

Publications and Lectures - Prof. Dr Christoph Walther

- Walther, C.: “Mobility transition – how can this succeed?”, lecture at the annual conference “Recht, Technik und Gesellschaft” of the City of Karlsruhe, October 2023
- Walther, C.: “Rail (infrastructure) investment – the socio-economic perspective”, lecture at the international Rail Summit “The Green Deal”, Frankfurt/Main, October 2023
- Walther, C.: “Emerging methods, practices, and guidelines for determining the economic and social contributions of road transport systems”, report on the results of Technical Committee 1.2 “Road transport planning for economic and social development” at the 27th World Road Congress, Prag, October 2023
- Doll, C., Kesselring, S., Walther, C.: “Social change as a chance for the mobility transformation“, in: Zukunft der Mobilitätswirtschaft – Empfehlungen der Mobilitätsforschung, published by: Automotive industry’s strategic dialogue in Baden-Wuerttemberg, 2022
- <https://mwk.baden-wuerttemberg.de/de/forschung/strategiedialog-automobilwirtschaft/forschungs-und-innovationsumfeld/>
- Walther, C.: “Strategies for the modernization of bridges in partial networks – optimization of the construction sequence”, lecture at the seminar: Bridges in focus, Ingenieur-Akademie West, Düsseldorf, December 2022
- Walther, C.: “Integrated consideration of environmental/climate-targets and infrastructure projects”, lecture as expert for the enquête-commission “Future Mobility for the Land Hessen” of the Federal State Parliament, Wiesbaden, December 2022
- Walther, C.: „A transition towards sustainability“, lecture at the “Energy Masters and Alums Conference”, Technical University, Berlin, September 2022
- Walther, C.: Editorial to „Marginal travel time savings in BCA for projects in the transport sector“ by Andy Obermeyer, in: Zeitschrift für Verkehrswissenschaft, Vol. 2, 2021, pp. 81-87
- Kindl, A., Stadler, A., Walther, C.: Modernisation and reconstruction of civil engineering structures: integration of socio-economic impacts into strategic planning in: reports of Federal Highway Research Institute (BAST), series: Brücken- und Ingenieurbau, Vol. B157: „9. BAST-Tunnelsymposium“, 2021
- Niemeier, E., Walther, C.: Reliability in transport systems – what do we really know? Paper for the 26th World Road Congress, Abu Dhabi, 2019
- Walther, C.; “The role of BCA for the German Federal Transport Infrastructure Plan 2030”, annual meeting of the American Society for Benefit Cost Analysis, 2018, Washington
- Dahl, A., Fléchon, C., Sukennik, P., Walther, C.: Microscopic simulation and impact assessment of the coexistence of automated and conventional vehicles in European cities: Paper for the European Transport Conference 2018
- Walther, C. et al.: “Contribution to the discussion of project appraisal: the German FTIP 2030 case”: Journal of Applied Business and Economics, Volume 20(8), 2018, pp. 120-132)

- Walther, C.: "Digitalizing mobility – new opportunities for the cooperation between car sharing and public transport", keynote for the Annual Scientific Conference of the German society for car sharing 2018, Münster
- Dahl, A., Walther, C., Waßmuth, D.: "Contribution to the European discussion on project appraisal – the German FTIP 2030 case", presentation at the European Transport Conference 2017, Barcelona
- Walther, C.: "What does practitioners expect from graduates from faculties of engineering?", annual meeting of German faculties of civil engineering, environmental engineering, and geodesy 2017, Weimar.
- Walther, C.: "New Requirements, problem formulations and approaches in the maintenance planning for transport infrastructures", Heureka-Conference 2017, Stuttgart
- Dahl, A., Mann, H.-U., Meunier D., Quinet E., Stadler, A., Walther, C.: "Dynamic aspects of project appraisal and investment planning in the transport sector", presentation at the hEART Conference 2016, Delft
- Dahl, A., Le Maître H., Meunier, D., Walther, C., Worsley T.: "Evolutions of the reference values used in transport CBA – National Guidelines of 3 countries and what they reveal", presentation at the European Transport Conference 2015, Frankfurt/Main
- Dahl, A., Meunier, D., Quinet, E., Walther, C.: "New trends in cost-benefit assessment of public investments in France and Germany", presentation at the hEART Conference 2015, Copenhagen
- Walther, C.: The new Federal Transport Infrastructure Plan 2015 - Basic concept and status quo report of the external technical coordinator for the Federal Ministry of Transport and Digital Infrastructure, presentation to the joint committee of the Rhine-Neckar Regional Association and the Middle Upper Rhine Regional Association 2015, Speyer
- Walther, C.: "Navigation and Travel Planning in the Context of eMobility" - Event Series "Technology in Change" of the Karlsruhe Economic Development Agency in cooperation with the Southwest Excellence Cluster 2015, Karlsruhe
- Walther, C.: "Federal Transport Infrastructure Planning 2015 - Part: Cost-Benefit Analysis", presentation at the Department of Traffic Planning and Transport Systems at the University of Kassel, 2015
- Walther, C.: "Traffic forecasts 2015 and 2030 - performance, dependencies and problems", lecture for the Friedrich-Ebert-Stiftung 2014, Berlin
- Walther, C.: "Unreliability measures and their transferability to urban and regional traffic", lecture at the Road Traffic Congress 2014, Stuttgart, published in: Road Traffic Engineering 12/2015
- Haßsheider, H., Monse, J. and Walther, C.: "Revision of project evaluation as part of the German federal transport infrastructure plan", presentation at the European Transport Conference 2014, Frankfurt am Main, published in „Transportation Research Procedia” (2015), pages 41-49, DOI information: 10.1016/j.trpro.2015.06.040, <http://www.sciencedirect.com/science/article/pii/S2352146515001167>

- Walther, C.: "Opportunity and cost efficiency of security measures“, presentation at the Security Task Force Meeting of PIARC „Security of road infrastructure – a cost or an opportunity“ 2014, London
- Walther, C.: "On the way to assessing “non-infrastructure” measures in road construction - the cost-benefit analysis for traffic control systems“, lecture at the SETAC Symposium 2014 "Economic feasibility studies in road and transport systems" 2014, Aachen
- Monse, J. and Walther, C.: "Methodology of the Federal Transport Infrastructure Plan 2015 - further development of a complex decision-making process", dialogue presentation at HEUREKA 2014, Stuttgart and contribution to the conference proceedings
- Stadler, A. and Walther, C.: "Strategies for project selection with limited budgets", lecture at the Transport Science Days of the TU Dresden 2014 and contribution to the conference proceedings
- Walther C. et al.: "Impacts on transport systems by bridge or tunnel failures, demonstrated by an incident on the motorway-A57 bridge near Dormagen", lecture at the Tunnel Symposium of the Federal Highway Research Institute (BASt) 2013
- Dahl, A., Walther, C. et al.: “Security for Bridges and Tunnels – a strategy for selecting protective measures”, presentation at the Future Security 2013, Berlin and contribution to the conference proceedings, pages 375-383
- Haßheider, H., Walther, C.: "New accents in federal transport infrastructure planning", in: DVWG annual volume 2011/2012 "The perspective of mobility – challenges of the demographic change" 2012, Berlin, pages 56-60
- Walther, C.: "New accents in federal transport infrastructure planning", lecture at the Annual Conference 2012 of the German Transport Science Association (DVWG) 2012, Karlsruhe
- Dahl, A., Walther, C.: "Identification of critical bridges and tunnels following transport indicators", lecture at the 7th European Congress on Civil Protection 2011, Bonn
- The project MOSAIQUE: Central German offensive for a strategic, cross-application, intermodal transport management network with quality and efficiency orientation", lecture at the Zurich Transport Management Platform 2011, Winterthur
- “Ensuring services of general interest in areas with low demand”, lecture at the forum "Quality of life through spatial proximity" of Baden-Württemberg's partner regions in the LEADER region Northern Black Forest, 2010 Seewald
- Walther, C.: "Areas of application for decision-making procedures in transport planning", Lecture at the Road and Transport Congress 2010 of the Road and Transportation Research Association (FGSV), 2010, Mannheim; and contribution to: Road Traffic Engineering 1/2011, pages 25-31
- FGSV (Ed.): " Notes on areas of application for decision-making procedures in transport planning"; Reference paper, FGSV Verlag 2010, Cologne
- Walther, C., Waßmuth, V. et al.: „Improving methods for forecasting traffic volumes as assessment basis for road capacity design“, issue 1023 of the BMVBS publication series "Forschung Straßenbau und Straßenverkehrstechnik", Wirtschaftsverlag NW - Verlag für neue Wissenschaft GmbH, 2009, ISBN 978-3-86509-939-6

- Walther, C.: "Traffic analyses and forecasts: science or a question of trust? ", Lecture at the conference "Vertrauen in die Verkehrsplanung?" of the Austrian Research Society Road - Rail – Transport (FSV), incl. contribution to the conference proceedings 2009, Rust (A)
- Furmans, K., Walther, C. et al.: "LogoTakt - Realisation of robust clocked traffic in intermodal transport networks", lecture at the 22nd Transport Science Days 2009, Dresden
- Walther, C.: "Decision-making procedures in transport planning", in: Festschrift "100 Jahre Max-Erich Feuchtinger und Bruno Wehner", pages 369-377, FGSV-Verlag GmbH 2009, Cologne
- Walther, C.: "Decision-making in the context of sustainable transport planning", lecture at "Planning, building, designing, communicating in the 21st century" - Conference on inter- and transdisciplinary research at the Bauhaus University 2009, Weimar
- Walther, C.: "Cost-benefit analysis for bicycle infrastructure measures", lecture at the 1st National Cycling Congress of the Federal Ministry of Transport, Building and Urban Affairs 2009, Berlin
- Kindl, A. und Walther, C.: "Costs of urban transport", in: "Urban mobility - federal transport research for municipal practice". Published by the Federal Ministry of Transport, Building and Urban Affairs, in the publication series "direkt", No. 65/2009, "Improvement of traffic conditions in municipalities" 2009, pages 121-138
- Walther, C.; Schäfer, T.: "When does the investment in cycling pay off? Cost-benefit analysis for evaluating the efficiency of cycling measures", in: mobi-logisch 4/2008
- Walther, C.: "Development of a tailored evaluation methodology for the "Traffic Management and Mobility Master Plan of the City of Munich", lecture and expert contributions to the workshop of the City of Munich, 2008
- Walther, C.: "Approaches for a macro-economic evaluation of Galileo and GNSS-based applications", lecture at the Navigation Days 2008 of the German Society for Positioning and Navigation (DGON) 2008, Bonn
- Walther, C.: "Mobility concepts to secure services of general interest in areas with low demand", lecture at the 2nd Demography Congress "Best Age - Shaping Change" 2007, Berlin
- Burg, R., Röhling W., Walther, C., Waßmuth, V.: "A new approach to assess road and rail measures – the integrated masterplan for North-Rhine-Westphalia"; in: Proceedings of 3rd International Symposium "Network for Mobility (FOVUS)" 2006, Stuttgart
- Walther, C., Waßmuth, V.: "Integrated traffic development planning for North Rhine-Westphalia", lecture at the 7th Aachen Colloquium Mobility and City (AMUS 2006); incl. contribution to the conference proceedings
- Thöne, M., Walther, C. et al., "Growth effects of transport (infrastructure) investments", Reports of the Financial Research Institute at the University of Cologne, Volume 7, 2006, ISSN 1860-6679
- Brannolte, U., Walther, C: Contributions to "Impacts of traffic and transport", in Steierwald / Kühne / Vogt (ed.) "Stadtverkehrsplanung", Springer Verlag, Berlin, 2nd edition, 2005

- Walther, C.: „If the neighbour drives cheaply: reflections and approaches to subject promotion in public transport systems“, lecture at the conference "Finanzierungsmöglichkeiten und Perspektiven des ÖPNV im ländlichen Raum, in Klein- und Mittelstädten" of Wuppertal Institute 2005, Berlin
- Kindl, A., Walther, C.: "A checklist for the invitation to tender for demand responsive transport services", lecture at the FIV symposium "Flexibilization in public transport", 2004, Darmstadt.
- Walther, C.: "Private trips by public transport: Limits to financial viability of public transport services", in: Kargermeier, A. (ed.), Transport System and Mobility Management in Rural Areas, Studies on Mobility and Transport Research, Volume 10, 2004, Mannheim, pages 331-341
- Stadler, A., Nökel, K., Walther, C.: "Short- and medium-term optimisation of measures for bridge maintenance", in: proceedings of the 2nd European Pavement Management System Conference 2004, Berlin
- Schäfer, T., Walther, C.: "Evaluating sustainability of event traffic", in: Dienel, H.-L., Schmithals, J. (ed.), Event traffic handbook - planning, design, working aids, pages 146-157, Erich Schmidt Verlag 2004, Berlin
- Sieber, N., Walther, C.: "Financial viability of demand responsive transport services", in: Internationales Verkehrswesen 9/2002, pages 434-435
- Walther, C.: "Special features of a traffic forecast for operator models", in: Proceedings of the 1st Symposium "Business Management for Civil Engineering" at the Bauhaus-University Weimar: "Development, Construction, Financing and Operation of Road Transport Infrastructure in Partnership between Public and Private Sector", 3/2001
- Walther, C.: "Speeds and pollutant emissions of motorised road traffic in urban networks based on the EMS calculation regulations", in: Straßenverkehrstechnik 1/2000, pages 19-25
- Walther, C.: "Evaluation of pollutant emissions from motorised road traffic", in: Proceedings of the FGSV-Symposium "Kosten und Nutzen des Verkehrs - Neuere Entwicklungen der gesamtwirtschaftlichen Bewertung", FGSV-Verlag, Berlin, 1999, Pag. 65-73
- Cerwenka, P., Dischinger, N., Klamer, M. und Walther, C.: "Application-oriented determination of fuel consumption and pollutant emissions from motor vehicle traffic in Germany for the new version of RAS-W (EWS)", in: Straßenverkehrstechnik 1/1997, pages 17-25