For Industry [Digital Twins / MODEC・Shape]

Digital Twins / MODEC and Shape

- **FPSO for Mining Development Project off the Coast of Brazil**
- ◆ Used IoT to accumulate operational data
  Built digital twins for topside (crude oil and gas production facilities)

  ➤ **Reduced downtime by a maximum of 65%**

- ◆ **Recognized** at the World Economic Forum (WEF) in January 2020 as a **Lighthouse** (meaning guiding light, benchmark) **factory with the world's most advanced technology** capable of leading the fourth industrial revolution

- ◆ **Shape** established in **Singapore and Rio de Janeiro, Brazil** as companies that provides **AI-based failure prediction services / GHG Emission reduction / Visualizing safety risk and mitigation by AI. Track records with IoCs.**

  ➤ Also collaborated with Microsoft and McKinsey & Company.

  ➤ Plans to provide its services to the electric power, mineral and **metal resources**, iron and steel, **chemicals**, and **paper manufacturing industries** in addition to **the oil and gas industries, such as FPSO**.

Image provided by MODEC, Inc.