

## MARTIN KOWARSCH

### LIST OF PUBLICATIONS, ADVICE FOR ASSESSMENTS, TALKS, & TEACHING

Last update: 30 Nov 2018

#### A) Peer-reviewed scientific publications

1. Garard, Jennifer; Koch, Larissa; Kowarsch, Martin (2018): Elements of success in multi-stakeholder deliberation platforms. *Palgrave Communications* 4, 129. Open access: <https://www.nature.com/articles/s41599-018-0183-8>
2. Lenzi, Dominic; Lamb, William F.; Hilaire, Jérôme; Kowarsch, Martin; Minx, Jan C. (2018): Weigh the ethics of plans to mop up carbon dioxide [online title: Don't deploy negative emissions technologies without ethical analysis]. *Nature* 561: 303–305. Link: <https://www.nature.com/articles/d41586-018-06695-5>
3. Garard, Jennifer; Kowarsch, Martin (2017): Objectives for Stakeholder Engagement in Global Environmental Assessments. *Sustainability* 9(9): 1571. Open Access: <http://www.mdpi.com/2071-1050/9/9/1571>
4. Kowarsch, Martin; Flachsland, Christian; Garard, Jennifer; Jabbour, Jason; Rioussset, Pauline (2017): The treatment of divergent viewpoints in global environmental assessments. *Environmental Science and Policy* 77: 225–234. doi:10.1016/j.envsci.2017.04.001. Link: <https://www.sciencedirect.com/science/article/pii/S1462901117303313>
5. Kowarsch, Martin; Jabbour, Jason (2017): Solution-oriented global environmental assessments: Opportunities and challenges. *Environmental Science and Policy* 77: 187–192. doi:10.1016/j.envsci.2017.08.013. Open access: <https://www.sciencedirect.com/science/article/pii/S1462901117308353>
  - o This article provides an introduction to the **Special Issue** of *Environmental Science and Policy* dedicated to “Solution-oriented Global Environmental Assessments: Opportunities and Challenges”. **Guest Editors:** Martin Kowarsch and Jason Jabbour. Link to Special Issue: <https://www.sciencedirect.com/science/journal/14629011/77>
6. Rioussset, Pauline; Flachsland, Christian; Kowarsch, Martin (2017): Global environmental assessments: Impact mechanisms. *Environmental Science and Policy* 77: 260–267. doi:10.1016/j.envsci.2017.02.006. Link: <https://www.sciencedirect.com/science/article/pii/S146290111730151X>
7. Garard, Jennifer; Kowarsch, Martin (2017): If at first you don't succeed: Evaluating stakeholder engagement in global environmental assessments. *Environmental Science and Policy* 77: 235–243. doi:10.1016/j.envsci.2017.02.007. Link: <https://www.sciencedirect.com/science/article/pii/S1462901117301521>
8. Kowarsch, Martin; Jabbour, Jason; Flachsland, Christian; Kok, Marcel T.J.; Watson, Robert; Haas, Peter M.; Minx, Jan C.; Garard, Jennifer; Rioussset, Pauline; Pintér, László; Langford, Cameron; Yamineva, Yulia; von Stechow, Christoph; O'Reilly, Jessica; Edenhofer, Ottmar (2017): A road map for global environmental assessments. *Nature Climate Change* 7(6): 379–382. doi:10.1038/nclimate3307. Free version: <http://rdcu.be/s7kC>
9. Kowarsch, Martin; Garard, Jennifer; Rioussset, Pauline; Lenzi, Dominic; Dorsch, Marcel J.; Knopf, Brigitte; Hars, Jan-Albrecht; Edenhofer, Ottmar (2016): Scientific assessments to facilitate deliberative policy learning. *Palgrave Communications* 2:16092 (Special Issue on Scientific advice to governments, guest edited by Sir P. Gluckman and J. Wilsdon). Open access: <https://www.nature.com/articles/palcomms201692>
10. Kowarsch, Martin (2016): *A Pragmatist Orientation for the Social Sciences in Climate Policy. How to Make Integrated Economic Assessments Serve Society*. Boston Studies in the Philosophy and History of Science 323. Switzerland: Springer International Publishing [326pp.]. Link: <http://www.springer.com/gp/book/9783319432793>
11. Kowarsch, Martin; Edenhofer, Ottmar (2016): Principles or Pathways? Improving the Contribution of Philosophical Ethics to Climate Policy. In: Heyward, Clare; and Roser, Dominic (eds.): *Climate Justice*

*in a Non-Ideal World*. Oxford: Oxford Univ Press, pp. 296–318. Book description: <https://global.oup.com/academic/product/climate-justice-in-a-non-ideal-world-9780198744047>

12. Kowarsch, Martin (2016): Policy assessments to enhance EU scientific advice. *Nature Climate Change* 6(1): 15–17. DOI: 10.1038/nclimate2835. Link: <https://www.nature.com/articles/nclimate2835>
13. Edenhofer, Ottmar; Kowarsch, Martin (equal contributions) (2015): Cartography of pathways: A new model for environmental policy assessments. *Environmental Science & Policy* 51: 56–64. DOI: 10.1016/j.envsci.2015.03.017. Free version: [http://www.ingsa.org/wp-content/uploads/2015/11/PEM\\_final\\_ESP\\_2015.pdf](http://www.ingsa.org/wp-content/uploads/2015/11/PEM_final_ESP_2015.pdf)
14. Biewald, Anne; Kowarsch, Martin (equal contributions); Lotze-Campen, Hermann; Gerten, Dieter (2015): Ethical aspects in the economic modeling of water policy options. *Global Environmental Change* 30(1): 80–91. DOI: 10.1016/j.gloenvcha.2014.11.001. Link: <https://www.sciencedirect.com/science/article/pii/S0959378014001824>
15. Edenhofer, Ottmar; Jakob, Michael; Creutzig, Felix; Flachsland, Christian; Fuss, Sabine; Kowarsch, Martin; et al. (2015): Closing the emission price gap. *Global Environmental Change* 31: 132–143. DOI: 10.1016/j.gloenvcha.2015.01.003. Link: <https://www.sciencedirect.com/science/article/pii/S0959378015000059>. [Reprinted in: Kaul, Inge (ed.) (2016): *Global Public Goods*. Edward Elgar, Ch. 22]
16. Gerten, Dieter; Lucht, Wolfgang; Oestberg, Sebastian; Heinke, Jens; Kowarsch, Martin; Kreft, Holger; et al. (2013): Asynchronous exposure to global warming: freshwater resources and terrestrial ecosystems. *Environmental Research Letters* 8(034032). DOI: 10.1088/1748-9326/8/3/034032. Open access: <http://iopscience.iop.org/article/10.1088/1748-9326/8/3/034032>
17. Kowarsch, Martin; Gösele, Andreas (2012): Triangle of Justice. In: Edenhofer, Ottmar; Wallacher, Johannes; Lotze-Campen, Hermann; Reder, Michael; Knopf, Brigitte; and Müller, Johannes (eds.): *Climate Change, Justice and Sustainability: Linking Climate and Development Policy*. Dordrecht: Springer, pp. 73–90.
18. Knopf, Brigitte; Kowarsch, Martin; Edenhofer, Ottmar; Luderer, Gunnar (2012): Climate Change Mitigation: Options, Costs and Risks. In: Edenhofer, Ottmar; Wallacher, Johannes; Lotze-Campen, Hermann; Reder, Michael; Knopf, Brigitte; and Müller, Johannes (eds.): *Climate Change, Justice and Sustainability: Linking Climate and Development Policy*. Dordrecht: Springer, pp. 139–150.
19. Knopf, Brigitte; Kowarsch, Martin; Flachsland, Christian; Edenhofer, Ottmar (2012): The 2°C Target Reconsidered. In: Edenhofer, Ottmar; Wallacher, Johannes; Lotze-Campen, Hermann; Reder, Michael; Knopf, Brigitte; and Müller, Johannes (eds.): *Climate Change, Justice and Sustainability: Linking Climate and Development Policy*. Dordrecht: Springer, pp. 121–138.
20. Knopf, Brigitte; Kowarsch, Martin; Lüken, Michael; Edenhofer, Ottmar; Luderer, Gunnar (2012): A Global Carbon Market and the Allocation of Emission Rights. In: Edenhofer, Ottmar; Wallacher, Johannes; Lotze-Campen, Hermann; Reder, Michael; Knopf, Brigitte; and Müller, Johannes (eds.): *Climate Change, Justice and Sustainability: Linking Climate and Development Policy*. Dordrecht: Springer, pp. 269–286.
21. Wallacher, Johannes; Reder, Michael; Kowarsch, Martin (2009): Klimawandel, weltweite Armut und Gerechtigkeit: Begründung und Gestaltung einer integrierten Klima- und Entwicklungspolitik. *Umweltpsychologie* 13: 52–67.

## **B) Other scientific publications**

22. Kowarsch, Martin (2017): Chap. 4: Beyond general principles: water ethics in a Deweyan perspective. In: Ziegler, Rafael; and Groenfeldt, David (eds.): *Global Water Ethics: Towards a Global Ethics Charter*. Routledge, pp. 57–74. Book description: <https://www.routledge.com/Global-Water-Ethics-Towards-a-global-ethics-charter/Ziegler-Groenfeldt/p/book/9781138204294>
23. Kowarsch, Martin; Edenhofer, Ottmar (2015): Experts as Cartographers of Policy Pathways for Europe. In: Wilsdon, James; and Doubleday, Robert (eds.): *Future Directions for Scientific Advice in Europe*, pp. 113–122. Open access: <http://www.csap.cam.ac.uk/projects/future-directions-scientific-advice-europe/>

24. Edenhofer, Ottmar; Kowarsch, Martin (2015): Ausbruch aus dem stahlharten Gehäuse der Hörigkeit: ein neues Modell wissenschaftlicher Politikberatung. In: Weingart, Peter; and Wagner, Gert G. (eds.): *Wissenschaftliche Politikberatung im Praxistest*. Weilerswist: Velbrück, pp. 83–106.
25. Kowarsch, Martin; Edenhofer, Ottmar (2014): Vom Umgang mit Wertekonflikten in wissenschaftlichen Gutachten zur Klimapolitik. In: Steger, Florian (ed.): *Bedroht Entscheidungsfreiheit Gesundheit und Nachhaltigkeit? Zwischen notwendigen Grenzen und Bevormundung*. Münster: mentis, pp. 139–163.
26. Kowarsch, Martin; Flachsland, Christian; Jabbour, Jason; Garard, Jennifer; Rioussset, Pauline (2014): The Future of Global Environmental Assessment Making (FOGEAM): Reflecting on past experiences to inform future choices. MCC Working Paper. Report prepared for UNEP's IGMS consultation on GEO-6, Oct 2014, Berlin. Online: [https://www.mcc-berlin.net/fileadmin/data/C18\\_MCC\\_Publications/FOGEAM\\_Preliminary\\_Draft\\_Report\\_17102014.pdf](https://www.mcc-berlin.net/fileadmin/data/C18_MCC_Publications/FOGEAM_Preliminary_Draft_Report_17102014.pdf)
27. Kowarsch, Martin (2014): *What are scientific assessments?* Working Paper. Online: [https://www.mcc-berlin.net/fileadmin/data/B2.3\\_Publications/Working%20Paper/2014\\_Work\\_MCC4\\_Kowarsch\\_What%20are%20scientific%20assessments.pdf](https://www.mcc-berlin.net/fileadmin/data/B2.3_Publications/Working%20Paper/2014_Work_MCC4_Kowarsch_What%20are%20scientific%20assessments.pdf)
28. Wallacher, Johannes; Kowarsch, Martin (2013): Klimaschutz und Armutsbekämpfung: Ein Dilemma? In: Wallacher, Johannes; Müller, Johannes; and Reder, Michael (eds.): *Weltprobleme*. 7th edition. Munich: Bayerische Landeszentrale für politische Bildung, pp. 253–274.
29. Edenhofer, Ottmar; Kowarsch, Martin (2012): Wem nützt, wem schadet Klimaschutz? In: Schreijäck, Thomas; Bröckelmann-Simon, Martin; Antkowiak, Thomas; Biesinger, Albert; and Fuchs, Ottmar (eds.): *Horizont Weltkirche: Erfahrungen - Themen - Optionen und Perspektiven. Josef Sayer zu Ehren*. Ostfildern: Grünewald, pp. 241–260.
30. Kowarsch, Martin (2012): Wie sollte die Nutzung des knappen Gutes Süßwasser geregelt werden? In: Maring, Matthias (ed.): *Globale öffentliche Güter in interdisziplinären Perspektiven*. ZTWE series Vol. 5. Karlsruhe: KIT Scientific Publishing, pp. 161–178. Online: <http://digbib.ubka.uni-karlsruhe.de/volltexte/1000027069>
31. Edenhofer, Ottmar; Kowarsch, Martin (2011): Klimaschutz und Klimawandel. In: Stoecker, Ralf; Neuhäuser, Christian; and Raters, Marie-Luise (eds.): *Handbuch Angewandte Ethik*, Stuttgart: Metzler, pp. 511–517.
32. Kowarsch, Martin (2011): "Corporate Water Strategies" (W. Sarni): Book review. *Ökologisches Wirtschaften* 3: 53–54.
33. Kowarsch, Martin (ed.) (2011): *Water management options in a globalised world*. Proceedings of an international scientific workshop (June 20–23, 2011, Bad Schönbrunn). 2<sup>nd</sup>, revised edition. Online: [https://www.mcc-berlin.net/fileadmin/user\\_upload/Proceedings\\_2nd\\_edition.pdf](https://www.mcc-berlin.net/fileadmin/user_upload/Proceedings_2nd_edition.pdf)
34. Kowarsch, Martin (2011): Chapter 4. Ethical targets and questions of water management. In: Kowarsch, Martin (ed.): *Water management options in a globalised world*. Proceedings of an international scientific workshop (June 20–23, 2011, Bad Schönbrunn). 2<sup>nd</sup>, revised edition. Online: [https://www.mcc-berlin.net/fileadmin/user\\_upload/Proceedings\\_2nd\\_edition.pdf](https://www.mcc-berlin.net/fileadmin/user_upload/Proceedings_2nd_edition.pdf)
35. Kowarsch, Martin (2011): *From Human Rights to Water Management. A General Water Ethical Framework*. Third working paper prepared for the research project "Sustainable Water Management in a Globalized World", funded by Germany's Federal Ministry of Education and Research (BMBF).
36. Kowarsch, Martin (2011): *Diversity of water ethics – a literature review*. Second working paper prepared for the research project "Sustainable Water Management in a Globalized World", funded by Germany's Federal Ministry of Education and Research (BMBF).
37. Kowarsch, Martin; Schröer, Katharina (2011): *What should water ethics be about? The problem with identifying problems*. First Working Paper prepared for the research project "Sustainable Water Management in a Globalized World", funded by Germany's Federal Ministry of Education and Research (BMBF).
38. Kowarsch, Martin (2010): Albert Schweitzers Ethikbegründung. In: Hofmeister, Georg; and Schüz, Gottfried (eds.): *Ehrfurcht vor dem Leben. Zur Aktualität der Ethik Albert Schweitzers*. Hofgeismarer Protokolle 350, Hofgeismar, pp. 101–118.
39. Kowarsch, Martin; Gösele, Andreas; Reder, Michael (2010): Chapter 3.2: Das Dreieck der Gerechtigkeit. In: Edenhofer, Ottmar; Wallacher, Johannes; Reder, Michael; and Lotze-Campen, Hermann (eds.): *Global, aber gerecht. Klimawandel bekämpfen, Entwicklung ermöglichen*. A report by

the Potsdam Institute on Climate Impact Research and the Institute for Social and Development Studies (Munich) mandated by Misereor and the Munich Re Foundation. Munich: Beck, pp. 61–69.

40. Knopf, Brigitte; Kowarsch, Martin; Edenhofer, Ottmar (2010): Chapter 4.1: Das 2°C-Ziel – mehr als ein fauler Kompromiss. In: Edenhofer, Ottmar; Wallacher, Johannes; Reder, Michael; and Lotze-Campen, Hermann (eds.): *Global, aber gerecht. Klimawandel bekämpfen, Entwicklung ermöglichen*. A report by the Potsdam Institute on Climate Impact Research and the Institute for Social and Development Studies (Munich) mandated by Misereor and the Munich Re Foundation. Munich: Beck, pp. 93–100.
41. Knopf, Brigitte; Kowarsch, Martin; Edenhofer, Ottmar (2010): Chapter 4.2: Vermeidung des Klimawandels: Optionen und Kosten. In: Edenhofer, Ottmar; Wallacher, Johannes; Reder, Michael; and Lotze-Campen, Hermann (eds.): *Global, aber gerecht. Klimawandel bekämpfen, Entwicklung ermöglichen*. A report by the Potsdam Institute on Climate Impact Research and the Institute for Social and Development Studies (Munich) mandated by Misereor and the Munich Re Foundation. Munich: Beck, pp. 100–111.
42. Knopf, Brigitte; Kowarsch, Martin; Lüken, Michael; Brunner, Steffen; Edenhofer, Ottmar (2010): Chapter 6.2: Begrenzung, Verteilung und Handel von CO<sub>2</sub>-Emissionsrechten. In: Edenhofer, Ottmar; Wallacher, Johannes; Reder, Michael; and Lotze-Campen, Hermann (eds.): *Global, aber gerecht. Klimawandel bekämpfen, Entwicklung ermöglichen*. A report by the Potsdam Institute on Climate Impact Research and the Institute for Social and Development Studies (Munich) mandated by Misereor and the Munich Re Foundation. Munich: Beck, pp. 165–179.
43. Kowarsch, Martin (2007): Die Rolle der Mystik in Albert Schweitzers Ethikbegründung. Master Thesis, Hochschule für Philosophie München. Online: [https://www.mcc-berlin.net/fileadmin/user\\_upload/Kowarsch\\_MagisterSchweitzer.pdf](https://www.mcc-berlin.net/fileadmin/user_upload/Kowarsch_MagisterSchweitzer.pdf)

✚ *Furthermore contributing to:*

- Knopf, Brigitte; Luderer, Gunnar; Edenhofer, Ottmar (2011): Exploring the feasibility of low stabilization targets. *WIREs Climate Change* 2(4): 617–626.
- Rothman, Dale S.; van Bers, Caroline; Bakkes, Jan; Pahl-Wostl, Claudia on behalf of The Integrated Assessment Society (TIAS) (2009): How to make global assessments more effective: lessons from the assessment community. *Current Opinion in Environmental Sustainability* 1: 214–218.
- Bordt, Michael (2006): *Aristoteles' "Metaphysik XII"*, Darmstadt: WBG.

### **C) Political and pedagogical publications (research-based)**

44. Akhtar-Schuster, Mariam; Textor, Christiane; Egner, Heike; Jetzkowitz, Jens; Kowarsch, Martin; Settele, Josef (2018): Towards a virtual collaboration platform for inter- and transdisciplinary research in support of international environmental policy that puts people at the focus: a new role for social sciences and the humanities. M. Akhtar-Schuster and C. Textor (Eds.). DLR Project Management Agency, Berlin/Bonn, Germany. Open access: [https://www.dlr.de/pt/Portaldata/45/Resources/dokumente/Internationale\\_Initiative\\_Brief.pdf](https://www.dlr.de/pt/Portaldata/45/Resources/dokumente/Internationale_Initiative_Brief.pdf)
45. Watson, Bob; Scholes, Bob; Kowarsch, Martin; International Council for Science (ICSU) (2017): Why 2018 is a big year for global environmental assessments. ICSU blog interview. Online: <https://www.icsu.org/current/blog/test>
46. Kowarsch, Martin; Stamm, Julia; Hausmann, Jeannine; Wilsdon, James (2017): Report: Principles and guidelines for social science advice to policy. An expert workshop (Berlin, 25 April 2017) jointly organised by INGSA, MCC Berlin, and Stiftung Mercator. Online: <http://www.ingsa.org/wp-content/uploads/2017/05/Summary-INGSA-MCC-Mercator-soc-sci-WS-Apr-2017.pdf>
47. Kowarsch, Martin (2016): Für eine deliberative Demokratie. In: Donald Trump: Schnöde Ideologie: *Sueddeutsche Zeitung* 279, Forum und Leserbrief, Dec 2<sup>nd</sup>, 2016, p. 15. Online: <http://www.sueddeutsche.de/kolumne/donald-trump-schnoede-ideologie-1.3274930#3>

48. Kowarsch, Martin (2015): *More clarity needed on new EU science advice mechanism*. Commentary. Science|Business. Online: <http://www.sciencebusiness.net/news/77126/More-clarity-needed-on-new-EU-science-advice-mechanism>
49. Kowarsch, Martin (2015): Weltprobleme? Man kann doch eh nichts ändern. In: Schüz, Gottfried (ed.): *Albert Schweitzer Reflexionen. 25 Albert Schweitzer-Pespektiven (Bd. 2)*. Frankfurt a.M.: Stiftung Deutsches Albert Schweitzer Zentrum, pp. 84–88.
50. Kowarsch, Martin; Flachslund, Christian; Jabbour, Jason; Garard, Jennifer; Rioussset, Pauline (2014): MCC Background Paper prepared for UNEP’s IGMS consultation on GEO-6, Oct 2014, Berlin. Online: [https://www.mcc-berlin.net/fileadmin/data/C18\\_MCC\\_Publications/MCC\\_Short\\_Background\\_Input\\_paper.pdf](https://www.mcc-berlin.net/fileadmin/data/C18_MCC_Publications/MCC_Short_Background_Input_paper.pdf)
51. Kowarsch, Martin (2010): Kann man der Klimaforschung noch vertrauen? Vorwürfe gegen Weltklimarat. *ÖkologiePolitik* 147: 23–24.
52. Kowarsch, Martin (2009): Warum wir einen globalen Emissionshandel brauchen. *ÖkologiePolitik* 143: 20.
53. Kowarsch, Martin (2009): Klimawandel als Jahrhundert-Herausforderung. *JEV-Net* 2: 26–27.
54. Kowarsch, Martin (2008): Politik braucht Denker. Albert Schweitzers Ethik. *ÖkologiePolitik* 137: 10–15.
55. Kowarsch, Martin (2008): Mitschuld an weltweiter Armut. Zusammenhänge der Einen Welt. *Gemeinde creativ* 4: 18.

#### **D) Expert advice and review for scientific assessment processes**

##### *For the Intergovernmental Panel on Climate Change (IPCC AR5/6):*

- a. Contributions to the development of the assessment approach of IPCC Working Group (WG) III during the 5<sup>th</sup> IPCC assessment cycle. The IPCC WG III employed the “pragmatic-enlightened model” for scientific expertise in policy (Edenhofer & Kowarsch, *EnvSci&Pol*, 2015).
- b. Expert reviewer for the IPCC WG III contribution to the 5<sup>th</sup> IPCC assessment report (AR5) with a focus on the assessment approach taken in Chapter 3.
- c. Inputs to the debate on potential future social-science studies on the IPCC assessment processes at the IPCC Expert Meeting in Geneva, 28–29 January 2015.
- d. Discussing the role of social sciences in future IPCC assessments in February 2015 at a high-level expert workshop (including both scientific experts and governmental officials) on “Assessment and Communication of the Social Science of Climate Change: Bridging Research and Policy” in Berlin organized by MCC together with the Harvard Project on Climate Agreements, FEEM and Stanford University.<sup>1</sup>
- e. February 2015: Invited to review a report by the German Climate Consortium (DKK) on perspectives for climate change research 2015–2025. This report inter alia aims to ensure the relevance of the research for future policy-making processes and IPCC assessments.

##### *For UNEP’s Sixth Global Environment Outlook assessment (GEO-6):*

- a. On request by UNEP, preparation of a report (151pp.) on the work-in-progress conducted under the FOGAM project, along with a short background document (policy brief) prepared by MCC, as official inputs to UNEP’s Intergovernmental and Multi-Stakeholder Consultation on GEO-6 in Berlin in Oct 2014, where MCC members actively participated as stakeholders. See list of publications.
- b. Since 2015 expert reviewer for the GEO-6 assessment reports.
- c. October 2013, as part of the FOGAM project, co-organization of an expert workshop at MCC with leading GEO authors to discuss challenges and opportunities for future GEO assessments.

<sup>1</sup> As one output, see <http://science.sciencemag.org/content/350/6256/34>.

✚ *For the new science advice mechanism (SAM) of the European Commission:*

- a. Formal and informal discussions with EU officials, academy members, and other stakeholders about the appropriate design of the new EU SAM, including:
  - (i) May 2015 panel discussion with the former EU Chief Scientific Adviser Anne Glover on “Scientific policy advice in Europe, lessons-learned and future perspectives” at MCC;
  - (ii) June 2015 participation in and oral input for a high-level workshop (expert-policy dialogue) in Berlin organized by Stiftung Mercator et al. on “Future Directions for Scientific Advice in Europe” involving EU officials, scientific experts, academy members, etc.
- b. High-level commentary on the new EU SAM published in *Nature Climate Change* (Kowarsch 2016); furthermore several media contributions on this topic (including in Science|Business,<sup>2,3</sup> taz<sup>4,5</sup>, and FAZ<sup>6</sup>).
- c. March 2016 invited to review a proposal by a consortium of European scientific academies (European Academy Networks, coordinated by acatech) regarding their potential contribution to the new EU SAM.

✚ *For assessments of the Intergovernmental Platform on Biodiversity and Ecosystem Services (IPBES):*

- a. Since 2015 reviewer for various IPBES assessment documents.
- b. Participating in IPBES-5 plenary (Bonn, 2017) as observer.

✚ *For the envisaged assessment on food and nutrition (IPFN):*

- a. In 2015, upon request, advice for a paper that presents a concept for an envisaged scientific assessment on food and nutrition.<sup>7</sup>

✚ *For assessments on disaster risk reduction by the United Nations (UNISDR):*

- a. Invited to participate in “UNISDR Science and Technology Conference on the implementation of the Sendai Framework for Disaster Risk Reduction 2015-2030” in Geneva 27–29 January 2016 for discussions about the design of assessments related to disaster risks.

✚ *For German energy scenarios:*

- a. March 2015 invited to an expert workshop reviewing new guidelines for the development of energy scenarios for Germany (for the ESYS project by the German scientific academies acatech, Leopoldina and UNION), resulting in a report.<sup>8</sup>

✚ *For health policy assessments:*

- a. Global Health Economics Summit, July 2016, Berlin, where also health policy practitioners were involved: Organising Committee Member, and talk presented on the PEM science-policy model.

✚ *For scientific assessments more generally:*

- a. 2013–2017 leader and manager of the joint MCC-UNEP research initiative on the “Future of Global Environmental Assessment Making” (FOGEAM)<sup>9</sup> that informed the design of future global environmental assessments (GEAs), upon request by UNEP. As part of this project, co-organization of a workshop in Nairobi in August 2013 to discuss current challenges and opportunities for GEAs with assessment experts from UNEP. September/October 2015, main organizer of a high-level expert workshop in Berlin bringing together scholars, assessment practitioners and governmental officials to discuss about future challenges and options for solution-oriented GEAs in particular. This discussion and the FOGEAM research, including roughly 100 expert interviews on GEAs, resulted in a journal special issue of *Environmental*

<sup>2</sup> See <http://www.sciencebusiness.net/news/77126/More-clarity-needed-on-new-EU-science-advice-mechanism>.

<sup>3</sup> See <http://www.sciencebusiness.net/news/77312/Magnificent-Seven-warm-response-to-new-science-adviser-picks>.

<sup>4</sup> See <http://www.taz.de/Berater-fuer-EU-Kommission!/5223664/>.

<sup>5</sup> See <https://www.taz.de/Archiv-Suche/%215385752&s=&SuchRahmen=Print/>.

<sup>6</sup> See <http://www.faz.net/aktuell/wissen/jean-claude-junckers-neuer-rat-sam-high-level-group-13904846.html>.

<sup>7</sup> See [http://www.zef.de/uploads/tx\\_zefportal/Publications/WP142\\_final.pdf](http://www.zef.de/uploads/tx_zefportal/Publications/WP142_final.pdf).

<sup>8</sup> See <http://www.acatech.de/de/publikationen/stellungnahmen/kooperationen/detail/artikel/mit-energieszenarien-gut-beraten.html>.

<sup>9</sup> See <http://www.mcc-berlin.net/en/research/cooperation/unep.html>.

*Science & Policy* in 2017 (guest editors: Martin Kowarsch and Jason Jabbour) as well as in a perspective paper that summarizes key recommendations for future GEA design for a broader audience (see list of publications).

- b. Since 2015 member of Network Development Group (together with O. Edenhofer) of the International Network of Government Science Advice (INGSA). In this capacity, discussions with representatives of different political or science-policy institutions about how to promote policy-relevant scientific assessments and improve their effectiveness in policy processes, including e.g.: (i) talk given at INGSA side event at the World Science Forum Budapest in Nov 2015 on global assessment-making; (ii) co-organizer of 2<sup>nd</sup> INGSA science-policy conference in Sep 2016 in Brussels (together with EU Commission, etc.); (iii) selection committee member for GYA-INGSA-EU workshop for young scientists ahead of the 2<sup>nd</sup> INGSA science-policy conference; (iv) invited to participate in a workshop ahead of the 2<sup>nd</sup> INGSA science-policy conference to develop principles and guidelines for scientific policy advice.
- c. March 2016 invited by the United Nations Environment Programme (UNEP) and GRID Arendal as reviewer for the [update of the UNEP guidance](#) on Integrated Environmental Assessment (IEA).
- d. Invited for a talk and for discussing guidelines for scientific policy advice at an expert workshop by the OECD Global Science Forum on “Scientific Advice for Policymaking and Consequences for the Role and Responsibility of Scientists” in Berlin February 2014.<sup>10</sup>
- e. Reviewer for [UNEP GAP Analysis](#) to strengthen the science policy and governance interface, 2017.

✚ *For science funders to promote policy-relevant research:*

- a. From 2016, invited participant of DFG (as major German funding organization) roundtable discussions on social science research to inform the sustainable development debate.
- b. Sep 2016 invited talk for the EU’s “JPI Climate” meeting in Brussels on key research challenges and gaps in the area of climate impact model assessments and their potential influence on climate change economics, as well as the effective co-design of tools to support mitigation and adaptation decisions. The main output of the workshop is the preparation of an International Call proposal to be submitted to the IGFA/Belmont Forum and to JPI Climate.

## E) Talks, events, and research visits [selection]

- Nov 2018 participating in external **IPBES review** (commissened by IPBES plenary); webinar with science-policy experts
- Sep 2018 expert workshop organized in Berlin (together with Prof. C. Pahl-Wostl) on **deliberative, multi-stakeholder learning platforms** at the science-policy interface on sustainability. Workshop report: [https://www.mcc-berlin.net/fileadmin/user\\_upload/Kowarsch\\_Workshop\\_Report\\_LearningPlatforms\\_sep2018.pdf](https://www.mcc-berlin.net/fileadmin/user_upload/Kowarsch_Workshop_Report_LearningPlatforms_sep2018.pdf)
- Aug 2018 host and participant of an expert meeting of the Integrated Assessment Society (**TIAS**) at the MCC Berlin on principles of Integrated Assessment Review.
- July 2018 **KIT** Karlsruhe: talk about learning processes at the science-policy interface and the PEM model at the ITAS colloquium.
- Feb 2018 3<sup>rd</sup> German **Future Earth** Summit: keynote on solution-oriented GEAs at the roundtable on the role of the social sciences & humanities.
- 2016–2018: participating in, and co-organizing, the **DFG roundtable** on social science contributions to climate change and sustainable development debates. Co-organizer of 2<sup>nd</sup> (Sep 2017, Berlin) and 3<sup>rd</sup> (Dec 2017, Hamburg) roundtable, including a presentation on “Bestandsaufnahme der SPI-Forschung: von Politics zu Policy Learning?”.

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<sup>10</sup> Resulting in a report (2015): [www.oecd-ilibrary.org/docserver/download/5js3311jcpwb.pdf](http://www.oecd-ilibrary.org/docserver/download/5js3311jcpwb.pdf).

- Nov 2017 keynote presentation on “Mapping Policy Alternatives: A Framework for the Current Science-Policy Interface” at a **COP-23 side event** (Bonn) on “The science-policy interface for climate-smart agriculture in action”, co-organized by CGIAR, MCC, et al.
- Nov 2017 (Berlin), “German-Moroccan Academy for Good Governance” initiated by the German Federal Foreign Office: seminar given on scientific policy advice for bureaucrats and members of the **Moroccan government**.
- June 2017 talk on “Designing effective Global Environmental Assessments? The FOGTEAM project” at **TIAS webinar** on principles and standards for integrated assessments → [workshop report](#).
- May 2017 talk on “Between dogmatism & skepticism: Mapping policy alternatives” at philosophical-interdisciplinary workshop on the SDGs achievement, University of **Trondheim**.
- Apr 2017 co-organizing an expert workshop (Berlin) together with INGSA and Stiftung Mercator on principles and guidelines for **social science advice to policy** → [workshop report](#).
- Sep 2016 co-organizer of 2<sup>nd</sup> **INGSA science-policy conference** in Brussels together with EU Commission, etc.
- Jul 2016, on invitation, Organising Committee Member and speaker at **Global Health Economics Summit**, Berlin. Talk given on the PEM science-policy model.
- Jun 2016: co-organizer and moderator of a webinar (MCC Berlin, UFZ Leipzig, Univ. of Sussex) on “**Stakeholder Engagement in Global Environmental Assessments** and Global Science-Policy Interfaces.”
- Jan 2016, on invitation, participated in “**UNISDR Science and Technology Conference** on the implementation of the Sendai Framework for Disaster Risk Reduction 2015-2030” in Geneva for discussions about the design of assessments related to disaster risks
- Nov 2015 presentation (on invitation) on “Contemporary Global Environmental Assessments: Opportunities & Challenges” at an INGSA side event during the **World Science Forum** in Budapest
- Sep/Oct 2015 main organizer of the **FOGTEAM high-level expert workshop in Berlin** bringing together scholars, assessment practitioners and governmental officials to discuss about future challenges and options for solution-oriented global environmental assessments (GEAs). Paper presentation on “The treatment of divergent viewpoints in GEAs”
- Jul 2015 paper on “Deweyan water ethics: The integrated exploration of policy pathways” presented at the conference of the International Society for Environmental Ethics (**ISEE**) in Kiel (Germany)
- Jul 2015 organizing and chairing (together with C. Flachsland) a conference panel on “Advancing public policy assessment in GEAs” at the International Conference on Public Policy (**ICPP**) in Milan; paper presented on “The treatment of divergent viewpoints in GEAs”
- Jun 2015 participation in high-level workshop (expert-policy dialogue) in Berlin organized by Stiftung Mercator, Univ. of Sussex and CSaP on “**Future Directions for Scientific Advice in Europe**” involving EU officials, scientific experts, academy members, etc. Input given on “Why the EU would benefit from assessments”
- Jun 2015 organization of small expert workshop at MCC Berlin with **Clark Miller** (Consortium for Science, Policy & Outcomes, Arizona State University) on solution-oriented GEAs. Presentation on “The Future of Global Environmental Assessment Making”
- May 2015 panel discussion at MCC Berlin with the former EU Chief Scientific Adviser **Anne Glover** on “Scientific policy advice in Europe, lessons-learned and future perspectives”. Input given on “A New EU Mechanism for Expertise in Policy? The Cartography of Alternative Policy Pathways!”
- Apr 2015, together with O. Edenhofer, talk (presented by O. Edenhofer) at **Princeton University** on “Public Policy Assessments: Being Policy-Relevant without being Policy-Prescriptive? Experiences With The IPCC”
- Mar 2015 invited to an expert workshop at KIT Karlsruhe (Germany) for a discussion about and review of new guidelines for the development of energy scenarios for Germany (organized by the German scientific academies acatech, Leopoldina and UNION for their **ESYS project**)



- Feb 2015 participating in high-level expert workshop (including both scientific experts and governmental officials) on “Assessment and Communication of the **Social Science of Climate Change: Bridging Research and Policy**” in Berlin organized by MCC together with the Harvard Project on Climate Agreements, FEEM and Stanford University
- Jan 2015 participated in “**IPCC Expert Meeting** on Potential Studies of the IPCC Process” in Geneva
- Jan 2015 participated in a high-level expert discussion at MCC Berlin with leading representatives of **German science policy**. Input on “Status quo wissenschaftliche Assessments und Fragen zur Diskussion” together with C. Flachsland
- Nov 2014 paper presented on “Principles or pathways? Enhancing the ethics contribution to climate policy” at a workshop on climate ethics at **Oxford University**, Oxford Martin School
- Nov 2014, together with B. Knopf, talk (presented by B. Knopf) on “Klimaforschung in der demokratischen Gesellschaft: können Assessments eine Antwort sein?” at the meeting of the German Climate Consortium (**DKK**) in Potsdam (Germany)
- Oct/Nov 2014 participated in the 40<sup>th</sup> Session of the IPCC plenary in Copenhagen (with O. Edenhofer) where the **IPCC Synthesis Report** was discussed and finalized
- Oct 2014, as stakeholders on invitation by UNEP, participation in UNEP’s **Intergovernmental and Multi-Stakeholder Consultation (IGMS)** on GEO-6 in Berlin. Submission of a report (151pp.) on the work-in-progress conducted under the FOGTEAM project, along with a short background document (policy brief) prepared by MCC, as official inputs to the IGMS.
- Jun 2014 participating in Stiftung **Mercator’s science-policy conference** in Berlin on “Interfaces of Science and Policy and the Role of Foundations”. Together with O. Edenhofer et al. (presented by O. Edenhofer) presentation on “Cartography of policy paths: A new role for science in policy”
- Jun 2014, on invitation, participating in the **German meeting on the IPCC** in Berlin on “Wissenschaftliche Politikberatung: Fazit aus dem Fünften IPCC-Sachstandsbericht”, organized by the German ministries on research and education (BMBF) and the environment (BMUB)
- Jun 2014 organizing a small expert workshop at MCC Berlin with **Peter Haas** (University of Massachusetts Amherst) on global environmental assessments. Presentation on “The Why and How of Policy Analysis in GEAs”
- Feb 2014, on invitation, participating in the **OECD Global Science Forum** workshop on “Scientific Advice for Policymaking and Consequences for the Role and Responsibility of Scientists” in Berlin. Presentation on “Policy assessments: Who is responsible for what?”
- Nov 2013 paper presentation on “How Scientific Assessments Can Help Solve Value-laden and Interest-laden Conflicts in Climate Policy” at the International Conference on the Special Role of Science in Liberal Democracy” (**philosophy of science conference, Copenhagen**)
- Oct 2013 co-organizing the workshop on “The Global Environment Outlook series: Lessons learned and Future Options” at MCC Berlin as part of the FOGTEAM project with leading **GEO assessment authors**. Presentation on “The FOGTEAM project”
- Aug 2013 co-organizing the UNEP-MCC workshop in Nairobi on “GEO-5 and the future of environmental assessment-making” as part of the FOGTEAM project together with **UNEP DEWA**. Talk on “Towards a theoretical framework for global environmental assessment report analysis and design”
- Jun 2013 invited talk on “Kann Wissenschaft etwas zur Lösung klimapolitischer Konflikte beitragen?” for a workshop “Bedroht Entscheidungsfreiheit Gesundheit und Nachhaltigkeit? Zwischen notwendigen Grenzen und Bevormundung” on applied ethics in Berlin organized by the **Junge Akademie at the BBAW and Leopoldina**
- Jun 2013 organizing a small expert workshop at MCC Berlin with **James Wilsdon** (University of Sussex) on research on scientific policy advice nationally and globally. Presentation on “Scientists as cartographers of the political solution space”
- May 2013 observer at the MCC-Harvard workshop (related to **Durban Platform**) at MCC Berlin on climate policy options

- Feb 2013, on invitation, participating in the symposium on scientific policy advice at **University of Sussex** (STEPS center) titled “Credibility across cultures: expertise, uncertainty and the global politics of scientific advice”
- Jan 2013 invited talk on “Mapping energy futures - how to?” at KIT Karlsruhe (Germany) for “Epistemological and Ethical Problems in the Assessment of Energy Futures. Seminar-Week and International Workshop” organized by **Energy Scenarios School, KIT and DFG**
- Nov 2012 talk together with O. Edenhofer (presented by O. Edenhofer) on “Ausbruch aus dem stahlharten Gehäuse der Hörigkeit - Modelle der wissenschaftlichen Politikberatung” at a lecture series in Berlin on scientific policy advice organized by **BBAW and Leibniz Association**
- Dec 2011 paper presentation on value judgments in climate economics scenarios at the **KIT** workshop on climate economics, Freudenstadt/Karlsruhe (Germany)
- Sep 2011 talk on water and human rights as well as panel discussion with **Peter Brabeck-Letmathe** (Nestlé) in Kappel am Albis (Switzerland) at the annual “Forum Kirche und Wirtschaft”
- Jun 2011 organizing and moderating an international workshop on “**Water management options** in a globalised world“ at Lassalle House (Switzerland). Talk given on ethical aspects of water management
- May 2011 invited talk on **Albert Schweitzer’s ethics**, climate change and consumption patterns at a workshop organized by Evang. Akademie Hofgeismar (Germany)
- Nov 2011 participation in **ENRI-future** (ESF network on climate ethics) conference in Bucharest as member of the ENRI-future network on part of IGP Munich (2011–2012). Presentation on normative model for scientific policy advice to the ENRI working group on future scenarios (WG1)
- Oct 2010 presentation on climate justice and climate policy given at meeting of the “**Herausgeberkreis Jahrbuch Gerechtigkeit**,” Frankfurt a.M.
- Jan – Apr 2010 **guest researcher at PIK Potsdam** on scientific assessment making (particularly IPCC) and Integrated Assessment Models (IAMs)
- Nov 2009 presentation given at “**Berliner Forum**” (Berlin) on the IPCC’s economic policy advice (PhD project)
- Nov 2009 short research stay in **Niger** (mainly Niamey). Paper on climate justice presented at conference (multi-stakeholder dialogue) on climate change impacts and adaptation in the Sahel. Exposure program
- Apr 2009 talk on discounting in climate economics at the “Frühjahrsakademie” of the **IZEW** Tübingen (based on accepted paper submission)
- Apr 2009 invited to participate in the conference by The Integrated Assessment Society (**TIAS**) on assessment-making in Brussels
- Mar 2009 poster presentation P57.05 (jointly with M. Reder) on “Ethical Criteria for Climate Policy” at the conference “Climate Change. Global Risks, Challenges & Decisions” in **Copenhagen**
- May 2007 organization and moderation of panel discussion inter alia with **Horst Seehofer** (German Minister for agriculture) on genetically modified organisms (GMO) in agriculture at the Munich School of Philosophy, as part of the student initiative on Fair Trade (initiated and led by M. Kowarsch)

## F) Academic and other teaching activities

### At FernUniversität Hagen:

- Lecture on “Von Klimaphysik zum Lösungsfokus: die Politikberatung im Fall des IPCC”, infernum Präsenzseminar (01 July 2017)
- Lecture on “Wissenschaft und Politik: Lernprozesse durch das gemeinsame Explorieren von Politikalternativen?”, infernum Präsenzseminar (14 Sep 2018)

### At Potsdam University:

- Lecture on “Climate Change and Climate Policy: Understanding the Challenges” for a university seminar by Thomas Hickmann for political science students (20 May 2015)
- ✚ *At KIT, Karlsruhe:*
  - Oct 2014 lecture on “Facts, values and power: What role for the sciences in policy?” at the autumn school of the “Energy Scenario School” for PhD students
- ✚ *At Hertie School of Governance, Berlin:*
  - Sep–Dec 2012 teaching on “Scientific Advice in Climate Policy” jointly with C. Flachsland (Master course, MPP-E1132)
- ✚ *At TU Berlin:*
  - Mar – Jul 2013 teaching activities on conceptions of social welfare (as Tutor; related to Ottmar Edenhofer’s lecture)
- ✚ *At the Munich School of Philosophy:*
  - 2007–2009 Tutor at the Munich School of Philosophy
  - 2006–2011 (co-)teaching at the Munich School of Philosophy: courses on Aristotle’s Nicomachean Ethics; Amartya Sen’s concept of development; Albert Schweitzer’s ethics; climate change justice; climate economics and vulnerability; Max Weber and the social sciences
- ✚ *At the MCC:*
  - Co-supervision of several PhD students since 2012. Finalized:
    - Pauline Rioussset, FU Berlin, May 2016
    - Jennifer Garard, TU Berlin, Nov 2018
- ✚ *At Heinrich-Pesch-Haus, Ludwigshafen:*
  - 2003–2007 political youth education on democracy, political participation, the European Union and globalization as a freelance. Involved in the development of an e-learning project on globalization