

# Daniel Ddiba

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## PUBLICATIONS

### Peer-reviewed articles

Vanhuyse, F., Fejzić, E., **Ddiba, D.**, & Henrysson, M. (2021). The lack of social impact considerations in transitioning towards urban circular economies: A scoping review. *Sustainable Cities and Society*, 103394. doi:10.1016/j.scs.2021.103394

**Ddiba, D.**, Andersson, K., Rosemarin, A., Schulte-Herbrüggen, H., & Dickin, S. (2021). The circular economy potential of urban organic waste streams in low- and middle-income countries. *Environment, Development and Sustainability* doi:10.1007/s10668-021-01487-w

**Ddiba, D.**, Andersson, K., Koop, S.H.A., Ekener, E., Finnveden, G. and Dickin, S. (2020). "Governing the circular economy: Assessing the capacity to implement resource-oriented sanitation and waste management systems in low- and middle-income countries." *Earth System Governance* 100063. doi:10.1016/j.esg.2020.100063

Strande, L., Schöbitz, L., Bischoff, F., **Ddiba, D.**, Okello, F., Englund, M., Ward, B. J., & Niwagaba, C. B. (2018). Methods to reliably estimate faecal sludge quantities and qualities for the design of treatment technologies and management solutions. *Journal of Environmental Management*, 223, 898–907. doi:10.1016/J.JENVMAN.2018.06.100

Oster, M., Reyer, H., Ball, E., Fornara, D., McKillen, J., Sørensen, K. K. U., Poulsen, H. D. H., Andersson, K., **Ddiba, D.**, Rosemarin, A., Arata, L., Sckokai, P., Magowan, E., & Wimmers, K. (2018). Bridging gaps in the agricultural phosphorus cycle from an animal husbandry perspective - The case of pigs and poultry. *Sustainability*, 10(6), 1825. doi:10.3390/su10061825

Gold, M., **Ddiba, D.**, Seck, A., Sekigongo, P., Diene, A., Diaw, S., Niang, S., Niwagaba, C., & Strande, L. (2017). Faecal sludge as a solid industrial fuel: a pilot-scale study. *Journal of Water Sanitation and Hygiene for Development*, 7(2), 243–251. doi:10.2166/washdev.2017.089

### Books and edited volumes

AfDB, UNEP and GRID-Arendal. (2020). *Sanitation and Wastewater Atlas of Africa*. AfDB, UNEP and GRID-Arendal. Abidjan, Nairobi and Arendal. (Several contributors including **Ddiba, D.**).

Tag-Eldeen, Z. N. & **Ddiba, D.** (eds.) (2016). *Global perspectives on sustainable urban and rural development: selected works 2014-2016*, KTH Royal Institute of Technology US-AB Press: Stockholm, ISBN: 978-91-7595-987-0

Tag-Eldeen, Z. N. & **Ddiba, D.** (eds.) (2016). *Contemporary challenges to sustainable development: selected works 2014-2016*, KTH Royal Institute of Technology US-AB Press: Stockholm, ISBN: 978-91-7595-986-3

### Conference proceedings and presentations

**Ddiba, D.** (2019). The sanitation economy and climate change, at the Sanitation Economy Summit, Pune, 18th-21st November, 2019

- Ddiba, D.** (2019). REVAMP: Estimating the circular economy potential of sanitation at city scale, World Toilet Day Webinar by Sida & partners, 21st November, 2019
- Ddiba, D.** (2019). Assessing the governance capacity of cities to implement a circular economy: lessons from Naivasha, First Symposium on Circular Economy for Early Career Researchers, Stockholm, 27th November, 2019.
- Ddiba, D.** (2019). ITP SUWAS and its contribution to the WASH-related SDG targets, in ITP SUWAS City Seminar, Nakuru, 6th November, 2019.
- Ddiba, D.,** Andersson, K., Koop, S. H. A., Ekener, E., Finnveden, G. & Dickin, S. (2019). A diagnostic framework to assess the governance capacity of cities to implement a circular sanitation economy: lessons from Naivasha, Kenya Sanitation Conference, Nairobi, 28th-31st October, 2019.
- Ddiba, D.** (2019). Assessing the governance capacity of cities to implement the circular economy using a diagnostic indicator-based framework, in SEI Innovation and Policy Forum, Nairobi, 15th-17th October, 2019.
- Ddiba, D.** (2019). Lessons from the SEI Initiative on Sustainable Sanitation, in SEI Innovation and Policy Forum, Nairobi, 15th-17th October, 2019.
- Ddiba, D.** (2019). Reflections on the governance of waste management in Kenya, Breakfast seminar - From Trash to Cash, Stockholm, 1st October, 2019
- Ddiba, D.** (2019). Assessing the societal impacts of resource recovery from organic waste streams at city scale, in 2nd Interdisciplinary PhD expert course on Sustainability Assessments for the Low-Carbon Economy at University of Antwerp, 10th-12th September, 2019
- Ddiba, D.** (2019). Unlocking the circular economy in cities: the opportunity in organic waste streams, Research Seminar, World Agroforestry Centre - ICRAF, Nairobi, May 2nd, 2019.
- Ddiba, D.** (2019). How sustainable sanitation can unlock the circular economy and contribute to the SDG agenda, Research Exchange Seminar, Egerton University, Nakuru, April 23rd, 2019.
- Ddiba, D.** (2018). SEI's work at the nexus of sanitation, waste & resource management, World Toilet Day Seminar, Utvecklingscentrum för Vatten, Norrtälje, November 19th, 2018.
- Rosemarin, A., Andersson, K., Arata, L., Ball, E., **Ddiba, D.**, Magowan, E., Oster, M., Poulsen, H., Reyer, H., Fornara, D., McKillen, J., Sørensen, K., Sckokai, P., & Wimmers, K. (2018). Phosphorus efficiency in pigs & poultry: bridging the gaps in the phosphorus value chain, in European Sustainable Phosphorus Conference, Helsinki, June 11th, 2018.
- Ddiba, D.** (2018). Quantifying the resource recovery potential of organic waste streams in cities, in Life Cycle Assessment Modelling of Solid Waste Systems Course at DTU Technical University of Denmark, Copenhagen, June 4th - 10th, 2018.
- Andersson, K. & **Ddiba, D.** (2017). Estimating and visualizing the value of urban waste recovery – The Resource Value Mapping (REVAMP) Tool. In proceedings of the 2<sup>nd</sup> IWA International Resource Recovery Conference (IWARR2019), 5 – 9 August 2017, New York, USA.

Niwagaba, B. C., **Ddiba, D.**, Sekigongo, P., Gold, M. & Strande, L. (2015). Faecal sludge as fuel in industrial kilns for brick production. In proceedings of the 3rd International Conference on Faecal Sludge Management (FSM3), 18 – 23 January 2015, Hanoi, Vietnam.

**Ddiba, D.**, (2013). Mentorship: a missing link in education in Sub-Saharan Africa. In proceedings of the 7th Education without Borders International Conference, 25 – 27 March 2013, Dubai, U.A.E.

## Reports and briefs

SuSanA (2021). WG1 Capacity Development: Capacity development for sustainable sanitation. SuSanA Factsheet for Working Group 1, Sustainable Sanitation Alliance. (Various contributors including **Ddiba, D.**)

**Ddiba, D.** and Waititu, A. (2021). Outcome Report for Nakuru, Kenya. ITP SUWAS 2019C, Niras & WaterAid Sweden, Stockholm.

Waititu, A. and **Ddiba, D.** (2021). Outcome Report for Narok, Kenya. ITP SUWAS 2019B, Niras & WaterAid Sweden, Stockholm.

Waititu, A. and **Ddiba, D.** (2021). Outcome Case Study: Establishment of a County Statistics Office with a pilot for WASH statistics – a change project by Richard Kereto. ITP SUWAS 2019B, Niras & WaterAid Sweden, Stockholm.

Shivaji, S. M., Waititu, A. and **Ddiba, D.** (2021). Outcome Case Study on Equity & Inclusion: Improving access to public sanitation facilities for marginalised groups in Nakuru Central Business District – a change project by Elizabeth Kiptoo. ITP SUWAS 2019C, Niras & WaterAid Sweden, Stockholm.

Fredby, J., Waititu, A. and **Ddiba, D.** (2020). Outcome Case Study: WASH in Early Childhood Development Centers of Flamingo Ward, Nakuru East Sub-County, Nakuru County – a change project by Vhanice Kwamboka. ITP SUWAS 2018C, Niras & WaterAid Sweden, Stockholm.

Mugambi, J. K., Windberg, C., **Ddiba, D.**, Ogol, T., Andersson, K., Gicheru, T. and Akinyi, E. (2020). Setting the stage for the circular economy: Waste resource recovery opportunities in Naivasha, Kenya. Stockholm Environment Institute, Stockholm.

**Ddiba, D.**, Andersson, K. & Ogol, T. (2018). "UrbanCircle: turning urban waste into circular economy benefits." Stockholm Environment Institute (SEI) Project Brief. Stockholm, Sweden.

Schulte-Herbrüggen, H., **Ddiba, D.**, Bhattacharya, P., Kimanzu, N., Andersson, K., Dickin, S., Schulte-Herbrüggen, B. (2017). *Linking water–sanitation–agricultural sectors for food and nutrition security*. Swedish International Agricultural Network Initiative (SIANI) Discussion Brief. Stockholm, Sweden.

Spuhler, D., Adams, M., **Ddiba, D.** and Tempel, A. (2016). SuSanA's Contribution to Agenda 2030 for sustainable development: Position paper of Working Group 1 on Capacity Development. Sustainable Sanitation Alliance (SuSanA).

**Ddiba, D.**, Andersson, K. & Rosemarin, A. (2016). *Resource Value Mapping (REVAMP): A tool for evaluating the resource recovery potential of urban waste streams*. Stockholm Environment Institute (SEI) Discussion Brief. Stockholm, Sweden.

**Ddiba, D.** (2016). Evaluating screening attributes to identify locally appropriate sanitation technology and system options for developing urban areas. Internship report for the GRASP project. Eawag: Swiss Federal Institute of Aquatic Science and Technology. Dübendorf, Switzerland.

Schoebitz, L., Bischoff, F., **Ddiba, D.**, Okello, F., Nakazibwe, R., Niwagaba, C.B., Lohri, C.R. & Strande, L. (2016). Results of faecal sludge analyses in Kampala, Uganda: Pictures, characteristics and qualitative observations for 76 samples. Eawag: Swiss Federal Institute of Aquatic Science and Technology. Dübendorf, Switzerland.

## Popular articles and media coverage

Exploring the circular economy potential of Naivasha's organic waste.

<https://www.sei.org/featured/exploring-the-circular-economy-potential-of-naivashas-organic-waste/> (Feature article by Andersson, K., **Ddiba, D.** and Nzuve, L. – 2021)

How else can we power the planet? <https://www.sei.org/featured/can-poop-power-the-planet/> (Podcast interview with among others **Ddiba, D.** on CBC – 2021)

The Kenya Sanitation Conference showed we know what to do – now it's time to do it <https://www.sei.org/perspectives/kenya-sanitation-conference/> (Perspective article by **Ddiba, D.** – 2019)

Three fresh perspectives on sanitation for all <https://www.sei.org/featured/three-fresh-perspectives-on-sanitation-for-all/> (Media feature by Liera, C., **Ddiba, D.** & Ekane, N. for World Toilet Day – 2019)

The Mad Science Plan To Power The World With Poop <https://www.sei.org/about-sei/press-room/media-coverage/the-mad-science-plan-to-power-the-world-with-poop/> (Media interview with Ddiba, D. on Gizmodo – 2019)

REVAMP: Bringing urban waste into the circular economy <https://www.sei.org/featured/revamp-urban-waste-circular-economy/> (Feature article by Andersson, K. & **Ddiba, D.** – 2019)

Der Schatz aus der Toilette [The treasure from the toilet], <https://www.welt-sichten.org/artikel/33466/der-schatz-aus-der-toilette> (Media interview with among others **Ddiba, D.** in the Welt-sichten Magazine – 2018)

Money from waste? Revamp your view on sanitation <https://www.sei.org/perspectives/money-waste-revamp-view-sanitation/> (Perspective article by **Ddiba, D.** on World Bank Water Blog – 2018)

Do you know the value of your city's sewage? <https://www.sei.org/perspectives/value-of-city-sewage/> (Perspective article by **Ddiba, D.**, Rosemarin, A. & Andersson, K. on Sustainable Cities Collective – 2016)

## Theses

**Ddiba, D.** (2020). "Exploring the circular economy of urban organic waste in sub-Saharan Africa: opportunities and challenges." Licentiate Thesis Stockholm, Sweden: KTH Royal Institute of Technology, TRITA-ABE-DLT, 2016, 2020.

**Ddiba, D.** (2016). *Estimating the potential for resource recovery from productive sanitation in urban areas*. KTH Royal institute of Technology, TRITA-LWR Degree Project 2016:13, 86 pp.

**Ddiba, D.** & Namukwaya, B. D. (2013). *Design of a model irrigation scheme that utilises groundwater in the cattle corridor area of Uganda*. BSc thesis, Department of Civil and Environmental Engineering, Makerere University.

### **Further details about publications**

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Google Scholar Profile: <https://scholar.google.se/citations?user=WFGdLKQAAAAJ&hl=en>