2021 KU Leuven Facing the Future: "How to increase societal impact?"
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Proceedings of the parallel session "Honours Programme Transdisciplinary Insights" (TDI 2020-2021)

Program

17h15 – 17h20	Introduction by the Institute for the Future
17h20 – 17h45	STEAM+: Transforming higher education through collaborative play
17h45 – 18h10	InclusiVaart. (Re)defining shared neighborhood spaces
18h10 – 18h35	Conceptualising Open Science in the 21st Century
18h35 – 19h00	Coronavirus Pandemic Preparedness

Conceptualising Open Science in the 21st Century

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Abstract

Open Science that is adaptive to the complexity of the 21st century is emerging in transdisciplinary institutions outside of academia. Despite its growing popularity and plurality as a movement, the scope in which Open Science is practiced and discussed inside academia is still mostly restricted to the scientific community and fragmented between disciplinary silos. Researchers and policymakers promoting Open Science often focus on knowledge translation and still recognise experts and academia as the main producers of knowledge, essentially closing the research process to non-researchers

and preventing other perspectives from being integrated into knowledge production. Our aim with this project was to adopt a systems perspective to understand how Open Science can address the challenges in the current knowledge production system. Open discussions among the team members revealed distinct understandings of what constitutes Open Science. Thus, during our process we collated these many definitions of Open Science and extracted the dimensions that underlie such definitions and mapped how these dimensions could be interconnected in a more comprehensive conceptualisation of Open Science. Future iterations of the challenge could build on our reflections and explore how these Open Science dimensions translate into scientific practice and how researchers

can be encouraged to reflect on Open Science in a more systems-oriented way. Our findings have been summarised in a small video.¹

Key words

reproducibility, systems approach, knowledge production system, sustainable research model, research wast

Title of the original challenge

Open Science and Reproducibility
(<https://rega.kuleuven.be/if/open-science-and-reproducibility>)

¹ The video was presented at the Symposium 'KU Leuven Facing the Future', Leuven, 5 May 2021, and is available on https://kuleuven.mediaspace.kaltura.com/media/OpenScience_video/1_yqx2mvbt.