

## Selected projects and publications by IVU Umwelt staff in English

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Diegmann, V.; Wursthorn, H.; Breitenbach, Y.; Düring, I.; Schönharting, J.; Kraus, Th.; Klemm, P.; Voigt, R.; Kohlen, R.; Löhner H. (2020): Dynamic environmentally sensitive traffic management. Reports of the German Federal Highway Research Institute (BASt), Issue V 321. ISBN: 978-3-95606-481-4.

IVU Umwelt (2019): Urban NO<sub>2</sub> and PM<sub>10</sub> concentrations: first steps towards the development of a model based and area related assessment strategy. Published as UBA-Texte 38/2019. In cooperation with Dr. Rainer Stern, Berlin und Dr. Eberhard Reimer, Berlin. Contracting authority: German Federal Environment Agency (UBA). 2019.

Pfäfflin, F.; Diegmann, V.; Neunhäuserer, L. (2019): Improving large-scale NO<sub>2</sub> exposure assessment by integrating air quality data for street canyons. HARMO 19. Proceedings of the 19th International Conference on Harmonisation within Atmospheric Dispersion Modelling for Regulatory Purposes. 3-6.6.2019 in Bruges, Belgium. 2019.

Pisoni, E.; Guerreiro, C.; Lopez-Aparicio, S.; Guevara, M.; Tarrason, L.; Janssen, S.; Thunis, P.; Pfäfflin, F.; Piersanti, A.; Briganti, G.; Cappelletti, A.; D'Elia, I.; Mircea, M.; Villani, M.G.; Vitali, L.; Matavž, L.; Rus, M.; Žabkar, R.; Kauhaniemi, M.; Karpinen, A.; Kousa, A.; Väkevä, O.; Eneroth, K.; Stortini, M.; Delaney, K.; Struzewskam, J.; Durka, P.; Kaminski, J.W.; Krmpotic, S.; Vidic, S.; Belavic, M.; Brzoja, D.; Milic, V.; Assimakopoulos, V.D.; Fameli, K.M.; Polimerova, T.; Stoyneva, E.; Hristova, Y.; Sokolovski, E.; Cuvelier, C. (2019): Supporting the improvement of air quality management practices: The "FAIRMODE pilot" activity. Journal of Environmental Management 235 S. 122-130. 2019.

Neunhäuserer, L.; Diegmann, V.; Breitenbach, Y.; Pfäfflin, F.; Nordmann, S. (2019): Improvement of the predictive quality of CAMS forecasts for ozone and PM<sub>10</sub>. HARMO 19. Proceedings of the 19th International Conference on Harmonisation within Atmospheric Dispersion Modelling for Regulatory Purposes. 3-6.6.2019 in Bruges, Belgium. 2019.

Development of methods to calculate particulate emissions from quarrying and mining of minerals other than coal. In cooperation with Centre Interprofessionnel Technique d'Etudes de la Pollution Atmosphérique (CITEPA), Paris. On behalf of the German Environment Agency (UBA). 2018.

IVU Umwelt (2018): Effects of a decentralised energy supply by means of combined heat and power plants on air quality in urban agglomerations. Contracting authority: German Federal Environment Agency (UBA). 2018.

IVU Umwelt (2018): Quantification of environmental burden of disease due to nitrogen dioxide exposure in Germany. In cooperation with Helmholtz Zentrum München - German Research Center for Environmental Health. Contracting authority: German Federal Environment Agency (UBA). 2018.

IVU Umwelt (2018): Securing the ozone forecast. Contracting authority: German Federal Environment Agency (UBA). 2018.

Pfäfflin, F. (2018): FAIRMODE Pilot Exercise - Hessen state. FAIRMODE 2018 plenary meeting. 26-27.2.2018 in Baveno, Italy. 2018.

Pfäfflin, F. (2017): Assessment of local air quality measures in Germany. TFIAM/FAIRMODE-Workshop 'On modelling urban and regional measures for improved air quality', 15-16.2.2017 in Utrecht, The Netherlands. 2017.

Pfäfflin, F.; Diegmann, V.; Nordmann, S. (2017): From CTM model results to local exposure: first steps. HARMO 18. Proceedings of the 18th International Conference on Harmonisation within Atmospheric Dispersion Modelling for Regulatory Purposes. 9-12 October 2017 in Bologna, Italy. 2017.

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IVU Umwelt (2017): Urban NO<sub>2</sub> and PM<sub>10</sub> concentrations: first steps towards the development of a model based and area related assessment strategy. In cooperation with Dr. Rainer Stern, Berlin und Dr. Eberhard Reimer, Berlin. Contracting authority: German Federal Environment Agency (UBA). 2017.

IVU Umwelt (2016): Quantification of population-weighted PM<sub>10</sub> exposure related to road traffic for the model region Berlin-Brandenburg. Pilot study. Published as Umwelt & Gesundheit 04/2016. Contracting authority: German Federal Environment Agency (UBA). 2016.

Kraus, U.; Schneider, A.; Breitner, S.; Cyrys, J.; Kallweit, D.; Plass, D.; Tobollik, M.; Wintermeyer, D.; Diegmann, V.; Neunhäuserer, L.; Forastiere, F.; Peters, A. (2016): Nitrogen dioxide: population-weighted exposure assess-

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ment and quantification of environmental burden of disease in Germany. In: Abstracts of the 2016 Conference of the International Society of Environmental Epidemiology (ISEE), 1.-4.9.2016 in Rome, Italy. 2016.

Pfäfflin, F. (2016): Modelling air pollutant concentration levels. International Transportation, Volume 68, Issue Special Edition 1: Smarter on the move - Green transport and digital mobility 2016.

GPSM (2015): Consulting in Sustainable Mobility - Made in Germany. German Partnership for Sustainable Mobility (GPSM), supported by GIZ, on behalf of Federal Ministry for Economic Cooperation and Development (BMZ) and Federal Ministry for the Environment; Nature Conservation, Building and Nuclear Safety (BMUB). 2015.

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IVU Umwelt (2014): Analysis of effects of traffic related measures on air quality in Darmstadt. Contracting authority: Hessian Ministry for Environment, Energy, Agriculture and Consumer Protection. Published by the contracting authority. 2014.

IVU Umwelt (2014): Assessment of measures to reduce PM<sub>10</sub> concentrations in Würzburg. Contracting authority: City of Würzburg. 2014.

IVU Umwelt (2014): Determination of background concentrations for the federal state Baden-Württemberg 2010. Contracting authority: State Environmental Agency of Baden-Württemberg. 2014.

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IVU Umwelt (2013): Actualisation and research to emission factors of Euro-5 and 6 vehicles for integration into the Handbook Emission Factors For Road Transport (HBEFA). In cooperation with partners. Contracting authority: German Federal Environment Agency (UBA). 2013.

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IVU Umwelt (2011): Dispersion calculations for the regions center and nord and the agglomeration Kassel in Hesse. Contracting authority: State Environmental Agency of Hesse. 2011.

IVU Umwelt (2011): iQ mobility - Integrated Quality and Mobility Management for Road Traffic in the Berlin Region. Project partner. 2011.

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IVU Umwelt (2011): Update of the Air Quality Plan for Berlin 2009-2020. Final report. Contracting authority: Senate Department for Health, the Environment and Consumer Protection Berlin. In cooperation with VMZ Berlin und Dr. Rainer Stern. 2011.

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IVU Umwelt (2010): Modelling and evaluation of various concepts for LEZs in the European Mega City Ruhr area in Germany (various sub-projects). Contracting authority: State Environmental Agency of North Rhine-Westphalia. 2010.

IVU Umwelt (2010): Numerical simulation of NO<sub>x</sub> degradation using photocatalytic surfaces along motorways. FE 89.234/2009/AP. Contracting authority: Federal Highway Research Institute (BASt). 2010.

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IVU Umwelt (2007): Updated Inventory of Clean Air Plans and Action Plans in Germany. Contracting authority: German Federal Environment Agency (UBA). 2007.

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*IVU Umwelt GmbH is independently in business since 1999, when it was outsourced from IVU GmbH. Publications and reports with environmental relevance before 1999 are listed with IVU GmbH as author.*

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