1 COMPARATIVE RESEARCH (AULA 002) 1.7 Measuring basic human values	
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Session chair: Shalom Schwartz; Hebrew University of Jeruzalem, Israel	
This session takes place on: Thursday, July 21; 9:900 to 11:00 Thursday, July 21; 11:30 to 13:30 Thursday, July 21; 15:00 to 17:00	Organizing diverse sets of data
Presentations:	with the Schwartz' Value Circle
 Invited presentation: The Structure And Implications Of Individuals' Value Systems - Shalom Schwartz (Israel) 	with the Schwartz value of the
Contributed presentations:	
 Bringing Values Back In: A Multiple Group Comparison with 20 Countries Using the European Social Survey 2003 - Eldad Davidov, Peter Schmidt (Germany), Shalom Schwartz (Israel) 	Micha Strack
European Value Map: Generations And Countries - Hans Bay (Denmark)	MICHA STRACK
 Structural Equivalence Of The Values Domain Across Cultures: Separating Sampling Fluctuations From Systematic, Meaningful Variation - Johnny Fontaine (Belgium), Ype H. Poortinga (Netherlands), Luc Del- beke (Belgium), Shalom Schwarz (Israel) 	University of Goettingen, Germany
 The Measurement Of Value Preferences By Paired Comparisons - Michaela Brocke, Wolfgang Bilsky (Germany) 	
 A Two Dimensional Model For Presenting Values Measured With Schwartz' 21 Item Portrait Values Questionnaire - Markku Verkasalo, Jari Lipsanen (Finland) 	
Value Ortentations in Europe. One Kind of European Identity? - Florian Pichler (Austria)	
Organizing Diverse Sets Of Data With The Schwartz' Value Circle - Micha Strack (Germany)	
 Social values: saltence and consensus tn 10 European countries - Alice Ramos, Jorge Vala, Henrique Duarte, Diniz Lopes (Portugal) 	
 Attitudes and values of the Europeans: a gender perspective - Anália Torres, Rui Brites, Rita Mendes, Tiago Lapa (Portugal) 	
Explorative And Confirmatory Factor Analysis In The Study Of Values - Andu Rämmer (Estonia)	
Thank you, Shalom, and not only for these outstanding session, but especially for your and Bilsky's discovering of the values circle that we all enjoy in our research.	Presented at the The First EASR Conference (European Association for Survey Research), July 18-22. 2005, Barcelona, Spain. Abstracts are available at: <u>http://sqp.nl/easr/programme/abstracts.pdf</u>
In the following I would like to discuss four reasons, why the value circle seems to be capable to organize a variety of research: the reasons call: scaling, models, data and milieus.	Scaling Models Data Milieus









 Data. Factor analysis is a very common method, Why not computing the axis with the explorative factor analysis? Markku Verkasalo & Jari Lipsamen on this conference have done heard very the same (not exactly, they extracted three factors from the raw data, chucked out the first and rotated the other two). This data I got from my German colleague Manfred Schmitt; the eigenvalues show – as in all other raw data I will present in these section - the big first eigenvalue, which in importance-ratings usually is mere acquiescence! (response style). If I subtract each subjects mean-level from each single answer, I get ipsated scores (or: centred scores, as Shalom Schwartz called them). 	Scaling Models Data Mileus The SVC is confirmed by factor analysis Schwartz-Value-Survey 58 Values Ratings [-1, 7], raw scores Sample: 535 Teachers & Students (Schmitt et al 1999) eigenvalues Scree: acquiescence 0 Description 0 Description 0
Ipsated scores thereafter give eigenvalues which show - according to the Scree-Test - an impressive elbow - the base to extract two factors. The loadings plot, which plots the correlation of the ipsated items with their own factors, shows the picture so well known. Advantage of factor analysis over the SSA ore other MDS procedures is: Factor scores are saved automatically.	Scaling Models Data Milleus The SVC is confirmed by factor analysis Universalism Schwartz-Value-Survey 58 Values Ratings [-1, 7], ipsated. Sample: 535 Teachers & Students (Schmitt et al 1999) Justice Natur, helpful broad-minded Peace Equality Peace Peace Equality Tradition eigenvalues Scree 2. Factors! Image: Social Power Wealth Social Power Wealth Authority preserving face Social Power Wealth Authority preserving face

Factorizing the 10 scales – of course after the elimination of the acquiescence – also leads to the circle, we all are acquainted with. Besides, I make experiments with colors, I wonder, if you'll like this.	Scaling Models Data Milleus The SVC is confirmed by factor analysis Schwartz-Value-Survey 10 Scales mean ratings, ipsated Sample: 535 Teachers & Students (Schmitt et al 1999) Universalism eigenvalues Scree 2. Factors! Implementation of the students of the state of the students (Schmitt et al 1999) Implementation of the students (Schmitt et al 1999)
Meeting the EASR Conference's interest in the ESS, I - quickie - made a factor loading plot of Schwartz PVQ from the first round of the ESS v5.1.	Scaling Models Data Mileus The SVC is confirmed by factor analysis Schwartz Portrait Value Q. 21 Self-descriptions Ratings [1, 6], ipsated. ESS-Sample: 37748 Europeans no weighting, total variance Universalism eigenvalues Scree 2. Factors

With these procedure I extract and save the circles axis in a diversity of values data: First, the funniest data I have, are some of the Spranger- Types: You find the Truth, the Beauty and the Good! My German college Lantermann from Kassel gave me that data, the Eigenvalues are dissatisfying, but the items content is a classic one.	Scaling Models Data Millieus The SVC is confirmed by factor analysis Universalism Life modes Spranger 1915 (AllIport & Vernon 1931) Short-form: Lantermann et al. 1997 6 Ratings [1,3], ipsated Sample: 494 guests of the Exhibiton Body Worlds' 1997 Mannheim, Germany eigenvalues Scree no ellbow
My German Colleague Manfred Schmitt gave me data of his survey on "Justice as a inner-German-Problem", pointing out our re-unification problems. They measure 13 values by a rank-ordering-procedure. From a statistical point of view, rank orders gave a bad data quality, the eigenvalues do reflect this. However, I was surprised, how well these items loadings fit our circle, anyway!	Scaling Models Milleus The SVC is confirmed by factor analysis Universalism GIP - Survey, Schmitt et al. 1997 13 Values, Rank-order! Sample: 1743 Germans eigenvalues Scree: 1/3. Factors Image: Solution of the second seco

Going back to the large survey data. I reanalyze the so called Schell-Youth Study, a representative Sample of German Youth, aged between 15 and 24, surveyed in the Millennium Year. The primary researchers asked for the importance of 48 topics. After ipsatation, the loadings match the segments - as I clustered them by color, here. Security is expressed by job orientation. Self expression is intermixed with hedonism, the latter comprises fun, money and beauty. Religion was not mentioned). However, it seems that the Schwartz value Circle emerges - the model therefore organizes value data from other researchers, too.	Scaling Models Data MileusMileusThe SVC is confirmed by factor analysis UniversalismSHELL- Youth Study 2000 48 topics, ratings [1,5], ipsated Sample: 4546 adolescents 15-24 yearsUniversalismeigenvalues Scree: 2. factorseigenvalues Scree: 2. factorsImage of bligations e of odd new technics + wealthing of obligations e odd new technics + make money do
Two years later, Klaus Hurrelmann conducted the Shell Youth Study, starting with 12 years old children. He asked for 24 Values. If isated, they also covariate nicely around the circle. As most respondents were young, partnership, friends and an own family here is a topic of self direction.	Scaling MileusThe SVC is confirmed by factor analysisUniversalismSHELL- Youth Study 2002 Hurrelmann et al., ZA Köin 24 Values, ratings [1,7], ipsated Sample: 2515 adolescent 12-25 yearsImage: Street 2.55 adolescent 12-25 yearseigenvalues Scree: 2. factorsOfficial response of the sponseOfficial response

Going back to the adults, the ALLBUS, an acronym of: German general Citizenship-Survey, which is done all two years by the ZUMA – in English: the Centre for Survey Research and Methodology (Cologne). - They, in 2002, asked for the importance of 14 values. I propose to give them our circular structure.	Scaling Models Data Milleus The SVC is confirmed by factor analysis Universalism ALLBUS 2002 ZUMA, Cologne 14 Values, ratings [1-7], ipsated Sample: 2820 repr. Germans Import of the Disadvantaged Factor analysis eigenvalues Scree: 2. factors 0 <t< th=""></t<>
The ALLBUS in 2000 and in 2004 did not include values, but in 1998 (and in some older surveys) – at least –the importance ratings of 8 life domains were included, perhaps they may be interpreted as values, too as it is shown here by factor analysis of ipsated scores: we got a near satisfying circle.	Scaling Models Data MileusThe SVC is confirmed by factor analysisUniversalismALLBUS 1998 ZUMA, Cologne 8 Domains, ratings [1-7], ipsated Sample: 3178 repr. GermansImage: Church of the state of

In sake of the time I want to continue with my fourth reason Scaling for the Schwartz - Circle, which is the following: Models The SVC & the Inglehardt Postmaterialism-Index Data If the circle is confirmed by explorative factor analysis in Milieus Universalism diverse sets of survey data, why not reanalyzing these ALLBUS 2002 surveys? free speech ZUMA, Cologne ostmaterialism For example, you might know, that Wilson recently 14 Values, ratings [1-7], ipsated Sample: 2820 repr. Germans Traditior published the Inglehardt's Materialism/Postmaterialism measure in a newly assessed student sample. Correlations Wilson 2004, JSocPsv 145 participat 0.00 calm & PM-ISM public or Renevalence Self-Directio Conformity combat of inflation Mate ialism Stimulation Security Hedonism Power Achievemen In the German ALLBUS – Survey from 2002 – I've already Scaling shown you its value assessment (page 11) - the Models The SVC & the Inglehardt Postmaterialism-Index Data Inglehardt- Postmaterialism scores can be simply Milieus Universalism correlated with the circles axis. ALLBUS 2002 ZUMA, Cologne Postmeterialis In the upper Figure on the right you have the 14 Values, ratings [1-7], ipsated Tradition Sample: 2820 repr. Germans correlations..... of course, still Correlations of mere values. Means 0.20 Postmaterialists And here you have the means of the Ingelhardt Types. I differentiate respondents from the west and the east of Anterialist Germany: West Germans prefer self-transcendence, the east's show themselves more self-centred. -D.40 As the axis are from factor analysis with a mean of zero and a standard deviation of one, you can read the -0.20 0.00 .n 4n difference between east and west as an effect of middle size according to the Cohen's conventions (we use in psychology).

Values predict political behaviour – these is the famous left-to-right-wing self placement scale. I plot each answers groups mean. Right wings prefer security, left wings prefer universalism. But, due to the large difference of west and east Germany, lefts from the east matches the right wings from the west.	Scaling Models Data Millieus The SVC & the left-to-right self-placement Universalism ALLBUS 2002 ZUMA, Cologne 14 Values, ratings [1-7], ipsated Sample: 2820 repr. Germans Means Tradition
Values predict political behaviour – in two month (September 2005) we have to vote in Germany, these here is the election-question three years ago: I omit small parties voted by less than 15 respondents. Although most respondents from east Germany located in the lower part of the circle, the ecological or green Party, still engaged in our actual government, is strongly determined by values in both parts of Germany. The difference of the two big parties is small in the West, and – as values are concerned – irrelevant in the East.	Scaling Models Data Julicus Data Subject Julicus Subject Subject Julicus Subject Subject

People with egoistic values didn't vote at all, as they mistrust the political system. Here I correlate trust in institutions.

As these section mentioned milieus, we can correlate attitudes, leisure behaviour, music or TV habits and more. (but these variables were not included in the ALLBUS 2002 I selected for today). Switching from consequences two explanatory variables: the self-placement of social class. And a more objective indicator. I differentiate the amount of income in quintiles, but you have to note, that the to upper quintiles - with more than 2.500 euro per month - are more frequent in the west, the lower quintiles are more frequent in the east. So in Germany all together, money and class correlates with the security-tolerance diagonal.

Two give a full model of the predictors of values in Germany, - lets say the interaction of income and age is relevant here – is out of the scope of this talk. Here I only want to demonstrate my reasoning chain, that is: due to the factor analytic procedure We can use the circle to describe causes and consequences, using correlations and groups means in pictures, which together merges to milieus. Thank you, for your attention.

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