

12-12-2022

Critical Systems Management: Information Standardization and Society

Natalia Kapralova
University of Glasgow, n.kapralova.1@research.gla.ac.uk

Follow this and additional works at: https://aisel.aisnet.org/treos_icis2022

Recommended Citation

Kapralova, Natalia, "Critical Systems Management: Information Standardization and Society" (2022). *ICIS 2022 TREOs*. 36.

https://aisel.aisnet.org/treos_icis2022/36

This material is brought to you by the TREO Papers at AIS Electronic Library (AISeL). It has been accepted for inclusion in ICIS 2022 TREOs by an authorized administrator of AIS Electronic Library (AISeL). For more information, please contact elibrary@aisnet.org.

Critical Systems Management: Information Standardization and Society

Natalia Kapralova, n.kapralova.1@research.gla.ac.uk

To date standardization in critical systems has been studied from the perspectives of vertical and horizontal processes. Vertical information systems (IS) standardization has become the key scholarly research in the context of sector and industry-wide interactions of various system's elements (Markus et al., 2006; Scott and Orlikowski, 2022). Alongside the study of vertical IS standardization there have been studies of horizontal processes. Horizontal IS standardization in the critical systems has been studied in the context of the Electronic Health Records (Kohli and Tan, 2016; Galetsi et al., 2019). However, it remains unclear how these vertical and horizontal IS standardization processes address social inequalities in critical systems. Therefore, the purpose of this TREO talk is to explore the links between vertical and horizontal IS standardization processes and the existing social inequalities. The discussion of the TREO talk is contextualized within the National Health Services of Scotland (NHS Scotland, UK). Vertical and horizontal IS standardization processes is viewed from the perspectives of a wide range of the health system's stakeholders, such as policymakers, managers, clinicians and patients. Social inequalities are viewed from the perspectives of the healthcare improvement processes and the challenges within the public healthcare. The TREO talk is multidisciplinary and contributes not only to the existing scholarly work on tensions between social disparities and IS standardization (Cruz and Paine, 2021), but also addresses practitioners' concerns about health services digitalization and social inequalities that deteriorated further during COVID-19 (Toh and Brown, 2020).

References

Cruz, T.M. and Paine, E.A., 2021. Capturing patients, missing inequities: Data standardization on sexual orientation and gender identity across unequal clinical contexts. *Social Science & Medicine*, 285, pp 1-9.

Galetsi, P., Katsaliaki, K. and Kumar, S., 2019. Values, challenges and future directions of big data analytics in healthcare: A systematic review. *Social Science & Medicine*, 241, pp. 1-9.

Kohli, R. and Tan, S.S.L., 2016. Electronic Health Records. *MIS Quarterly*, 40(3), pp.553-574.

Markus, M.L., Steinfield, C.W. and Wigand, R.T., 2006. Industry-wide information systems standardization as collective action: the case of the US residential mortgage industry. *MIS quarterly*, pp.439-465.

Scott, S. and Orlikowski, W., 2022. The digital undertow: how the corollary effects of digital transformation affect industry standards. *Information Systems Research*, 33(1), pp.311-336.

Toh, A. and Brown, D., 2020. *How Digital Contact Tracing for COVID-19 Could Worsen Inequality*. [online] Available at: <https://www.hrw.org/news/2020/06/04/how-digital-contact-tracing-covid-19-could-worsen-inequality>.