

## News Release

### **CAD-IT Singapore and Portek International Pte Ltd entered into a contract to develop a Smart Port System**

**SINGAPORE, 28 September 2022** – CAD-IT and Portek International Pte Ltd have signed a contract for the development of a Smart Port System. The contract signing ceremony brings together two eco-conscious organizations to co-implement sustainable solutions to embark on a port digitalization program after detailed surveys and analysis of the pilot port.



*Photo taken during the signing ceremony involving Mr. Terence Chan, CEO of CAD-IT; Mr. Eiichi Uriu, CEO of Portek International Pte Ltd and Mr. Ishida Kiichi, AM of Mitsui Japan.*





This is in line with Portek International Pte Ltd vision which aims to reduce costs and expand sales through efficiency improvements and optimization for the Portek's portfolio of terminals.

### **Testimonials on the Collaboration**

“Portek is a subsidiary of Mitsui & Co., Ltd. of Japan, which is working to improve productivity, strengthen competitiveness, and create new business models by integrating the various sites of Mitsui's global portfolio with the power of digital,” said Mr. Atsushi Inoue, Deputy GM, Mitsui Japan DX. “Leveraging on Mitsui's established global network, Portek is able to deliver enhanced knowledge and solutions in port business, as we combine Portek's niche capabilities and “can-do” spirit with Mitsui's resources.”

“Collectively with Mitsui DX rich experiences, this Port Digitalization program gives us the opportunity to contribute towards sustainability and end-to-end visibility of port operation via digital transformation for future-ready ports. The digital solution from this collaboration is repeatable, scalable, and implementable in Portek's portfolio of terminals as well as potential client ports. This sets the foundation for future digital transformation collaborations across Portek and Mitsui's terminal businesses.” said Mr. Terence Chan, CEO, CAD-IT group of companies.

“Portek aspires to utilize the unique combination of port engineering, port management and port information technology expertise to enhance our efficiencies and capabilities quickly. We must be able to generate, analyze, and utilize real-time critical data to make quick, accurate evidence-based decisions. This is necessary to provide better value-add services to our customers and other related stakeholders to grow our business in the shortest possible time. With the collaboration from Mitsui DX and CAD-IT, Portek is glad to embark on this journey to transform the way port operation and engineering can be conducted especially for the small and medium size ports and terminals. We aim to develop solutions to allow easy adoption of IoT and AI to enhance productivity and sustainability in all aspects of port operations and engineering.” added Mr. Kong Kok Chee, CIO, Portek International Pte Ltd.

### **CAD-IT: Industry 4.0 Capabilities**

CAD-IT delivers end-to-end Industry 4.0 solutions encompassing Engineering Simulation, Industrial IoT, System Integration, Predictive Maintenance, AI Analytics, Digital Twin and more. Providing a wide range of solutions from consulting, project implementation to localized technical support, the company has delivered numerous digital transformation projects in various verticals across APAC, Europe and North America.

CAD-IT is glad to be Portek International Pte Ltd trusted partner in the digital journey of transforming and improving the port operations commencing with this Port Digitalization program, which includes the overall port operational intelligence, container truck tracking, crane condition monitoring, maintenance and engineering coupled with machine learning predictions using PTC ThingWorx, the market-leading IoT Platform, deployed on Microsoft Azure cloud. Smart Port IIoT solution will be developed for the berth and yard operational improvement by combining operator

inputs, crane parameters and port operational information as the data sources. Data collected is utilized to calculate the operational performance, crane performance and engineering maintenance KPIs.

### **Rising demand for a Smart Port Solution in the industry**

Ports have been a major component of the global economy as it carries around 80% of worldwide trade <sup>[1]</sup> and highly affect economic development in different industries. Especially in this post-pandemic, when the demand for shipping goods is highly rising, many containers are stuck in the port waiting to be unloaded, causing a supply chain crisis in the world <sup>[2]</sup>. The load-unload process in the port is equipped with cranes and other heavy lifting equipment, which makes port as one of the most dangerous workplaces. Occupational Safety and Health Administration (OSHA) in the US reported that 1 in 1000 maritime crane operators suffer a fatal injury caused by mechanical or operator error <sup>[3]</sup>, which can be minimized when the equipment alarms are monitored in real-time and maintenance gets notified. Hence, port digitalization is necessary to improve port operations and safety. Converting the traditional port to a smart port will enable the tracking of shipments more efficiently and securely.

Diverse players in this industry have started pursuing digitalization of varying degrees to move the entire ecosystem forward and to achieve sustainability. Through this collaboration, CAD-IT Singapore and Portek International Pte Ltd are committed to contributing towards sustainable development in maritime, improving the economies of scale for our clients, partners and communities around the world.

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[1] Psaraftis, H.N. The Future of Maritime Transport. In International Encyclopedia of Transportation; Elsevier: Amsterdam, The Netherlands, 2021; pp. 535–539. ISBN 9780081026724

[2] The pandemic economy's latest victim? The lowly shipping container. NPR. [online assess: <https://www.npr.org/2021/11/16/1055131668/shipping-container-demand-supply-chain-delay>]

[3] Maritime Cargo and Crane Injuries. Maritime Injury Guide. [online assess: <https://www.maritimeinjuryguide.org/maritime-equipment-injuries/cargo-crane/>]

### **About CAD-IT**

Established in 1991 and headquartered in Singapore, CAD-IT provides Industry 4.0 solutions and services, enabling companies and their supply chains to achieve greater product innovation, quality, and productivity with reduced time-to-market and operational costs. CAD-IT has successfully delivered numerous global Digital Transformation projects. Recently, CAD-IT is named a winner of Dun & Bradstreet Business Eminence Award for 2022. Visit [www.caditglobal.com](http://www.caditglobal.com) to connect with us.



## **About Mitsui & Co., Ltd.**

Mitsui & Co., Ltd (8031: JP) is a global trading and investment company with a diversified business portfolio that spans 63 countries/regions in Asia, Europe, North, Central & South America, The Middle East, Africa and Oceania.

Mitsui has over 5,400 (Consolidated 44,300) employees and deploys talent around the globe to identify, develop, and grow businesses in collaboration with a global network of trusted partners. Mitsui has built a strong and diverse core business portfolio covering Mineral & Metal Resources, Energy, Infrastructure Projects, Mobility, Chemicals, Iron & Steel Products, Food, Food & Retail Management, Wellness, IT & Communication Business, Corporate Development Business. For more information on Mitsui & Co's businesses visit, [www.mitsui.com](http://www.mitsui.com).

## **About Portek International Pte Ltd**

Portek, headquartered in Singapore has offices in over 10 countries throughout Asia, Europe and Africa, with a staff strength of about 2200 employees, is a subsidiary of Mitsui & Co., Ltd. of Japan.

## **Appendix**

PTC ThingWorx IoT Platform is a complete, end-to-end technology platform designed for the industrial Internet of Things (IIoT). It delivers tools and technologies that empower businesses to rapidly develop and deploy powerful applications and augmented reality (AR) experiences. Flexible and purpose-built for IIoT, ThingWorx empowers industrial enterprises to digitally transform every aspect of their business with innovative solutions that are simple to create, easy to implement, scalable to meet future needs, and accelerate time to value.

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