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# Strengthening Marginal and Mature Field Ecosystems: Technology, Innovation, and Collaboration

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**Strengthening Marginal and Mature Field Ecosystems:  
Technology, Innovation, and Collaboration**



# Upstream Synergy to unlock Small Field Development Potential in Malaysia

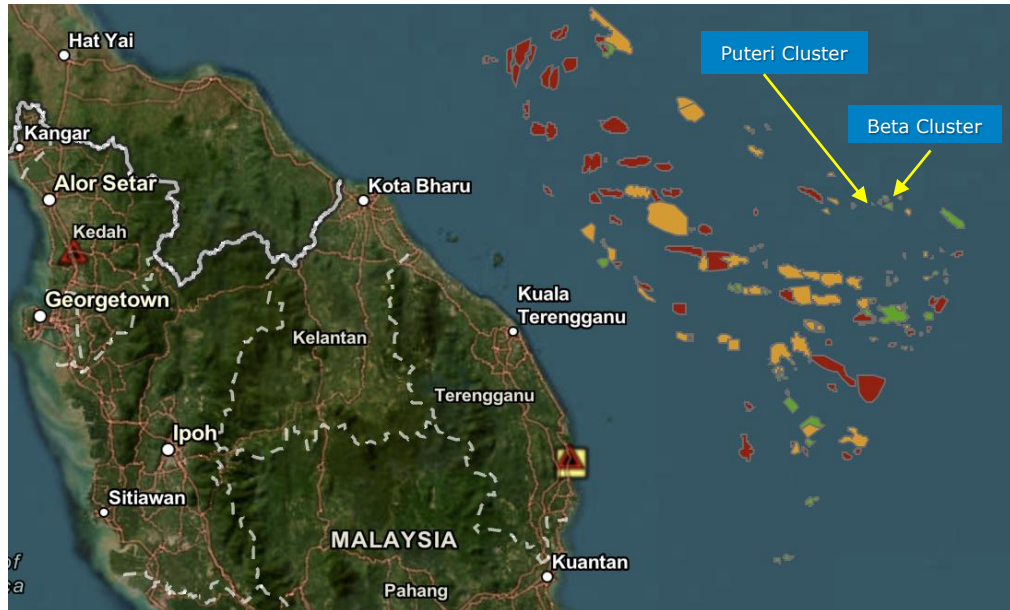
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EPOMS Energy

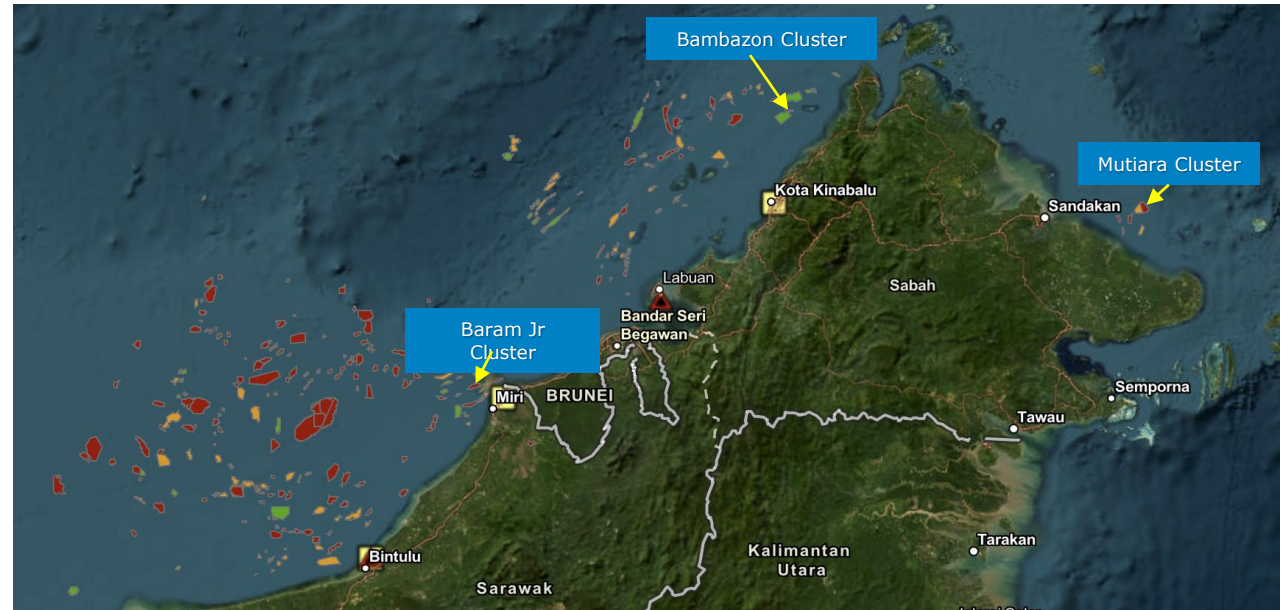


*EPOMS Energizing Small Fields in Malaysia*

# Small Fields - The new frontier for oil & gas development



Peninsular

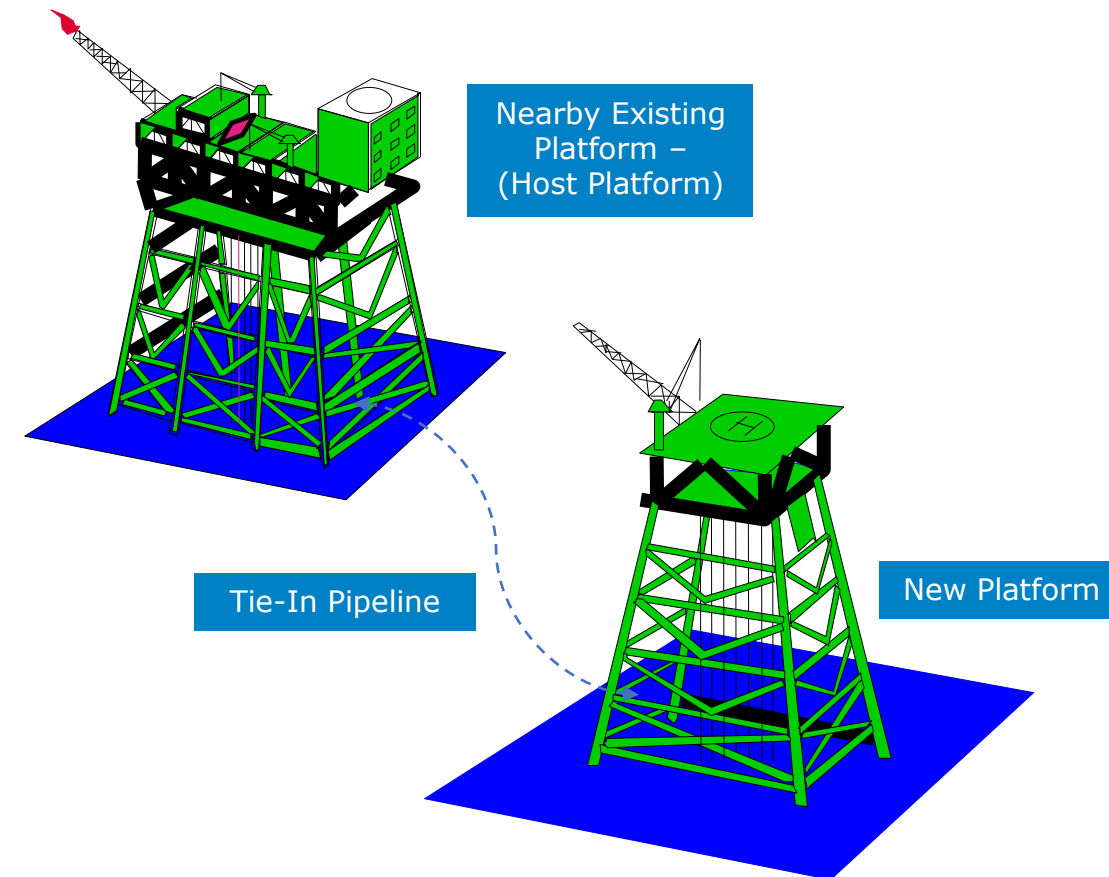


Sabah & Sarawak

Over 100 Small Fields have been discovered and many tested awaiting potential development

# Developing Small Field Assets through Tie-Back to Existing Facilities (Case Study < 100 meters)

- There are various small fields clusters in offshore Malaysia which have the advantage of nearby platform facilities
- Generally, these small fields have
  - Oil reserves less or equal to 20 MMstb
  - Gas reserves less or equal to 300 BSCF
- However, some of these small fields have been clustered to have a total recoverable volume up to 20-30 MMstb
- Small fields assets typically feature an estimated operational lifespan of 8 to 10 years



# Upstream Enablers For Small Fields Development



- **Innovative Technology**
  - Industry innovation for a new business segments in oil & gas.
- **Attractive Fiscal Term**
  - Commercial terms to sweeten the risk of small fields assets.

- **Adaptive & Flexible**
  - Unconventional concepts to expedite development.
- **Light Weight & Relocatable Structure**
  - Capex optimization and low abandonment exposure.
- **Digitalization and Remote Operations/ Normally Unmanned Platform**
  - Modern digital tools reduce manpower and operating cost

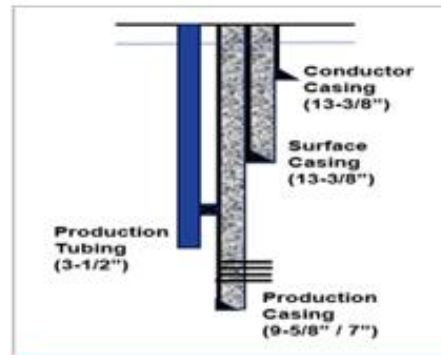




# Partnership to Drive Value for Well Delivery

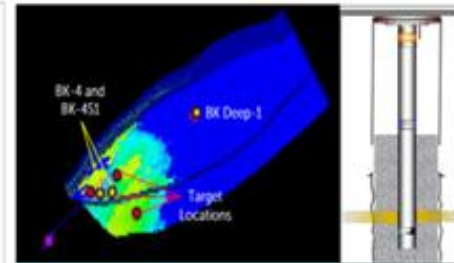


COLLABORATION  
THROUGH  
CONCERTED  
EFFORTS WITHIN THE  
COMPANY/TEAMS



## WELL DESIGN

- KEEP IT SIMPLE & FIT FOR PURPOSE WELL DESIGN
- STANDARDIZATION & REPLICATION
- PROVEN TECHNOLOGY



## SUBSURFACE & RESERVOIR MANAGEMENT

- PRIORITIZED SUBSURFACE DATA – LWD ONLY
- OHSAS (IF REQUIRED)
- SINGLE & COMMINGLE WELL COMPLETION
- ESSENTIAL WELL COMPLETION EQUIPMENT
- FLEXIBILITY ON 1<sup>ST</sup> HC



## FACILITIES DESIGN

- PROVISION FOR SLIM CONDUCTOR - LWS
- PROVISION FOR OFFLINE UNLOADING



## PRODUCTION OPERATIONS

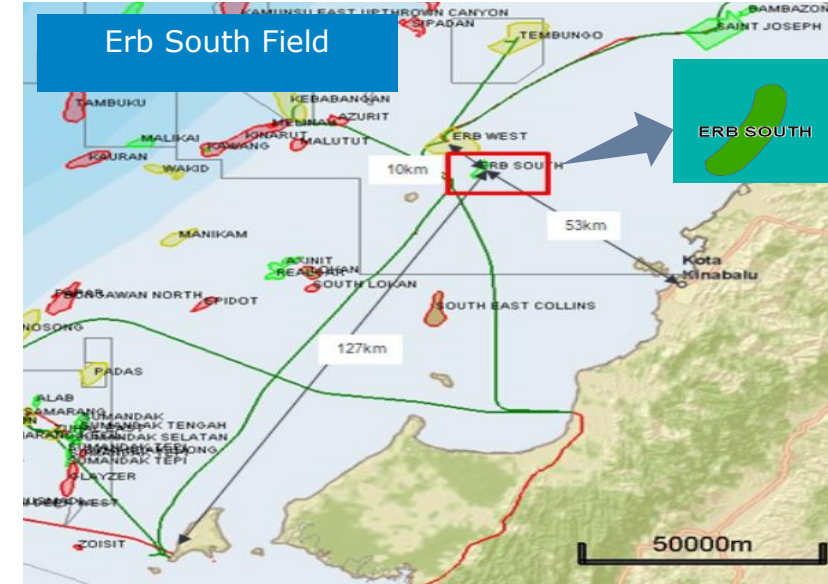
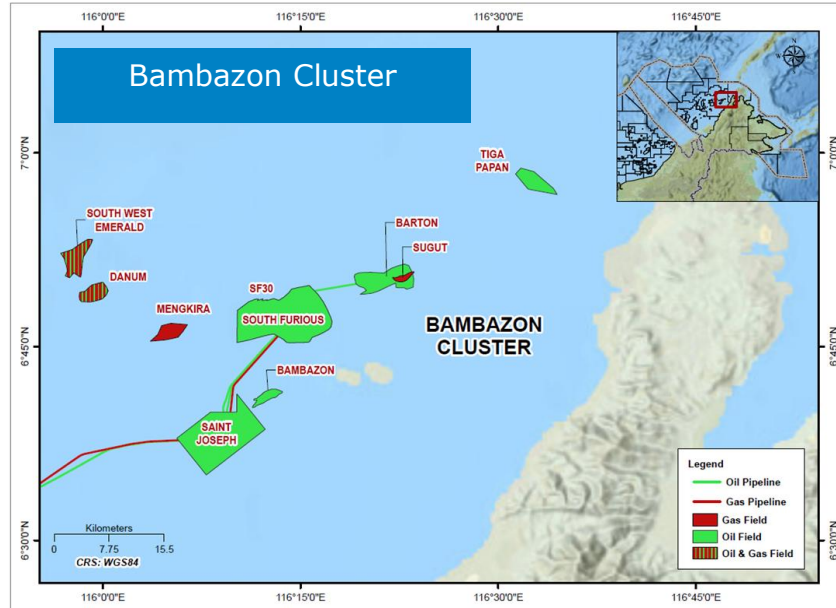
- SUPPORT FOR OFFLINE UNLOADING TO PLATFORM FACILITIES
- ADHERENCE TO RESERVOIR MANAGEMENT

# Partnership to Drive Value for Well Delivery



			
<h3>CONTRACTS</h3>	<h3>LOGISTICS</h3>	<h3>MATERIALS MANAGEMENT</h3>	<h3>WELLS EXECUTION</h3>
<ul style="list-style-type: none"> <li>• INNOVATIVE CONTRACTING STRATEGY E.G. INTEGRATED SERVICES</li> <li>• SHARING OF RIG WITH OTHER PSC</li> <li>• OFFLINE CAPABLE RIG</li> </ul>	<ul style="list-style-type: none"> <li>• LOWER SUPPLY VESSEL COST</li> <li>• MINIMAL SUPPLY BASE COST FACILITIES</li> <li>• FCB FOR CREW CHANGE</li> <li>• LOWER FUEL CONSUMPTION</li> </ul>	<ul style="list-style-type: none"> <li>• FURTHER DISCOUNT ON UNIT PRICE FOR SURPLUS EQUIPMENT (MPM)</li> <li>• SHARING OF BACK-UP EQUIPMENT</li> </ul>	<ul style="list-style-type: none"> <li>• AVOID DRILLING CAMPAIGN IN MONSOON</li> <li>• BATCH DRILLING &amp; BATCH COMPLETION</li> <li>• OFFLINE OPERATIONS</li> <li>• ESSENTIAL BACK-UP EQUIPMENT ONLY</li> <li>• TECHNICAL LIMIT</li> </ul>

# Developing Small Field Assets



## Fields Overview

Fields Overview	
Bambazon Cluster consist of Bambazon Field, Tiga Papan Field and Mengkira Field	Erb South Field
Located within Block SB 408 and SB 403, 9 km and 11 km from St. Joseph and South Furious Fields respectively	Located within Block SB 412, 10 km from Erb West Field
Bambazon Cluster SFA PSC was awarded to EPOMS in November 2023	Erb South Field SFA PSC was awarded to EPOMS in December 2024



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# Upstream Synergy is Critical to Unlock Small Fields Development Potential in Malaysia



Creative Industry Collaboration & Contracting Strategy  
(Integrated FEED to EPCIC Delivery)



MOPU lease rates taking into account low production rates  
beyond the fourth/fifth year as production drops



Yard availability for small projects and low-cost construction



Fit for purpose integrated drilling services and rig sharing for short  
development campaign (< 5 Wells)



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## Next Steps in Bambazon Field Development

- Relocatable Light Weight Structure vs. Mobile Offshore Solutions
- FEED & EPCIC for Integrated Solutions (Inclusive Regional Involvement)
- Identifying rigs for short three wells drilling campaign (outside monsoon weather window)

Synergy & Business Partnership is the Way to Go



Thank You

EPOMS