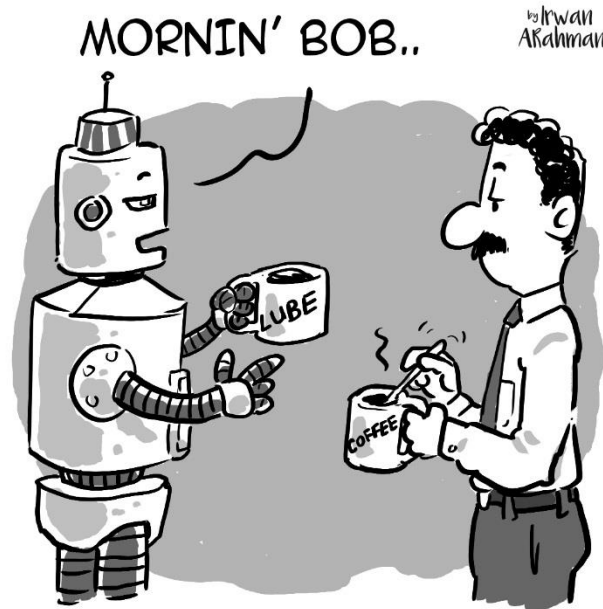


# FACILITIES OF THE FUTURE



The combination of the price plunge since 2014, maturing / ageing assets, and finite supply of resources have raised a significant sense of urgency all around to future-proof assets and business. Preventive and reactive measures such as to defer acquiring costly parts, minimise project scope, and pare down costs in the supply chain have no doubt proven to be effective in the short-term. Yet a forward-looking, sustainable solution is key to improve profitability and maximise investment outcome in the long run.

In mid-2017, Facilities of Future (FoF) was identified by PETRONAS as a potential focus area to create a much-needed paradigm shift within the conventional energy business. For the industry, it is envisioned to employ cutting-edge, innovative and audacious concepts and technologies to achieve the following targets:

- To significantly minimise CAPEX of new platforms
- To substantially lower OPEX of new facilities
- To considerably reduce risk to personnel

FoF acknowledges the need to adopt and adapt to the new frontier of digital technology – real-time remote monitoring and controls implemented on offshore platforms allow for leaner operations as well as lowering risk to personnel by reducing mobilisation and contact time within hazardous environments.

In the facilities domain, FoF is casting eyes into subsea-operated facilities to reduce operational and abandonment costs as well as integration of renewable power to existing offshore platforms to reduce fuel gas consumption. Along those lines, FoF has recorded several case studies related to fast deployment of pilot projects such as shallow water subsea factory demonstration and offshore renewable power generation.

With the right technologies and skill sets, and a dash of courage to rethink current boundaries, facilities of the future will not only give a much needed facelift to the industry, but is strategically poised to create new benchmarks in the energy sector.

Corporate Supporting Organisation



**PETRONAS**