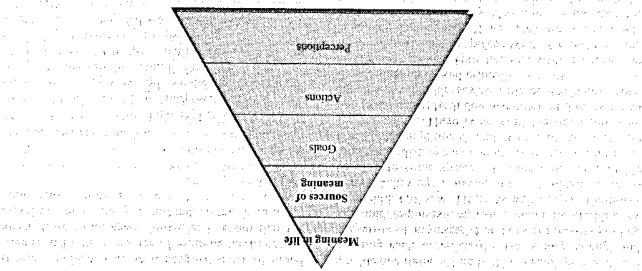


Figure 2. The hierarchic model of meaning.

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a cultural artifact' (p. 470), with the first in the first incomplete without goal fulfillment a 'Western myth, Yalom (1980) who deemed the belief that life is association of goals and meaning. They agree with Ebersole and Quiring (1991) even object to the meaning and a greater sense of purpose in life. argue that only intrinsic goals relate to a sense of

purpose, as stressed by Emmons (1996): personality is a more adequate predictor of overall life alone, integration between goals and other aspects of Instead of focusing on goal pursuit and attainment

in his or her social context (p. 333). integrated within an overall structure of the individual unless these goals are intrinsically meaningful and will not lead to subjectively satisfying long-term states into a broader social system... Goal attainment per se concrent self-system, and the integration of these goals filling goals, the integration of these goals into a Meaning comes from involvement in personally ful-

more general sources of meaning. susjogonsly, they should also concur with the even continuite to more distal or higher level goals; hierarchic model of meaning: it refers to goals that Vertical coherence ties in with the assumption of the autonomy and relatedness (cf. Deci & Ryan, 1991). by the individual and concur with the basic needs of gruence. Congruence is achieved when goals are chosen two components of integration, coherence and conof integrating goals into personality. They consider Sheldon and Kasser (1994) emphasize the importance

and direction of action in different areas of life are basic orientations; they motivate commitment to behavior and emotion (Schnell, 2004, 2009). They (cf. Leontiev, 2007), underlying human cognition, were empirically identified as ultimate meanings Sources of meaning, as measured by the SoMe,

> simultaneously activated goal. inherent purpose of an action is the pursuit of the an action and the pursuit of a certain goal. The stimulus is thus commensurable with the instigation of goal code with a motoric code. The interpretation of a This, in turn, activates an action code that combines a stimulus activates the generation of a perceptional code. the principle of common coding. The presence of a and goal attainment are inherently connected through by TS). According to Prinz (2000), perception, action constituted by the receiver' (Roth, 1998, p. 107; transl. existing schemes they gain significance: 'Meaning is

> > the Committee of the age of the

higher-order themes and meanings in life' (Emmons, situations, and can be generalized with reference to concretized with reference to specific activities and level of abstraction in a structural hierarchy, can be Cantor, 1989) because 'they are typically at a middlemiddle-level units of personality analysis (Buss & (Emmons, 2005, p. 732). Goals have been termed behavioral movement toward identifiable endpoints' orientation toward the future in the sense of a Barndollar, 1996). The pursuit of goals implies an ting can also be unconsciously generated (Bargh & sciously accessible (Emmons, 2005), though goal setaction, (Kruglanski, 1996, p. 613). Goals are confuture state of affairs one intends to attain through A goal is commonly understood as a 'desirable

equates goals and life purpose, Ryan and Deci (2004) purpose, (Emmons, 2005, p. 733). While Emmons the concretized expression of future orientation and life trying to do' (2005, p. 734). He claims that 'goals are person's goals and purposes, that is, what a person is construct of "meaning" has no meaning outside of a As Emmons notes, 'some have argued that the Goals are often seen at the core of meaning in life,

(Leontiev, 1982). Due to their generalized and relatively stable character (see Development), sources of meaning may be considered a component of personality. As individual configurations, they are comparable to Leontiev's concept of worldview, defined as 'a more or less coherent system of general understandings about how human beings, society, and the world at large exist and function' (2007, p. 245), including ideals of the desirable human being, society, and world that are worthy of personal commitment. Like worldview, sources of meaning are accessible to consciousness and can be reflected upon. For most of the time though, they are pre-conscious. By providing a direction for 'invested, committed living' (Ryff & Singer, 1998, p. 8), they enable a meaningful structuring of life without explicitly striving for meaningfulness.

Meaning in life represents the most abstract and complex level of the model. It emerges from a global evaluation of life. Two dimensions of meaning in life can be distinguished: the (positive) experience of meaningfulness, and the (negative) experience of a crisis of meaning. Both are conceived as having an affective, cognitive, and motivational component (Reker & Wong, 1988; Wong, 1998). Nevertheless, findings from research on the independence of positive and negative affect (cf. Cacioppo & Berntson, 1994; Diener & Emmons, 1984; Schimmack, 2001) seem applicable to them. Accordingly, meaningfulness and crisis of meaning are viewed as (relatively) independent dimensions. Thus, variation in one can occur without reciprocal variation in the other. This type of independence is called 'discriminant validity' by Schimmack (2003), or 'uncoupled activation' by Cacioppo and Berntson (1994).

Meaningfulness is defined as a fundamental sense of meaning, based on an appraisal of one's life as coherent, significant, directed, and belonging. A judgment on one's life as frustratingly empty, pointless and lacking meaning amounts to a crisis of meaning. Meaningfulness is understood as a basic trust, unconsciously shaping perception, action, and goal striving. Crises of meaning, in contrast, are usually experienced consciously. They are triggered by a violation of a sense of coherence and continuity, caused by critical life-events, personally relevant failure, biological threats, ego threats, or disorganization of psychological operations (Janoff-Bulman, 1992; Schmitz, 2005). Because they are highly salient, crises of meaning are usually followed by a search for meaning (cf. Baumeister, 1991; Klinger, 1998; Skaggs & Barron, 2006). Crises of meaning should thus be less stable than meaningfulness, as they vanish after a successful search for meaning. While sources of meaning significantly predict both meaningfulness and crisis of meaning, they cannot fully account for them. And the same state

The questionnaire

The SoMe (German edition: Lebe, Schnell, 2004, 2009; Schnell & Becker, 2006, 2007) is a 151 item inventory. It allows for a highly differentiated measurement of 26 sources of meaning, and it provides a clean assessment of both meaningfulness and crisis of meaning.

Development

The sources of meaning assessed by the SoMe were identified in a large qualitative research program (see Schnell, 2004, 2009). In structured in-depth interviews, a laddering technique (cf. Leontiev, 2007, Neimeyer, 1993) was employed to identify ultimate meanings underlying the contents of existentially relevant cognition ('personal myth'), action ('personal rituals'), and emotion ('experiences of transcending'). 'Laddering' was applied to all contents mentioned by the interviewees; they were repeatedly asked about the contents' meaning until an ultimate meaning was brought up that was not reducible to other meanings. After several cyclical processes of content analysis, carried out by a team of researchers, 26 ultimate meanings (the sources of meaning) remained (see Table 1). Regarding their basic character, sources of meaning can be compared to Deci and Ryan's intrinsic values. Intrinsic values are not reducible to other values, and they do not exist for the sake of other values (Ryan, Huta, & Deci, 2008). While intrinsic values have a normative character, implying an 'ought,' an aspired state, sources of meaning actually are in use; they represent 'values put to action' (Schnell, 2009).

Items for the 26 sources of meaning, the meaningfulness and crisis of meaning scales were examined and improved in several versions of the SoMe, resulting in the present final version. Its statements are rated on a scale from 0 (strongly disagree) to 5 (strongly agree). Internal consistencies range from .83-.93 for the dimensions (M = .89), and .65-.95 for the scales (M=.79), see Table 1; these and following values were derived by the German version of the SoMe: LeBe, representative sample, N = 603). Sources of meaning, meaningfulness and crisis of meaning show a high short-term stability; 2-month test-retest stability coefficients average .81 for the scales, .90 for the dimensions. Stability of sources of meaning and meaningfulness is still high after an interval of 6 months (.72 for the scales, .78 for the dimensions); erar Horaco (1864) for crisis of meaning, it is .48.

The SoMe's construct, content, discriminant, factorial, and incremental validity have been demonstrated in numerous studies (Gapp & Schnell, 2008; Hoof & Schnell, 2009; Imruck, 2009; Schnell, 2004, 2008, 2009, in press; Schnell & Becker, 2006, 2007).

Sources of meaning scales quantify the degree of realization for each of the 26 orientations. Orthogonal as well as oblique factor analyses suggest a summary of

the por as oneself.) (Alexander de la latter (Alexander) seeming a realization of 'loving one's neigh-

only cover the most obvious sources of meaning, Therefore, the categories named by Emmons (2003) Development) to identify implicit sources of meaning. Schnell and colleagues used a laddering technique (see meaningful life, ratings of sources of meaning, etc.), notions of meaningful experiences (questions about Emmons refers to. While the latter relied on conscious in contrast to those used by the research programs meaningful experiences used by Schnell (2004, 2009) might be attributed to the method of identifying in a more comprehensive and differentiated way. This these major categories of meaning, but represent them cluded that the SoMe dimensions not only capture of horizontal selftranscendence. It can thus be convertical selftranscendence, and generativity is a subscale religion/spirituality make up the SoMe dimension and love, two subscales of well-being and relatedness; relationships/intimacy are represented by community ity. Achievement is a subscale of selfactualization; religion/spirituality, and self-transcendence/generativemerging: achievement/work, relationships/intimacy, Wong, 1998), Emmons sees the following factors sonal meaning (Ebersole, 1998; Emmons, 1999; Drawing on different research programs on permeaningful experience identified by Emmons (2003). The SoMe dimensions cover the four categories of

The meaningfulness scale measures the degree of contributing to society.

easily: work, relationships, religion/spirituality, and

highly valued by society and thus coming to mind

read: phrase complementary facets of its definition; they subjectively experienced meaningfulness. Items para-

With crisis of meaning, the degree of emptiness and I think my life has a deeper meaning. • I lead a fulfilled life.

When I think about the meaning of my life

- I find only emptiness.

 I feel part of a bigger whole. ● I have a task in life.

• I think that there is meaning in what I do.

versions, a Russian, Spanish, and Czech version exist.

in press). Apart from the German and English

sug types of meaning can be composed (Schnell,

states of meaning can be differentiated (see Figure 1) By means of these two scales, all six conceivable

- a frustrated will to meaning are assessed:

- I don't see any sense in life. • My life seems meaningless.
- My life seems empty. in life. I suffer from the fact that I don't see any point
- needs. The dimension might also be seen as might suggest that relatedness serves hedonic ... others are closely linked to each other. This
- aspects of caring for oneself and caring for (As factor analyses repeatedly showed, these two enjoying life's pleasures in privacy and company. decency, and the tried and tested; All the same
- (4) Well-being and relatedness: Cultivating and

(3) Order: Holding on to values, practicality,

diate concerns; (2) Selfactualization: Employing, challenging, and

(1b) Horizontal selftranscendence: Taking responsi-

(la) Vertical selftranscendence: Orientation towards

(1) Selftranscendence: Commitment to objectives

analyses of its items, the first dimension is divided

these by four dimensions. Supported by factor-

69

69.

94.

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89.

into two sub-dimensions for further differentiation:

 Knowledge
 .85

 Order
 .89

 Ivadition
 .79

 Practicality
 .71

 Meil-being and relatedness
 .91

 Community
 .71

 Fun
 .71

and 16, and produced that the second moboard

Challenge 78.

80. Individualism 89.

Power Power 8.

18. Achievement 75.

Social commitment and action of a factor of the second continuous factor of the second of the second

Crisis of meaning

ht. Best he and he recelled the examinization of

Scale/Dimension (*) Internal consistency (a) consistencies (N = 603)

Table I. SoMe scales and dimensions, with internal

Vertical selftranscendence

an immaterial, cosmic power;

beyond one's immediate needs.

tostering one's capacities;

bility for (worldly) affairs beyond one's imme-

diate concerns;

- Қиошлуң

Comfort

*ә*8рә_Імои**у**

Challenge

Spirituality

Explicit religiosity

souspusosunatfjag

attentiveness A

The German version was standardized by a representative sample of N = 603, which is used in the present study. Correlations with demographic variables thus have a strong external validity and will be reported below. They will especially add to the clarification of the relationships between meaning in life, gender and age, which have not been convincingly determined, so far (Scannell et al., 2002). The distinction of meaningfulness and crisis of meaning should also offer additional information regarding this question. In Study 2, relationships between SoMe variables and measures of well-being, based on a different sample, will be described. They present a qualification of previous findings regarding the role of the experience of meaning, its absence, or a suffering from a lack of meaning, for positive and negative well-being.

Study 1: Correlations of meaningfulness, crisis of meaning, and sources of meaning, with demographic variables of the delication of the second control of the second co Method

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Subjects The SoMe was completed by a representative German sample (N = 616). Distribution of sex, age, and place of residence were analogous to that in the total population. The number of people to be contacted in different parts of the country was determined in accordance with official population statistics (Statistisches Bundesamt, 2005). Individual participants were randomly selected. They were informed of the study and asked to contribute by telephone. The questionnaire and a self-addressed envelope were then sent to those who agreed to cooperate. The return rate was 67%. After eliminating incomplete records and excluding multivariate outliers, 603 datasets remained. A total of 53% of the respondents were female. Age ranged from 16 to 85 years (M=45, SD=17); 15% were single, 18% lived with a partner, 55% were married. One fifth of the respondents only had general education; 25% ere las representa la composito de la composit

had obtained O-levels (about 18-19 years of age), 17% A-levels (about 16 years of age). Thirty-eight percent had graduated from technical college or university.

Measures

The German version of the SoMe was used to measure meaningfulness, crisis of meaning, and 26 sources of

Results

Table 2 displays intercorrelations of the SoMe variables and correlations with demographic variables. Due to positive skewness and high kurtosis (2.19/4.63), the crisis of meaning scale was transformed (inverted) for correlational analyses (Tabachnick & Fidell, 2007; skewness and kurtosis after transformation = 0.60/-1.25). Meaningfulness and crisis of meaning prove to be relatively independent of each other (r = -0.38). A principal components analysis, performed on the 10 items constituting both scales, results in the extraction of two factors with eigenvalues greater than 1. After Varimax as well as oblique rotation, nine items show high loadings on their respective factor, and loadings < 0.15 on the other factor. One item ('I lead a fulfilled life') loads on Carried Strate both factors.

The distinction of meaningfulness and crisis of meaning is also supported by confirmatory factor analysis comparing a one-dimension to the twodimension model. As shown in Table 3, χ^2 is significant for both models, but the appropriateness of hypothesis testing in model fitting is routinely questioned (cf. Bollen & Long, 1993; Tabachnick & Fidell, 2007). Only the two-dimension model achieves acceptable to good fit, as indicated by the TLI and CFI. The RMSEA amounts to 0.08, thus signifying an adequate fit (Bollen & Long, 1993; Hu & Bentler, 1999). Comparison of the Akaike information criterion also suggests a better fit of the two-dimension model.

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Table 2. Intercorrelation of SoMe scales, correlations and R^2 with sex (1 = male, 2 = female), age (in years), and education Table 2. Intercorrelation of Solvie scales, correlations and N with sex (1 - halos, 2 - key (seven levels: 1 = less than 10 years of school to 7 = university degree); N = 603.

| Scale/dimension (1) (2) (3) (4) | Sex, Age, $m/1,f/2$ Age Education Education (5) (6) $m/1,r/2$ Education r |
|--|--|
| Meaningfulness (1) 38 Crisis of meaning* (2) 38 Selftranscendence vertical (3) .48 03 Selftranscendence horizontal (4) .62 11 .43 Selfactualization (5) .39 08 .08 .51 Order (6) .34 09 .27 .31 Well-being and relatedness .49 17 .29 .50 | .09 .20 -05 .05 .02 -0806 .01 .16 .1420 .08 .05 .26 .04 .08 1703 .14 .04 .14 .04 .3632 .20 .45 .40 .220215 .08 |

Note: *scale transformed (inverse) due to non-normality; $\rho =$ Spearman rho; bold: significant ($p \le .05$, two-sided).

meaningfulness, tested via CFA. Table 3. Tit indices for a one-dimension and a two-dimension model of crisis of meaning and

| RMSEA = root mean square | parative fit index; ation criterion. | CFI = com ike inform | index; C=Aka | Note: TLI = Tucker-Lewis error of approximation; AI |
|--------------------------|---|-------------------------|----------------------|---|
| 02.288 | | 35 | 475,20 72,821 | One-dimension model |
| CHI KWSEY VIC | IJT q | ſр | , z ^X , , | |

omen.

fun, care, love), vertical selftranscendence and order (all curve scales of both). Using all three demographic variables

Jun, care, vove), vertical segmence and once (20%) scales of both). Using all three demographic variables as predictors, a substantial amount of variance (20%) can be explained in order, all other dimensions of meaning are more independent of demographic attributes, with 4–8% of variance explained.

After adjustment for sex and age, a Mancova shows the five dimensions of meaning to differ significantly between marital statuses, though the effect is small (F(25, 2156)=2.17, p=.001, $\eta^2=.02$; see Figure 4). Effects concern vertical selfiranscendence ($\eta^2=.02$, significant only for explicit religiosity) and order strinbute more significance to explicit religiosity than attribute more significance to explicit religiosity than individuals living with a partner. They also orient themselves more by order than singles and those living with a partner. Widowed persons give particular importance to order (more than singles, people living with a partner, and married persons living apart).

Study 2: Correlations of meaningfulness, crisis of meaning, and sources of meaning with well-being

being. The following hypotheses are tested: into the relationship between meaning in life and wellnalization is supposed to provide additional insights other side. The increased differentiation of operatiopresence of a crisis of meaning with well-being on the ingfulness with well-being on one side, and absence and correlation between absence and presence of mean-PIL, LRI, or SOC, the SoMe allows for analyses of also examined in the present study. In contrast to the with life and positive and negative affect, these were being as conceived by Diener (1984), hence satisfaction studies focused on aspects of subjective (hedonic) wellmeaning in life and well-being. Because most of these measures for investigations into the relation between studies that employed the above-mentioned criticized The aim of the second study is to qualify findings of

confounded with positive or negative aspects of well-being. Correlations should not exceed with indicating less than 50% of overlapping.

Jene Brytski i Harri subject effects. crisis of meaning $(\mu_0 = 0.4)$ show significant betweenbns (£0.= $^{2}\eta$) essingfulneam flod .£0.= $^{2}\eta$, 100.=q widowed. It is significant with F(10,1166) = 3.06, partner, married, married but living apart, divorced, between six marital statuses; single, living with a differences in meaningfulness and crisis of meaning A Mancova (adjusted for sex and age) explored correlations with sex, age, or education were found. meaning. As regards crisis of meaning, no Education is not associated with the degree of expewhere it reaches (and maintains) a high level. from 35 to about 45 and then increases again until 60, adolescence, rising until the age of 35; it is quite stable (1996), were not detected. Meaningfulness is lowest in as linear; non-linear patterns, as assumed by Frankl estimation indicates that this function is best described It slightly increases with age (see Table 2). Curve Meaningfulness is negligibly higher among women.

Figure 3a presents estimated means of meaningfulness for each of the marital statuses. It is particularly high among married persons; according to post-hoc tests (Scheffé), they report significantly higher meaningfulness than singles and individuals living with a partner. Figure 3b presents the percentage of individuals of each marital status suffering from a crisis of meaning (i.e. above average agreement to the scale's meaning (i.e. above average agreement to the scale's items; scale value ≥ 2.5 , range (11%), followed by divorced persons (9%) and unmarried individuals with a partner (9%). Among married couples, crises of meaning are very rare (3%).

The five dimensions of meaning show small to moderate covariation with demographic variables (see Table 2). More than men, women orient themselves by vertical selftranscendence (further analyses on scale level show both explicit religiosity and relatedness (all associated scales). Selfactualization is more realized by men than by women (all scales but creativity and individualism). Order as well as horizontal and vertical selftranscendence increase with age (all scales but self-knowledge and spirituality). Education shows small positive correlations with horizontal selftranscendence (social commitment, self-knowledge) and selfactualization (knowledge, development, power). It correlates tion (knowledge, development, power). It correlates to megatively with well-being and relatedness (harmony, power).

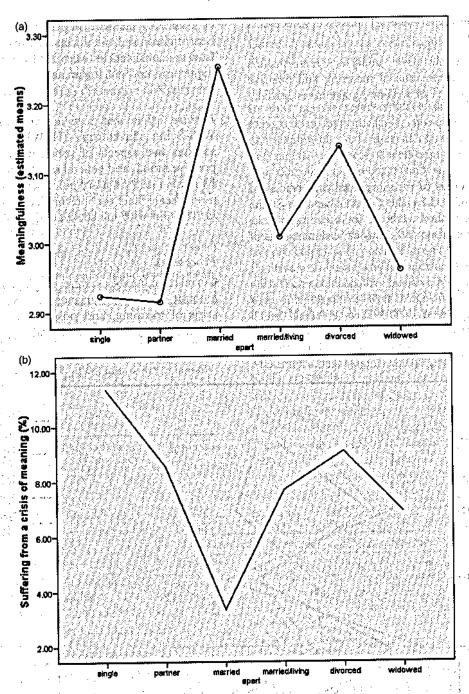


Figure 3. (a) Estimated means of meaningfulness adjusted for sex and age, and (b) percentage of individuals suffering from a crisis of meaning in different marital statuses.

- (2) Meaningfulness is a positive experience; its presence should be associated with positive well-being (Zika & Chamberlain, 1992).
- (3) Correlations between meaningfulness and negative well-being should be low. It cannot be assumed that low levels of meaningfulness imply high levels of negative well-being, because a mere absence of meaningfulness is not a state of suffering (as is crisis of meaning). Vice versa, a high degree of meaningfulness does not imply the absence of negative affect. Experiences of
- meaning should also be possible for people with a depressive or anxious outlook on life.
- (4) In contrast, correlations of crisis of meaning and negative well-being should be strong: the negative experience of a crisis of meaning is expected to make the occurrence of other negative affects more likely, and vice versa.
- (5) Because it is experienced consciously (see hierarchic model of meaning), a crisis of meaning is expected to influence well-being more than meaningfulness does. Its presence should thus

was used to measure negative aspects of well-being: neuroticism and its facets depression and saxiety. Internal consistencies were .92 for neuroticism, .82 for depression and .84 for anxiety.

Positive affect and satisfaction with life. The Trait Well-Being Inventory (HSWBS; Dalbert, 1992) assesses two aspects of subjective well-being: level of positive mood, and general satisfaction with life. It uses I3 items rated on a six-point scale of agreement. The mood scale had an internal consistency of .89, the satisfaction with life scale an alpha of .87.

Procedures

Correlation analyses were employed to examine the amount of shared variance between meaningfulness, crisis of meaning, and positive and negative aspects of well-being. Via structural equation modeling

probable.

By means of explorative analysis, relationships between the five dimensions of meaning and positive and negative measures of well-being are investigated.

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Measures

Meaningfulness, crisis of meaning, and dimensions of the meaning were assessed by the German version of the SoMe. Cronbach alphas were .78 for meaningfulness, 20 for crisis of meaning, .84–.93 for the dimensions of meaning.

Negative affect: Neuroticism, depression, anxiety. The revised NEO-Personality Inventory (Costa & McCrae, 1992; German version: Ostendorf & Angleitner, 2003)

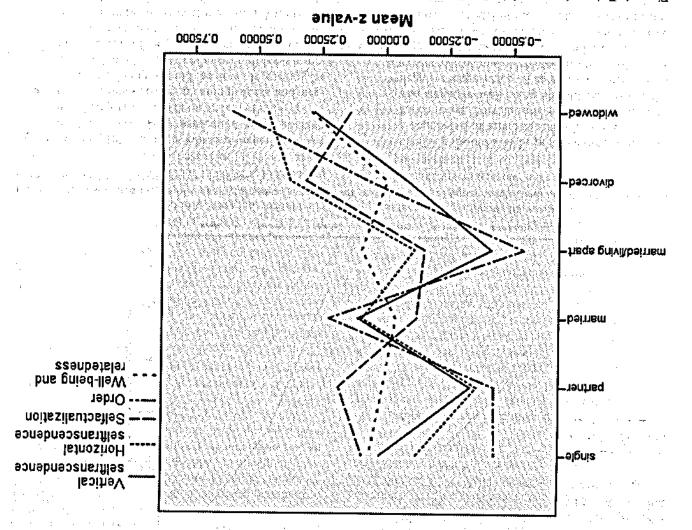


Figure 4. Estimated means of the five dimensions of meaning for marital statuses, adjusted for sex and age.

(with SPSS/AMOS), hypothesized relationships between meaningfulness, crisis of meaning, and positive and negative measures of well-being were analyzed. Further correlation analyses explored relationships between the five dimensions of meaning and well-being.

Subjects

Respondents were 135 psychology students, 85% of them female. Age ranged from 18 to 45 years (M = 21, SD = 4). About one third (36%) lived with a partner or were married, 64% were single.

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Table 4. Correlations of meaningfulness and crisis of meaning with positive and negative aspects of well-being.

| | Mea | ningfulness | Crisis of meaning |
|---------------------|------------|-------------|-------------------|
| (Positive) Mood . | (transf.*) | .36 | 59 |
| Satisfaction with . | level | .44 | 55 |
| Neuroticism | life | 23 | .53 |

Note: bold: significant $(p \le .01)$. *= transformed (inverted) due to positive skewness.

Results is notice as former, to come to the con-

Correlations between meaningfulness, crisis of meaning, and indicators of positive and negative measures of well-being are displayed in Table 4. Intercorrelation of meaningfulness and crisis of meaning is comparable to that in the representative sample (r = -.35). As expected in hypothesis 1, none of the correlations of meaningfulness and crisis of meaning with positive and negative aspects of well-being exceeds an r of .70. The correlations' average only amounts to a mean r of .43 (via Fisher-z).

Hypotheses two to five are supported by the structural equation model shown in Figure 5. The model examined meaningfulness and crisis of meaning as predictors of positive and negative well-being. Positive well-being was represented by a latent variable with the two indicators positive mood and satisfaction with life; negative well-being was represented by a latent variable with the two indicators depression and anxiety. The model fits the data well $(x_5^2 = 5.22; p = .39; CFI = .999, TLI = .998, RMSEA = .018)$. Meaningfulness significantly predicts positive well-being (HS2), and it does not contribute to the prediction of negative well-being (HS3). Crisis of meaning is a significant predictor of negative well-being (HS4) as well as positive well-being (HS5).

Almost half (48%) of the variance in positive well-being, and 42% of the variance in negative well-being were accounted for by the two meaning in life scales.

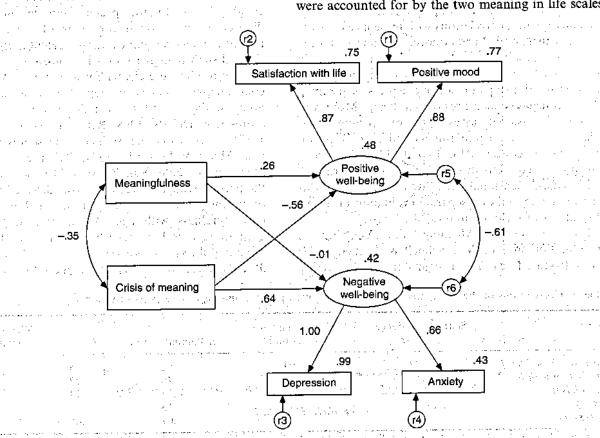


Figure 5. Prediction of positive and negative well-being by meaningfulness and crisis of meaning: Final model.

from these limitations. It contains two separate, unipolar, and unconfounded measures of meaningfulness and crisis of meaning. The necessity of the distinction and crisis of meaning as two dimensions is evident from their relatively low empirical correlation (here: r = -.38 and r = -.35), as well as from results of explorative and confirmatory factor analyses. Variation in one is not associated with reciprocal variation in the other. Empirical data thus support the claim that meaningfulness and crisis of meaning should not be conceptualized as two of meaning should not be conceptualized as two poles of a continuum. Referring to two different dimensions of experience, they represent contradiction, not contradictly.

Relationships of meaning in life with demographic rapids

The SoMe was used to analyze correlations of meaning ingfulness, crisis of meaning, and sources of meaning, with several demographic variables. With a representative sample at hand, the results can be ascribed high external validity. Relationships between meaning in life and gender have yielded contradictory results in previous research. Some reported higher meaning scores for men (e.g. Crumbaugh, 1968; Orbach et al., 1987); others did not find any differences (e.g. Debats, 1999; Harlow et al., 1986; Scannell et al., 2002; Steget et al., 2006). In the present sample, no gender differences were found for crisis of meaning. For meaningfulness, a significant, but negligible correlation meaningfulness, a significant, but negligible correlation showed slightly higher scores in women.

The results were clearer for age effects. Also here, contradicting findings are reported in the literature. Some studies found no age differences in meaning scores (e.g. Debats, 1998; Reker, Peacock, & Wong, 1987), others came across increasing scores with age (e.g. Meier & Edwards, 1974; Reket & Fry, 2003; Steger et al., 2006; Van Ranst & Marcoen, 1997). In the present study, no age effect was detected for crisis of meaning. However, there is a small increase of meaningfulness with age. As determined by curve estimation, it is best described by a linear function. Meaningfulness is lowest for individuals under actimation, it is best described by a linear function.

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(600. = 4.72. = 3)zontal, selftranscendence is a negative predictor p = 01) positively predict positive mood, while hori- $(\xi \zeta = \delta)$ sonstandentifies libertrans and (100. > q)(14. = 4) resolves and relatedness (14. = 4). 22% of variance in positive mood are explained by the se doum sA. (10. = q, 25. = 4) resolution and relations and A = 4This is predominantly attributable to the influence of with life, 12% of variance are explained (p=.004). simultaneous regression analysis to predict satisfaction all five dimensions of meaning are entered into a transcendence covary with a positive mood level. When tionally, well-being and relatedness and vertical selfselftranscendence relate to satisfaction with life; addi-Table 5). Well-being and relatedness, order, and vertical with neuroticism or its facets anxiety or depression (see positive aspects of well-being, but no correlations correlations between dimensions of meaning and dimensions of meaning and well-being shows positive An exploration of relationships between the five

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ent qualities of meaning impossible. complexity and makes a separate evaluation of differ-1994). One-dimensional measurement ignores this with uncoupled activation (Cacioppo & Berntson, ing are better conceived as two distinct dimensions criticized, because meaningfulness and crisis of meanthe one-dimensional assessment of meaning was in life and negative measures of well-being. Moreover, increased relationships of positive aspects of meaning reverse-coded items. This results in artificially either conceptualized as bi-polar, or they contain artificially increased. Furthermore, meaning scales are As a consequence, correlations with these measures are positive and negative mood and satisfaction with life. items that tap other psychological variables, such as First is the use of overly broad measures, containing ing suffers from measurement problems of three kinds. As was described and exemplified, research on mean-

The Sources of Meaning and Meaning in Life Questionnaire (SoMe; Schnell & Becker, 2007) was introduced as an instrument not suffering

Table 5. Correlations of the five dimensions of meaning with positive and negative aspects of well-being.

| 86. 01.– 01.– 11.– | pI 20 zz 01 pI £I 80 £I 80 10 | 60° | ££. 81. 41 60 11 | Postitye) Mood level Satisfaction with life Neuroticism Anxiety Depression |
|---------------------------------|---|---------------------------------|-------------------------------|--|
| Well-being and seast searchests | Selfactualization Order | Selftranscendence horizontal | Selftranscendence vertical | |

60 (M=3.36, SD=0.98). For the middle-aged, the mean score is 3.13 (SD = 0.89). The results tie in well with theoretical assumptions. A crisis of meaning is supposed to occur after a violation of one's sense of coherence and continuity. This can be caused at any time of life, triggered by psychological, social, or environmental processes. The trust that one's life is meaningful is derived from an appraisal of life as coherent, significant, directed, and belonging. The recognition of such characteristics, though possible at any time of life, is likely to benefit from a broader knowledge of self and world, as it develops with age. The same interpretation might be applied to findings yielded by Steger et al. (2006). Though their data comes from a student sample with reduced variation in age, they also found no age effect for 'search for meaning,' but comparable positive correlations between age and 'presence of meaning.'

The degree of experienced meaningfulness also differs significantly with marital status. It is highest for married people; individuals living with a partner without being married report significantly lower meaningfulness. This might be based on the confirmation of belonging through official marriage, the availability of direction through the aim of building a home and raising children, and the experience of significance through responsibility for children.

Also crisis of meaning scores differ significantly between marital statuses. As a comparison of percentage of individuals in each marital status suffering from a crisis of meaning indicates, it is most common in singles. Again, married people stand out: they report significantly lower values than singles. The results thus point out the importance of family and partnership as buffers against crises of meaning, while being married is related more strongly to meaningfulness than living in an intimate relationship.

Sources of meaning the state of the state of

Sex, age, and education explain from 4% to 20% of the dimensions' variance. Women attribute slightly more importance to vertical selftranscendence, as is also reported by many studies in the psychology of religion (cf. Hood, Spilka, Hunsberger, & Gorsuch, 2003). More than men, women value well-being and relatedness. For men, selfactualization has a slightly stronger relevance than for women. Thus, the longstanding distinction of female communion and male agency (Bakan, 1966) can still be glimpsed in (post-)modern times. A problem is worked that approved

Horizontal selftranscendence scores correlate positively with age. In accordance with that, life-span theories claim that selftranscendence is a developmental stage often entered in mid-life or later, after more egocentric needs have been fulfilled (Erikson, 1982; Maslow, 1970). Vertical selftranscendence shows a very small correlation with age. Analyses on scale level detect a correlation of r = .23 for explicit religiosity, but no significant coefficient for spirituality. Institutional religiosity is known to be more common among older than among younger people in Europe; it can be interpreted as a cohort effect (Hoellinger, 2005). This effect does not apply to spirituality.

The importance of order increasing with age can also be explained as a cohort effect: present-day elderly were socialized in an environment that highly valued tradition, reason, practicality and morality (sources of meaning belonging to the dimension of order). Alternatively, higher scores of these sources of meaning among older individuals could be seen as a compensation of a decrease in spontaneity and flexibility occurring with age. As the section for the section of

Sources of meaning also differ with duration of schooling. The higher the school-leaving exams, the less significance is given to order. Tradition, morality, practicality, and reason thus become less relevant, the more educated someone is. Given norms and values are likely to be doubted by those who are taught to analyze and question. Practicality is of less relevance to those who confront life mainly intellectually. The devaluation of reason among the more educated is rather less obvious. Less schooled people claim that decisions should only be made rationally, not intuitively; they trust that 'reason is the measure of all things' (items from reason scale). Their confidence in the validity of reason is thus stronger than among those individuals who are more trained in using and applying it. Education also correlates negatively with vertical selftranscendence (explicit religiosity and spirituality). The effect is small but in line with the (generally dismissed; cf. Hood et al., 2003) thesis of secularization, positing that the more we know about the world, the less credible is the idea of a super-natural power.

Dimensions of meaning differed also with regard to marital status. Unmarried partners could be distinguished from married partners and singles regarding vertical selftranscendence. Average ratings of explicit religiosity among unmarried partners significantly fell below that of married partners (M = 1.10, SD = 1.23)vs. M = 2.22, SD = 1.66), and also below that of singles (M=1.95, SD=1.71). A decision for cohabitation and against marriage thus seems to be rooted in an areligious worldview. Just like widowed individuals, married persons are also more traditional, practical, rational, and principled (order) than singles and unmarried partners, which might be the result of an interaction of personality as well as environmental factors. The link between marital status and existential orientation is hence underlined, again. The Brown of the Market of the Control of the Contr

Meaning in life and well-being In order to qualify previous findings regarding relationships between meaning in life and well-being,

unlikely that one can feel both positive and negative affect at the same time, especially at strong levels?

(Diener & Emmons, 1984, p. 1112).

None of the dimensions of meaning is related to negative indicators of well-being. Some are significantly associated with positive mood and/or satisfaction with life. Effects are strongest, though still dimension of meaning explicitly concerned with the furthering of personal well-being. Especially for this relationship, the direction might also be reverse; individuals who experience a high degree of positive individuals who experience a high degree of positive

well-being, established and are set the contraction of a vital component of hedonic (as well as cudaimonic) and Deci and Ryan's (cf. 2008) claim that relatedness is spent in company is positively related to happiness, Csikszentmihalyi and Hunter's (2003) finding that time loved are fundamental ingredients of being well' (p. 9), Singer's (1998) assumption that loving and being ticularly adds to the prediction. This supports Ryff and meaning. Here again, well-being and relatedness par-22% of its variance are predicted by the dimensions of meaning do. Regarding positive mood, as much as life than selfactualizing or selftranscending sources of meaning thus contributes more to contentment with affiliation represented by this dimension's sources of satisfaction with life. The pursuit of enjoyment and predictive power of well-being and relatedness for Multiple regression analysis confirms the specific well-being, is the compact of the large for the compact of the com

with satisfaction with life, the cognitive component of

also moderately positively related to mood and satisfaction with life, while order only correlates positively

commit themselves to sources of meaning such as fun, harmony, or community. Vertical selftranscendence is

mood and satisfaction with life are more likely to

faction with life and positive mood. Their predictive explain a rather low percentage of variance in satisbility. Altogether, the five dimensions of meaning searching, in contrast to the state of true-self accessipositive mood is lowered during this process of SoMe, imbues life with a sense of meaning. However, ment to a search for the true self, as measured by the be a potent source of meaning, too. Also the commitimportant contributor to well-being; they showed it to al. (2009) report that accessibility of the true self is an search for and reflection upon the 'true self.' Schlegel et to self-knowledge. This source of meaning refers to a As scale level analyses reveal, this is only attributable dence emerges as a negative predictor of positive mood. & Frazier, 2005). Interestingly, horizontal selftranscenreligious : behaviors and daily well-being : (Steger Emmons (cf. 2005) or experience sampling of daily to higher levels of positive affect, as in goal analyses by osity and spirituality has already been shown to relate by vertical selftranscendence. A commitment to religi-Positive mood is additionally positively predicted

Study 2 was undertaken. The SoMe was correlated with negative and positive indicators of well-being. As expected, correlations are lower than those generally reported in the literature. None of them exceeds an v of .70, thus supporting the claim of 'pure' measurement of meaningfulness and crisis of meaning.

Meaningfulness is moderately related to positive

meaningfulness and crisis of meaning.

Meaningfulness is moderately related to positive measures of well-being. The experience of one's life as meaningful can contribute to a positive state of mind, or vice versa (cf. King, Hicks, Krull, & Del Gaiso, 2006). But, as is evident from the moderate effect sizes, meaningfulness cannot be equated with hedonic wellbeing. A meaningful life is not necessarily cheerful and free of negative affect; it is better conceived as 'a life lived well' in a eudaimonic sense, as described by Ryan, lived well' in a eudaimonic sense, as described by Ryan,

Huta, and Deci (2008). This is the state of the contract of

instability. In addition, the absence of meaningfulness can also be experienced under conditions of emotional do not imply an absence of meaningfulness; meaning anxiety. On the other hand, depressiveness and anxiety exclude simultaneous (trait) depressiveness and (trait) concerned. The experience of meaningfulness does not of negative well-being used in the present study are challenged by the data, at least as the two indicators has a protective or healing effect is thus being The established assumption that meaningfulness per se ensure an association with negative well-being. items. It hence does not tap negative affect which would ness scale contains neither reverse-coded nor bi-polar sion of meaning in life. Furthermore, the meaningfulclean measurement of a positive and a negative dimenfindings. The result is attributed to the separate and negative well-being. This contradicts many published to rotoiberq (eyative) predictor of As revealed by a structural equation model, meananxiety, and depression are even much lower. Correlations of meaningfulness with neuroticism,

does not necessarily provoke emotional instability such as depressiveness or anxiety (Schnell, in press).

A crisis of meaning, though, is strongly related to negative well-being, Individuals who report a crisis of meaning feel an explicit lack and a yearning for instability, hence likely to provoke anxiety and depressiveness. But a crisis of meaning can also be extended feelings of depression' (Harlow et al., 1986, p. 6, see also Schmitz, 2005) or by the disintegration of extended feelings of depression depression depression of depression depr

Apart from its association with negative indicators of well-being, crisis of meaning also serves as a negative predictor of positive well-being. An evaluation of one's life as frustratingly empty and lacking meaning contradicts an appraisal of one's life as satisfying. Similarly, positive feelings seem to be impaired by the negative appraisal, and 'it is highly impaired by the negative appraisal, and 'it is highly

power will be increased or lowered in accordance with the coherence of personal goals and sources of meaning, on the one hand, and congruence of sources of meaning with personality traits (Schnell & Becker, 2006), external circumstances, etc., on the other hand (cf. the hierarchic model of meaning as described above).

Limitations and outlook

The present study challenges several long-held concepts about the measurement of meaning in life and its relation to well-being. While the validity of the SoMe has been demonstrated in numerous studies and is also supported by relations to demographic variables reported in Study 1, further studies relating it to other psychological constructs are needed to clarify its strengths and limitations. Because the SoMe is a broad measure of sources of meaning, additional instruments should be employed when more differentiated information on specific sources of meaning is needed.

Further research is certainly required for replication of the low to absent association between meaningfulness and negative well-being. Future studies, using the SoMe's meaningfulness and crisis of meaning scales, should explore the relationship in more heterogeneous samples. Also an exploration of links between meaningfulness and other indicators of negative well-being is necessary.

In general, qualification of previous findings gained by use of confounded measures should continue. A separate assessment of positive and negative aspects of meaning in life, as realized by the SoMe, is very advantageous for this endeavor. It contributes to an (approximate) acknowledgment of the complexity of meaning in life.

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