



JULY 7-8, 2020 | Online Event

Day One: Tuesday July 7, 2020

9:00 EST: Capturing the Value of Digital Twins: How To Jumpstart Your Digital Twin Journey and Drive ROI Fast

Digital Twins offer the opportunity to oil and gas companies to use the information they have at their fingertips to reduce operating expenses, accelerate production and make better – and faster - decisions. By replicating physical equipment or processes in a virtual environment, the technology allows companies to optimize asset management and operating processes in the virtual world before applying them in the real one.

This opening panel will discuss:

- Deconstructing digital twins: project vs performance
- Securing leadership buy-in and commitment
- Understanding how the use case for digital twin technology can vary depending on the project lifecycle
- Getting the most ROI from your digital twin projects: Identifying what generates the most value vs just what the technology can do
- Changing the way people work to realize value
- Digital twins: how to uncover efficiencies at a rapid pace
- Understanding the technology options: where to begin
- Integrating suppliers into existing workflows to make the process seamless

Ken Nguyen, Digital Program Manager, BP

David Hartell, EVP, Developments, Operations & Production, New Age African Global Energy

Chris White, Global Director Operations & Engineering Excellence, ConocoPhillips

Panel Moderator: Sudhir Nelvagal, Vice President, Engineering, Owl Cyber Defense

10:00 EST Move the Dial of Digital Transformation by Creating a Digital Twin of Your Organization

- What it takes to kick-start a digital initiative whether a transformational or a smaller change
- Creating a digital twin of your organization - a dynamic navigator connected to real-time data that aligns strategy to execution
- How to translate the desired business outcomes into operational indicators that can be used to monitor progress and optimize operation

Dana Kawas, Co-Founder & CEO, Thynkli

11:00 EST Business Continuity via Simple and Data Rich Digital Twins

- Enhancing the value of your existing systems and data
- Eliminate data silos and enable data-based decisions across your organization
- Find out the easiest first step on your digital transformation journey - in 48 hours!
- Learn how visual analysis improves comprehension and understanding in asset ownership
- Eliminate asset information loss during handover: Your data lives with the entire asset lifecycle from concept to demolition
- Learn how to improve bid certainty by giving contractors access to asset information without having to travel to site
- Support physical distancing protocols by reducing field exposure hours and improving remote collaboration

David Lod, CEO, VEERUM

12:00 EST: Fabrication: The Missing Piece of Your Digital Twin

- What critical elements are missing in the Digital Twin, today?
- What is the value to the project owner (actual owner/plant owner) of including the fabrication stage as part of the DT life cycle?
- Why is Fabrication not included as part of the digital twin process?

Ray Simonson, CEO, Glove Systems

1:00 EST: The Digital Twin Journey: Practical Steps and Lessons Learned to Accelerate Implementation and Deliver Real Value

- Understand how to start a digital twin journey from where you are today – with your existing assets, legacy systems, data and communications infrastructure – and how to start delivering value quickly
- The data foundation – its importance, challenges and pitfalls

- Accelerators to digitise your data – how to extract information from different systems and sources effectively
- Building models and running simulations – from simple models to complex simulations, what to use when and why
- Leveraging edge technology to run simulations in real-time
- Generating predictive insights to improve asset performance
- Real business use cases for generating measurable value

Helen Gilman, Consulting Partner, **Wipro**

Ganesh Bukka, Business Segment Leader - Industrial & Engineering Services, **Wipro**

Day Two: Wednesday July 8, 2020

9:00 EST: *Modernization & Transformation Initiatives On Mad Dog 2: BP's Dynamic Digital Twin*

- BP's digital twin journey: from project initiation to longer-term autonomous operation
- Understand the processes through which the Dynamic Digital Twin is giving BP a representation of not one but a combination of systems, from production to reservoir
- How digital data is being aggregated, normalized and transformed into life-like visualization to provide immediate, tangible business value
- Quantifying ROI on a digital twin project, including:
 - Cost savings
 - Operational and process efficiencies
 - Reduction in safety and operational risk (SAOR)
- Immersive quality inspection using mixed reality and creating a next-gen collaborative environment

Ken Nguyen, Digital Program Manager, **BP**

10:00 EST: *The Living Digital Twin with a Leading Oil Major*

Using an use case of a leading Oil Major, we review what makes it “living”, the economic an sustainability value, and the true digital transformation that it enables.

Stan DeVries, Senior Director Digital Acceleration Consulting, **AVEVA**

11:00 EST The Need for Performance Twins: Predict, Prescribe and Forecast

- Implementing Digital Twins is becoming a strategic necessity for many industrial companies. Although demand has increased, requirements and expectations have eroded, especially those of Digital Twin models
- Learn the basics of how Digital Twin models should be built, how to scale & implement these models on assets and systems to create a twin and discover best practices for how to leverage these twins operationally to Predict, Prescribe and Forecast performance degradation as a part of your reliability work processes.
- From building a 300+ asset blueprint catalog, an installed software base of over 420 customers globally and remotely monitoring 7000 assets around the world with quantified loss avoidance of over 1.5 Billion dollars, GE is working directly with customers to build and operationalize Digital Twins in harmony with their business processes and asset management functions.

Jared Hartness, Director Industry Solutions, GE Digital

12:00 EST: Creating Value from Data: Reducing emissions, Enhancing Safety, Increasing Profitability

There are number of aspects of digital twins, not just modelling service or simulation service. A critical element is data and information management. Most E&P operators have 10-20 terabytes of data that haven't been looked at, with 90% of that data created in the last two years alone.

Now operators want to harness that data. But there are myriad of challenges holding them back. This presentation will address some critical data-related challenges and questions to truly allow operators to activate and make use of data to make better decisions.

- What infrastructure do operators need to have in place to bring it data together
- How does the data flow and how do you separate good data from bad data
- Once data start to flow, how is it sent back and what can you glean from it
- What does the data dashboard look once key performance indicators are integrated into it
- The use of data engineering techniques and software to put all the data together in the cloud so that everyone in the enterprise can have some way of utilizing it
- How to ensure the quality of your data is accurate and accessible in one central location

Fakhri Landolsi, COO DIGITAL COE, Head of Data Science, North America, Equinor