



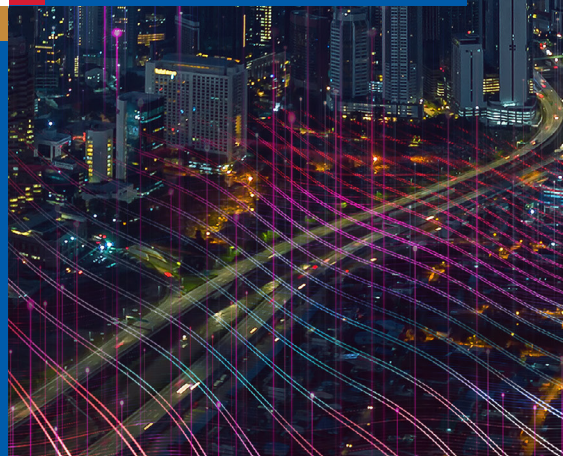
UNIVERSITEIT VAN PRETORIA  
UNIVERSITY OF PRETORIA  
YUNIBESITHI YA PRETORIA

Graduate School of  
Technology Management



## INVITATION

### VIRTUAL PUBLIC SEMINAR



# MANAGING RESILIENCE AND SUSTAINABILITY OF ENGINEERED ASSET SYSTEMS

**You are invited to attend a Virtual Public Seminar, hosted by the Department of Engineering and Technology Management, Graduate School of Technology Management.**

There is increasing understanding of the need to operationalise resiliency and sustainability for socio-economic inclusivity, liberal politics and sustainable development. The lecture will provide a brief review of the twinned concepts of resilience and sustainability from a number of perspectives. The conceptual model is that hyper interconnected and interdependent socio-economic-political cyber physical systems are inextricably interwoven within the environment and ecology. Thus, the composite engineered asset systems not only contain inherent vulnerabilities but also, they are subjected to supervening transient, intransigent and evolutionary stressors emanating from normal and extraordinary socio-economic-political actions, *casus fortuitus* and other *vis major* events. The lecture will expound an argument on the paramountcy of managing of engineered asset systems that underpin, facilitate, and accelerate the fusing of socio-economic activity and socio-political endeavour within the world of environment and ecology, albeit via digitalised platforms that encompass technological evolutions of cyber physical artefacts.

Tuesday, 23 November 2021  
17:50 for 18:00 to 19:00

#### PROGRAMME

- 17:50 Participants login – BBC (*link will be provided to registered participants*)
- 17:55 Welcome: Prof Elma van der Lingen: Chair, Graduate School of Technology Management
- 18:00 Keynote Presentation: Prof Joe Amadi-Echendu
- 18:40 Discussions
- 18:55 Closing Remarks: Prof Elma van der Lingen

#### BIOGRAPHY

Joe Amadi-Echendu is a professor at the Graduate School of Technology Management, EBIT Faculty at the University of Pretoria. He specialises in the management of Engineering and Technology, and has been consulted on a variety of issues regarding technology commercialisation and entrepreneurship, greenfield capital development projects in the mining, metal processing and gas liquefaction fields.

Joe's knowledge and expertise have been sought throughout Africa, Europe, through to the Middle and Far East. He has co-edited 6 books, sole-authored a book and authored/co-authored over 150 articles in various technical publications worldwide.

Joe obtained the chartered engineer status in the UK and he is a registered professional engineer as well as a NRF rated researcher in South Africa. Joe served as an experienced researcher in the recently concluded European Union Horizon 2020 MSCA RISE Project 645733 (2014-2018) on the Sustainable Design and Management of Industrial Assets through Total Value and Cost of Ownership.

Prof Amadi-Echendu is a Founding Fellow, director and current Chair of the Board of Directors of the International Society of Engineering Asset Management ([www.iseam.org](http://www.iseam.org)), as well as a director and current Board Treasurer of the International Association for the Management of Technology ([www.iamot.com](http://www.iamot.com)).

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