



**Dr. Uday Kumar**  
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**Luleå University of Technology, Luleå, SWEDEN**

Webinar on Saturday 20 th January 2024

**Abstract**

Digital transformation symbolizes a paradigm shift in the management and utilization of engineering assets. The integration of digital technologies such as IIoT, AI, cloud computing, 5G/6G technologies etc. into engineering asset management processes, offers unprecedented opportunities for enhanced efficiency, predictive maintenance, and overall operational excellence. On the other digital transformation brings about a convergence of technological, business, and governance dynamics, posing known and unknown sets of challenges for organizations venturing into this paradigm shift.

This presentation explores the key components of digital transformation in engineering asset management, including sensor networks for real-time monitoring and data acquisition, data analytics for predictive maintenance, and AI-driven decision support systems. The presentation also examines the technological, business and governance related challenges arising from the need to restructure operational models, redefine customer interactions, and adapt to rapidly evolving market landscapes. By synthesizing insights from industry practices, and experiences from our case studies, R&D projects, etc., the presentation provides an overview of the multifaceted challenges that organizations face in the pursuit of digital transformation of engineering asset management practices.

**YouTube link**

<https://youtu.be/juwIGOh44k>



**Lt Gen Dr Anil Kapoor**

**AVSM, VSM (Retd.)**

**Vice President & Chairman National Advisory Committee, AMSI**

Webinar on Saturday 17 th February 2024

**Abstract:**

The womb to tomb journey of an asset is a complex journey which starts with ideation to address an unmet need or capability and goes through a grueling life cycle of design, development, , production, storage, deployment, exploitation, obsolescence, upgrade and finally discard. Asset based Mission readiness is uppermost on the mind of all asset managers and CXOs in the Corporate World alike. 'Will my machine be able to do a continuous Mission Pulse of ten days without any major intervention to meet surge production? Do the engines have the residual life to complete the Mission on the ship? Will my assets under storage perform their designated life when put to use – a residual shelf life challenge ? How do we delay the asset management and maintenance interventions to when the order book is lean ?.....these and many more such questions confront professionals seeking ASSET VISIBILITY for Enhanced Mission Effectiveness. The new technology landscape is defined by 4Ds – Data, Digitization, Digitalization and Disruption. This has propelled into a tenacious spiral of digital transformation, which in the continuum of time is revolutionising our lives at an unprecedented pace. MRO through an info system approach provides and insight into why, when, how and what. CBMM is an idea the time of which has come. In fact, we stand on the brink of a technological revolution that will fundamentally alter not only business processes but also business practices. AM 5.0, is the new normal. CBMM is disrupting MRO practices in almost every industry globally. The breadth and depth of the technological value addition towards condition monitoring herald the transformation of entire systems of design and engineering management of assets.

**YouTube link**

<https://youtu.be/7r0qN4zpf7M>



**Prof. Gopi Chattopadhyay**  
**Coordinator for Postgraduate courses in Maintenance and**  
**Reliability Engineering (MRE)**  
**Federation University Australia (FedUni)**

Webinar on Saturday 16 th March 2024

**Outline of talk:**

Asset management, in line with ISO55000 standards, encompasses any item, entity, or thing with actual or potential value to an organization and its communities. Effective asset management contributes to the retention and realization of value throughout an asset's lifecycle by enhancing reliability, availability, maintainability, safety, and security. This session covers how asset management supports businesses in reducing costs, mitigating risks, and enhancing performance through risk-informed decision-making.

**YouTube link:**

<https://youtu.be/fAwBgm4TMc>



**Ashay Prabhu**  
**International Advisor GFOA (CEDCP)**  
**ACEAM, Melbourne**

Webinar on Saturday 20 th April 2024

**Abstract:**

As infrastructure like transport, rail, facilities, water, ports and bridges starts to age, governments reach a point where the cost of replacing them far outweighs the rate at which they get consumed. This position is typically called infrastructure deficit. Strategic Asset Management is a budget optimisation method that can equip government agencies to reduce this deficit - often without increasing capital spend. Across the globe the annual savings are in the range of multiple trillions, once the practice is established.

The practice of SAM is very simple; it is about simulating future scenarios based on asset life cycle and performance. By simulating future costs and service levels/asset health, government agencies can develop a long-term asset plan that delivers best value for money. In this webinar, Ashay Prabhu International Advisor to the GFOA will explore how thousands of agencies around the world are applying SAM to unlock hidden capital. With an interactive Q&A and all based on real case studies, participants will be provided with methods and practices of SAM based on the International Infrastructure Management Manual.

**YouTube link**

<https://youtu.be/5jFqPwVvXNg>



**Prof. Sardar M. N. Islam (Naz)**  
**Professor at Victoria University, Australia.**

Webinar on Saturday 18 th May 2024

**Abstract:**

Artificial intelligence (AI) and machine learning (ML) have been incorporated into asset management and automation, resulting in a substantial shift in how organisations manage their resources and the efficiency with which they carry out their operations. Computing based on quantum mechanics, also known as quantum computing, is regarded as a disruptive force that has the potential to speed up these breakthroughs. This session aims to examine the current state of artificial intelligence and machine learning in the field of intelligent asset management and automation, with a particular emphasis on their potential applications in the future. It will investigate the ways in which traditional computing approaches and new quantum computing methods are similar and different from one another. The seminar aims to equip professionals, researchers, and students with the information they need to understand and use cutting-edge technologies in their respective fields of work.

**YouTube link:**

<https://youtu.be/Z7vmTHB4qFY>



**Col (Prof) Aditya Parida, PhD, Veteran  
Prof (Retd), Luleå University of Technology, Sweden**

Webinar on Saturday 15 th June 2024

**Abstract:**

The prevailing economic downturn, looming global recession, volatile energy and asset prices with increasing budgetary cuts with emerging technologies like, AI and big data analytics have compelled the organizations to manage its assets competitively for survival and growth. As per ISO 55001:2014, performance evaluation is fundamental to asset management system. Asset performance management (APM) is a recognized process for supporting growth, sustainability and return on investment.

It is hard for an organization to improve the present level of performance of the eassets without performance management. Therefore, all functions, units and processes of the organization need to be built and developed as per asset management; ISO 55000 standard. The challenges in APM are to prepare a strategic road map from top management level to the operational level to monitor and control unplanned downtime. Other challenges are to define and develop methods for right data collection, application of AI and big data analytics for right decision making. The success of an organization will depend on taking care of the challenges while defining, developing and implementing APM system.

**YouTube link**

<https://youtu.be/W02pgioPTzQ>



**Mr. Martin Kerr**  
**Managing Director – Structured Change & Applying Asset Management**

Webinar on Saturday 20 th July 2024

**Abstract:**

This presentation will share how asset management was used to support a joint venture between an Australian and Indian company in Kolkata, India. Each company has its own culture and preference in their approach to program delivery, which can work for or against objectives. Asset management was the approach taken to bring these two companies together to create alignment, manage risk, navigate change, and most importantly, to realize value. The experience of this joint venture reconfirmed that an Asset Management System (AMS) shouldn't just be compliant with a standard, but an organization should receive value from their AMS as the starting position.

**YouTube link**

<https://youtu.be/JsIAOLFyAMA>



**Sanjay Chakrabarti**  
**Founding Partner, tag8**  
**Mumbai**

Webinar on Saturday 17 th August 2024

**Abstract:**

This presentation on "Smart Asset Management Solutions" will delve into a scalable platform specifically designed for tracking and maintaining fixed assets in industrial settings. It emphasizes key features such as real-time asset tracking, automated alerts, and seamless ERP integration, all of which work together to enhance asset visibility, automate maintenance tasks, and improve overall operational efficiency. Attendees will discover how advanced technologies like QR codes, RFID, and RTLS enable accurate tracking without the need for manual scanning. This presentation will also reveal how businesses have achieved up to a 75% reduction in reconciliation time and significantly improved data synchronization by utilizing these solutions.

The talk will highlight the benefits of automated scheduling and maintenance tracking, which contribute to improved inventory accuracy, reduced replacement costs, and enhanced regulatory compliance. Real world case studies will demonstrate the practical applications and tangible advantages of this platform, showcasing how companies can achieve substantial improvements in asset management processes. By attending this presentation, participants will gain valuable insights into optimizing asset management strategies, driving operational success, and ensuring financial accuracy. The session will provide a comprehensive understanding of how to leverage cutting-edge technologies to streamline asset management operations and maintain a competitive edge in today's dynamic industrial environment.

YouTube link

<https://youtu.be/Tg9uPvSLWB4>