

Wolfgang Scherr



Gartenstrasse 15,
4123 Allschwil, Switzerland

wolfgang.scherr@moventes.net

+41 79 944 9563

linkedin.com/in/wolgangscherr



▼ Summary

- 30 years of international experience in transport planning for road, rail, bus, air
- Successful as consultant, project manager, team leader and coach/trainer
- Areas of expertise: passenger demand forecasting; development of transport simulation models; long- and mid-range planning of networks and service schedules; innovation and technology transfer

▼ Experience

02/2021 – present

Owner and Principal Consultant • MOVENTES • Bern, Switzerland • www.moventes.net

- Provide consulting services in the fields of traffic simulation and transportation planning, helping governments and the transport industry to apply innovative technology for future transport services (see also www.moventes.net/de/references)

04/2017 – 01/2022

Product Owner Agent-Based Simulation • SBB • Bern, Switzerland • www.sbb.ch

- As project manager, led development and calibration of SBB's agent-based travel simulation model of Switzerland (8.5 million); established know-how in multimodal planning; built a functional team.
- Led the customization of software components to SBB's requirements: 1) PTV Visum's ABM module, 2) the open-source software MATSim; both being used for the first time in real-world transport planning.
- As product owner, managed development priorities and application of the model which today supports management decisions across the corporation; steered research collaboration and technology transfer.

09/2013 – 03/2017

Senior Transportation Planner • SBB • Bern, Switzerland • www.sbb.ch

- As expert for ridership forecasting, contributed to rail planning and the improvement of existing travel models, with an emphasis on international demand, emerging competition, and disruptive effects.

08/2011 – 07/2013

Practice Leader Traffic Simulation • citec • Genève, Switzerland • www.citec.ch

- As practice leader of travel forecasting and traffic simulation, trained and guided junior staff, conducted business development, advanced tools and methodology, and managed consulting projects.

01/2010 – 06/2011

Senior Transportation Engineer • DVRPC • Philadelphia, PA, USA • www.dvrpc.org

- Developed a new regional travel forecasting model for the Philadelphia region (5.5 million) and guided its migration to the PTV Visum software; consulting in pedestrian and bus rapid transit (BRT) projects.

02/2001 – 11/2009

Principal Consultant / Vice President • PTV America Inc. • Wilmington, DE, USA • www.ptvgroup.com

- Started the PTV office on the East Coast; built, trained and directed a team of seven; acquired and managed numerous consulting projects in the areas of travel demand forecasting, public transport planning, and microscopic traffic simulation.
- Successfully launched the transport planning software PTV Visum on the North American market. Developed the consulting practice in travel forecasting and in public transportation planning.

05/2000 – 01/2001

Technical Officer Network Planning • Lufthansa • Frankfurt, Germany • www.lufthansa.com

- Planning and forecasting of national and international air passenger flows

12/1993 – 03/2000

Senior Consultant • PTV • Karlsruhe, Germany • www.ptvgroup.com

- As project manager, developed turn-key macroscopic transport models; delivered travel demand forecasts; conducted mobility data analysis and choice modeling; trained software users of PTV Visum.

▼ Education

10/1987 – 09/1993

Diplom-Wirtschaftsingenieur (M.Sc. Industrial Engineering) • **KIT** • Karlsruhe, Germany

09/1976 – 05/1985

Abitur • **Albertus-Magnus-Gymnasium** • Regensburg, Germany

Since 2008

Certified Trainer • PTV Visum software

▼ Languages

German (native language) • **English** (fluent, C2) • **French** (fluent, C1) • **Italian** (advanced, B2)

▼ Voluntary professional contribution

- **AET** (Association for European Transport) • member of the program commission (transport models) for the European Transport Conference, since 2021.
 - **SVI** (Swiss Transportation Engineers) • member of the research commission, 2013-2018 • monitoring and advisory of research projects, ongoing.
 - **EAABM** (European Association for Activity-Based Models) • member of the application committee
 - Guest lectures in academic education • ETH, Zürich • HEIG, Yverdon • University of Delaware
-

▼ Selected publications (see also www.moventes.net/publications)

- M. Kampp, Sedelmeier, J., W. Scherr, J. Schlaich et al. (2025): Design of a European high-speed rail network and use of passenger demand forecasting to test European policy targets. *Eur. Transp. Res. Rev.* 17, 23 (2025). doi.org/10.1186/s12544-025-00715-y.
 - Scherr, W. (2023): Planning of Effective Rail Service - International Cases. Presentation, PTV Rail Summit, Frankfurt.
 - Scherr, W., Joshi, C., Manser, P., Frischknecht, N., Métrailler, D. (2020): Towards agent-based travel demand simulation across all mobility choices – the role of balancing preferences and constraints. *European Journal of Transport and Infrastructure Research (EJTIR)*, 20(4), p. 152-172, doi.org/10.18757/ejtir.2020.20.4.4463.
 - Scherr, W., Bützberger, P., Manser, P. (2020): SIMBA MOBI: Microscopic Mobility Simulation for Corporate Planning. *Transportation Research Procedia* 49, p. 30-43, doi.org/10.1016/j.trpro.2020.09.004.
 - Scherr, W., Bischoff, J., Bützberger, P. (2020): Application of agent-based simulation to support real-world business cases in public transport and intermodal service planning. Presentation, European Transport Conference, Milano.
 - Scherr, W., Joshi, C., Manser, P., Frischknecht, N., Métrailler, D. (2019): An Activity-based Travel Demand Model of Switzerland Based on Choices and Constraints. Paper, hEART Conference, Budapest, Hungary.
 - Scherr, W. (2018): An Innovative Transport Model Architecture Aiming at Forecasting a Passenger Railway's Future. Presentation, TRB Innovations in Travel Modeling Conference, Atlanta, GA.
 - Scherr, W., Manser, P. (2018): Using MATSim as a Railway Corporation. Presentation, MATSim User Meeting, Atlanta, GA.
 - Scherr, W., Bützberger, P. (2016): Calibration of the Swiss Rail Model Using Longitudinal Demand Observation. Paper, Swiss Transport Research Conference, Ascona, Switzerland.
 - Scherr, W., Saubion, B. (2012): MM06 – Modèle Multimodal des Alpes Maritimes. Presentation, Club d'utilisateurs PTV Vision, Strasbourg, France.
 - Puchalsky, C., Joshi, D., Scherr, W. (2012): Development of a Regional Forecasting Model Based on Google Transit Feed. Paper, TRB Annual Meeting, Washington, DC.
 - Fisher, I., Scherr, W. (2009): Regional Application of 24-Hour Dynamic Transit Assignment. Paper, TRB Planning Applications Conference, Houston, TX.
 - Boyce, D., O'Neill, C., Scherr, W. (2008): Solving the Sequential Travel Forecasting Procedure with Feedback. *Transportation Research Record: Journal of TRB*, No. 2077, National Academies, Washington, D.C, p. 129-135.
 - Rousseau, G., Scherr, W., Xiong, C., Yuan, F. (2007): Linking Atlanta's Regional Transportation Planning Model with Microscopic Traffic Simulation. Paper, North-American Regional Science Conference, Savannah, GA.
 - Fisher, I., Scherr, W. (2007): Optimizing Transit Operations in Vancouver, B.C.: TransLink's Rapid Transit Model. Paper, TRB Planning Applications Conference, Daytona Beach, FL.
 - Barbier-St.-Hilaire, F., Friedrich, M., Hofsäß, I., Scherr, W. (2000): Advanced Modelling of Road Toll Schemes – a Bicriterion Approach for Equilibrium Assignment. *Traffic Engineering + Control*, 4/2000, London, U.K, p. 154-159.
 - Scherr, W., Dupoux, F., Morel, P. (1999): Prévission multimodale des déplacements par un modèle d'activités. Application au PDU de l'agglomération grenobloise. *TEC (Transport-Environnement-Circulation)*, 156, Paris, p. 2-11.
 - Fellendorf, M., Haupt, T., Heidl, U., Scherr, W. (1997): PTV Vision: Activity-Based Demand Forecasting in Daily Practice. In: Ettema, Timmermans (Ed.): *Activity-Based Approaches to Travel Analysis*, Oxford, p. 55-72.
-

▼ References available on request