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# Subsea to Floating: A Unified Field Development Approach

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# Subsea to Floating: A Unified Field Development Approach



## Unlocking a Deepwater Gas Field Through Strategic Symbiosis: A Case Study of Collaborative Development in Malaysia's Block H

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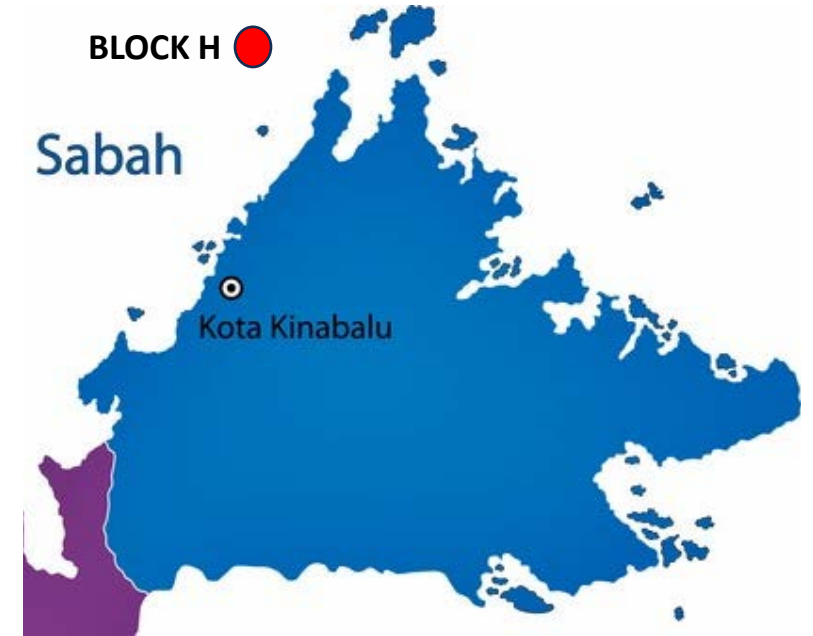
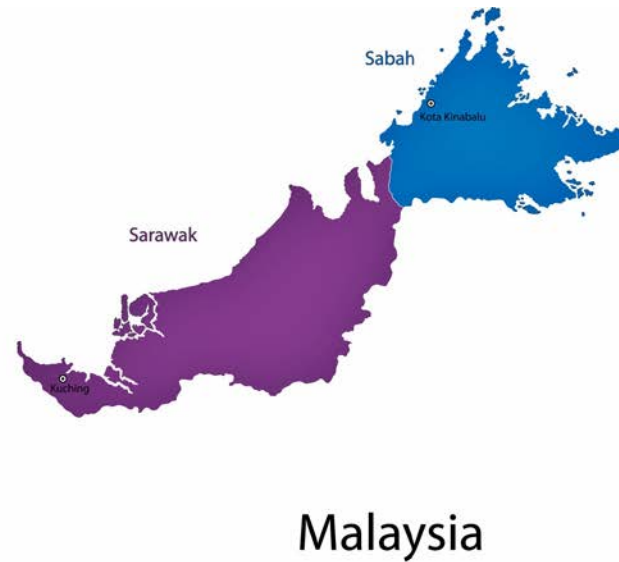




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# Why Block H, Sabah, Malaysia?

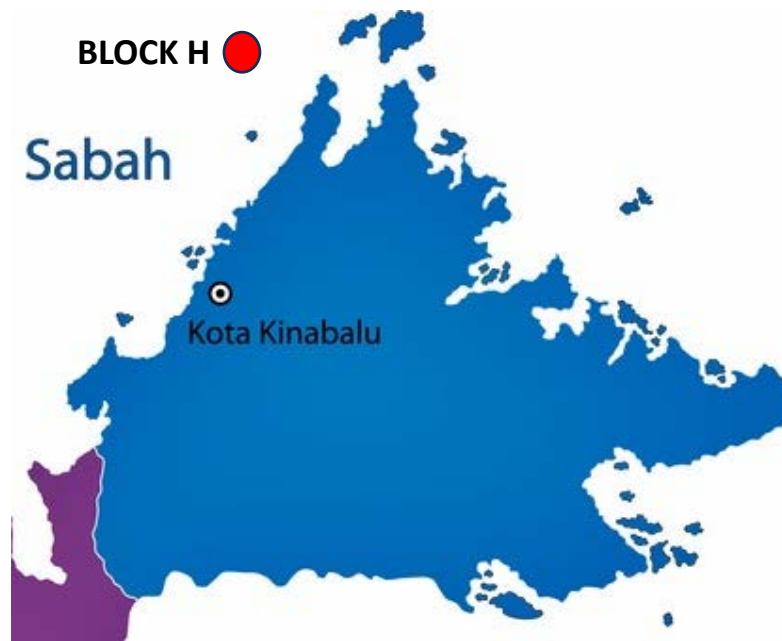


 Deepwater

 Stranded

 Uneconomic without innovation

# Challenges deepwater stranded gas field



 Water depth

 Distance to shore

 Market Uncertainty

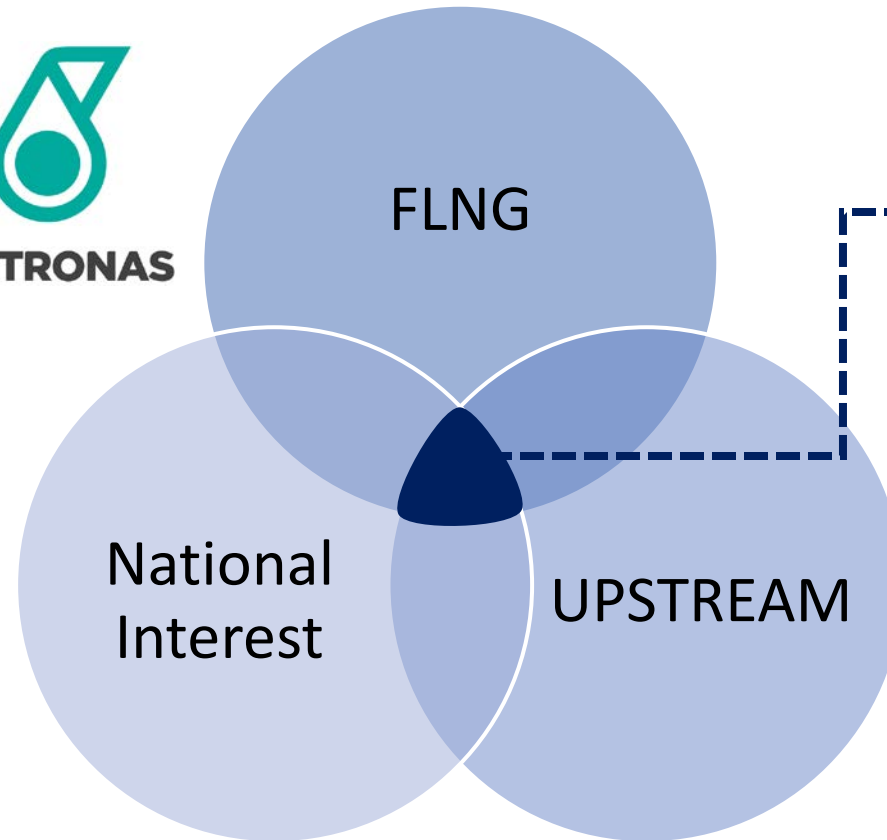
**High Risk || High Cost || Low Tolerance of failure**

# Strategic Symbiosis – Core Concept

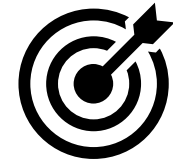
- Gas processing and liquefaction
- Export and commercialization



- Energy security
- Resource monetization
- Maximizing recovery of stranded gas



Unlocking marginal stranded gas



- Reservoir & well Management
- Subsea production system
- Flow assurance management

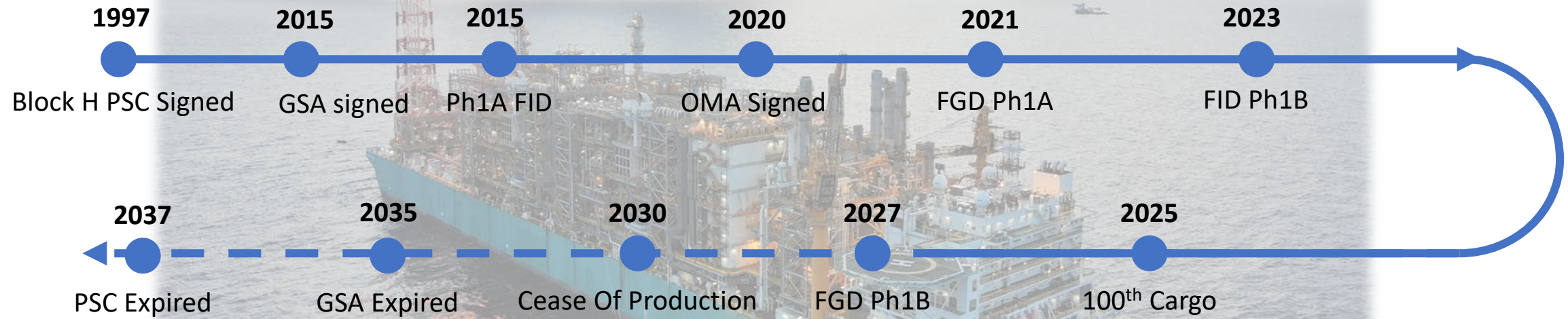
**It take a lot for single player to unlock this value alone**



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# Key Milestone for Block H



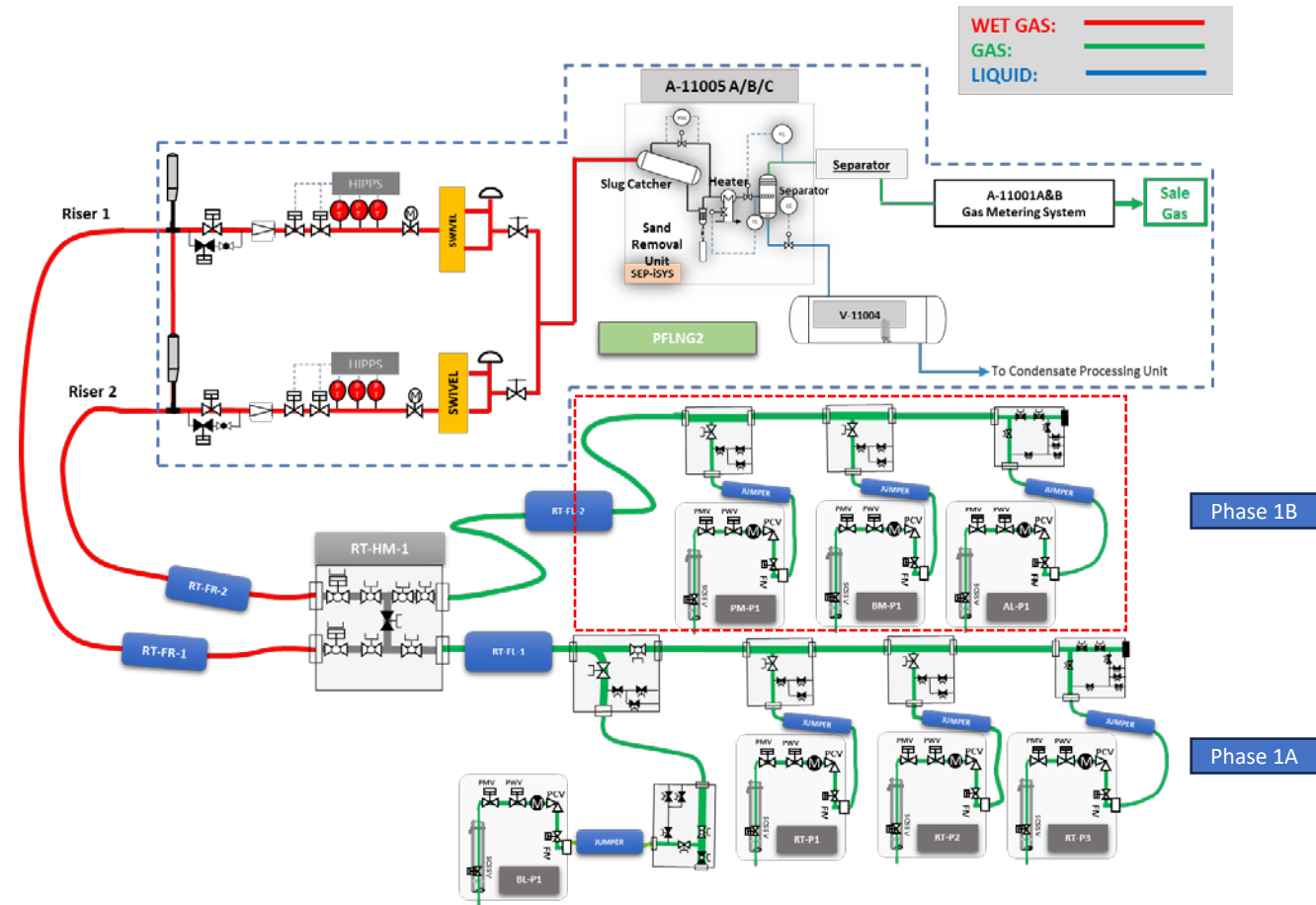
DISCOVERY: Rotan (2007), Buluh (2012), Bemban (2012), Alum (2012), Permai (2015)



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# Collaborative Architecture of Block H



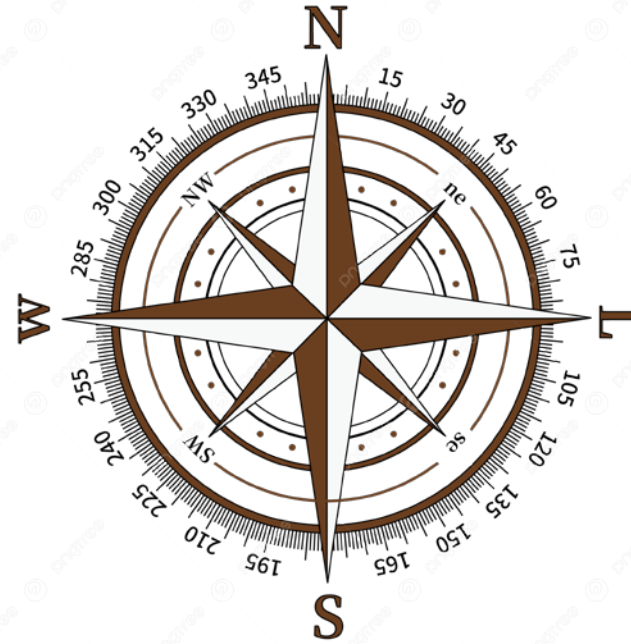
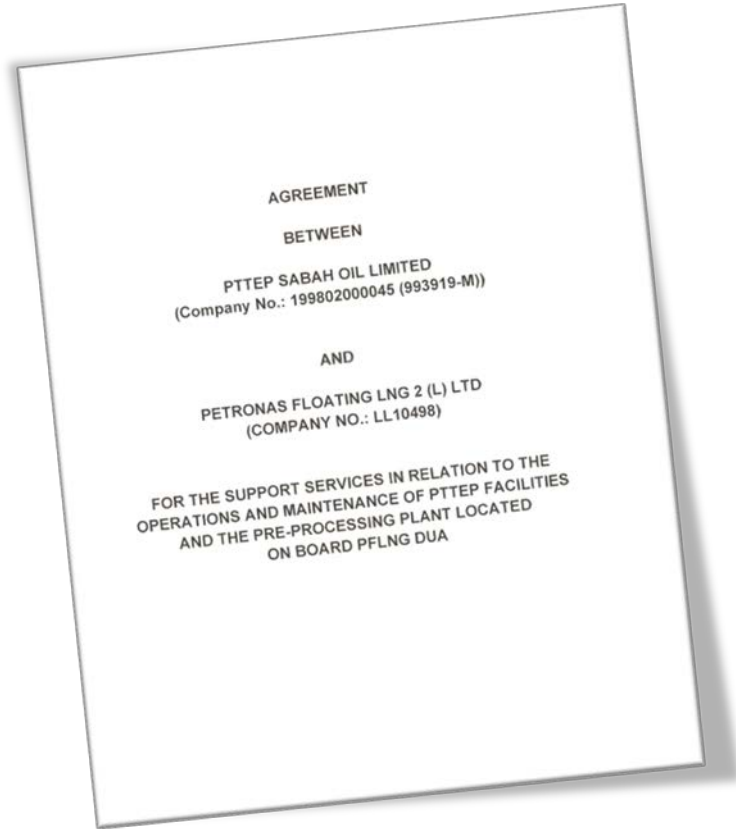
Dual operatorship on same facilities required clear demarcation role and responsibilities



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# O&M Agreement as a Key Enabler



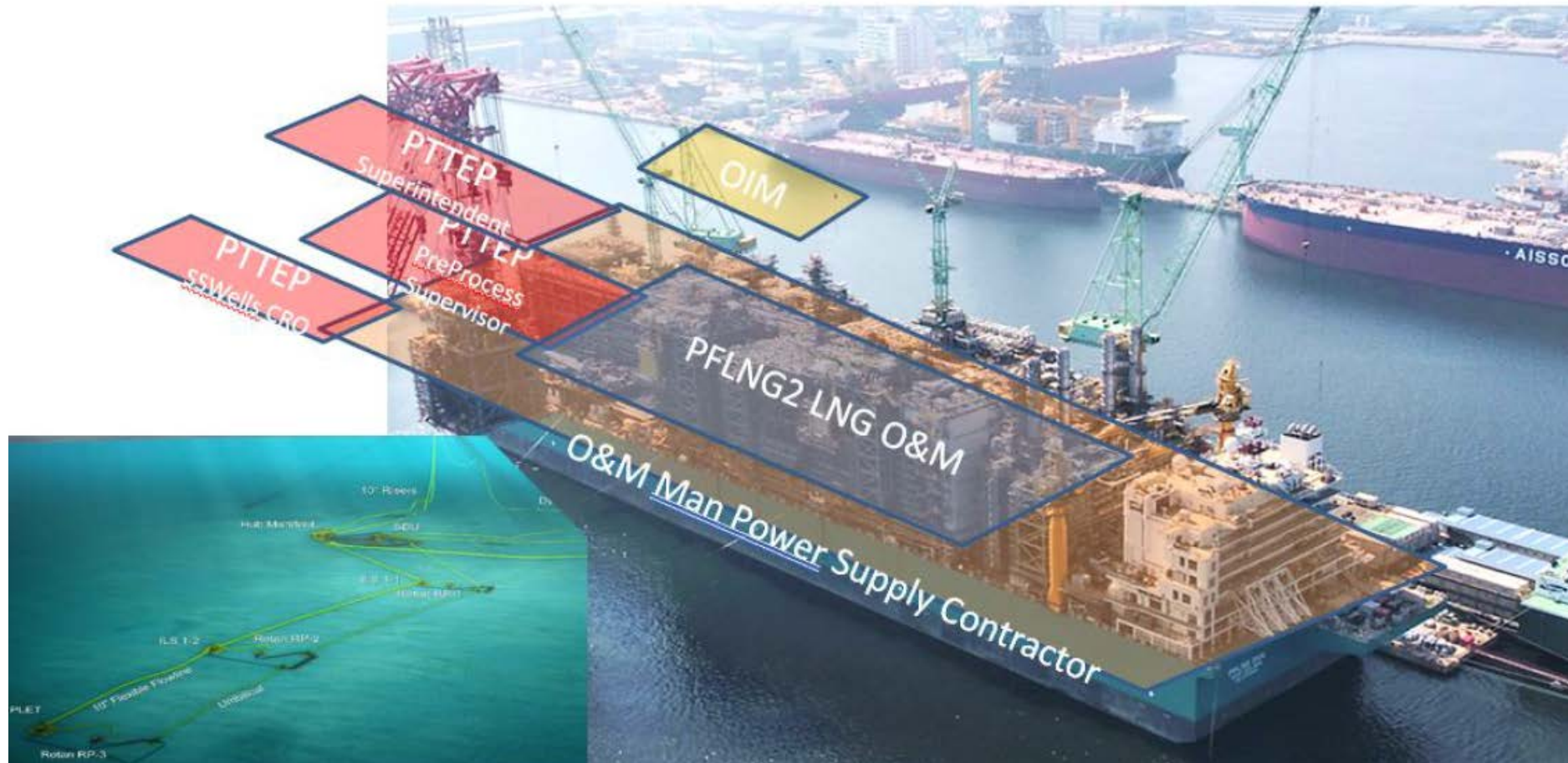
- **Scope of Agreement**
- **Obligation of parties**
- **Pre – processing Plant (PPP)**
- **Charging mechanism**
- **Demarcation boundaries**



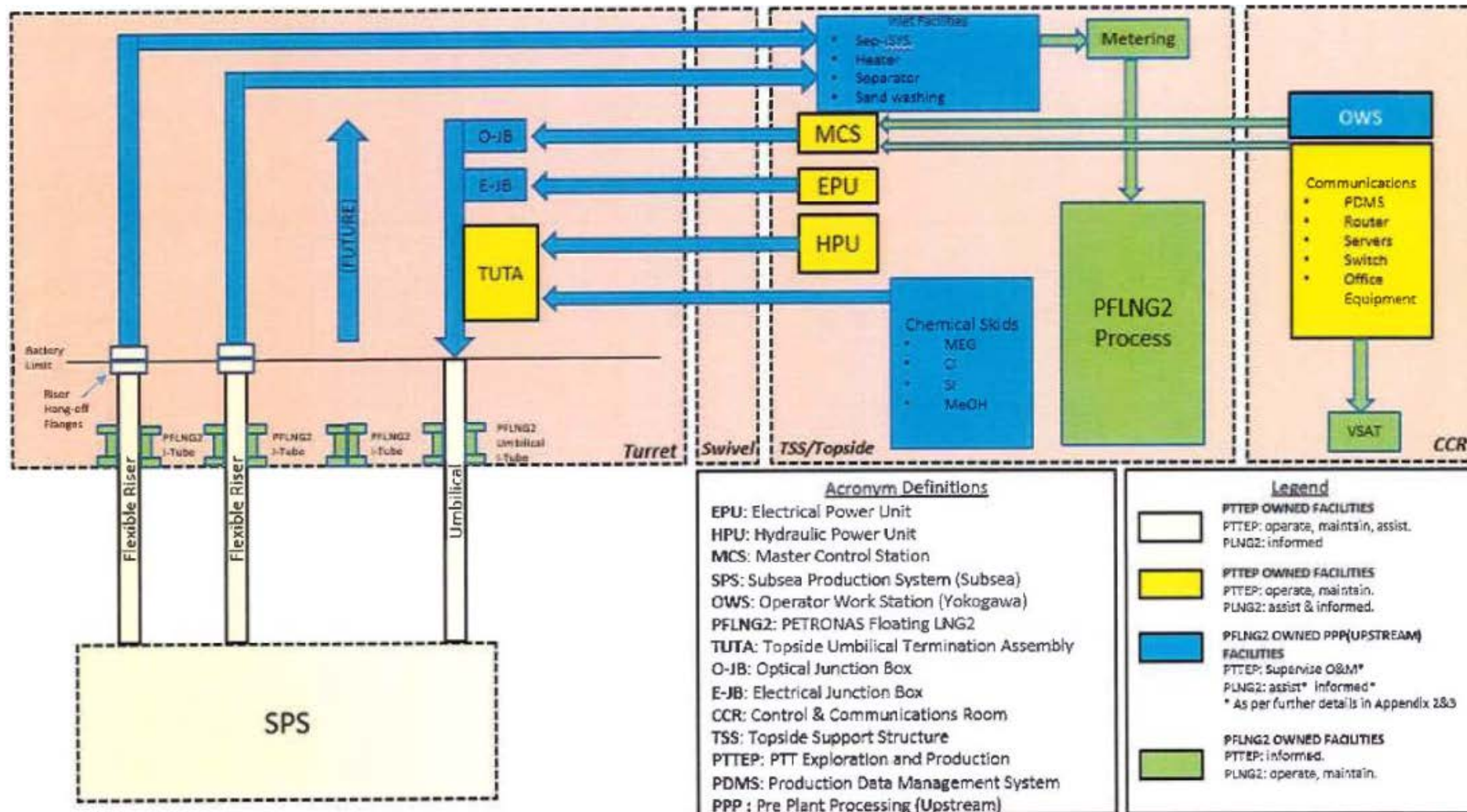
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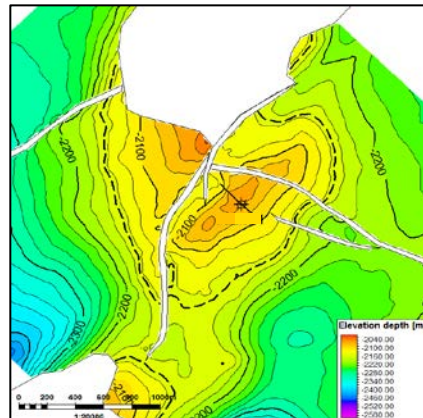
# Block H /FLNG Area, R&R



# Demarcation between PFLNG2 Facilities and PTTEP facilities



# Block H – Replicable blueprint



Huge future Possibility and Opportunities

Traditionally this reserve will remain undeveloped

FLNG facilities  
Eliminate traditional barrier

“Block H successful development prove that deepwater gas field is not stranded , just waiting for right partnership and technology”



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