Title: "New School of IT: A new Paradigm for IT Organizations and how it contributes to Engineering Data Driven Systems"

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Abstract:

IT faces a number of grand challenges. Its organization has to reconcile the conflict between robustness and resilience on the one hand side and innovation and new business models on the other hand side. This demands for an ambidextrous attitude. The next challenge is to adopt the opportunities of cloud native systems (including the need to renovate existing systems or even application landscapes). And, most probably most important, data driven systems have to be engineered and operated. In this keynote we sketch the paradigm of a "New School of IT" and we discuss key requirements for engineering data driven systems. A number of examples from real world projects are discussed.

Biography:

Volker Gruhn holds the chair for Software Engineering at the University of Duisburg-Essen/Germany. His research interests in this field of investigation are mobile applications, software processes, cyber-physical systems and digital transformation methods. Before that he held the chair for Applied Telematics and e-Business at the Computer Science Department of University of Leipzig. His research interests were software architectures, mobile applications, and distributed software processes. An application focus was on point-of-sale systems and online solutions for mobile systems. He received a diploma degree (1987) and a PhD (1991) both in computer science from the University of Dortmund. Volker Gruhn is author and co-author of about 330 national and international journal and conference articles. He founded the software company adesso in 1997, where currently more than 6.300 persons are employed. The company specialises in consulting and tailored development of software for core business processes. adesso's strategy has three pillars: extensive industry knowledge

of its employees; comprehensive technological competence, regardless of the software manufacturer; and tried-and-tested methods for the implementation of software projects. The core industries adesso serves include insurance/reinsurance, banking and financial services, healthcare, lotteries, energy suppliers, automotive sector, public transportation and retail.