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# SPE Virtual Workshop: Digital Week Asia Pacific Digital and Data Driven Oilfield

24 - 26 NOVEMBER 2020 | VIRTUAL [UTC+8]



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## Who Should Attend

Professionals involved in:

- Artificial Intelligence
- Augmented Reality/Virtual Reality
- Cloud Computing
- Data Processing and Interpretation
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- Digital Twins/3D Modelling/Laser Scanning/Pointed Cloud
- Drilling Automation
- Enhanced Asset Security
- Field Develop Acceleration
- HSE
- Industry 4.0
- Internet of Oilfield Things (IoT)
- Machine Learning
- Network and Cyber Security
- Operational Excellence and Technologies
- Predictive Analytics
- Production Forecasting and Optimisation
- Production Technology and Engineering
- Real-Time Reservoir Surveillance and Monitoring
- Seismic Survey
- UAV/UAS/Robotics



The world is declaring digitalisation is the future and the possibilities are endless, the ever-changing situation has become the “new normal” and has given rise to ground-breaking solutions. Businesses have seized upon current events to increase the usage of remote working and various digital platforms, accelerating the impact of digitalisation. As companies are driven to evolve, they are confronted with opportunities and risks. What further challenges does the industry need to realise and overcome in this transition? This is crucial in enabling successful deployment and application of digital technologies, including digitalisation’s impact on global stage in terms of sustainability and helping to reduce of our carbon footprint.

The energy sector has been playing an integral role in fuelling the needs of the global market and with the implementation of digitalisation and going virtual, the industry is incorporating innovation in new and transformational ways, companies not only see its importance but its necessity to keep the industry moving. SPE Virtual Workshop: Asia Pacific Digital Week 2020 will take a deep dive into the industry’s digital journey and discuss what are the next steps in embracing this historical shift.

## WORKSHOP ADVISORS



Mohammad Kamal Hamdan  
Senior Reservoir Engineer  
**PTTEP**  
Vice Chairman, SPE Asia Pacific Regional Technical Advisory Committee



Rahim Masoudi  
Chief Technical Officer (CTO), Group Technical Authority & Custodian - Reservoir Engineering, Resource Development & Management, Malaysia Petroleum Management, Upstream Business  
**PETRONAS**  
Member, SPE Asia Pacific Regional Technical Advisory Committee

## CO-CHAIRS



Sittapong Settapat  
Chief of Data Architecture and Engineering  
**PTTEP**



Haitao SUN  
SIS Operations Manager - South & East Asia (SEA)  
**Schlumberger**

## Session Highlights

Digital Transformation - Cross-Industry Sharing

Digital Infrastructure - What Does Digital Technology Means for the O&G industry?

Improving Efficiency, Reliability and Safety in E&P with Digital Technologies

New Realities of Remote Working - Burnout, Benefits and Economic Implications

Building A Digital Culture

Data Science Inspired Digital Tools to Unlock New Values in E&P

Digital Impact on New Energy

Energy Transition and Sustainability

Strategic Partnerships in the Digital Era

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## Programme Objectives

It will explore how digital technology solutions such as cloud/GPU high-performance computing, machine learning, data science, augmented reality, blockchain, robotic and automation, and the industrial IoT, are being used both within the industry and in other relevant businesses to optimise performance and collaboration. Leaders and experts from across the industry will share their insights and experiences on digital transformation and culture, strategic partnerships and digital's impact on new energy and sustainability.

## Why Participate

**25+** industry and subject matter expert speakers

**6** focused technical sessions

**12+** technical presentations

**Welcome Remarks, Keynote Address, and Panel Sessions** featuring senior executives and industry leaders



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## Technical Programme Committee

### CO-CHAIRS



Sittapong Settapat  
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and Engineering  
**PTTEP**



Haitao SUN  
SIS Operations Manager -  
South & East Asia (SEA)  
**Schlumberger**

### TECHNICAL PROGRAMME COMMITTEE

Hans-Christian Freitag  
Vice President Intelligent Software Solutions  
**BakerHughesC3.ai**

Panu Boonwattanopas  
ASBU Digital Champion  
**Chevron Thailand Exploration and Production**

Jason Kok Chin Hwa  
Chief Executive Officer  
**Grit Energy Sdn Bhd**

Masatoshi Nishi  
Deputy General Manager, Digital  
Transformation Unit, Technical Division  
**INPEX Corporation**

Srikant Kadambi  
Managing Director, Energy & Resources, Asia  
**Microsoft**

Siriwat Vorachan  
Team Leader, Digital Data Management  
**Mubadala Petroleum**

Vipin Prakash Gupta  
Specialist Reservoir Engineer  
**PETRONAS Carigali Sdn Bhd**

Ruzanna Mohd Khalid  
Manager, Resource Development  
**PETRONAS**

Uday Shankar  
Principal Reservoir Engineer  
**PETRONAS**

Christopher Townend  
Digital Business Owner and DELFI Champion  
**Schlumberger**

Nigorn (Gorn) Mungkung  
Subsurface Technical Solutions Division (GST)  
**PTTEP**

Nikhil Chaturvedi  
Vice President & Leader, Industry Engineering -  
Energy & Natural Resources  
**SAP Asia Pacific**

Fahd Saghir  
Industry Solutions Manager – Upstream O&G  
**Schneider Electric**

Manoj Kumar Mohapatra  
Digital Transformation Business Development  
Manager  
**Schlumberger**

Toon Puttisounthorn  
Account Manager  
**Schlumberger**

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Engineering, Resource  
Development & Management,  
Malaysia Petroleum Management,  
Upstream Business  
**PETRONAS**  
Member, SPE Asia Pacific  
Regional Technical Advisory  
Committee

## Programme Schedule

Tuesday, 24 November 2020			
1300 - 1330 hours	Welcome Remarks and Keynote Address		
1330 - 1430 hours	<b>Session 1</b> Panel Discussion - Digital Transformation - Cross-Industry Sharing		
1430 - 1500 hours	Networking Break		
1500 - 1630 hours	<table border="1"> <tr> <td> <b>Session 2</b>            Digital Infrastructure - What does Digital Technology Mean for the O&amp;G industry?         </td> <td> <b>Session 3</b>            Improving Efficiency, Reliability and Safety in E&amp;P with Digital Technologies         </td> </tr> </table>	<b>Session 2</b> Digital Infrastructure - What does Digital Technology Mean for the O&G industry?	<b>Session 3</b> Improving Efficiency, Reliability and Safety in E&P with Digital Technologies
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1630 - 1700 hours	Networking Break		
Wednesday, 25 November 2020			
1300 - 1430 hours	<b>Session 4</b> Panel Discussion - New Realities of Remote Working - Burnout, Benefits and Economic Implications		
1430 - 1500 hours	Networking Break		
1500 - 1630 hours	<table border="1"> <tr> <td> <b>Session 5</b>            Building A Digital Culture         </td> <td> <b>Session 6</b>            Data Science inspired Digital Tools to Unlock New Value in E&amp;P         </td> </tr> </table>	<b>Session 5</b> Building A Digital Culture	<b>Session 6</b> Data Science inspired Digital Tools to Unlock New Value in E&P
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1630 - 1700 hours	Networking Break		
Thursday, 26 November 2020			
1300 - 1430 hours	<b>Session 7</b> Panel Discussion - Digital Impact on New Energy		
1430 - 1500 hours	Networking Break		
1500 - 1630 hours	<table border="1"> <tr> <td> <b>Session 8</b>            Energy Transition &amp; Sustainability         </td> <td> <b>Session 9</b>            Strategic Partnerships in the Digital Era         </td> </tr> </table>	<b>Session 8</b> Energy Transition & Sustainability	<b>Session 9</b> Strategic Partnerships in the Digital Era
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1630 - 1700 hours	Networking Break		

## Technical Programme Preview

### TUESDAY, 24 NOVEMBER 2020

1300 - 1330 hours **Welcome Remarks and Keynote Address**  
**Co-chairs:** *Sittapong Settapat, PTTEP; Haitao Sun, Schlumberger*

1330 - 1430 hours **Session 1: Panel Discussion - Digital Transformation - Cross-Industry Sharing**  
**Session Managers:** *Mohamad Kamal Hamdan, PTTEP; Ruzanna Mohd Khalid, PETRONAS*

Digital transformation is shaped according to various business appetite and “end game” visions. Some relate to enablement of People, Technology & Process, while others invest extra efforts in niche capabilities and value-driven technology. This session will discuss the crucial question: What does it take for a company to be successful in their digital transformation? The session will feature senior executives from various E&P companies and other industries who have undergone a digital transformation journey, sharing their strategies, approaches, processes and lessons learnt. While it prevails that not one size fits all, adoption and replication are what make the industry thrive through the decades.

1430 - 1500 hours Networking Break

1500 - 1630 hours **Session 2: Digital Infrastructure – What Does Digital Technology Means for the O&G industry?**  
**Session Managers:** *Srikant Kadambi, Microsoft; Sittapong Settapat, PTTEP*

Digital infrastructure is defined as the ability to store, process, exchange and serve data through information technology. The key enabling technologies are not limited to the physical assets that are required to operate such as networks, communication, computing and data storage, but also include new information technology infrastructure such as cloud technology, big data technology, 5G and IoT networks; in addition to modern application architectures such as container, API, serverless architecture and so on.

The Digital Infrastructure is not just “an ability”, it is something real that stands behind the digital transformations of economics and business. It is a core of digital transformation. This session will provide insights into cutting-edge information technology and cloud, to ensure a strong foundation can be laid down for digital transformation.

**Session 3: Improving Efficiency, Reliability and Safety in E&P with Digital Technologies**  
**Session Managers:** *Hans-Christian Freitag, BakerHughesC3.ai; Panu Boonwattanopas, Chevron Thailand Exploration and Production*

In today’s environment, with an oil price reset and demand erosion due to the pandemic, the industry is looking for novel ways to reduce personal and process safety risk, Non Productive Time (NPT) and unplanned production outages, whilst simultaneously improving returns by driving cost reduction, production optimization and yield improvements. Down-manning in the field, the move to Remote Operations and the subsequent transition to predictive and prescriptive analytics and thereafter to automation are pathways currently actively being explored for all stages in the Life of a Field. Fortunately, recent years have seen significant advances in Machine Learning (ML) and Artificial Intelligence (AI), building on the UAS and IIOT, access to Big Data and Elastic Cloud Computing. Accessing and amalgamating existing data into a holistic and federated data image, enabling Subject Matter

Some of these areas include:

- Cloud technology (Public/Private)
- Data centre, big data technology, no SQL database, graph database
- Modern network and connectivity (5G, IoT)
- Modern application architectures (Container, API, serverless architecture)
- Cybersecurity

Experts of all concerned disciplines to become “Citizen Data Scientists”, focusing their efforts on finding cost effective solutions, rather than the data, promises to be deliver on the urgent requirements of delivering predictable outcomes for the industry - across the Life of Field and for the entire Production System of the Future, from reservoir to refinery.

Additionally, in recent years, the combination of HD computer vision, enabled through AI and paired with robots designed for operations in environments hazardous to humans is evolving at a rapid pace, delivering benefits in terms of cost reduction and HS&E improvements. AI enabled AR/VR is finding its way into collaboration teams as well as the training and education sector.

1630 - 1700 hours Networking Break

### WEDNESDAY, 25 NOVEMBER 2020

1300 - 1430 hours **Session 4: Panel Discussion - New Realities of Remote Working - Burnout, Benefits and Economic Implications**  
**Session Managers:** *Haitao Sun, Schlumberger; Nikhil Chaturvedi, SAP Asia Pacific*

Office work is the result of the Industrial Revolution. At that time, the machine power was centralised and efficient remote communication was impossible. Factories and offices, therefore, were established in cities. Fast-forward to the 21st century, the access to computing power and communication through the internet has become a reality. Knowledge jobs (as we have many in our industry) is more getting paid based on their function and results rather than office hours.

The concept of remote working is not new. However, the Covid-19 pandemic imposed the most significant remote working experiment in human history. It offered us a perfect opportunity to re-think the concept of office work. Shifting to remote working has created far-reaching consequences to both employers and employees. It impacts almost every aspect of our professional and personal lives, such as:

- Enterprise culture
- Creativity and productivity
- Professional relationships and young generation of professionals
- Work-life balance and mental health
- Gender equality and career progression

This panel session will share insights of remote working from different perspectives, and to brainstorm on how best to embrace this change in the E&P industry.

1430 - 1500 hours Networking Break

1500 - 1630 hours **Session 5: Building A Digital Culture**  
**Session Managers:** *Nigorn Mungkung, PTTEP; Siriwat Vorachan, Mubadala Petroleum; Jason Kok Chi Hwa, Grit Energy Sdn Bhd*

In today's world, companies are adopting more and more digital technology to further enhance their businesses. An organisation must be willing to transform and build a digital culture to fully benefit from digitalisation. People, technology, and process are the main elements in digital transformation, what are the capabilities and skills companies need to equip their discipline workforce to embrace this revolutionary shift. We will share experiences and learn how digital technology could positively support the petroleum industry to efficiently and profitably extract hydrocarbon while maintaining the highest HSE standards.

This session will discuss how to change and instil a growth mindset, create digital talent, empower employees, and attract new talent, along with exploring knowledge management, organisational structure management, and change management. We will also delve into the changing work lifestyles, and how to handle shifting cultures in addition to responses from people throughout an organisation.

**Session 6: Data Science Inspired Digital Tools to Unlock New Values in E&P**

**Session Managers:** *Manoj Mohapatra, Schlumberger; Christopher Townend, Schlumberger; Vipin Prakash Gupta, PETRONAS Carigali Sdn Bhd*

This session will explore how best to manage challenges within the context of E&P business value, and approaches that can be taken to solve them using digital tools. So far, the adoption of 'digital' has unlocked significant value across upstream activities for global E&P players. Emerging high-end digital technology is an integral part of how data is analysed. Examples are becoming more pervasive and their access democratised, driven by accelerated digital transformation, and is not limited to the traditional user base.

As these technologies mature and develop further, companies can unleash a new phase of value generation from understanding and adopting these new technologies:

- Examples of unconventional end users experimenting with AI/data science tools for data-driven outcomes
- Empowering the new citizen data scientist to impact their day-to-day performance and overall business value
- Open Subsurface Data Universe (OSDU): Vendor neutral standards-based ecosystem driving digital innovation
- The role of information and knowledge management to enable insight generation from new digital tools

1630 - 1700 hours Networking Break

**THURSDAY, 26 NOVEMBER 2020**

1300 - 1430 hours **Session 7: Panel Discussion - Digital Impact on New Energy**  
**Session Managers:** *Nikhil Chaturvedi, SAP Asia Pacific; Nishi Masatoshi, INPEX Corporation*

“New Energy” encompasses renewable sources of energy such as solar power, wind power, and geothermal. The primary objectives behind “New Energy” are sustainability, environmental friendliness and compliance, cleanliness and cost-effectiveness. This has also given rise to the concept of “prosumers”; in essence, consumers who are also power producers. Proliferation of prosumers has given rise to Distributed Energy Resources (DERs) and it is a challenge for utilities to manage this complex grid, network and net-billing. “Energy storage” through new advanced types of batteries is also changing energy supply dynamics and making renewable energy competitive.

Oil and gas companies have already undertaken various initiatives to diversify, grow and integrate into the “New Energy” area. Digital technology impacts every function, including capital asset planning and construction, operations and maintenance, human resources and procurement, and commercial aspects such as net-billing and e-Commerce. This panel discussion will bring together industry stalwarts with rich knowledge in New Energy to discuss techno-commercial implications.

1430 - 1500 hours Networking Break

1500 - 1630 hours **Session 8: Energy Transition & Sustainability**  
**Session Managers:** *Uday Shankar, PETRONAS; Fahd Saghir, Schneider Electric*

Energy transition and sustainability is the shift from fossil fuels to more sustainable forms of energy such as wind, solar, and others. This transition is inevitable due to the increasing scarcity of resources as well as to reduce the greenhouse gas emissions, and thus minimise the serious impact towards climate change.

This transition is not going to happen overnight and is expected to take up to 30 years, by 2050. For example, the previous transition from wood to coal and from coal to oil and gas, took more than 50 years each. Meanwhile, the world would still be negotiating with the conventional oil and gas industry. Moving forward, the path to energy transition has two major components, and this session will discuss and deliberate on topics such as:

1. Handling the transition from oil and gas to renewals by making the oil and gas industry more responsive to climate change through embracing technologies and steps such as:
  - Cutting down on CO2 emissions to achieve zero emissions
  - Maturing new technologies to counter greenhouse effects, such as Carbon Storage, Utilisation and Sequestration (CCUS)
  - Developing low-cost, low carbon, and low sulphur fuels
  - Having a carbon pricing / carbon tax mechanism in place
2. Digital integration along the pathway to renewable energy. With digitalisation being the fourth industrial revolution, it is destined to play a stellar role in the route towards energy transition and sustainability:
  - Big data and advance analytics
  - Role of Artificial Intelligence
  - Block chain applications in the maturing of renewal energy

**Session 9: Strategic Partnerships in the Digital Era**  
**Session Managers:** *Hans-Christian Frietag, BakerHughesC3.ai; Srikant Kadambi, Microsoft*

This session will reflect on the current environment – the oil price reset, the demand erosion due to the pandemic, and how the industry is finding novel ways to survive and thrive. Whilst “Digital Transformation” is gaining traction with many operators and service providers, it is important to note that digital readiness, digital capability, and the ability to deploy digital solutions at production scale vary significantly, from upstream to downstream sectors. However, there is a common belief identified: the need to transform existing data into value.

With the industry facing a ‘call to action’ to develop smarter systems and AI-assisted decision-making process, more and more companies are measuring production and business value through the context of reducing costs and risks and improving efficiency across the entire value chain.

Given the challenges and opportunities at hand, the industry requires a unique combination of competencies, skillsets, and capabilities that no single technology or service provider company can deliver. Thus, over the last year or so, we have witnessed a number of press releases on the formation of “strategic partnerships” between operators, oil field service companies, cloud providers, instrumentation and automation specialists, established and start-up ML and AI providers and more. This session will take a closer look at why such strategic partnerships matter and evaluate the cornerstones of success.

1630 - 1700 hours Networking Break

## Register and join the sessions at your local time:

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0900 hours	-	Abu Dhabi / Dubai / Muscat
1030 hours	-	New Delhi
1130 hours	-	Yangon
1200 hours	-	Bangkok / Hanoi / Jakarta
1300 hours	-	Bandar Seri Begawan / Beijing / Kuala Lumpur / Perth / Singapore
1400 hours	-	Tokyo / Seoul
1430 hours	-	Adelaide
1500 hours	-	Brisbane
1700 hours	-	Wellington

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- c. Resource documents may be provided as pre-reads and during the live event.

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