

The acceleration of social life in modern societies: sociological theories and empirical results

"Health, culture and society"

Univerzita Karlova, Praha April 29th 2016, 11.00-12.30

www.th-nuernberg.eu page 1

Contents



- 1. My university
- 2. Empirical social research: principles, aims, methods, design, process, operationalisation, quality criteria
- 3. Research questions aiming at "pace of social life"
- 4. Time budgets of full-time-employed in 1965, 1991, 2012
- 5. Theories to explain acceleration
- 6. Controversial explanations for the happiness-timestress-paradoxon
- 7. Conclusions
- 8. Acceleration of education in the life-course



Nuremberg Institute of Technology: Let me introduce my university to you





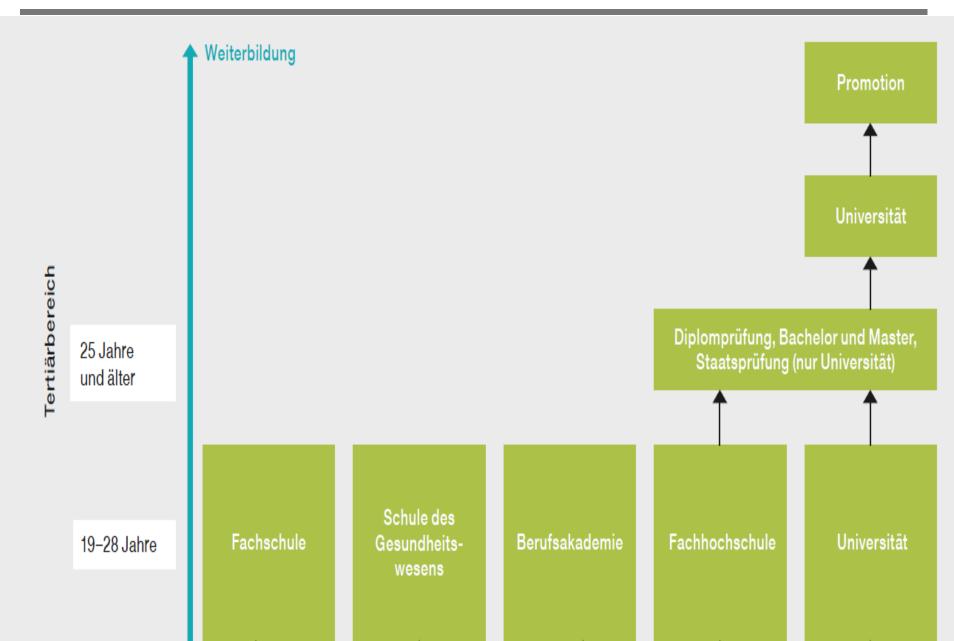




www.th-nuernberg.eu Seite 4

Tertiary Education in Germany





Nuremberg Tech: Univ. of applied Science TECHNISCHE HOCHSCHULE NÜRNBERG GEORG SIMON OHM

The Nuremberg Institute of Technology, in short Nuremberg Tech, with more than 11,300 students is one of the largest **universities of applied sciences** in Germany, and is known for

- a wide range of subjects and departments
- interdisciplinary research
- application-oriented teaching
- international focus

ten strategic leading topics

















- attractive working conditions
- excellent performance
- importance for the metropolitan region
- our world-famous eponym

www.th-nuernberg.eu page 6

Faculty of Social Sciences



■ Students ~ 1.510

■ Bachelor Degree Social Work ~ 1.300

Female: male 80:20

Newly enrolled students per annum

■ Bachelor Social Work 300

Bachelor Lifelong Learning
40

■ Master Degree Social Work 38

Master Counseling and Coaching 10

Professors 32

■ Part time lecturers ~ 100

Principles for empirical research



- Pose significant questions that can be investigated empirically!
- Link research to relevant theory!
- 3. Use methods that permit direct investigation of the question!
- 4. Provide coherent and explicit chain of reasoning!
- 5. Replicate and generalize across studies!
- 6. Disclose research to encourage professional scrutiny and critique!

Aims of empirical social research



- description of social reality
- exploration, if you have little information. Often leading to generation of hypotheses
- explanation: examination of the empirical validity of hypotheses and theories
- evaluation of the effects of a programme
- prognosis: based on empirical valid theories, prognosis is possible (mainly in psychology, not so often in sociology)

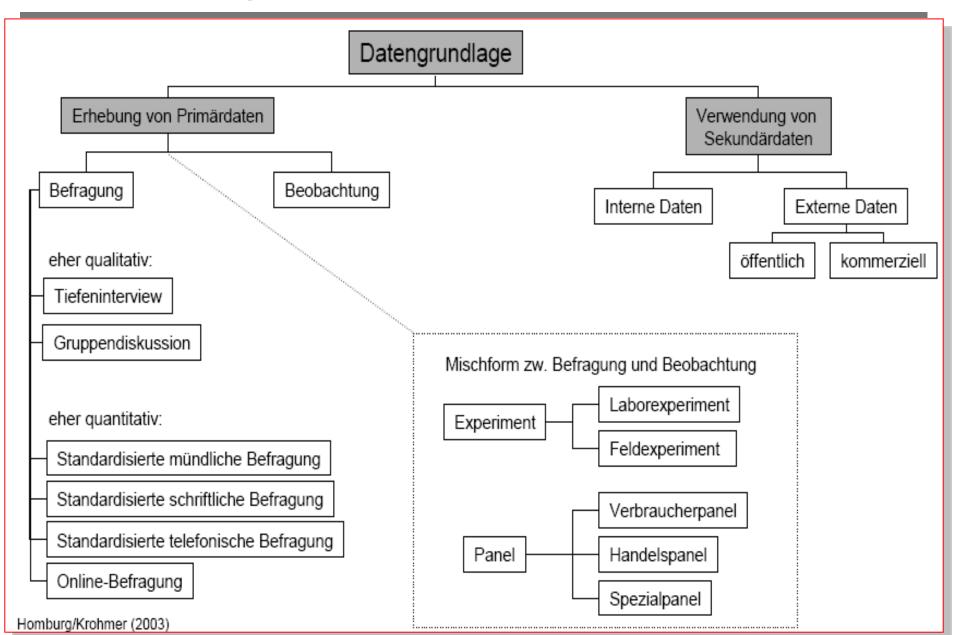
The process of empirical research



- 1. Concrete research question
- 2. Theoretical background (state of the art in research)
- 3. Research design (explorative, descriptive, analysis of correlations, analysis of causes, longitudinal)
- 4. Sampling
- Methods of data collection
- Methods of data evaluation
- 7. Reference back to the research question
- 8. Generalisation

Methods of empirical social research





Design of research

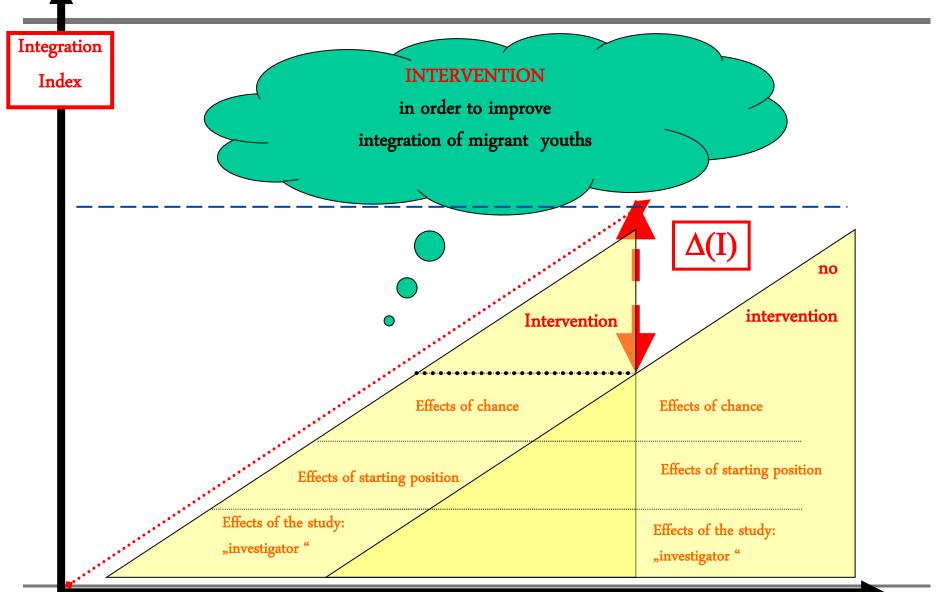


- depends on research question
- An example: examination of change
- → Longitudinal design
- without intervention: time effects in longitudinal studies
- with intervention: impact of "measures": evaluation studies
- "What do you think about double-blind-experiments"?



The problem of evaluation





time

Operationalisation



How can theoretical terms be measured empirically?

term (e.g. acceleration of social life)



dimensions



indicators



measuring instrument



facts in social reality

Quality criteria



Objectivity:

- Independence from investigator
- In the phases of data collection, examination and interpretation

Reliability

Can be reproduced steadily

Validity

Does the test or questionnaire measure what it intends to measure?

Research questions to focus on the acceleration of life



<u>Acceleration of social life</u> <u>http://www.3sat.de/mediathek/?display=1&mode=play&obj=31774</u>

- What is the time budget of full-time-employed (and students) for their obligations (studying, employment)?
- How much time remains for their leisure time and for personal needs (= sleeping, body care, meals)?
- How has the time budget of these groups changed in recent decades?
- How do the respondents perceive their time-stress subjectively?

www.th-nuernberg.eu page 16

Indicators of time pressure



	"objective" indicators time-budgets- (diaries) and social indicators	"subjective" indicators perception and importance of
indicators at indi- vidual level	 leisure time paid work unpaid work share of burden in unpaid work for men time for personal needs: sleeping time time for a rest time for meals 	 time pressure index: 10 items percentage who often feel rushed happiness looking confidently ahead to one's future
↑	†	† /
national time cultures	 time values (importance of well-being values) time norms (maximum speed on motorways) time institutions (free evenings after work, weekends, ho social infrastructure (hours of children in schools, public waiting times in traffic, at doctors, in offices extent of paid work, variation: proportion of employed > flexible working hours (weekend, shift, autonomy in co- proportion of workers with high speed work job insecurity 	child care facilities) 48 hours and < 15 hours/week

Acceleration	Time structure at the macro-level • higher "pace of social life" • faster global communica-tion	Indidivual time use at the micro level Less time for • sleeping • relaxation • Meals • more people suffer from time pressure
Compression	 in the life-span: shortening of education phase quicker transitions less time for work-breaks 	 more simultaneous activities more multi-tasking more dense paid and unpaid work

Measuring instrument to collect data of time-use: diaries for seven days



- 30 prescribed activities
- standardised daily routine diary
- on seven days and over 24 hours in 15-minutes-cycle

Persönlicher Bereich zu Haus	5	 6	 7	 8	9	 10	11	 12	 13	1	4	
1 Schlaf												
2 Körperpflege, Anziehen												
3 Mahlzeiten												

Studienbezogene Aktivitäten zu Haus	5	6	7	8	9	10	11	12	13	14
4 Vor- und Nachbereitung, Fachlektüre,										
schriftl. Arbeiten, studentische AG,										
studienbezogene Mail u. Internet-Recherche										

Time budget of full-time employed 1991 and 2012/13



1.545 full-time employed in West Germany1991/92 (my own data)

Full-time employed 2012/13 according to Statistisches Bundesamt, 1965: Szalai 1972

Mean of 7 days Monday – Sunday in hours

Aktivities at home	1965	1991	2012/13
Sleeping	8,3	7,6	8,2
Body care	0,7	0,6	0,8
Meals	1,3	1,0	1,5
Relaxation		0,4	0,3
Learning at home		0,1	0,2
Homework		1,0	2,4
Child care		0,2	0,3
Talking, including on phone		0,6	0,6
Reading		0,3	0,4
TV, Video		1,5	1,8
On the computer			0,4
Sports at home		0,1	0
Employment at home		0,4	0,3

Which objective time constraints have contributed to the spread of time-crunch

- A comparison of German time-budgets in 1965 and 1991/92: While in these thirty
 years the work-free time of full-time-employed Germans has increased by one
 hour per day this was counterbalanced through the reduction of one hour devoted to personal needs.
- Time devoted to sleeping has decreased for full-time-employed Germans by 40 minutes.
- However, from 1991 to 2012 this loss in sleeping-time was nearly compensated.
- Consequently, every second employed German "could not get a proper sleep" in 1999.
- The trend in the time devoted to sleeping also applies to the French from 1986 to 1999 (12 minutes less).
- In Japan time for sleep continued to decline from 1995 to 2000.

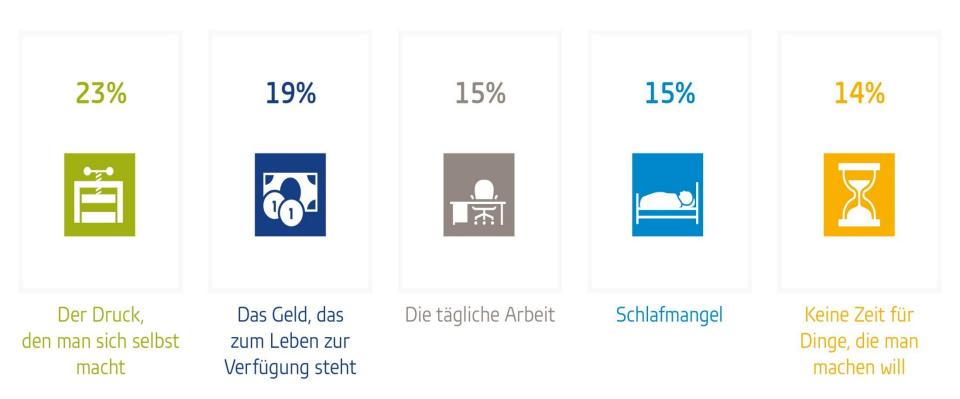
www.th-nuernberg.eu page 21

Top 5 origins for stress Germany 2015





DEUTSCHLAND: TOP 5 HAUPTURSACHEN VON STRESS



Top 3 reasons for stress D-CZ 2015





TOP 3 HAUPTURSACHEN VON STRESS

Länderergebnisse

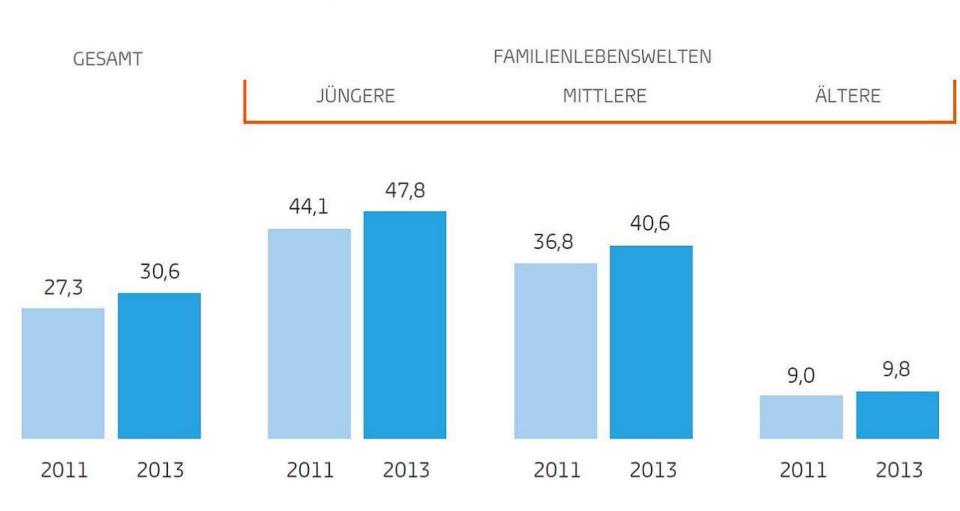
	3	35% · <mark>32%</mark> · 22% USA	Ar	gentinien 53	% · 41 % · 40%		
30)% • <mark>28%</mark> • 22% Gro	oßbritannien		Austr	ralien 35% · <mark>32%</mark>	· 24%	
	59% · 51% · 49%	Türkei			Belgien 34% · 30	0% - 28%	
38% -	36% · 31% Schwe	den Län d	derdurchschi	nitt	Brasilien 399	% · 39% · 38	3%
44%	· 36% · 32% Spanio	en 29%	27%	23%	Kanada 37	% · 30% · 2	2%
35% · <mark>26</mark>	5% · 25% Südkorea		2/%	25%	China 239	% · 20% · 19	9%
36% - 20	6% · 20% Russland				Tschechis	che Republil	
38%	· 24% · <mark>24% Pole</mark> n	402			Frankreich	42% - 34%	6 · 31%
26% · <mark>25</mark>	% · 20% Niederlan	de			Deutschland	23% - 19%	6 · 15%
	47% · <mark>39% · 36%</mark> N	1exiko			Hongkong 23%	. 22% - 21	%
	22% • 13% •	13% Japan		lta	lien 42% · <mark>29</mark> % ·	24%	
Das Geld, das zum Leben zur Verfügung steht	Der Druck, den man sich selbst macht	Schlafmangel	Keine Zeit für Dinge, die man machen will	■ Die täg Arbeit		dheit	Bedrohung durch Kriminalität

Time stress increased for younger and middle ages 2011-13



Keine Zeit für gar nichts: Haushalte zunehmend im Zeitstress

Haushalte mit sehr stark / stark empfundenem Zeitstress



© GfK | Quelle: ConsumerScan

Ten items of time-pressure among German workers 1999



Items	often in %
under time pressure 1999	46
under time pressure 1991/92	25
cannot get a proper sleep	49
wish to have more time for myself	48
I am stuck to a timetable	39
feel myself under time pressure from others	25
cannot deal with important things properly due to lack of time	17
cannot recover properly from illnesses due to lack of time	18
under so much time pressure that my health suffers	16
arrive late for appointments	8
cannot keep deadlines	5

2015: 36% of all adult respondents > 14 years

431 full time employed 1999 reliability: standardized item alpha .85

Pace of life in seven nations



	←	slower	or	faster	pace	of	life →
	Spain 96	Germany 99	UK 95	Sweden 91	U.S.A. 98	Japan 00	Portugal 99
leisure time per day acc. to diaries mean Mon – Sun	5.4	5.2	5.3	4.8	4.6	4.4	3.6
percentage who claim to suffer from frequent time pressure	11	46			40 1993		45
hours per day for a rest or siesta mean Mon – Sun	0.7	0.4	0.1	0.2	0.1 1985		
Levine-ranking: pace of life (37 nations, 1: fastest)		3	6		16	2	

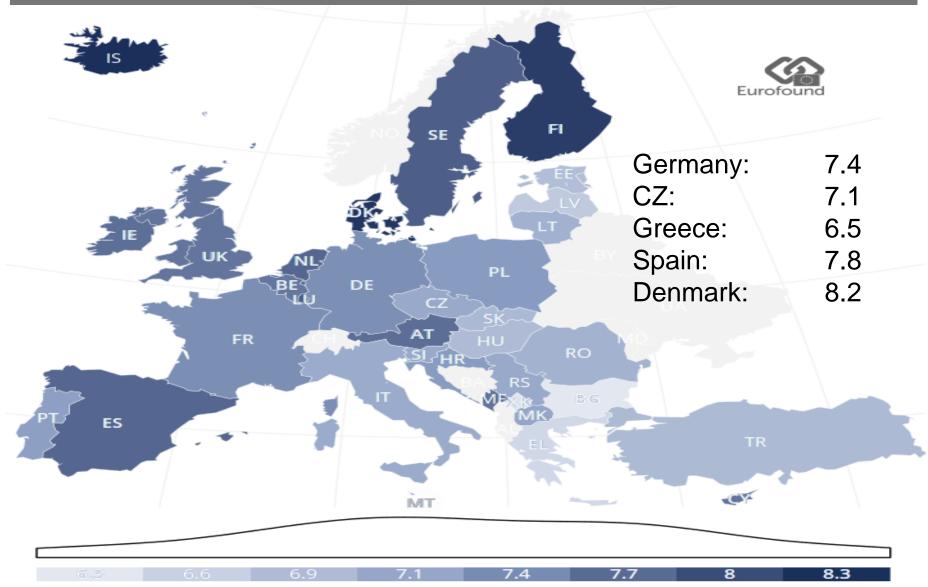
Time budget data for full-time employed only

Garhammer, 1999, p. 454, Germany 1999 according to GFK-data 1999

USA 1993: Robinson and Godbey, 1997

Japan 2000: own calculations based on Japan: Mitsuya and Nakano, 2001, table 5 and 21 for "jobholders", part-timers included Portugal 1999: Instituto Nacional de Estatistica Portugal (June 19, 2001)

How happy you are? All age groups > 14 TECHNISCHE HOCHSCHULE NÜRNBERG European Quality of Life Survey 2012 (0-10) TECHNISCHE HOCHSCHULE NÜRNBERG GEORG SIMON OHM



Theories in sociology to explain acceleration of life



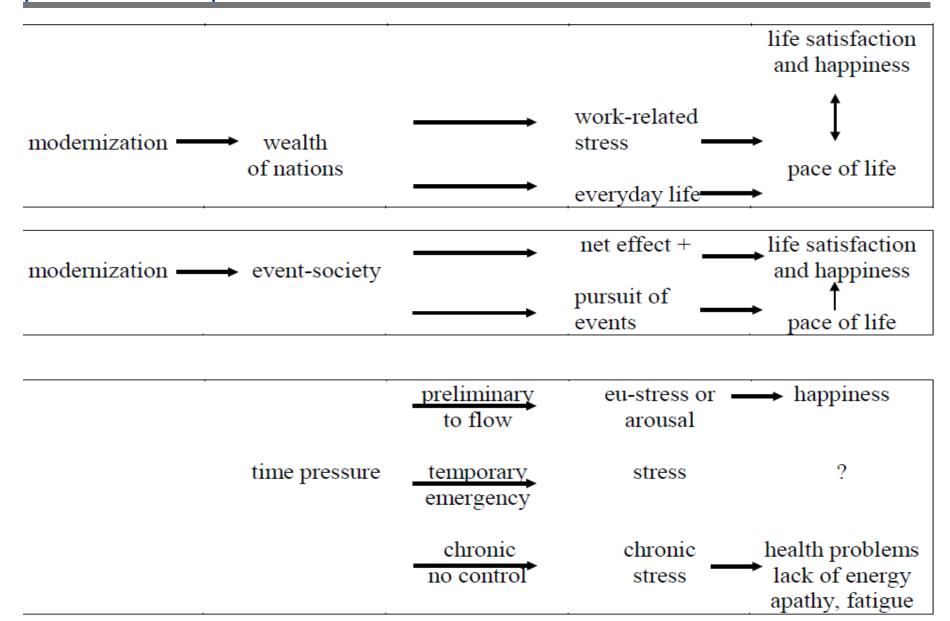
- Karl Marx 1867: Das Kapital, Vol. I-III, e.g. in ch. 13 on modern industry
- Emile Durkheim 1893: De la division du travail social
- Georg Simmel 1895: The meaning of money for the pace of life
- Staffan B. Linder 1970: The harried leisure class
- Gerhard Schulze 1992: The event Society
- Mihály Csikszentmihalyi 1990: Flow
- Peter Gross 1994: The multi-option-society
- Hartmut Rosa 2005: acceleration: the change of time structure in modern society:

The "paradox" he stated for the modern society:

We all have less time although we are winning time almost in every areas of life! (see also Linder-paradox)

Pace of life – enjoyment of life – paradox and possible answers





Controversial explanations for the time-pressure-happiness-paradox TECHNISCHE HOCHSCHULE NÜRNBERG GEORG SIMON OHM

- As modernization theory argues life satisfaction is proliferating along with living standards (e.g. **Parsons** 1971). It is exactly this change that accelerates social life. Hence, the negative effects of growing stress are counterbalanced by the yields of modernization.
- In 1893 **Durkheim** began his analysis on the division of work questioning Adam Smith's thesis that higher productivity of industrial work would enhance the "happiness of individuals". He argued that in fact industrialization has enhanced the suffering of workers at the same time.
- Marx 1867 contributed convincing arguments for the necessity of this fact in capitalism.
- Durkheim 1893 (in his book III on the "anomistic division of labour") argued that
 the exaggerated velocity of social change which has increased through modernity
 "will put a strain on people" and may result in illness. The problem in Durkheim's
 explanation of "anomy" is not "too little progress but rather too much of it.
- Schulze (1992) and Gross (1994) associate the origins of time pressure with the
 opportunities for and the pressure on individuals to "experience more and more in
 the same length of time": People do not want to miss anything in life. An

overloaded agenda is assumed to be the major reason.

Controversial explanations for the time-pressure-happiness-paradox TECHNISCHE HOCHSCHULE NÜRNBERG GEORG SIMON OHM

- What Simmel 1895 observed in Berlin has now intensified: Rapidly changing fashions provide opportunities to discover one's individuality. This multiplication of leisure activities and sense experiences is one reason for the feeling of restlessness: both as a sense of time pressure as well as a "thrill" stimulating one's mind.
- However: Leisure within the family prevails particularly in the lower classes.
 Empirical research has shown that the family-centred life-style is the most proliferated one.
- A second explanation for the paradox is given through the psychological approach according to which time pressure may fulfil a positive function for generating flow and mobilizing resources. Two psychological states which may both be connected with time scarcity: "eu-stress" (from the Greek word: eu = happy) or arousal and stress (Csikszentmihalyi 1975, 1991, 1992, 2002).
- The crucial condition which sets the "positive" function of arousal as well as temporary emergency-stress apart from negative stress is whether the actor feels in control of his actions or not. In the first case arousal may become the "spice of life", a challenge, not a threat. When actors lack this sense of control then the notion of stress changes: from the "spice of life" to the "kiss of death".

Conclusions



- Findings are consistent throughout recent literature that chronic time pressure in work life is increasing and is associated with poor mental health and psychic and somatic symptoms (see European Surveys on Working Conditions)
- One feature which distinguishes arousal or temporary stress in emergency situations from disease-provoking stress and time pressure has been identified as the *chronic occurrence of stress*. In this case time pressure is a cause for concern since it is linked with health symptoms such as fatigue, sleeping difficulties etc.
- This paper has given evidence for various stress factors in work life which do not
 evolve from free decisions made by actors. They refer to structural reasons which
 are more or less pronounced in distinct cultures.
- Regardless of the North-South-differences within Europe there is a specific *European* organisation of social time as opposed to the U.S.-model where the sense of restlessness is more pronounced.
- Globalisation seems to generalise this US-model.

www.th-nuernberg.eu page 32



Timing of Education Phases in Life

- Bachelor-reform in the context of bringing forward and compressing in general the educational phase in one's life cycle
- Pre-school education should assume the responsibility of initial school education (neuropsychology: "optimal time frames of child development")
- School enrolment should take place earlier (6.7 years → 6.0 → 5 years)
- Secondary school (Gymnasium) should take only 8 years (no longer 9)
- Transition to study should be immediate (no gap year)
- The primary degree should only take 6 semesters ("Diplom": 8-12)
- Life-long learning after graduation is defined as a private responsibility
- This corresponds with shortening and compressing institutional education

Transition Ages 1953-2003



Birth cohort 1953		School enrollment 6.7 years			Graduation age: 27.75
4.5 years parental education at home	1.5 Kin der gar ten	4 years primary school	G9: 9 years secondary education	1. 3 Ci vil Se rvi ce	6.25 years Diplom (university)

Co- hort 2003			School enrollment: 6.0 years		Gradu ation age: 21.5
years parent al educat ion	C rè c h e	3 years Kinder garten	4 years primary school	G8: 8 years secondary education	3.25 years Bache lor



Typical Transition Ages within the Education System UK – Germany 2007/08

	School enrolment	Graduation age upper secondary	Graduation age tertiary 5-6 years ("Diplom")	Graduation age Bachelor 2008
Germany	6-7	19-20	28.1 (2008)	25.8
UK	4-5	16	22-24	22

Time budget of full-time employed and students 2012/13



Full-time employed according to Statistisches Bundesamt 2012/2013

103 Bachelor-Students of Social Work Nürnberg 2012

Mean of 7 days Monday – Sunday in hours

Aktivities at home	Students 2012	Employed 2012/13
Sleeping	8,4	8,2
Body care	0,8	0,8
Meals	0,9	1,5
Employment/Jobs at home	0,1	0
Learning at home	1,5	0,2
Homework	0,7	2,4
Child care	0,2	0,3
Talking, including on phone	0,9	0,6
Reading	0,2	0,4
TV, Video	0,9	1,8
On the computer	0,4	0,4
Sports at home	0	0
Relaxing	0,4	0,3

Time budget of full-time employed and students 2012/13



Full-time employed according to Statistisches Bundesamt 2012/2013

103 Bachelor-Students of Social Work Nürnberg 2012

Mean of 7 days Monday – Sunday in hours

Aktivities outside home	Full-time employed 2012/13	Students 2012
Employment/jobs	4,9	0,9
Studies	0	2,9
Work- or study breaks	0	0,4
Commuting to work or to university	0,5	0,6
Other travel time	0,3	0,8
Shopping, errands	0,5	0,3
Visits	0,5	0,7
Sports	0,1	0,2
Hobbies	0,3	0,1
In pubs, cinema,		
At events	0,0	0,3
In clubs, organisations	0,1	0,1
Walking or excursions	0,2	0,4
Missing data	-0,3	page (3 79



Perceived time pressure 2012

How often do you perceive	Often/ always %	Often/ always %
		N = 103 students 2012
Under time pressure		60
Forced to multi-tasking		77
Difficult to sleep in the night		29
Time pressure leading to suffering in health		13



Thank you for your attention!

www.th-nuernberg.eu page 39