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Karl Vrancken (°1969), is research manager sustainable materials management at VITO (Belgium). He is responsible for the strategic management of VITO's Sustainable Materials programme and senior expert on circular economy. He has a part-time assignment as associate professor at the University of Antwerp (Dept. Bio-engineering), where he teaches sustainable resources management. He has broad experience as a researcher, project and team manager in projects on circular economy, waste management and treatment, recycling, secondary raw materials, best available techniques (BAT) and integrated pollution prevention and control. He worked as a Detached National Expert with the European IPPC Bureau in Seville (Spain) and was co-founder and interim Chief Operations Officer (iCOO) of the knowledge and innovation community (KIC) EIT Raw Materials (Berlin, Germany). He is the chairman of the European Circular Economy Research Alliance and scientific chair of the circular economy track of the Global Sustainable Technology and Innovation Community (GSTIC). He is a respected expert and speaker on circular economy in the media and at various national and international conferences.

Public Service

Member of European Environment Agency (EEA) Scientific Committee, Member of Wuppertal Institut International Advisory Board, Promotor of the Policy Research Center Circular Flanders, Member of the International Solid Waste Association (ISWA) working group on waste recycling and minimisation, former consortium chairman of the EEA European Topic Centre for Waste and Materials in a Green Economy (EEA ETC-WMGE).

Some publications:

Berg, H., Sebestyén, J., Bendix, P., Le Blévenec, K., Vrancken, K., Digital Waste Management, Eionet Report – ETC/WMGE 2020/4

European Circular Economy Research Alliance, Digital circular Economy, a cornerstone of a sustainable European industry transformation, white paper, via <https://vito.be/en/news/ecera-european-circular-economy-research-alliance>, accessed 17 Dec 2020.

Lahcen, B., Brusselaers, J., Vrancken, K., Dams, Y., De Silva Paes, C., Eyckmans, J., Rousseau, S., Green recovery policies for the COVID-19 Crisis: Modelling the impact on the economy and greenhouse gas emissions, *Environ Resource Econ*, 2020. <https://doi.org/10.1007/s10640-020-00454-9>

Wuyts, W., Marin, J., Brusselaers, J., Vrancken, K., Circular Economy as a COVID-19 cure? *Resources, Conservation and Recycling*, 162, 2020.

Parchomenko, A., Nelen, D., Gillabel, J., Vrancken, K.C., Rechberger, H., Evaluation of resource effectiveness of circular economy strategies through multilevel Statistical Entropy Analysis, *Resources, Conservation and Recycling*, 161, 2020.

Alaerts, L., Van Acker, K., Rousseau, S., De Jaeger, S., Moraga, G.L., Dewulf, J., De Meester, S., Van Passel, S., Compemolle, T., Bachus, K., Vrancken, K., Eyckmans, J., Towards a more direct policy feedback in circular economy monitoring via a societal needs perspective, *Resources, Conservation and Recycling*, 149, 2019, 363-371

Christis M., Geerken T., Vercalsteren A., Vrancken K.C. Value in sustainable materials management strategies for open economies case of Flanders (Belgium). *Res. Cons. Rec.*, 103, 2015, 110-124.

Nelen, D., Manshoven, S., Peeters, J.R., Vanegas, P., D'Haese, N., Vrancken, K. A Multi-dimensional indicator set to assess the benefits of WEEE material recycling. *Journal of Cleaner Production*, 88, 2014, 305-316.