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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**



# **Unlocking Stranded & Marginal Offshore Fields through Cross-PSC Synergy : A Case Study**

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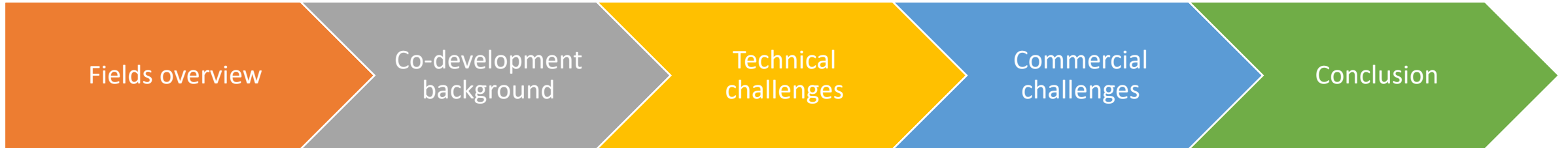


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# Presentation Outline





# Fields Overview

	Field A	Field B	Field C	Field D
Field location	~ 120 km off-the-coast of Sarawak		~ 150 km off-the-coast of Sarawak	
Water depth	~ 80 to 90 m		~ 80 to 90 m	
Discovery	2014	2018	2022	2022
Geology	NAG fields, carbonate			
Contaminants (CO <sub>2</sub> , H <sub>2</sub> S)	8 mol% CO <sub>2</sub> , 43 ppm H <sub>2</sub> S, 1.16 mol% N <sub>2</sub>	4.7 mol% CO <sub>2</sub> , 20 ppm H <sub>2</sub> S, 0.6 mol% N <sub>2</sub>	6.0 mol% CO <sub>2</sub> , 20 ppm H <sub>2</sub> S	4.5 mol% CO <sub>2</sub> , 20 ppm H <sub>2</sub> S
EUR	~ 200 to 300 Bscf		< 200 Bscf	< 200 Bscf

Field A & B  
(PSC X)

Field C & D  
(PSC Y)

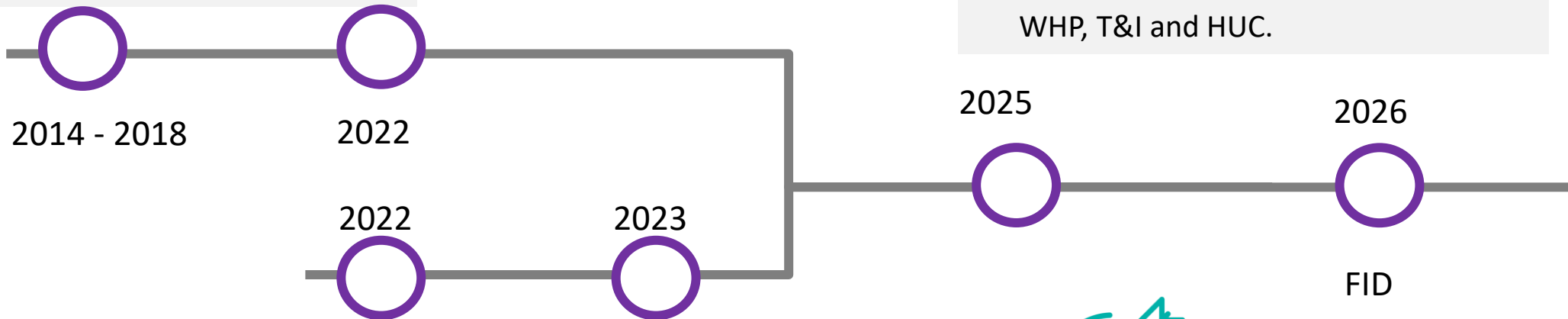


# Co-development background

- Discovery of Field A (2014) and Field B (2018) (PSC X)
- Marginal volumes
- Economically not viable with standalone development due to high UDC

- Field A & B co-development as single PSC
- Concept select (2024)
- Economics not robust
- JV hurdle not met

- 4-field integrated development through cross-PSC synergy
- Shared resources for the execution of WHP, T&I and HUC.



- Discovery of Field C & D (PSC Y)
- Small volumes
- Dependent on ageing hub
- Limited standalone economics

- Field C & D co-development as single PSC
- Economics not robust
- JV hurdle not met

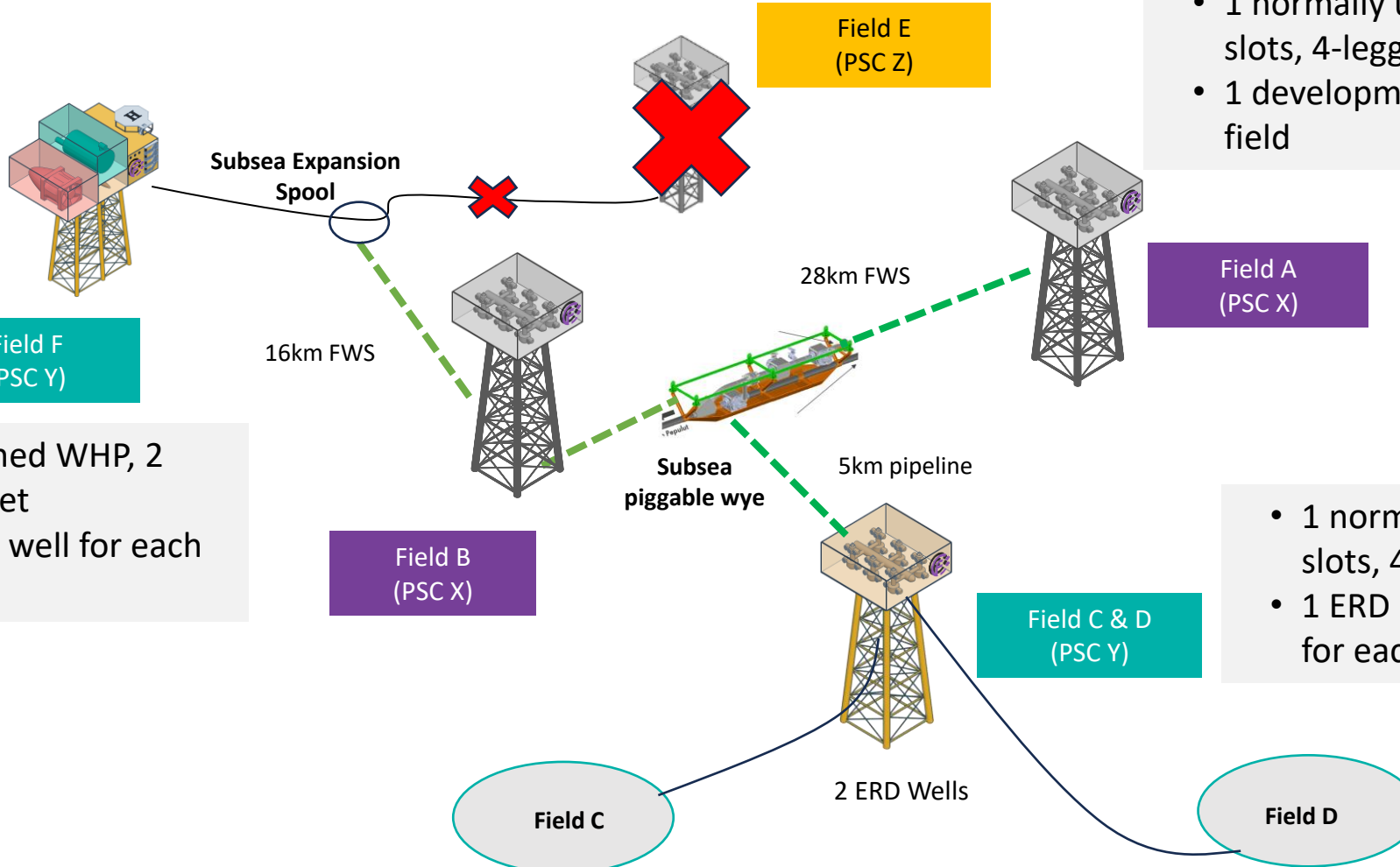


- ✓ Marginal Fields & Stranded Gas Unlocked
- ✓ CAPEX optimisation
- ✓ Improved JV economics
- ✓ Extended hub & PSC value

# 4-field development concept

Scope tie-in to Field E existing pipeline and re-use the inlet facilities at brownfield Field F

- 1 normally unmanned WHP, 2 slots, 4-legged jacket
- 1 development gas well for each field



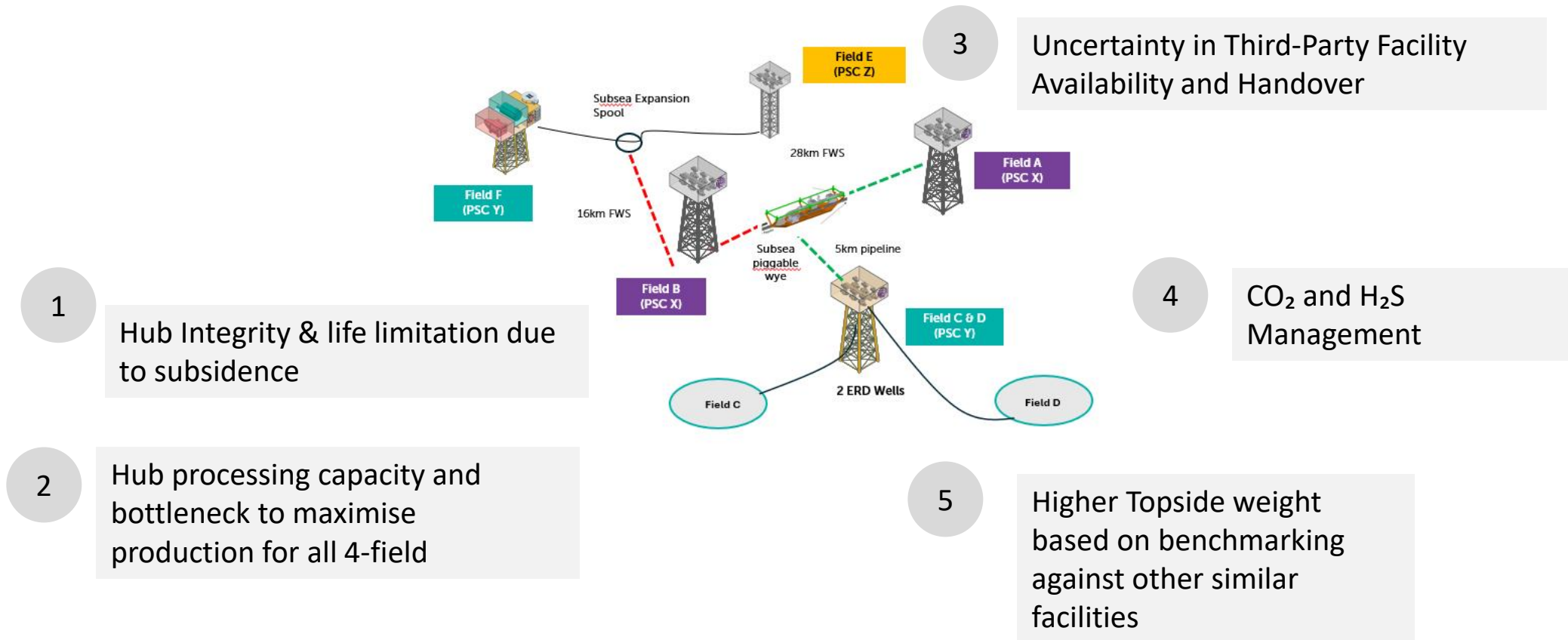
- 1 normally unmanned WHP, 2 slots, 4-legged jacket
- 1 development gas well for each field

Field A (PSC X)

- 1 normally unmanned WHP, 4 slots, 4-legged jacket
- 1 ERD development gas well for each field

Field C & D (PSC Y)

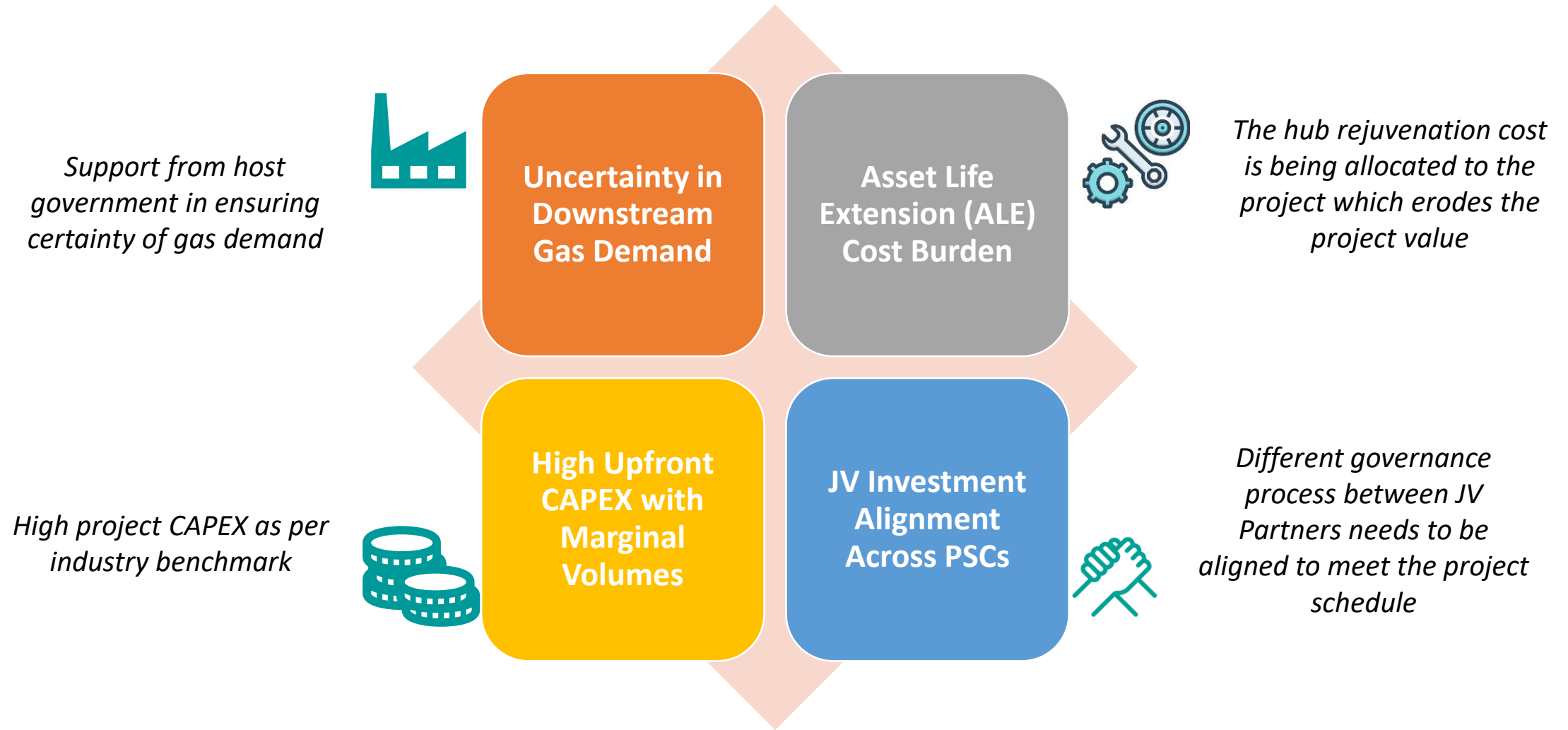
# Technical challenges faced to materialize the project



*These constraints made standalone or single-PSC development sub-optimal, directly motivating the move towards an integrated cross-PSC co-development strategy*



# The project faced fundamental commercial constraints that prevented from meeting JV investment criteria.





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## Conclusion

A **cross-PSC development synergy** enabled regional optimisation by integrating four marginal fields across two PSCs into a single execution framework - **reducing development complexity and cost.**



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- Our JV Partners

**Alone, we can do so little;  
together, we can do so much**



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**THANK YOU**