

Public/private funding of higher education

revisited

A new in-depth analysis for Germany

Hanover, 12 June 2025 Dr. Christoph Gwosć



Project background

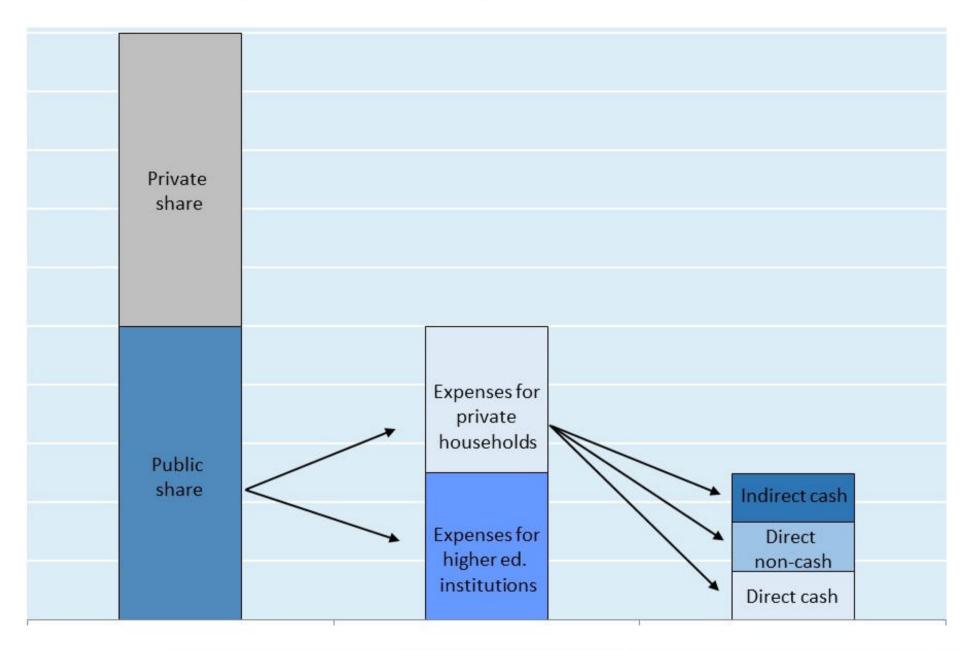
- Update of (partial) results of the EU project "Public/private funding of higher education: a social balance" from 2007/2008.
- Quantifying higher education funding (without research) and cost-sharing between the public and private sector in Germany as comprehensive as possible.



Design

- Theoretical frame: Analytical concept to capture cost-sharing in higher education by D.B. Johnstone (1986).
- Data: Mainly secondary data (e.g. from the Federal Statistical Office, various federal ministries, the Federal Employment Agency, student support organisations, etc.), partially special analyses from these data providers.
- Method: descriptive-statistical system analysis based on aggregate crosssectional data.

Analysis scheme for higher education funding





Public support for higher education in Germany 2023

Category	Amount in 1.000 Euro	Share of total in %	
Teaching allocations			
Total of teaching allocations	23,024,433	64.0	
Direct support (cash)			
BAföG grants	1,453,879	4.0	
Scholarships from various student support foundations (Studierendenförderungswerke)	233,338	0.6	
Germany scholarship (Deutschlandstipendium)	33,244	0.1	
Orphans' pensions from statutory pension insurance, statutory accident insurance and civil service social security funds	166,113	0.5	
General housing benefits	74,256	0.2	
Unemployment benefits (Arbeitslosengeld I)	2,813	0.01	
Subsidies on interest for <i>BAföG</i> loans (public loan)	99,118 0.3		
Intended cancellation of BAföG debt (public loan)	431,118	1.2	
Unintended default of <i>BAföG</i> loans (public loan)	66,891	0.2	
Total of direct support (cash)	2,560,770	7.1	

Category	Amount in 1,000 Euro	Share of total in %	
Direct support (non-cash)			
Benefits from non-contributory statutory health insurance	2,069,717	5.8	
Benefits from reduced contribution to statutory health insurance	736,491	2.0	
Benefits from non-contributory statutory long-term care insurance	472,416	1.3	
Benefits from reduced contribution to statutory long- term care insurance	97,820	0.3	
Subsidies for facilities	787,149	2.2	
Subsidies for transportation	203,452	0.6	
Total of direct support (non-cash)	4,367,045	12.1	
Indirect support (cash)			
Child benefits (parents working outside the civil service)	3,595,047 10.0		
Child benefits (parents working for the civil service)	725,302 2.0		
Family allowances (parents working for the civil service)	215,169	0.6	



Category	Amount in 1,000 Euro	Share of total in %	
Financial aid for children of civil servants and judges	319,416	0.9	
Child-related add-on to unemployment benefits (<i>Arbeitslosengeld</i>)	19,421	0.1	
Child-related add-on to short-time working benefits	2,044	0.001	
Child-related add-on to allowance for retirement provisions	101,288	0.3	
Tax exemption for dependent children according to § 32 EStG (<i>Kinderfreibeträge</i>)	171,226	0.5	
Tax reduction for single parents according § 24b EStG	89,414	0.2	
Tax exemption for children in education according to § 33a Abs. 1 EStG (Unterhaltsfreibetrag)	572,957	1.6	
Tax exemption for non-resident children in education according to § 33a Abs. 2 EStG (Sonderbedarfsfreibetrag)	89,000	0.2	

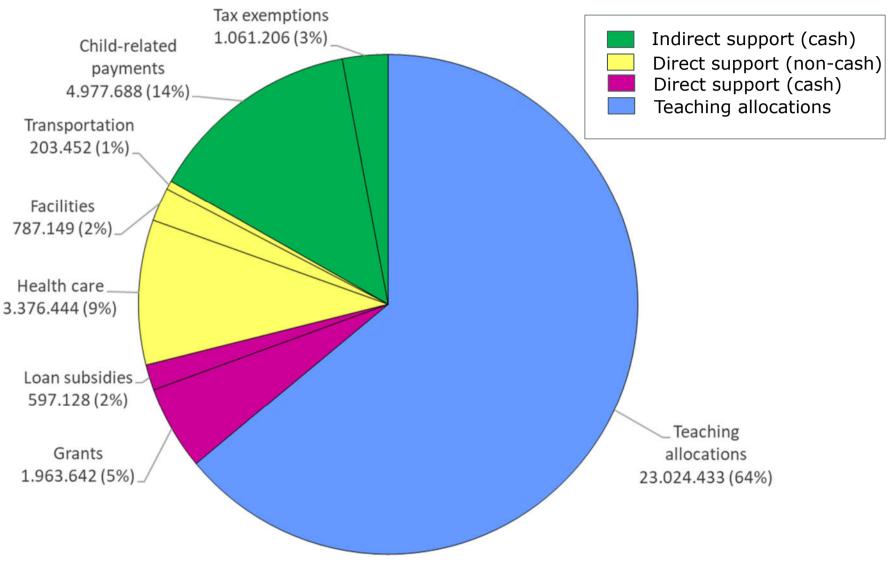


Category	Amount in 1,000 €	Share of total in %
Tax exemption for add-on taxes (church tax and solidarity surcharge)	138,609	0.4
Total of Indirect support (cash)	6,038,893	16.8
Indirect support (non-cash)	-	-
Total	35,991,142	100.0%

Source: Own calculation.

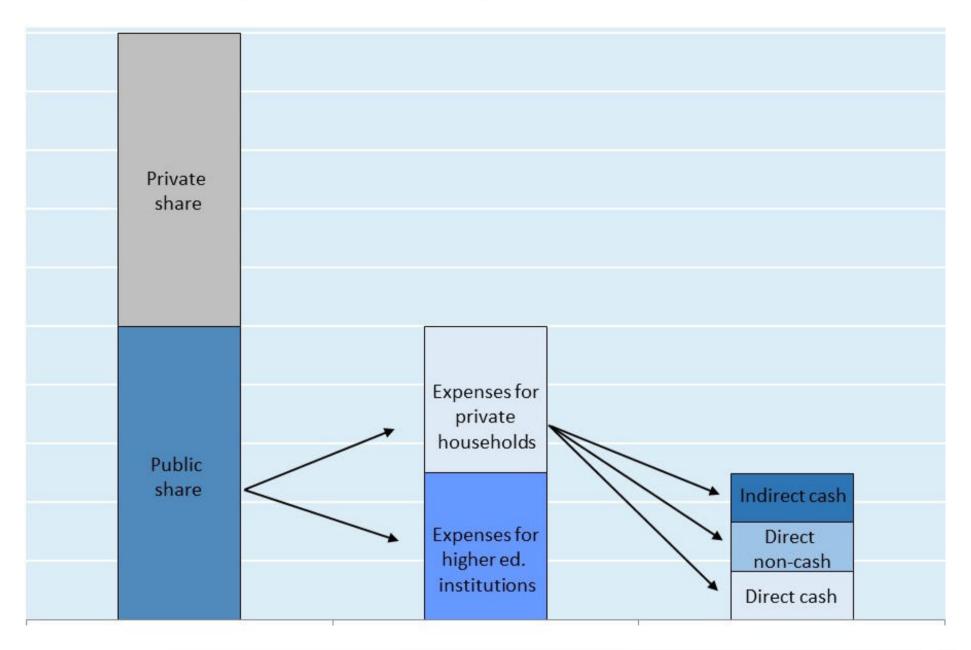
Public support for higher education in Germany 2023 (in 1,000 Euro and per cent)





Source: Own calculation.

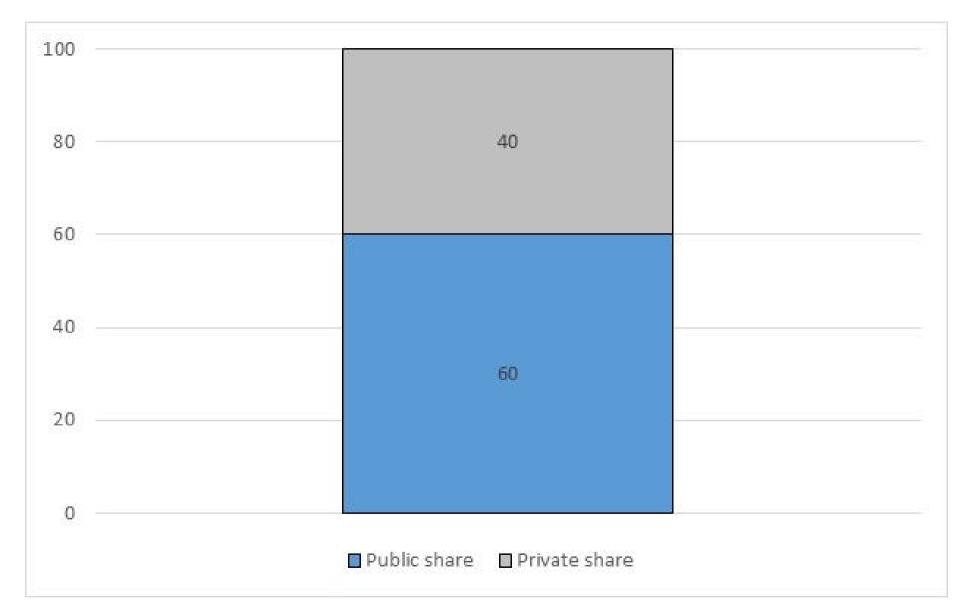
Analysis scheme for higher education funding





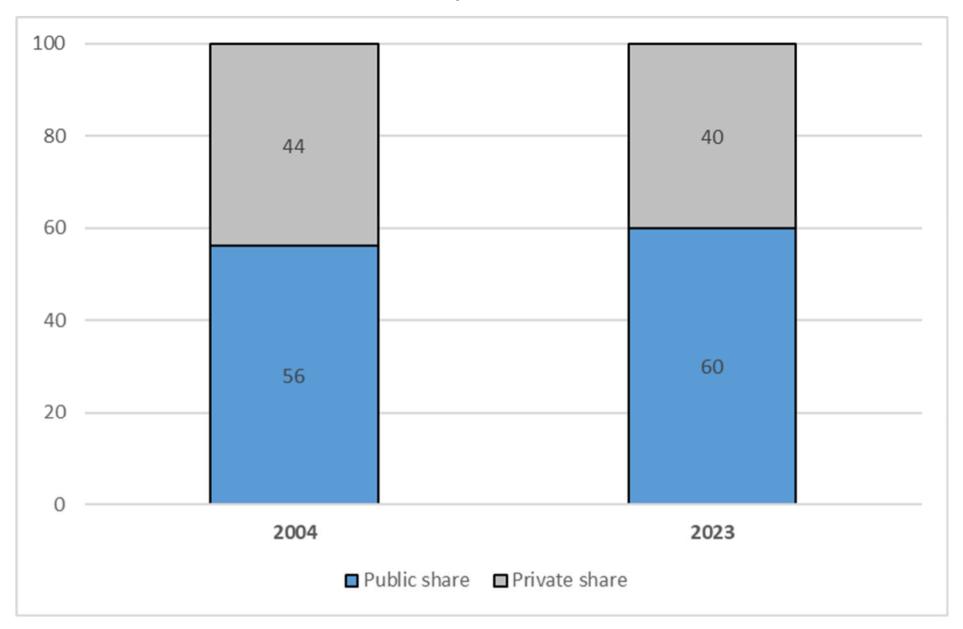
Structure of total expenditure on higher education 2023, shares in %

Total expenditure on higher education 2023: 59.8 billion Euro

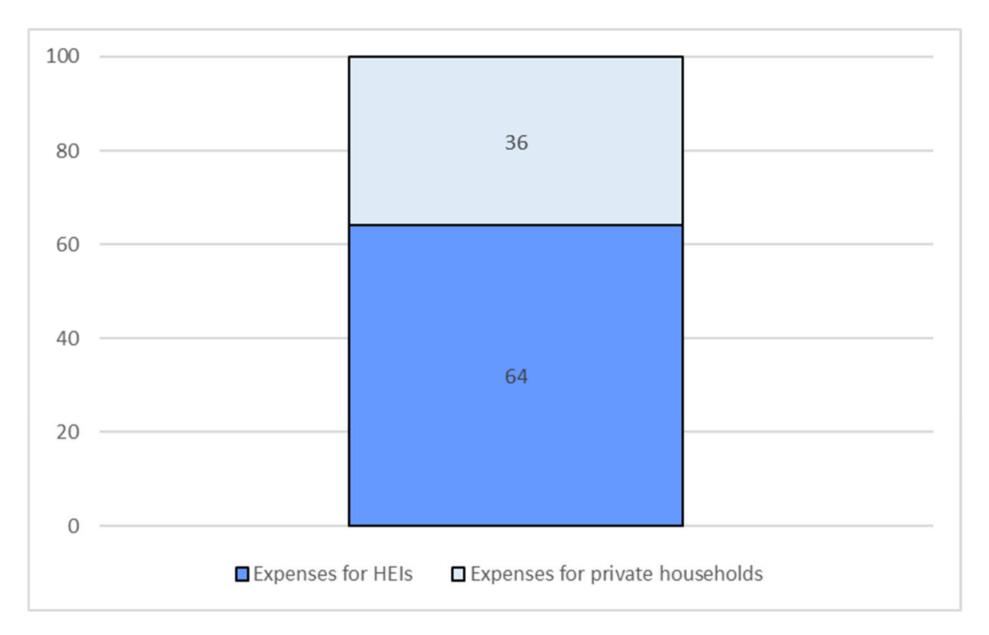




Time comparison: Structure of total expenditure on higher education, shares in %

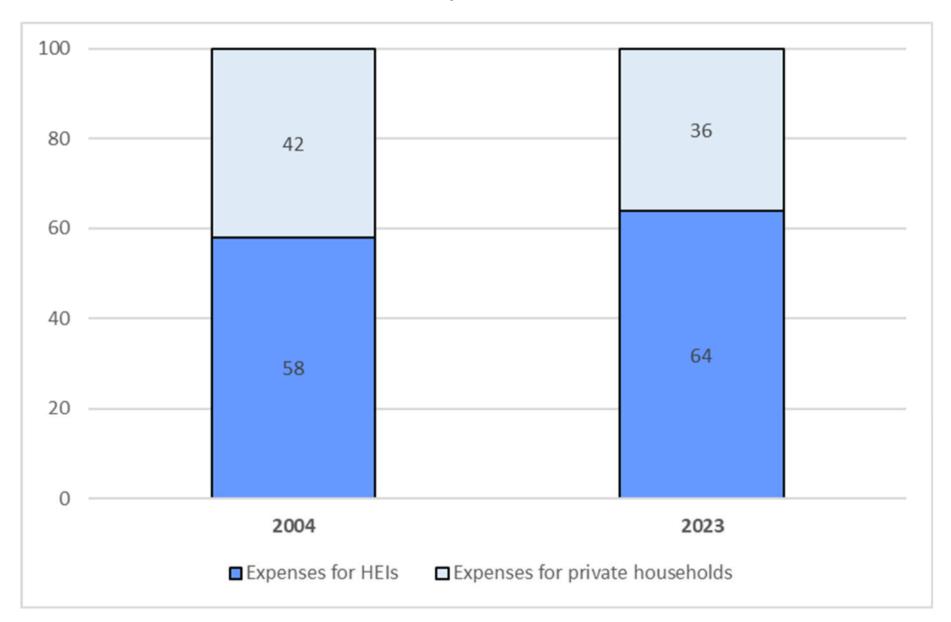


Structure of public support for higher education 2023, shares in %



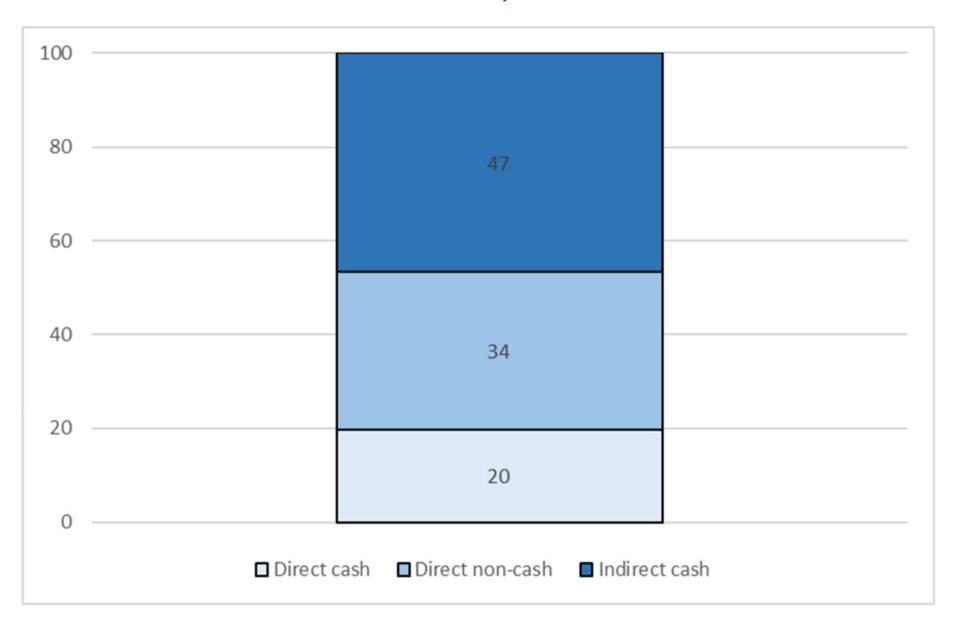


Time comparison: Structure of public support for higher education, shares in %



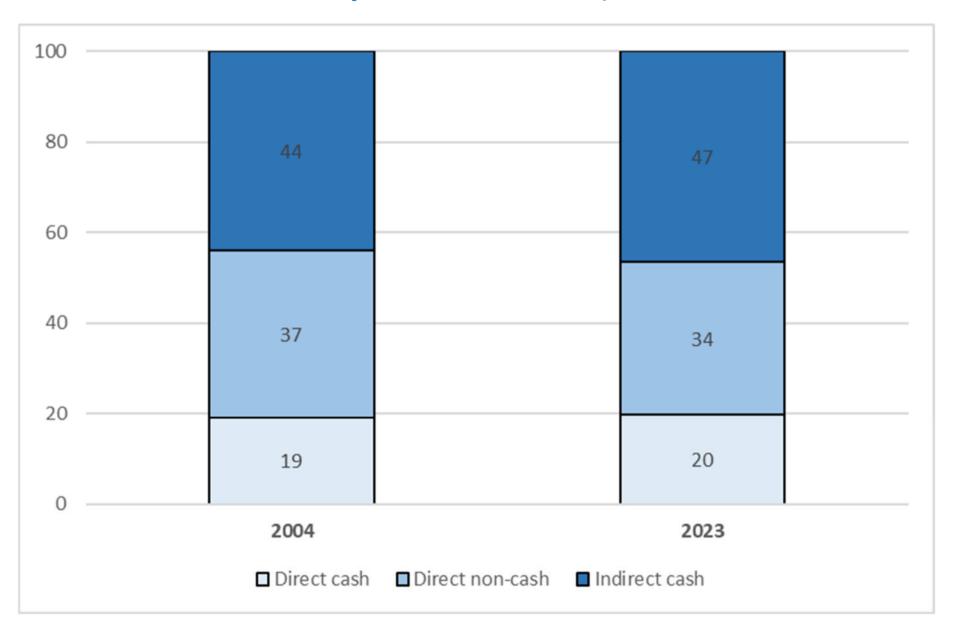


Structure of public support for higher education to private households 2023, shares in %





Time comparison: Structure of public support for higher education to private households, share in %



Summary

- In 2023, the public and private sector in Germany spent 59.8 billion Euro on higher education. This is an increase of 98% compared to 2004.
- The public sector accounted for 60% of total expenditure (+ 4 percentage points compared to 2004).
- 64% of public support was dedicated to HEIs, while the remainder (36%) went to private households. Thus, the institutional support increased by 6 percentage points.

Summary

- State support to private households were made up as follows:
 - 20% direct cash support to students (+ 1 percentage point),
 - 34% direct non-cash support to students (- 3 percentage points),
 - 47% indirect cash support to students' parents (+ 3 percentage points).

Summary

- In time comparison (2004 und 2023), the public sector has invested clearly more additional resources in higher education than the private sector.
- In doing so, the institutional support has increased more than personalised support.
- In terms of personalised public support, transfers in kind for students have increased the least (in percentage terms, they have even fallen).
- The in international comparison unusual high level of support for students' parents has increased further.



A few possible assessment criteria for higher education funding systems:

- Effectiveness
- Efficiency
- Transparency
- Steerability

Effectiveness

(here: Suitability of instruments to achieve sufficient funding of publicly supported students)

- The largest share in personalised public support is geared at students' parents.
- According to the last German Social Survey, nearly 83% of students reported to receive support from their parents/relatives (Kroher et al., 2023).
- → However, an effectiveness problem may arise, if students' parents do not want to support their studying children at all or less than the maintenance law provides for.

Effectiveness

(here: Suitability of instruments to achieve sufficient funding of HEIs)

- Since many years, there has been empirical evidence that HEIs in Germany are underfunded (e.g. Wissenschaftsrat, 2008; Berthold et al., 2007; HRK, 2006).
- The predecessor study (Schwarzenberger, 2008) has shown that in international comparison, Germany spent the lowest proportion of public funding on universities (as opposed to personalised public support).
- Recent inflation, wage increases, and spending cuts in the public sector are putting additional financial pressure on universities (e.g. Arnold & Maennig-Fortmann, 2023; Vallbracht, 2024; Warnecke, 2024).
- Effectiveness in *funding of HEIs* is rather not achieved (due to lack of resources, not fundamental inadequacy of instruments).



- Efficiency (e.g. reaching a given target by minimum use of resources)
 - The German higher education funding system is based on a very large number of support items from various sub-systems such as the tax system, all branches of the social security system, the public transport system, etc.
 - Requires extensive bureaucracy and numerous internal administrative coordination processes.
 - → Thus, administrative costs of the funding system may not be the lowest possible.

- Transparency
 - Needed for better political and administrative control.
 - Needed to give potential demanders of public support a better overview of what is available to them.
 - → Due to the complexity of the funding system and the difficulties to quantify all public support items, transparency is not achieved.

Steerability

- The predecessor study (Schwarzenberger, 2008) has already shown that in Germany, direct cash support to students and indirect support to students' parents contradict each other in terms of counteracting social disparities.
- → No clear steering effect with respect to the Social Dimension of higher education.

References

- Arnold, N., & Maennig-Fortmann, F. (2023). Hochschulen im internationalen Wettbewerb. Konrad Adenauer Stiftung, Nr. 517, Analysen und Argumente. Konrad-Adenauer-Stiftung e.V., Berlin.
- Berthold, C., Gabriel, G., & Ziegele, F. (2007). Aktivierende Hochschul-Finanzierung (AktiHF), Ein Konzept zur Beseitigung der Unterfinanzierung der deutschen Hochschulen. CHE Centrum für Hochschulentwicklung, Gütersloh.
- Hochschulrektorenkonferenz (HRK) (2006).Eckpunkte Hochschulpakt 2020. zum https://www.hrk.de/positionen/beschluss/detail/eckpunkte-zum-hochschulpakt-2020/
- Johnstone, D. B. (1986). Sharing the Costs of Higher Education. Student Financial Assistance in the United Kingdom, the Federal Republic of Germany, France, Sweden, and the United States. New York, NY: College Entrance Examination Board.
- Kroher, M., Beuße, M., Isleib, S., Becker, K., Ehrhardt, M.-C., Gerdes, F., Koopmann, J., Schommer, T., Schwabe, U., Steinkühler, J., Völk, D., Peter, F., Buchholz, S. (2023). Die Studierendenbefragung in Deutschland: 22. Sozialerhebung, Die wirtschaftliche und soziale Lage der Studierenden in Deutschland 2021. Bundesministerium für Bildung und Forschung (BMBF), Berlin.



References

- Schwarzenberger, A. (2008). Overall analysis, in: Schwarzenberger, A. (Ed.) (2008), Public/private funding of higher education: a social balance, HIS: Forum Hochschule 5|2008, S. 128-146. HIS Hochschul-Informations-System GmbH, Hannover.
- Vallbracht, C. 2024. Geldnot an Hochschulen führt zu Entfall von Stellen. Forschung & Lehre https://www.forschung-und-lehre.de/politik/geldnot-an-hochschulen-fuehrt-zu-entfall-von-stellen-6259
- Warnecke, T. (2024). Millionendefizit: Humboldt-Universität Berlin könnte bis 2030 rund 20 Professuren streichen. Online. Der Tagesspiegel https://www.tagesspiegel.de/wissen/millionendefizit-prognostiziert-hu-berlin-will-bis-2030-rund-20-professuren-streichen-11202787.html
- Wissenschaftsrat (2008). Empfehlungen zur Qualitätsverbesserung von Lehre und Studium. http://www.wissenschaftsrat.de/texte/8639-08.pdf

Contact

Dr. Christoph Gwosć

German Centre for Higher Education and Science Studies Research Area 3 Governance in Higher Education and Science Lange Laube 12 30159 Hanover

Phone: 0511-450 670 366

Fax: 0511-450 670 960

E-Mail: gwosc@dzhw.eu

Different forms of public subsidies by students' social background and living situation (in Euro for the year 2006; rounding differences may occur)

	Student living at home			Student not living at home				
Support	Low SES	Lower medium SES	Higher medium SES	High SES	Low SES	Lower medium SES	Higher medium SES	High SES
Grants	793	427	265	132	1,735	1,154	689	337
Loan subsidy	94	55	33	13	203	142	81	35
Indirect support (excl. child benefit)	0	264	251	597	0	572	571	982
Child benefit	1,848	1,848	1,848	1,848	1,848	1,848	1,848	1,848
Health care subsidy	1,512	1,512	1,512	1,512	1,512	1,512	1,512	1,512
Subsidy for facilities and transportation	422	422	422	422	422	422	422	422
Total	4,669	4,527	4,330	4,523	5,720	5,650	5,122	5,135

