

Digitalization and Automation in the Oil and Gas Industry – Challenges and Opportunities

When: June 18, 2018, 8:15-16:45

Where: Stock Exchange Conference Center, 2 Ahuzat Bayit St., Tel Aviv, Israel

Target Audience:

- **Oil and Gas companies:**
CTOs, VPs Innovation, VPs Operations, senior management of Technology, Engineering, and Innovation departments
- **Oilfield Service companies:**
VPs Digitalization/Digital Oilfield/Integrated Operations, senior management of Technology and Innovation departments
- **Israeli Technological companies:**
CEOs, CTOs of companies in fields related to industrial digitalization, industrial automation, and industrial cyber security.

Rationale and objectives:

The oil and gas industry is facing dramatic challenges. The need to increase efficiencies and cut costs, the thrive to increase productivity and further exploit known reservoirs, and the need to comply with strict HSE regulations, are all key drivers for some major changes in the way the industry has been operating in recent decades.

It is clear that technology and innovation, and more in specific, digitalization and automation technologies, are increasingly integrating into the oil and gas industry and are becoming key enablers for the industry to successfully address the challenges it is facing.

Israel, coined globally as the "Start-Up Nation", is a global innovation hub, with the highest share, globally, of R&D investments as a percentage of GDP, and hosting over 300 R&D centers of multinational companies, for many, the only R&D center out of their home countries.

Israel has been traditionally strong in ICT-related technologies, and today has a thriving ecosystem abundant of researchers, start-ups, accelerators, incubators, mature

companies, MNCs, and investors in fields such as Industrial IoT, big data & analytics, AI & machine learning, deep learning, machine vision, AR/VR, scalable computing systems, cloud environment, unmanned systems, blockchain, industrial cyber security, and more.

All those capacities Israeli industry excels in could create immense value in the oil and gas industry. Clearly, this will happen only through dialogue and cooperation between key players from the oil and gas industry and Israeli technological companies, discussing the challenges the oil and gas industry is facing and innovative technologies and solutions that have the potential to successfully address those challenges.

The "Digitalization and Automation in the Oil and Gas Industry – Challenges and Opportunities" event, organized by the **Israel Innovation Authority**, is designed to do exactly that: create a focused and qualitative platform for discussion on challenges the oil and gas industry is facing, and innovative technologies that bears the potential to successfully address them.

Program Agenda:

8:15-9:00	Registration
9:00-9:10	Opening remarks Aharon Aharon, CEO, Israel Innovation Authority
9:10-9:30	Keynote: The role of digitalization on the transformation the oil and gas industry is going through Max Everett, Chief Information Officer, US Department of Energy
9:30-10:40	Overview Moderator: Gil Shaki, Senior Director Energy, Israel Innovation Authority <ul style="list-style-type: none">• Tamar & Leviathan: Current state of activity Ori Loewenstein, Gas Marketing Manager, Noble Energy Israel• Karish & Tanin: Current state of activity Dr. Stephen Moore, Chief Growth Officer, Energean• Levant basin hydrocarbon potential and future developments Dr. Miki Gardosh, Head of Geology & Geophysics, Ministry of Energy, Israel• How will the future Digital Oilfield look like? Eric Abecassis, CIO, Schlumberger• What are the "hotspots" for tech investments in the upstream industry? Luis Alcoser, Venture Principal & Upstream Technology Manager, BP Ventures
10:40-11:00	Coffee Break
11:00-12:15	Control & Automation Systems Moderator: Zvi (Kul) Karcz, VP Exploration, Delek Drilling <ul style="list-style-type: none">• Combining equipment health and production optimization Sergio Sama, Director, Field Enablement & Strategic Positioning, Baker Hughes GE• The usage of advanced applications in natural gas transmission pipelines Yehiel Viner, Electrical and Control Division Manager, INGL• How to address environmental concerns with predictive maintenance? Ohad Nahari, Process Engineer, Carmel Olefins, Bazan Group• Using AR technologies for maintenance of critical equipment Evyatar Meiron, CEO, Fieldbit• Pitching session of innovative solutions
12:15-13:30	Analytics, Artificial Intelligence & Machine Learning Moderator: Eldad Weiss, Founder and ex CEO, Paradigm <ul style="list-style-type: none">• Using drilling data analytics to drive performance efficiencies Dan Burch, Engineering Supervisor Onshore Drilling, Noble Energy• Domain expertise with digital enablement: transforming the way we work, from subsurface characterization to production operations Stephen Warner, Technical Marketing Manager Western Hemisphere, Schlumberger• How could AI and GPU-accelerated computing reduce the cost of finding, extracting, processing and delivering oil and gas? Rammy Bahalul, Director, Autonomous Machines and Vehicles, Nvidia• The digitalization journey of completion and production phases Sebastian Krocza, Industry Solutions Advisor, Landmark, Halliburton• Pitching session of innovative solutions
13:30-14:15	Lunch Break
14:15-15:15	Unmanned Systems Moderator: Shmuel Bornstein, Senior Investment Associate, OurCrowd <ul style="list-style-type: none">• The role of unmanned systems in the future oilfield Bertrand Langlois, Digital Transformation Director, TechnipFMC• Automating subsea oil and gas activities Ran Kuris, CEO, K&H Maritime• Automated drones: obtaining data with less risk, less downtime Efrat Fenigson, VP Marketing, Airobotics• Autonomous heavy duty machinery: higher productivity, reduced cost, increased safety Elad Abbo, Business Development Manager, Robotic Systems, Israel Aerospace Industries• Pitching session of innovative solutions
15:15-16:15	Cyber Security Moderator: Yanir Laubstein, Global Cyber Security Director, PwC <ul style="list-style-type: none">• Current cyber threats and known attacks in the oil and gas industry Eyal Sela, Head of Threat Intelligence, Clearsky• Industry cybersecurity challenges and trends Yaki Almoznino, CIO, Noble Energy Israel• Check Point approach and solution to the oil and gas industry Mati Epstein, Business Development Manager, Critical Infrastructure, Check Point• Cyber protection for offshore exploration and production activity Colin Blou, VP Sales, Claroty• Pitching session of innovative solutions
16:15-16:45	Refreshments and networking

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* The program is subject to changes