Integration of transportation and transit systems into lively urban infrastructure systems requires extensive and genuine collaboration between scientists, engineers, policy makers, politicians and society. The goal of this presentation is to provide an interface among the engineering, scientific and general communities to foster applied research contributions from the critical steps of resilience thinking to the first steps of engineering and the adoption of engineered systems to meet the needs of individuals, societies, regions, industries and countries. The presentation will address life cycle and sustainability of transportation infrastructure systems, which is extremely crucial for design, construction, maintenance and operations of the infrastructure systems exposed to extreme events. The presentation will highlight collaborative research for improving sustainability and resilience in transportation and transit systems to enhance urban environments.Aligned with United Nation’s Sustainable Development Goals, the presentation will also demonstrate how a new 6D BIM can be used to enhance sustainability and resilience in industry.

Zac (Dr Sakdirat Kaewunruen) has extensive experience in the field of structural, civil and track engineering both in industry and in academia. With over 14 years in rail industry prior to joining academia, he has wide variety of specialisations, including rail engineering, track design, track components, structural and geotechnical engineering, maintenance and construction. He is a Chartered Engineering in both Civil & Structural Colleges. With 500+ technical publications and evidence-based authoritative reports, Zac is the UK Principal Scientist and a member of ISO and BSI standard committees for railway sleepers and recycling of rolling stocks. He also coordinates EU-funded RISEN (www.risen2rail.eu). He is a Specialty Chief Editor of Frontiers in Built Environment.

For questions, please contact the host, Prof. Junho Song at junhosong@snu.ac.kr

Thursday, May 16, 2019, 11:00-12:00
Room 316, Bldg. 35