
The Data for the GeNECA-Module of SOEP-IS (2012) Conception and empirical application

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- I Review of conception (Peter Krause)
 - Database Infrastructure SOEP (SOEP-IS)
 - Conceptual framework
 - Selected empirical descriptives

- II Empirical Application (Niels Michalski)
 - Characteristics of CA-measures

I Motivation

The survey has been realized as part of the project GeNECA, funded by the German ministry of Science.

The GeNECA-Project aims to link the concepts of Sustainable Human Development (SHD) with the ideas of the Capability Approach (CA)

I Empirical Application – SOEP(-IS)

Database Infrastructure for the German Socio-Economic Panel

SOEP(core)

- Representative annual longitudinal household survey since 1984
- Regular Inclusion of new subsamples
- in 2010: 10.840 households, with 28.436 persons

SOEP-IS (SOEP Innovation Sample)

- Established in 2011 (based on subsamples of SOEPcore)
- Realized for the period from 2012 to 2017, (target size 5.000 households)
- Goal: Increase of SOEP core and ...
- **Inclusion of innovative survey modules, experiments and tests**

[SOEP-Pretests]

[SOEP-RS (related studies)]

- The Subsample of the German Innovation Sample (SOEP-IS) –as part of the longitudinal data infrastructure of the German Socio-economic Panel study (SOEP) provides in 2012 a new module on direct CA-measures and related concepts based on high level representative data.

General information

- From 2013 on, SOEP will determine the contents of SOEP-IS through a competitive refereed application process for the “best” research questions and their operationalizations, and will distribute the SOEP-IS data as part of its regular data releases. (Richter/Schupp SOEPpapers 463, 2012)

I Fieldwork

- Empirical Application are realized as part of SOEP-IS (Fieldwork June/July – Oct/Nov 2012);
Very first results are based on preliminary data (N=595)
- Respondents (N=~1100)
- Individuals (N=~1500)
- Households (N=~550)

II Empirical Application – SOEP-IS

SOEP Innovation Sample (SOEP-IS), Modules and Splits

Basic Instruments

- Household Survey (housing, income, socio-demographics)
- Personal Survey (employment, health, satisfaction)
- Mother/Parents-Child-Surveys (Modules related to own children in household: (1) 0-23 months; (2) 24-47 months (3) ≥ 48 months;
- Biographical Survey (education, employment, migration, parents, siblings)

Innovation Modules in 2012 (Personal Survey, Splits)

- I [Life: Education, unemployment]
- II [Daily Reconstruction Method (DRM);
- III [GEB /Environmental Behavior]
- IV [Investment decisions; Control striving]
- V **GeNECA (Split 1+2): Measures on QoL, CA, SD, SC**

I Conceptual Framework –CA-SD & QoL-

Three **related theoretical frameworks** – QoL, CA, and SD

- interdisciplinary
- multidimensional
- policy driven (social indicators)
- global perspective

The concepts for the **CA and SD** are both explicitly related to **multidimensional quality of life (QoL)** (Maggino, 2009).

I Conceptual Framework – CA

The **CA framework** highlights aspects of **having the abilities to live in valued ways**.

- Despite the growing awareness for the capability approach (CA) in quantitative research, the operationalization of the CA based on direct questions is not yet established in representative surveys.
- We included therefore **direct indicators on** capability dimensions like **freedom, autonomy, opportunities, constraints**.
- The dimension of **autonomy** is further included as part of the psychological scale on **basic needs** according to self determination theory (**SDT-Scale**).

I Conceptual Framework – SD

The underlying CA dimensions on opportunities and constraints are also of particular importance for the preservation of living conditions within the SHD context.

The **SHD framework** ...

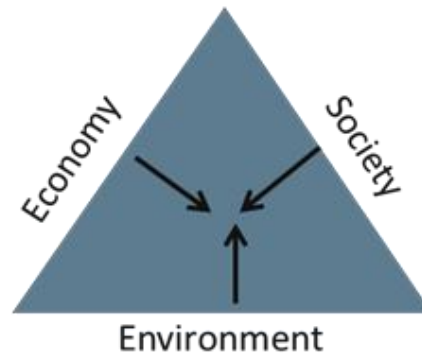
- ecological (regional and global) perspectives
- and with intergenerational perspectives with regards to the preservation of living conditions to further generations.

I Sustainable Development (SD)

Triangle of sustainability

Relative Lines

Integration of dimensions for sustainability



Actors:

- Consumers / individuals
- Enterprises / producers
- Communities / regional players
- NGOs
- Federal / provincial government
- International organizations
- Local and global networks

Absolute lines

in the local and global context

Preservation of Living Conditions



[according to principles of intergenerational justice]

- Human rights (preserving basic needs)
- Collective agencies
- Independent organisations and networks

I Empirical Application – SOEP(-IS)

GeNECA-Module (SOEP-IS)

- QoL – additional Items on domain satisfaction and importance
- CA – measures on opportunities, freedom, constraints
- SDT - BPNS-Scale (Basic Psychological Needs Scale)
- SD – attitudes, expectations and justice
- SD – agencies, actors and actions
- SD – NEP-Scale (New Ecological Paradigm)
- SD – Public Choice
- Alternative currency system
- SC – (Sustainable Consumption, Sub-Splits: →
S1: Means of transportation (car use), S2: Buying organic food

I CA Measures (Capabilities)

Sources for direct CA measures (GeNECA-Module of SOEP-IS)

- Constraints

Referring to: Burchardt, Tania (2009): National Statistics Opinions Survey, Module MCF, question 5

- Freedom

Anand, Paul: The Capabilities Measurement Project

- Opportunities

Referring to: Anand, Paul/ van Hees, Martin (2006): Capabilities and Achievements

I CA Measures(opportunities, general)

Direct measures of CA – Examples I - Opportunities

6 [Opp. global]

In general: When you think of the chances and opportunities that you have in your life, how good are these chances and opportunities?

Please choose the appropriate response for each item:

	1 very bad	2	3	4	5	6	7 very good
The chances and opportunities that you have are...	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Anand/vanHees: Capabilities and Achievements, 2006

Further References: Ibrahim/Alkire 2007, Anand et al. 2009

I CA Measures(Constraints)

Direct measures of CA – Examples II - Constraints

8 [constr.Einschränk.2]The following statements are about possible constraints in your life.

Please tell me how often special living conditions prevent you from doing things that are important to you. Please say if the following living conditions hinder you never, rarely, sometimes, often or always doing things that are important to you. How about...

Please choose the appropriate response for each item:

	Never	Rarely	Sometimes	Often	Always
...your age	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
...your familiar responsibilities	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
...your health	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
...shortage of money/being in debt	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
...your job	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
...lack of job opportunities	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
...your neighbourhood	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
...lack of public transportation	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
...your education level	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
...discrimination and pressure from other people	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

I Self Determination Theory (SDT-Scale)

SDT – Self Determination Theory

- Self Determination Theory (SDT) claims that an understanding of human motivation requires a consideration of innate psychological needs for **competence, autonomy, and relatedness**.
- Self Determination Theory is concerned primarily with explaining the psychological processes that promote optimal functioning and health.
- The Basic Psychological Needs Scale from Deci/Ryan (2000) is one of the main concepts to measure SDT issues.
- We use the general form of the scale in a reduced set of items (9 items in total, 3 item for each dimension)
- (Further sdt-scales refer to work and relationships)

I SDT-Scale

9 [SDT basic needs] Here again are some statements. Please think about to what extent the following statements apply to you

Please use a scale from 1 (doesn't apply at all) to 7 (totally applies).

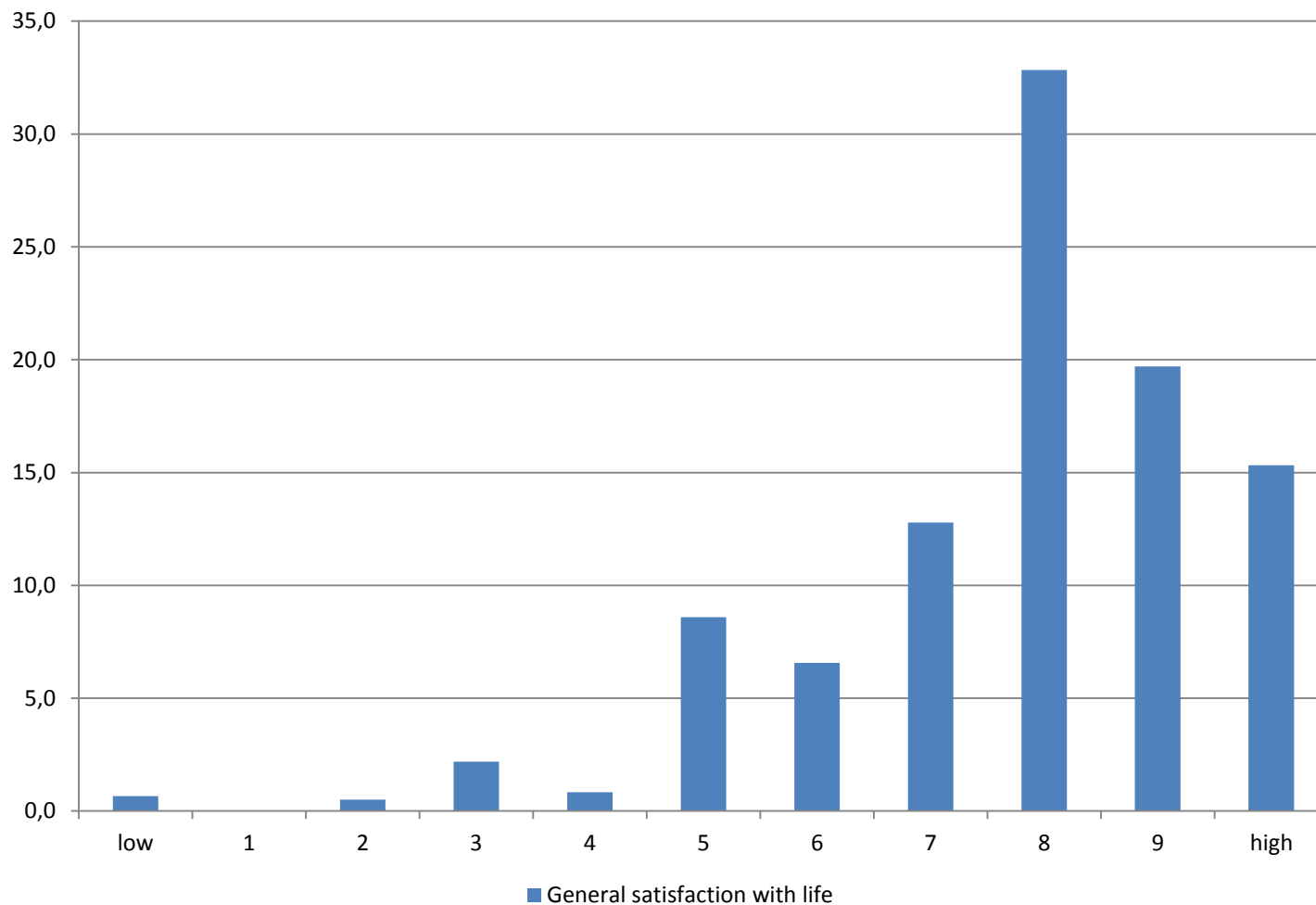
Please choose the appropriate response for each item:

		1 doesn't apply at all						7 totally applies
1	I feel like I am free to decide for myself how to live my life.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
2	People I know tell me I am good at what I do.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
3	I get along with people I come into contact with.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
4	I generally feel free to express my ideas and opinions.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
5	I consider the people I regularly interact with to be my friends.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
6	People in my life care about me.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
7	Most days I feel a sense of accomplishment from what I do.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
8	I feel like I can pretty much be myself in my daily situation.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
9	I often do not feel very capable.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Items: 1, 4, 8 → Autonomy; 2, 7, 9 → Competence; 3, 5, 6 → Relatedness

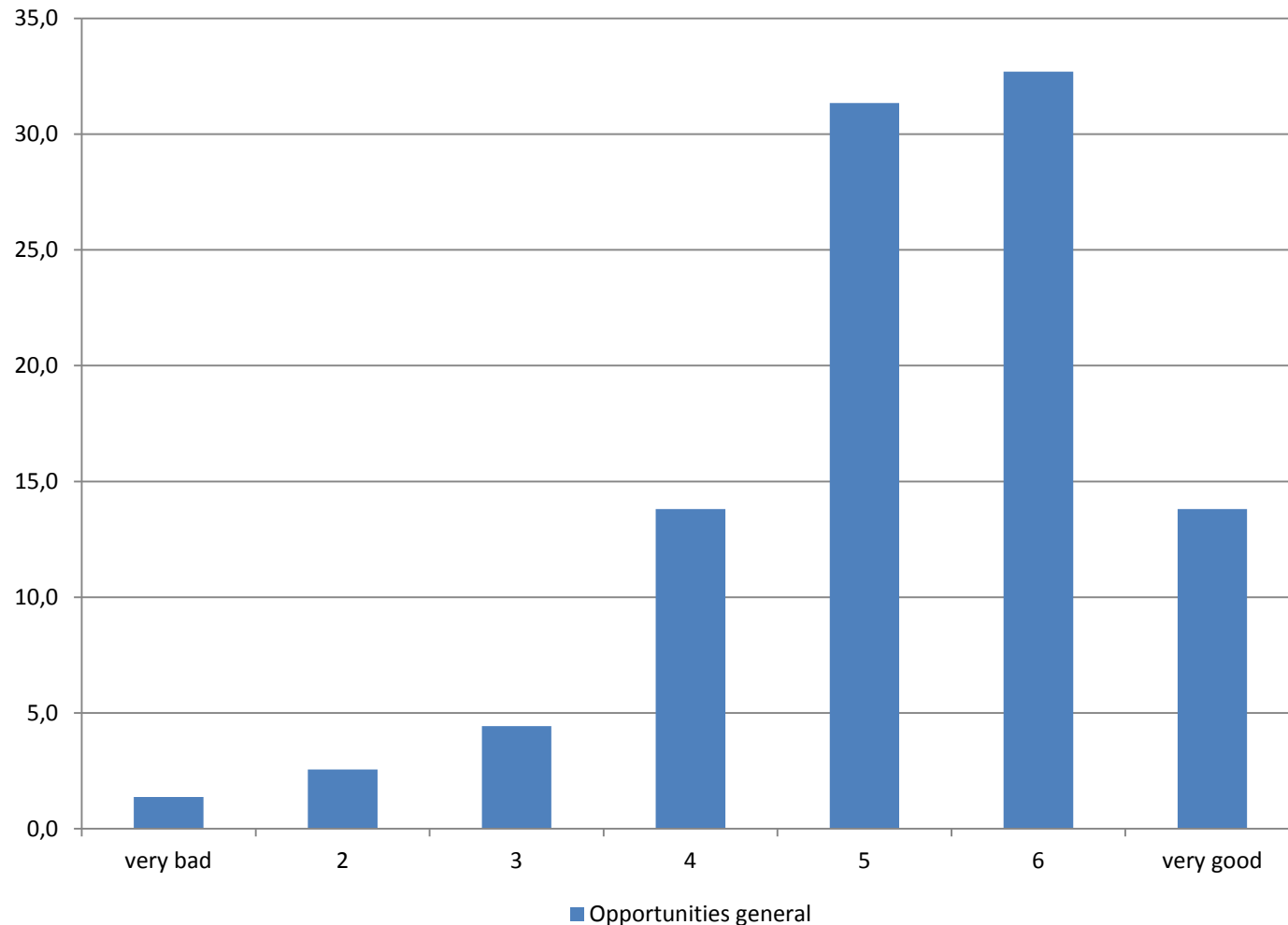
I Results QoL-CA (Life Satisfaction)

Overall Satisfaction with life



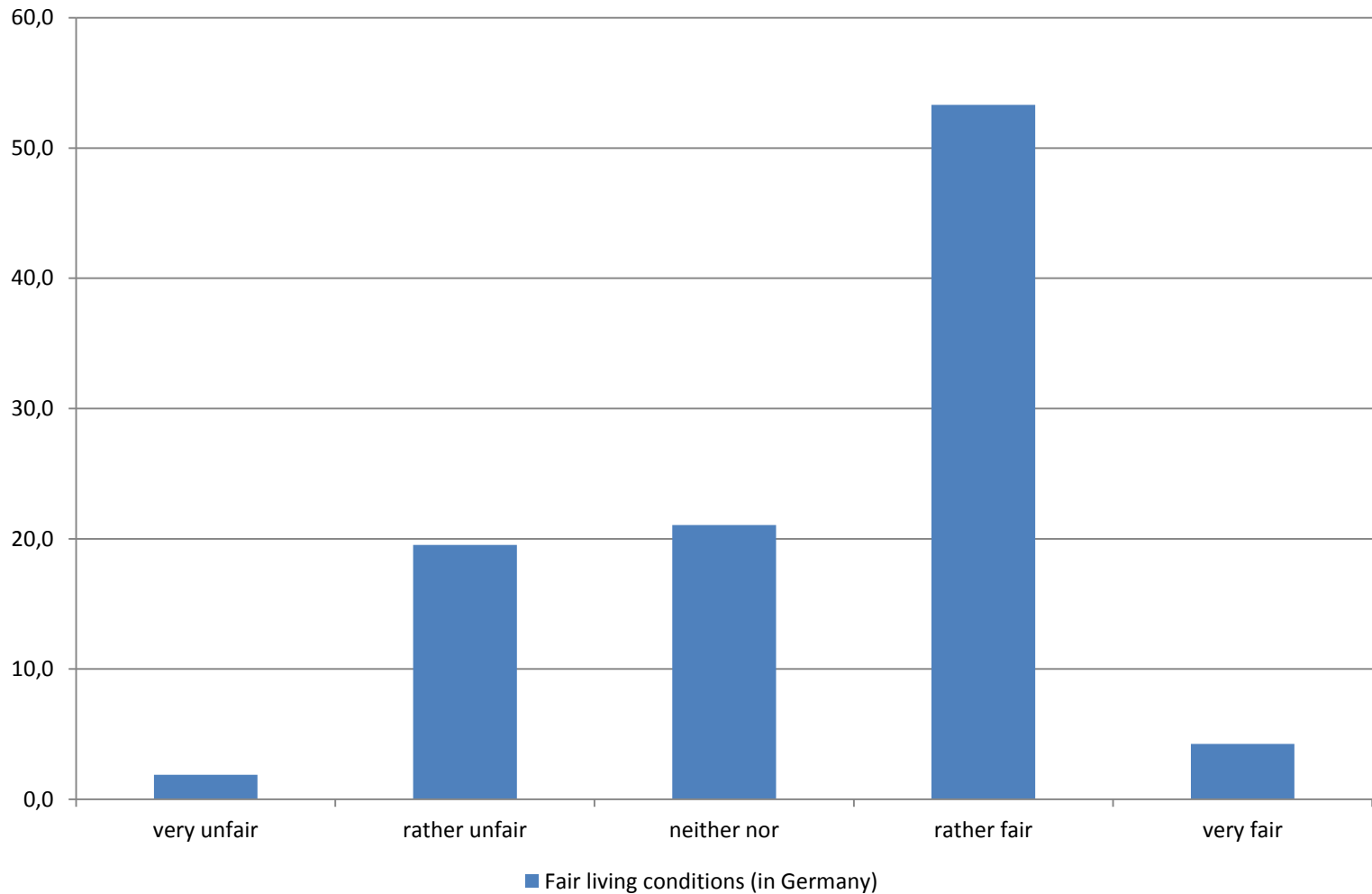
I Results QoL-CA (Opportunities)

Opportunities in general



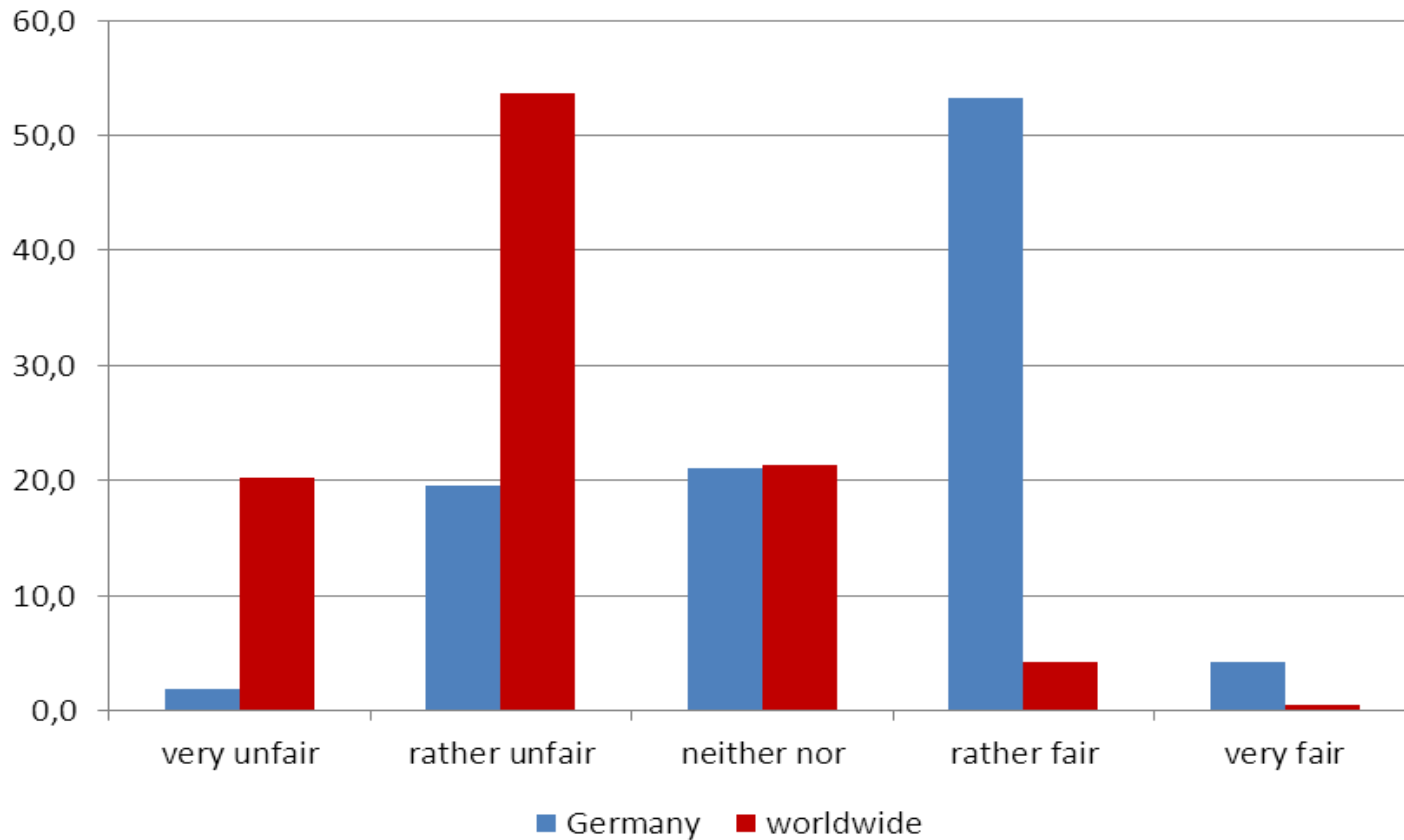
I Results QoL-CA (Justice)

Justice - living conditions (in Germany)

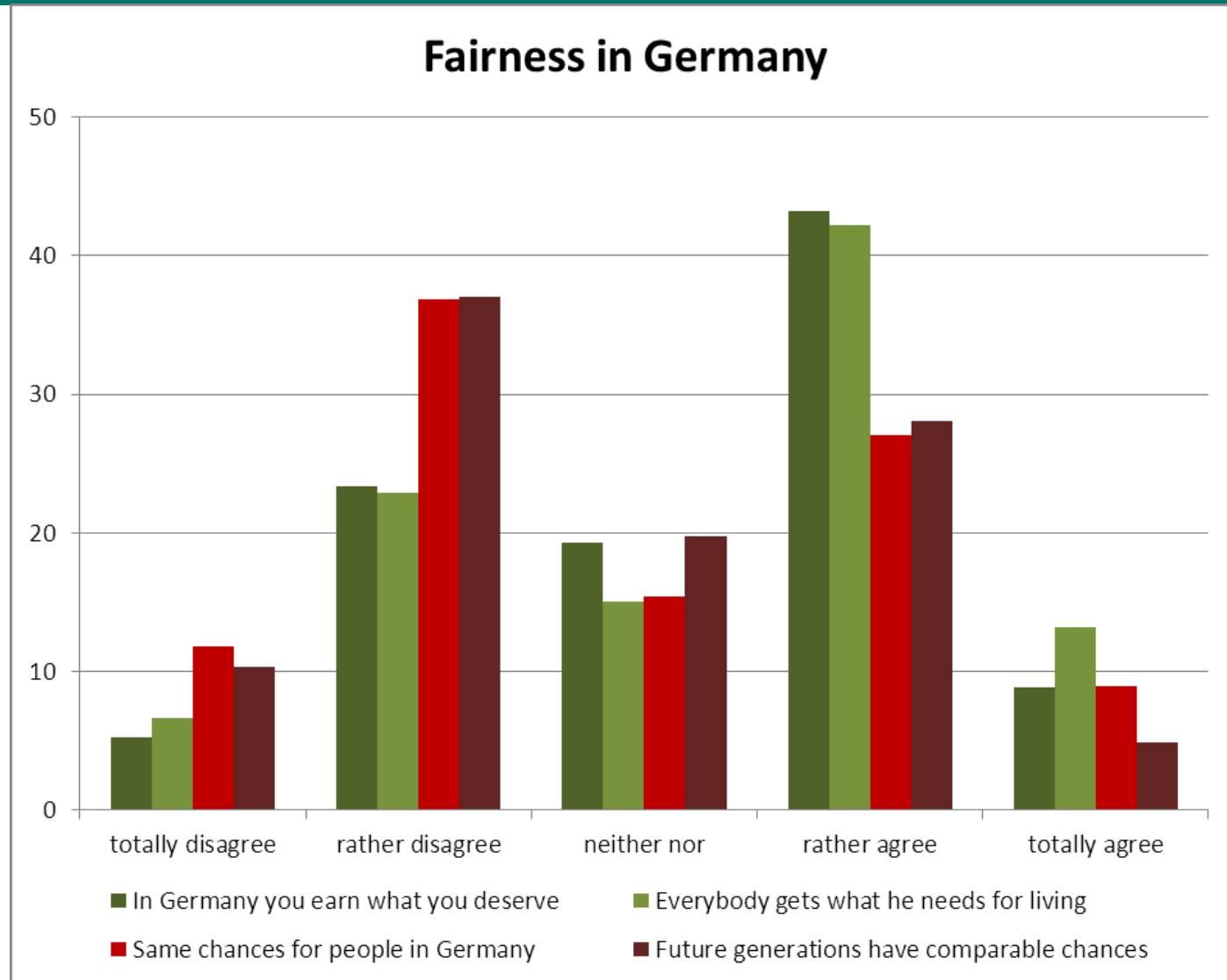


I Results QoL-CA (Justice)

Fair living conditions in Germany and worldwide

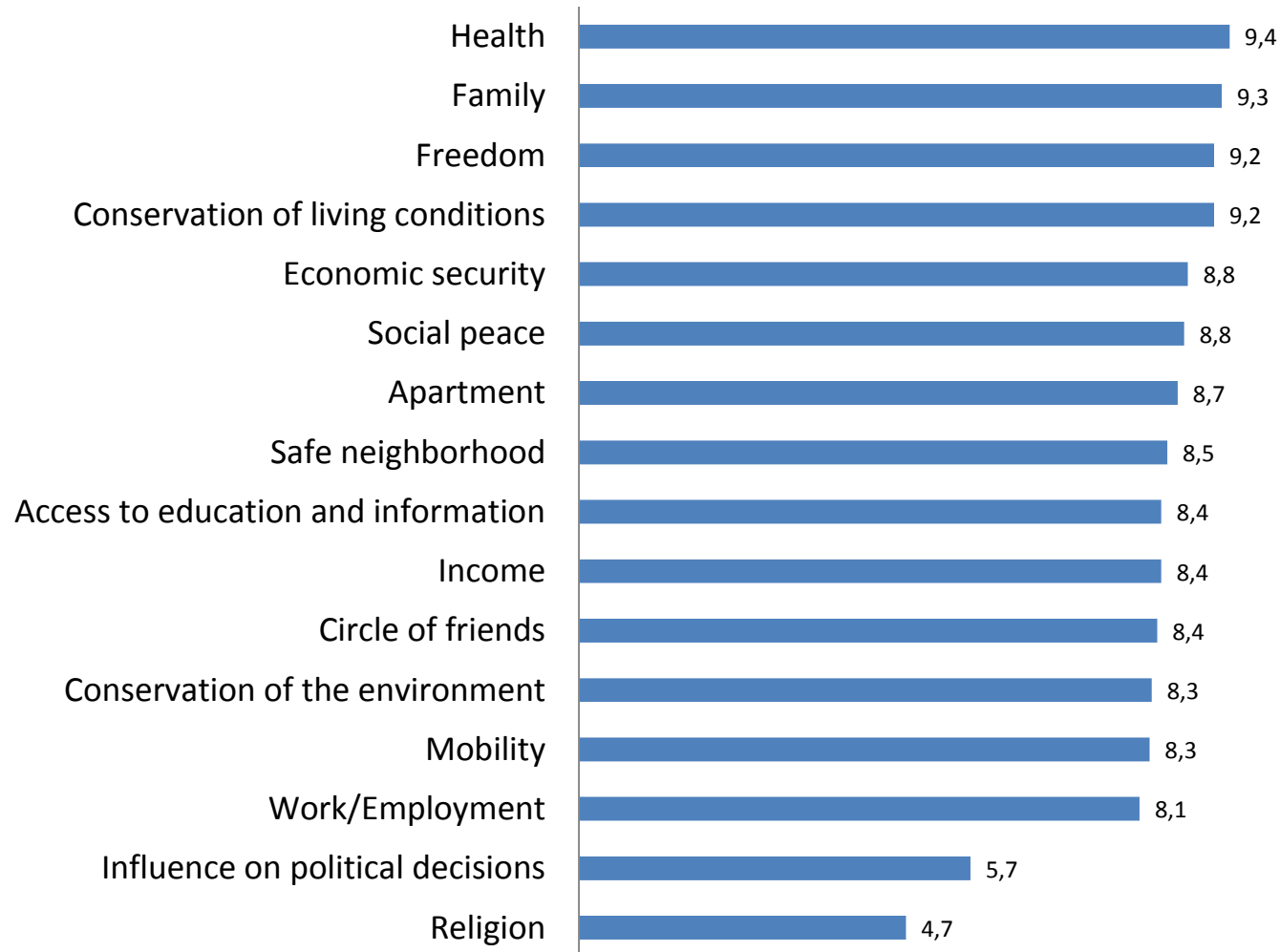


I Results QoL-CA (Fairness)



I QoL-CA-SD (Importance, Life Domains)

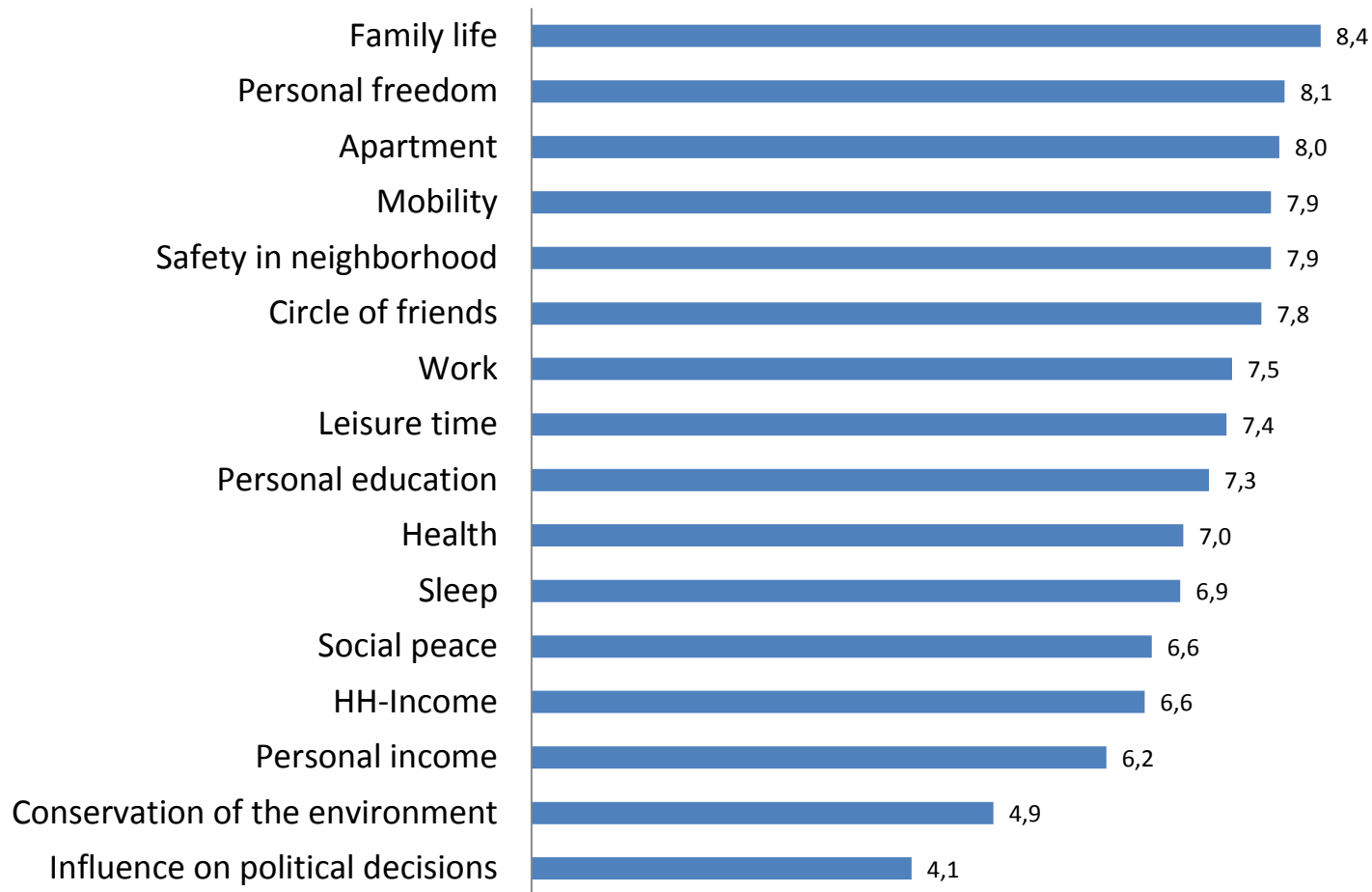
Importance (0: totally unimportant, 10: totally important)



■ Importance (0: totally unimportant, 10: totally important)

I QoL-CA-SD (Evaluation, Life Domains)

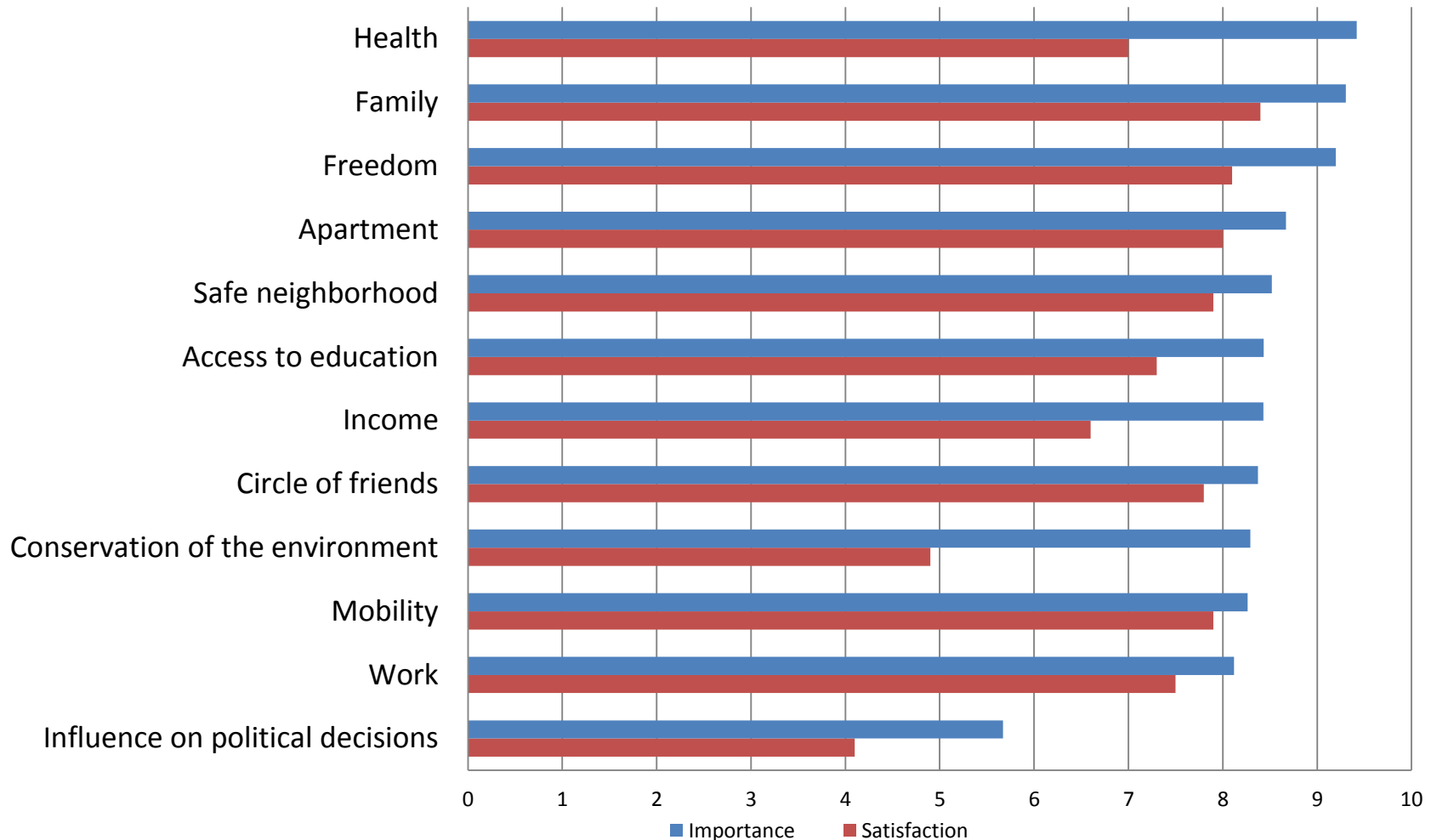
Satisfaction (0=totally unsatisfied, 10=totally satisfied)



■ Satisfaction (0=totally unsatisfied, 10=totally satisfied)

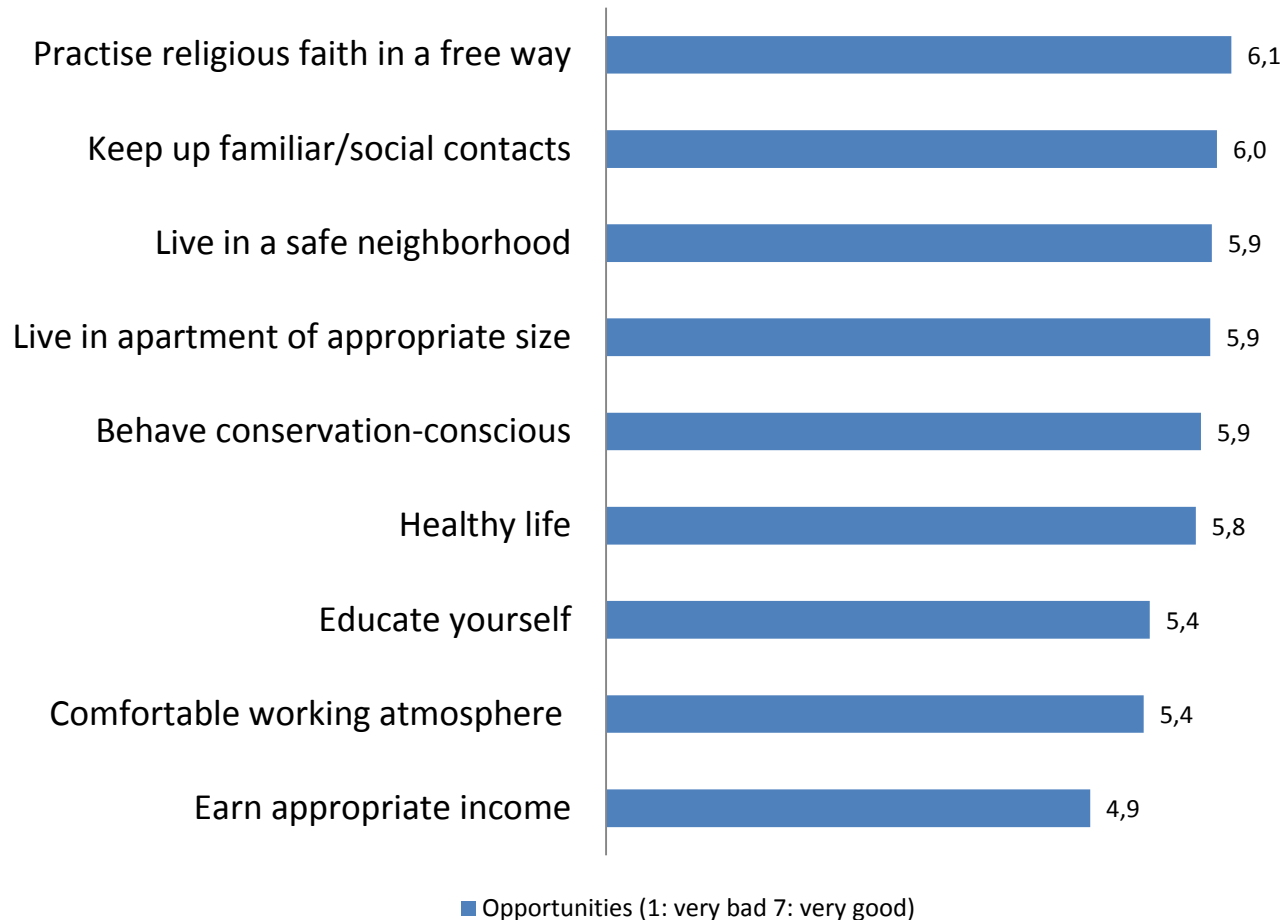
I QoL-CA-SD (Imp&Sat, Life Domains)

Importance and satisfaction



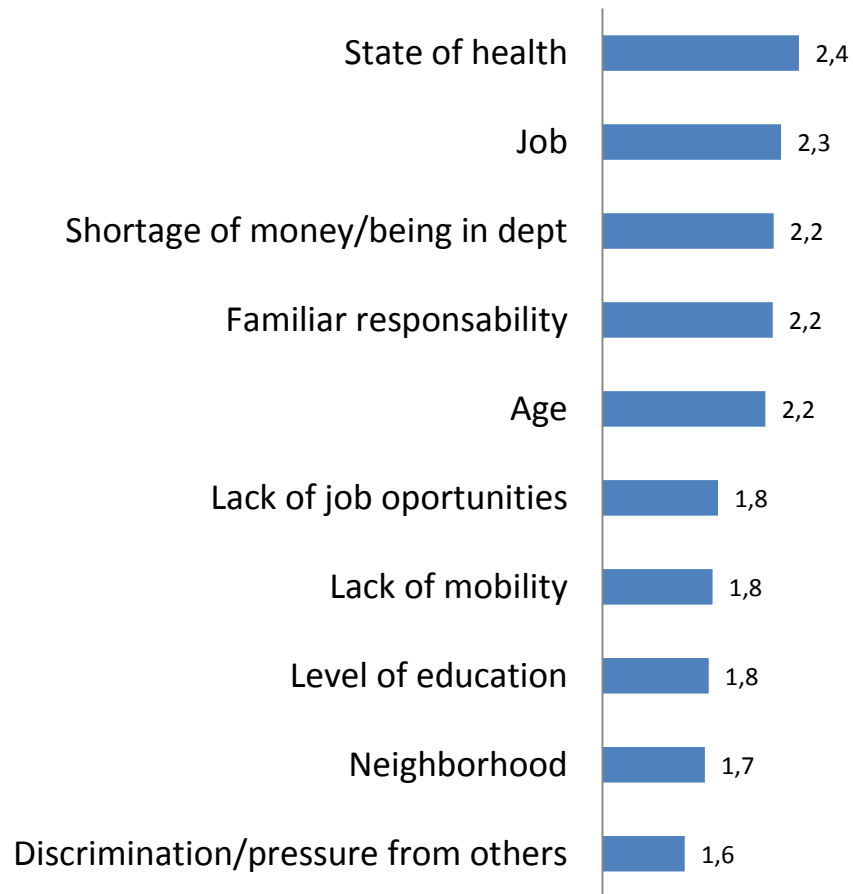
I CA (Opportunities, Life Domains)

Opportunities (1: very bad 7: very good)



III CA (Constraints, Life Domains)

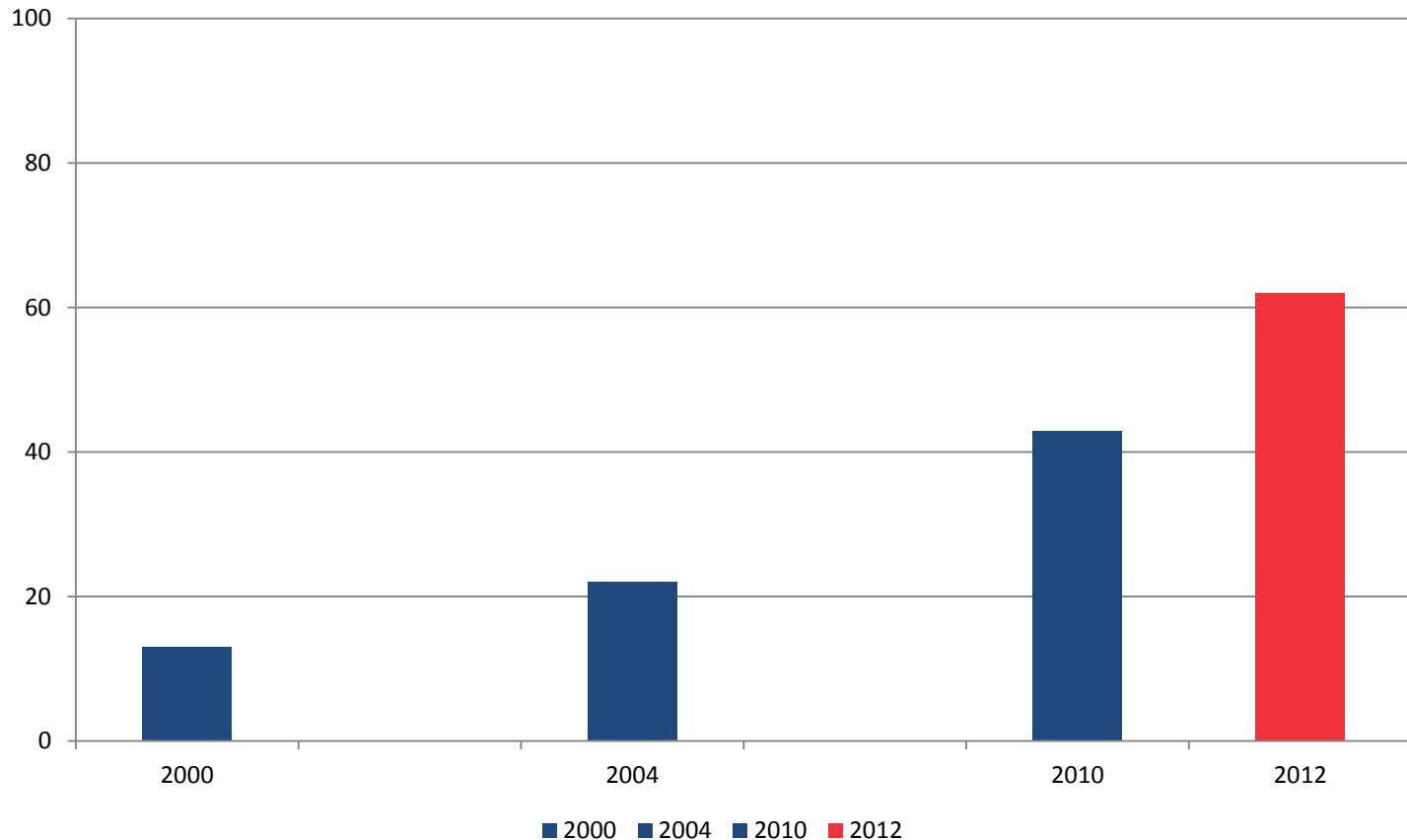
Constraints (1=never, 5=always)



■ Constraints (1=never, 5=always)

IV Results - SD (Awareness)

Development of the level of awareness of the term "Sustainable Development" in %



Source: 2000, 2004, 2010: Environment Department/Federal Environment Agency, sampling for environmentalism and environmental behaviour, 2010 ; 2012: SOEP-IS, (growth sample 2012), preliminary data

IV QoL-SD, Living Conditions (Improvem./ Decline)

4 [evaluate areas +50]What would you expect when you look 50 years into the future: In which areas would you expect an improvement of living conditions for a person of your age, sex and social status? Please name max. three areas.

1. area

2. area

3. area

5 [areas 50+ neg]And when you look once again 50 years into the future: In which areas would you expect a decline of living conditions for a person of your age, sex and social status? Please name also max. three areas.

1. area

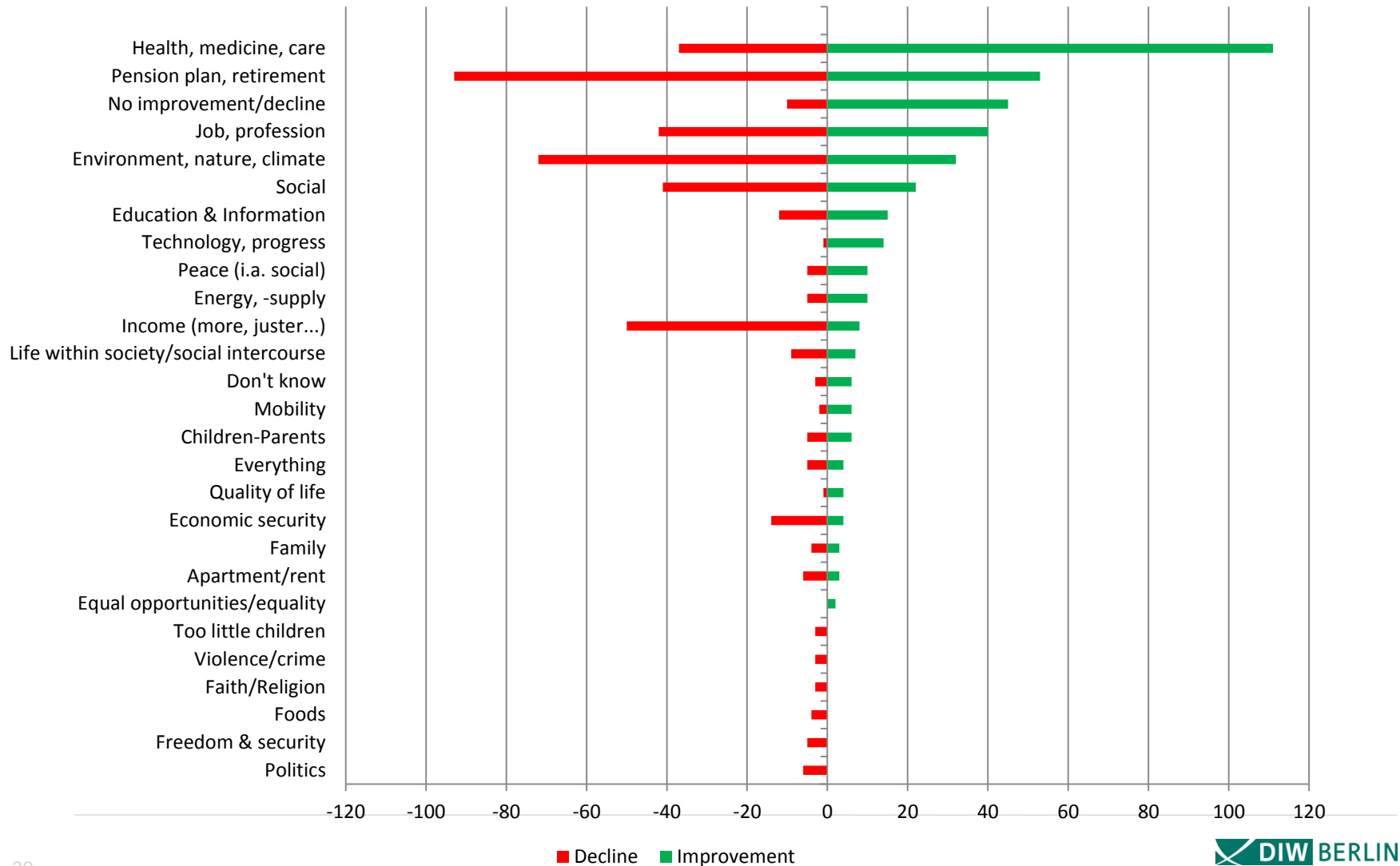
2. area

3. area

	1st area	2nd area	3rd area	sum
Improvement				
N	405	218	128	751
Decline				
N	448	293	153	894

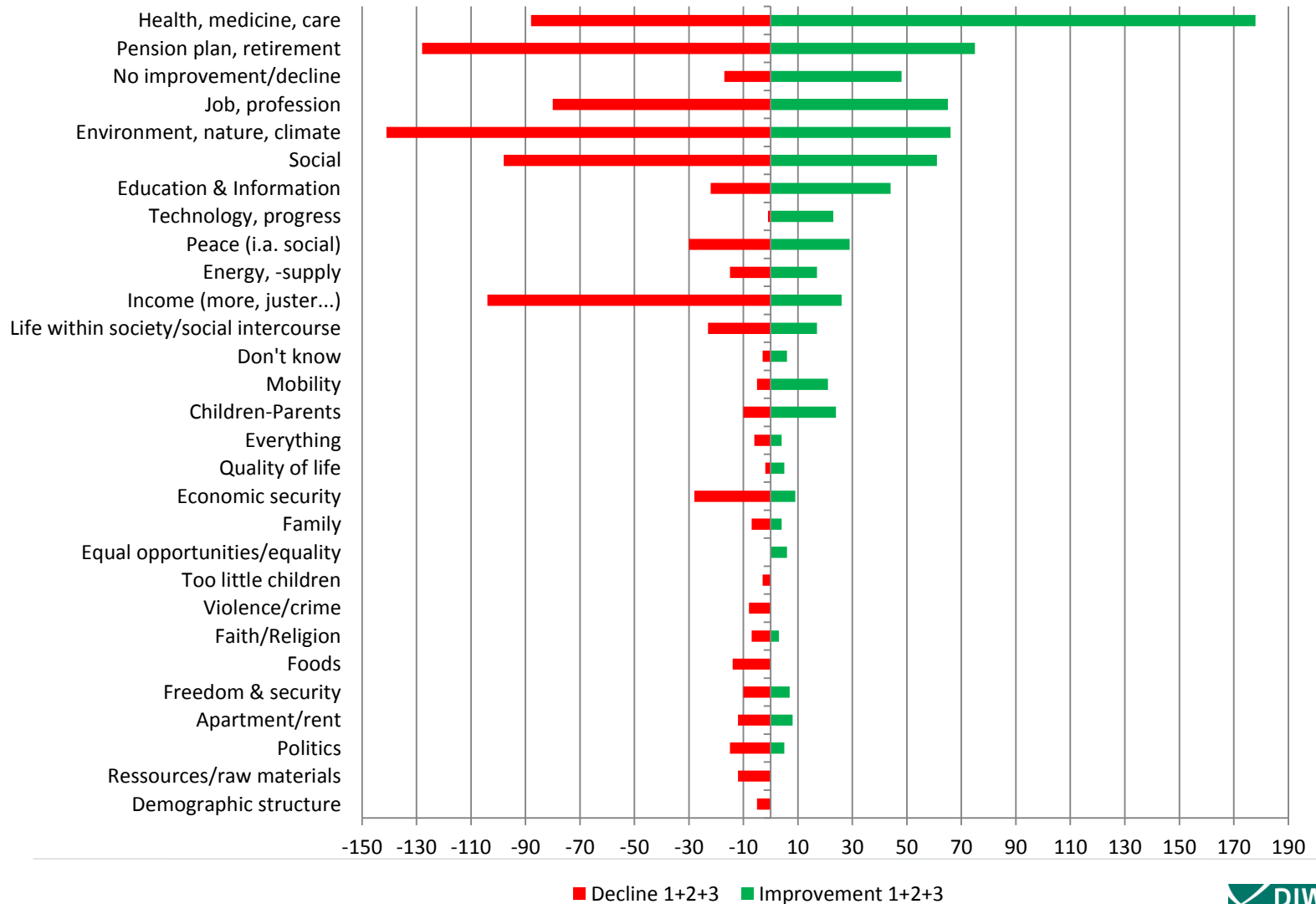
I QoL-SD (Improvement / Decline)

Expected Improvement & Decline, 1st area, absolute



I QoL-SD (Improvement / Decline)

Expected Improvement/Decline, sum 3 areas, absolute

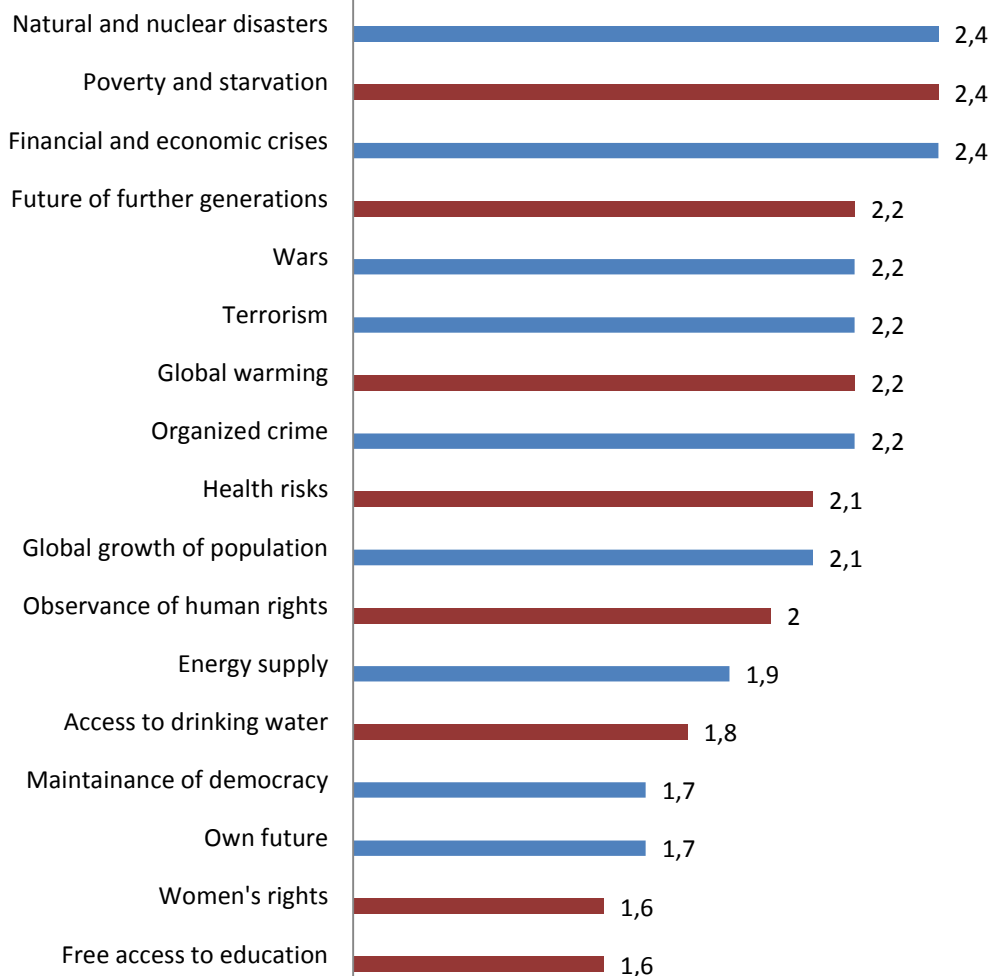


I QoI-SD Concerns (Millenium Goals)

Concerns (3=big, 2=some, 1=no)

The 8 Millennium Goals:

1. eradicating extreme poverty and hunger,
2. achieving universal primary education,
3. promoting gender equality and empowering women
4. reducing child mortality rates,
5. improving maternal health,
6. combating HIV/AIDS, malaria, and other diseases,
7. ensuring environmental sustainability, and
 - a. Integrate the principles of sustainable development into country policies and programs; reverse loss of environmental resources
 - b. Reduce biodiversity loss, achieving, by 2010, a significant reduction in the rate of loss
 - c. Halve, by 2015, the proportion of the population without sustainable access to safe drinking water and basic sanitation (for more information see the entry on water supply)
 - d. By 2020, to have achieved a significant improvement in the lives of at least 100 million slum-dwellers
8. developing a global partnership for development.



■ Concerns (Millennium Goals) ■ Concerns

I CA-SD Actors (opportunities)

12 [agencies opport.] Hereinafter it is about contributions of special persons and groups of persons to environmental and climate protection and therefor to the conservation of living conditions fpr further generations.

How are the opportunities for the persons and institutions to contribute something to environmental, climate and protection for further generations through their behaviour?

Please answer on the following scale:

0: very low

5: middle

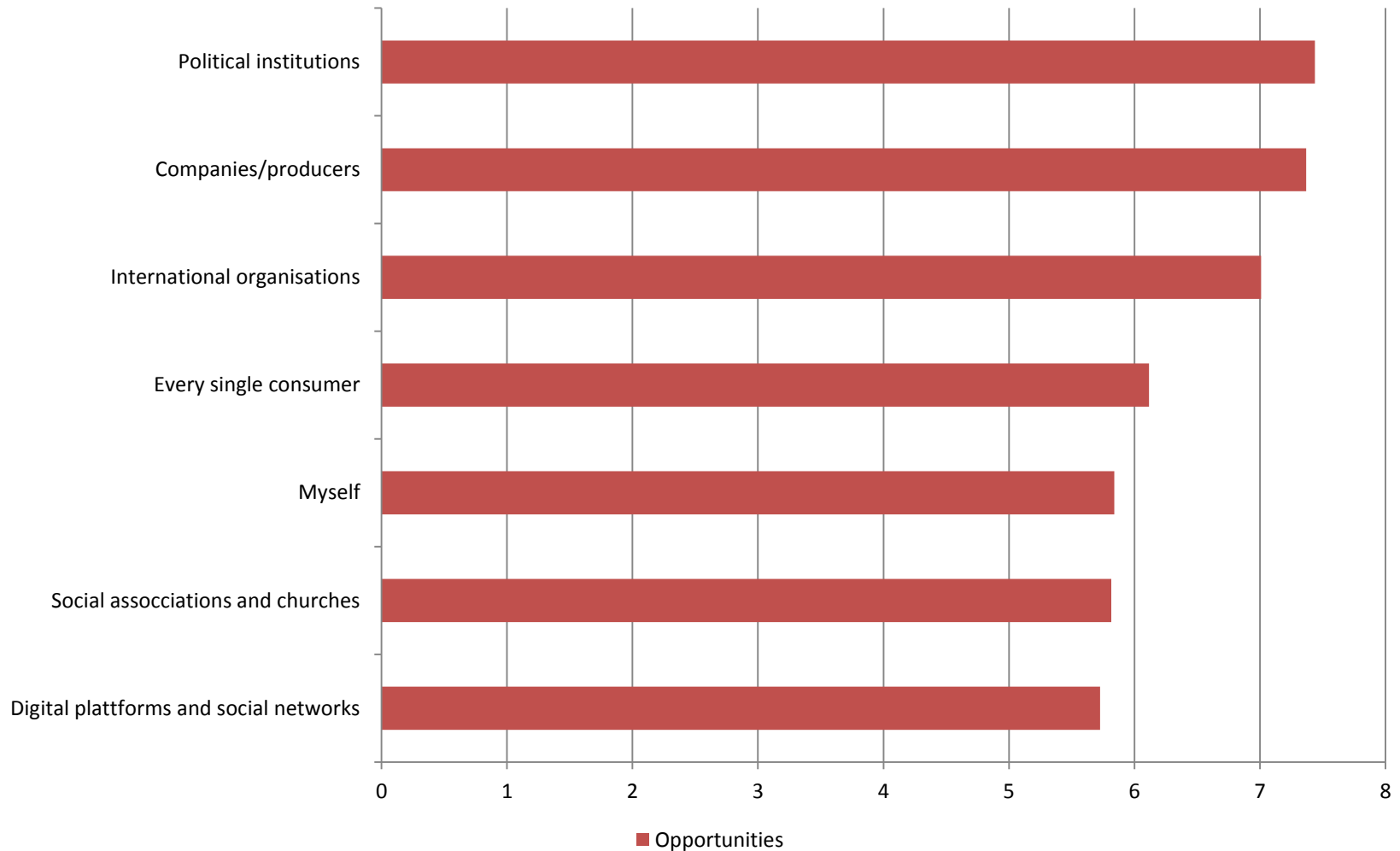
10: very high

Please choose the appropriate response for each item:

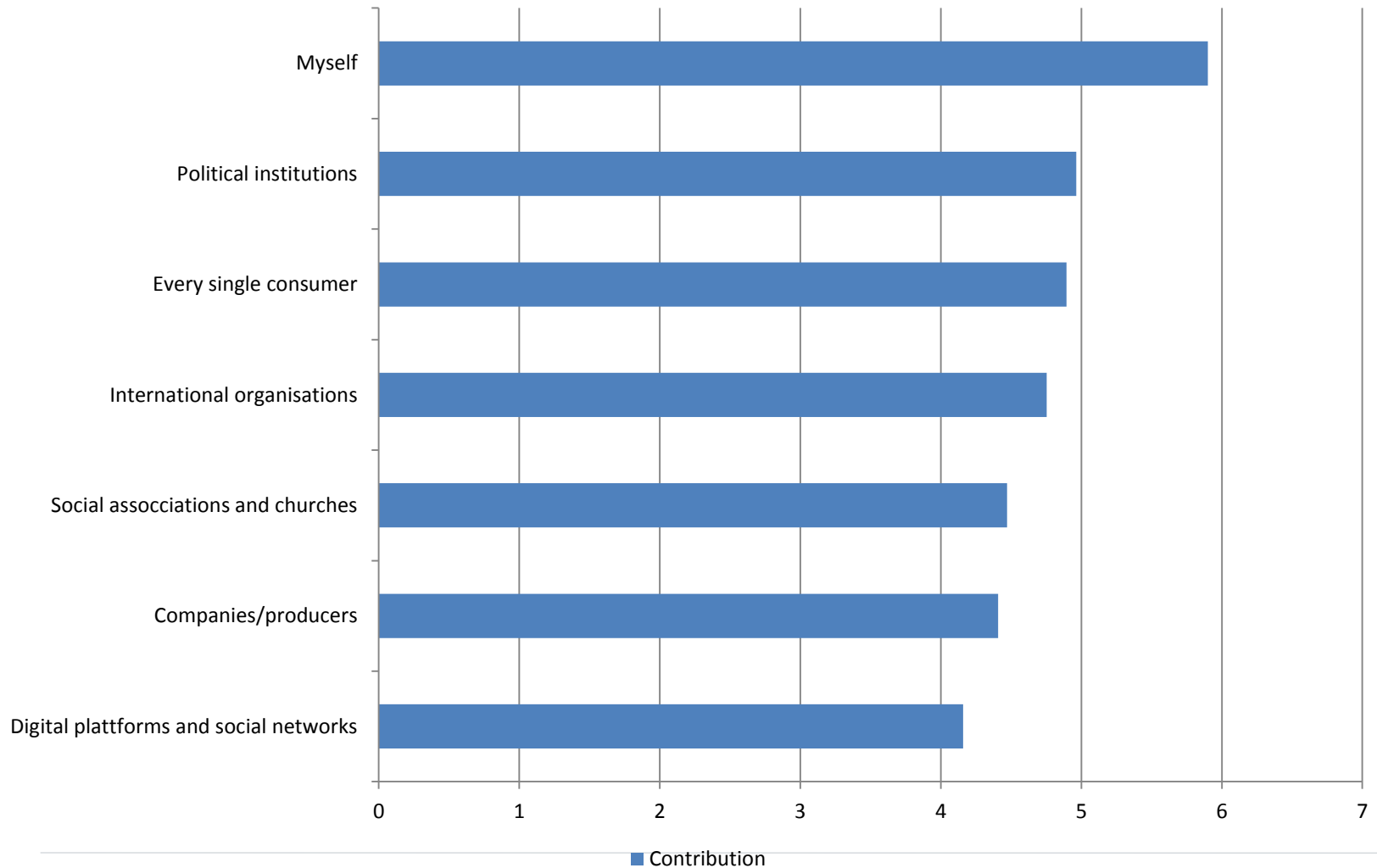
	0 very low	1	2	3	4	5 middle	6	7	8	9	10 very high
Yourself	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Every single consumer	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Companies/producer	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Political institutions (e.g. municipalities, federal states, nation states, European Union)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
International organisations (e.g. UN)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
The church and social associations	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Digital platforms and social networks	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
myself	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
every single person	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Producer/companies	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
EU	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

I SD (Agencies opportunities)

Opportunities of actors for sustainable development

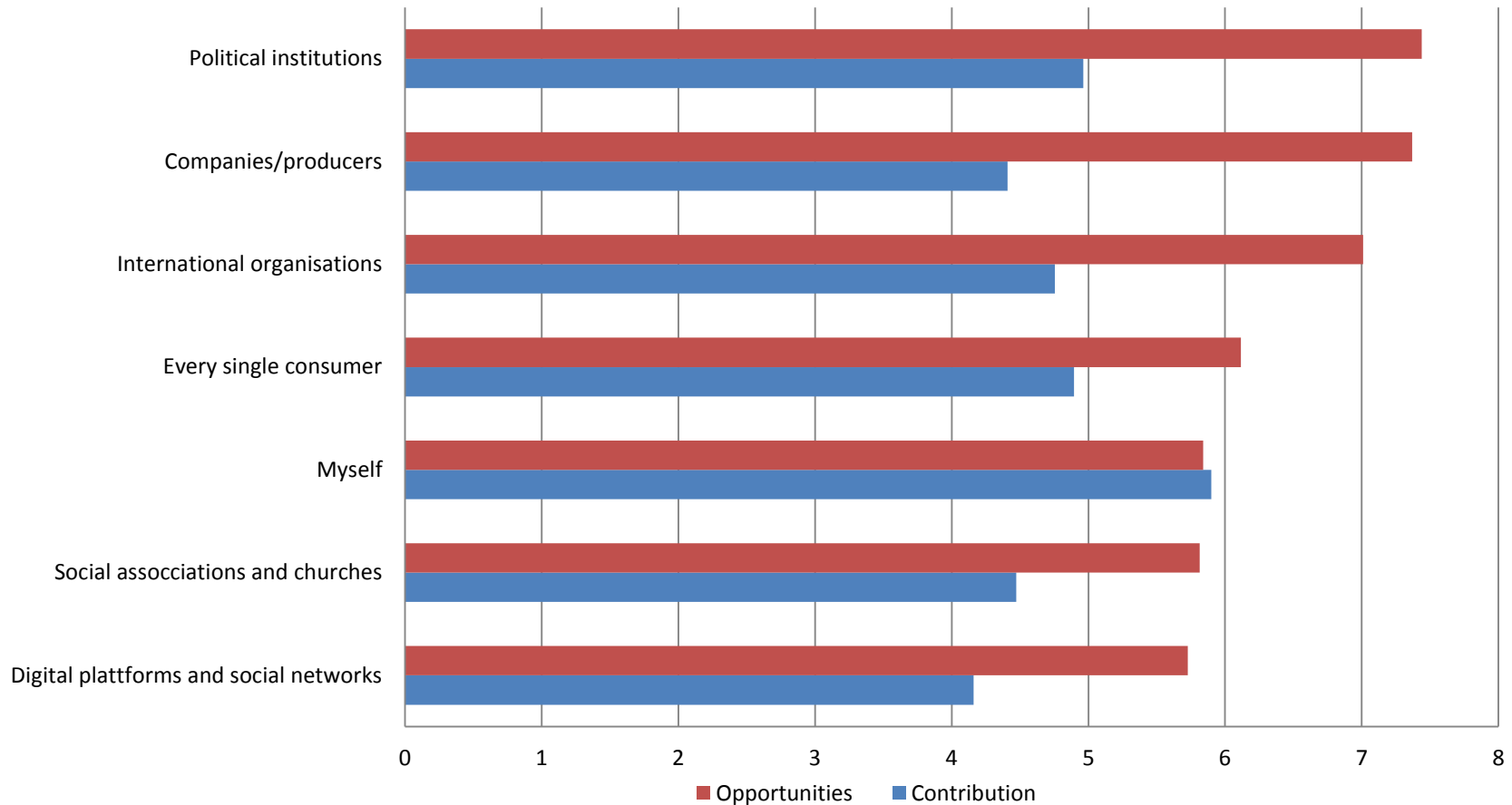


Contribution of actors to sustainable development



I CA-SD Actors (opportunities & contributions)

Influence of actors to sustainable development Comparison of opportunities and actual contribution





Thank you!