



AI & Digitalisation in Modern Workflows
 Keynote - Merrik Bengis
 Panel Discussion

	Jolene Durant & Boipelo Shomang	Carla Ralph	Atlegang Molefe & Nyasha Nyatsine	Morne Fouche, Nick King, Natasha Henning	Thabang Ramatosa	Wynand Steenkamp & Jason Grieve	Gerrie Mocke & Douglas Breytenbach	Pieter Botha & Augustine Schenck
SESSION 1	Autodesk Cloud Solution for Plant 3D Explore how Autodesk's cloud solutions streamline the design, engineering, and management of plant projects with Plant 3D. Learn about collaborative tools, data accessibility, and workflow enhancements that improve project efficiency and accuracy.	Streamlining Workflow Automating Repetitive Tasks with AI in Photoshop and Firefly	Digital Vision - Eyes that never blink Building Tomorrow - AI Revolutionising the Construction Industry	AEC to 0: Cutting-edge Design Tools Join this exciting journey from AEC to Operations as we unveil the power of the Modena Digital Twin Platform. Discover how Autodesk's cutting-edge design tools, Matterport's immersive 3D data, AWS's robust real-time analytics, and ESRI's advanced GIS technology come together to revolutionise your projects. Experience enhanced efficiency, reduced costs, and smarter decision-making. Don't miss out on transforming your operations with the latest in digital twin technology!	Transforming AEC Workflows Explore the transformative power of automation in the (AEC) industry, with a particular focus on developing automated applications within Revit software. As AEC professionals face increasingly complex project demands, the need for innovative solutions to enhance efficiency and precision is critical.	Surface Channel Design and Analysis in Civil 3D with IDAS & AI Surface channel designs can take a lot of time, especially if you don't have the historic rainfall data of that specific area. Yes, Civil Engineers can be STUBBORN when it comes to CHANGE. But we can show you that change, like asking AI for assistance to help us with surface channel designs, can help you save time on these designs. AI is still young and developing, but even at these early stages, it can assist us by growing ourselves to become more efficient.	Design Automation with Inventor Pro Discover how Inventor Pro's design automation capabilities can revolutionize your engineering processes. Create smart, automated designs that reduce repetitive tasks, increase productivity, and ensure consistent quality in your projects.	Turffontein Project: A Case Study in Precision Explore the innovative processes behind the Turfontein project, from data capture with Faro Point Cloud to as-built modeling, design updates, and visualization. Learn how these advanced tools transformed the project into detailed renders and VR walkthroughs, showcasing precision and creativity.
	Arthur van Wyngaard & Morgan Conradie Delve into the end-to-end workflow offered by Fusion Industry Cloud, from 3D scanning to printing. Understand how integrated tools facilitate seamless transitions between scanning, designing, and manufacturing, resulting in faster and more efficient production cycles.	AI PC or AI-Ready Mobile Workstation – Let's make the right choice! This presentation explores MEP (Mechanical, Electrical, and Plumbing) technologies, focusing on Electrical Systems. Learn how Building Information Modeling (BIM) and automation transform design, construction, and maintenance. Discover how Revit MEP and PyRevit enhance efficiency, accuracy, and collaboration.	The Digital Revolution in MEP An exclusive demonstration of our FARO 3D Laser Scanners, where you'll learn about each scanner's capabilities and their ideal applications in the field. We'll also walk you through how the data is seamlessly integrated at the final stages, showcasing the full workflow from scanning to completed deliverables. Perfect for professionals looking to optimise their 3D scanning processes.	From Field Application to Final Deliverables using 3D Laser Scanning Architecture as we all know is an ever evolving industry, and has already steeped itself into the AI realm and integrating with new technologies. But to what extent has AI truly integrated into architectural processes? What are the capabilities, and what are the limitations?	Vrushali Shah The AEC industry can harness the power of location intelligence to improve efficiency, optimise resource allocation, and build smarter, more resilient infrastructure. Tools like GIS and BIM, when integrated with location data, offer unparalleled insights that drive the industry forward into a data-driven future.	Cláudio Ângelo Duarte (ESRI) Explore the crucial differences between how humans and AI learn, and discover why ongoing human training remains vital. We'll dive into the unique social and collaborative aspects of learning that AI cannot replicate and discuss how striking the right balance between AI-driven efficiency and human expertise is key to future success.	Xavier Modena Learn how Digital Twins can predict maintenance needs early, optimise operations, and support efficient asset management. This session highlights how these systems provide real-time insights and integrate with management tools for improved building maintenance to foresee issues and streamline long-term building operations.	Bhaveshan Naidoo & Leon Muofhe Digital Twins for Asset Management & Maintenance
SESSION 2	Fusion Industry Cloud End-to-End Workflow Delve into the end-to-end workflow offered by Fusion Industry Cloud, from 3D scanning to printing. Understand how integrated tools facilitate seamless transitions between scanning, designing, and manufacturing, resulting in faster and more efficient production cycles.	AI PC or AI-Ready Mobile Workstation – Let's make the right choice! This presentation explores MEP (Mechanical, Electrical, and Plumbing) technologies, focusing on Electrical Systems. Learn how Building Information Modeling (BIM) and automation transform design, construction, and maintenance. Discover how Revit MEP and PyRevit enhance efficiency, accuracy, and collaboration.	The Digital Revolution in MEP An exclusive demonstration of our FARO 3D Laser Scanners, where you'll learn about each scanner's capabilities and their ideal applications in the field. We'll also walk you through how the data is seamlessly integrated at the final stages, showcasing the full workflow from scanning to completed deliverables. Perfect for professionals looking to optimise their 3D scanning processes.	From Field Application to Final Deliverables using 3D Laser Scanning Architecture as we all know is an ever evolving industry, and has already steeped itself into the AI realm and integrating with new technologies. But to what extent has AI truly integrated into architectural processes? What are the capabilities, and what are the limitations?	Vrushali Shah The AEC industry can harness the power of location intelligence to improve efficiency, optimise resource allocation, and build smarter, more resilient infrastructure. Tools like GIS and BIM, when integrated with location data, offer unparalleled insights that drive the industry forward into a data-driven future.	Cláudio Ângelo Duarte (ESRI) Explore the crucial differences between how humans and AI learn, and discover why ongoing human training remains vital. We'll dive into the unique social and collaborative aspects of learning that AI cannot replicate and discuss how striking the right balance between AI-driven efficiency and human expertise is key to future success.	Xavier Modena Learn how Digital Twins can predict maintenance needs early, optimise operations, and support efficient asset management. This session highlights how these systems provide real-time insights and integrate with management tools for improved building maintenance to foresee issues and streamline long-term building operations.	Bhaveshan Naidoo & Leon Muofhe Digital Twins for Asset Management & Maintenance
	Jolene Durant & Gerrie Mocke Navigate the landscape of Autodesk's data management solutions, including Vault, Upchain, and Autodesk Construction Cloud (ACC). Learn how to choose the right system for your organization to enhance collaboration, improve data integrity, and streamline project management.	Robyn Daly Realtime Ray tracing and Scene exploration	Nikayle Govender Real-time digitalization represents a significant leap forward for the construction industry, offering substantial benefits in efficiency, accuracy, and cost management.	Claire du Pont Lessons from AI Manufacturing for Construction	Diego Rizzo & Pieter Botha Discover the capabilities and benefits of using FARO Sphere XG in your projects. This event will highlight how FARO Sphere XG enhances collaboration, data management, and project efficiency, empowering you to streamline workflows and achieve superior results. Perfect for professionals seeking cutting-edge solutions for 3D scanning and data integration.	Augustine Schenck & Hloni Mavuso Discover how As-Built for Revit software can streamline your modeling process. This session will focus on best practices and efficient workflows, demonstrating how to optimise the software for faster and more accurate results.	Josh Modena Journey into the world of 3D digital art and see how innovative designs come to life through 3D printing. Explore key 3D software tools, with a focus on Fusion's popularity. Discover how 3D printing benefits both artists and engineers, transforming industries. Real-world examples will showcase how businesses and entrepreneurs are leveraging these technologies to innovate. Be inspired by the limitless possibilities.	Fusion to filament
SESSION 3	Finding the Right Data Management Solution Navigate the landscape of Autodesk's data management solutions, including Vault, Upchain, and Autodesk Construction Cloud (ACC). Learn how to choose the right system for your organization to enhance collaboration, improve data integrity, and streamline project management.	Insight into Vantage Realtime Ray tracing and Scene exploration	Transforming Construction - Digitisation on the Modern Job Site Real-time digitalization represents a significant leap forward for the construction industry, offering substantial benefits in efficiency, accuracy, and cost management.	Lessons from AI Manufacturing for Construction Lessons from AI Manufacturing for Construction	Maximise Project Efficiency with 3D Scanning and Data Integration Discover the capabilities and benefits of using FARO Sphere XG in your projects. This event will highlight how FARO Sphere XG enhances collaboration, data management, and project efficiency, empowering you to streamline workflows and achieve superior results. Perfect for professionals seeking cutting-edge solutions for 3D scanning and data integration.	Accelerating As-Built Modeling with Revit Discover how As-Built for Revit software can streamline your modeling process. This session will focus on best practices and efficient workflows, demonstrating how to optimise the software for faster and more accurate results.	Fusion to filament	

