



Partnership in Decommissioning



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Agenda



D&R overview



Why partnership?



Example 1 – Onshore decommissioning



Example 2 – Offshore decommissioning

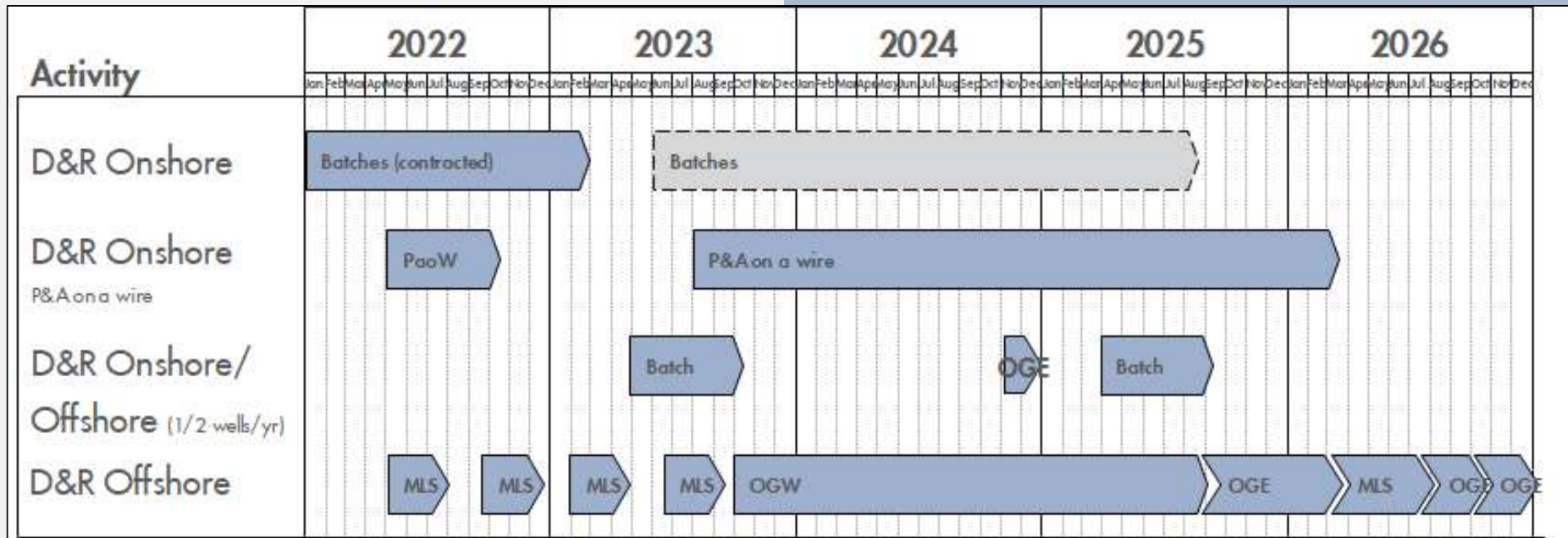


Example 3 – Energy hubs



Who wants to be my friend?

D&R overview



- **Three strings** – 2x Onshore + 1x Offshore

- **D&R 1:** P&A unit

abandon complex/high risk wells only (milling etc) + surface decom

- **D&R 2:** P&A on a wire

abandon simple/low risk wells + trial additional technologies (e.g. casing incineration, thermite etc) = surface decom

- **D&R 3:** Offshore unit

abandon with barge (P&A on a wire) and HWO unit/JU rig + platforms

Why partnership?



Safety – together we are stronger!



Searching for innovative solutions



Efficiency



Accelerated experience curve



Specialized focused organization



Improved planning & scheduling

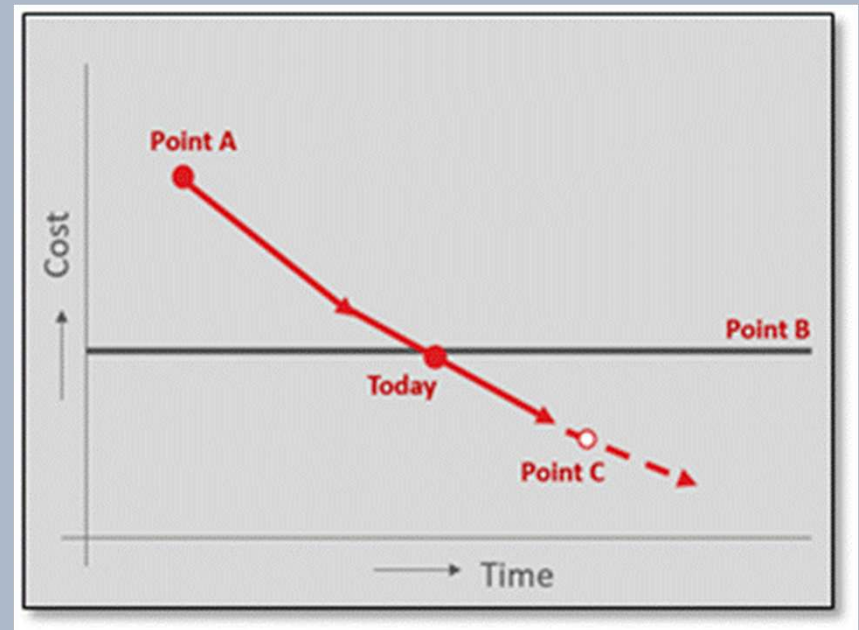


Smarter contracting

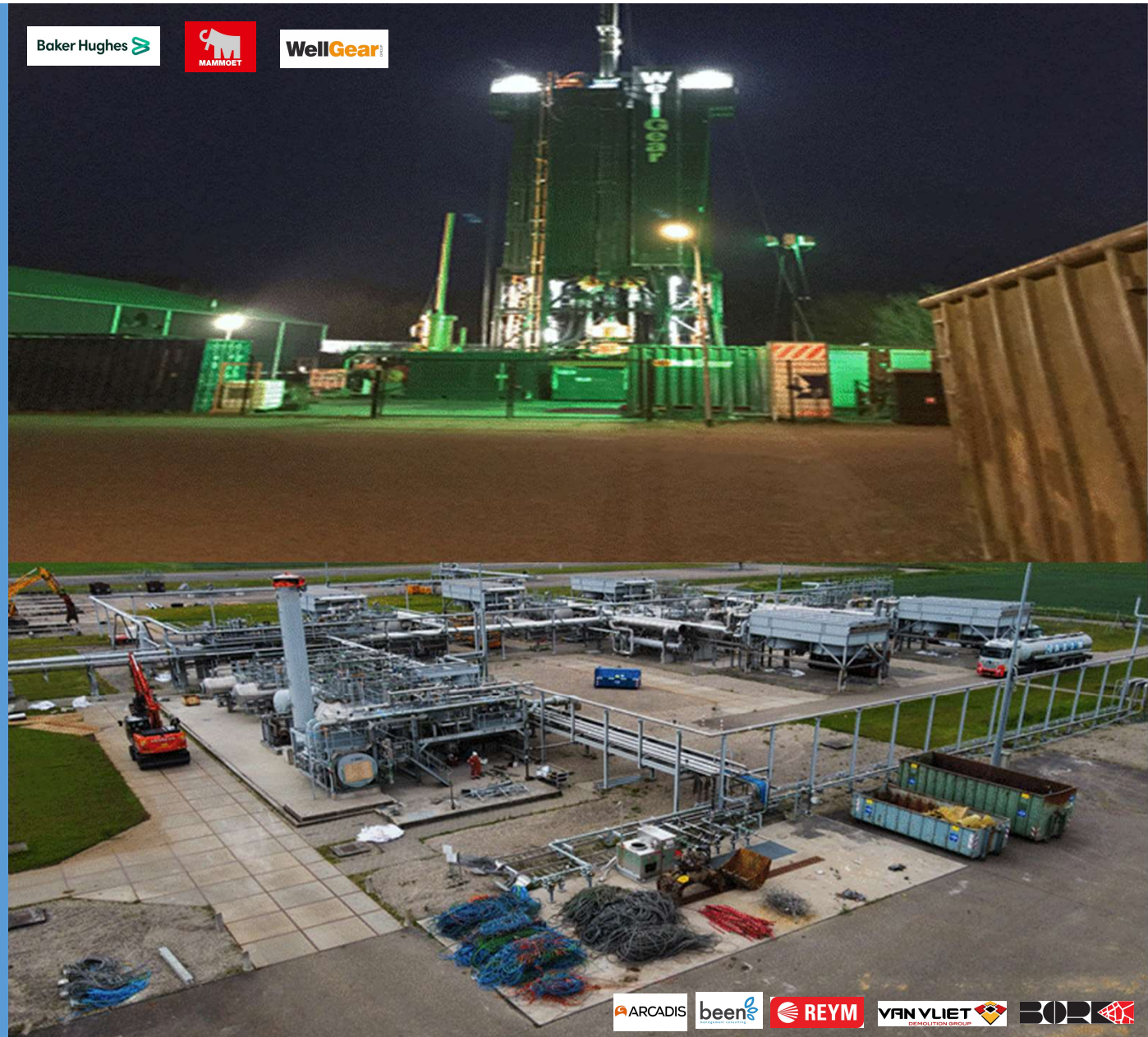


Seek in partnership?

- Set an ambition together!
- Loyalty
- Integrated teams
- Standardization vs innovation
- Level of outsourcing
- Long term
- Non exclusivity

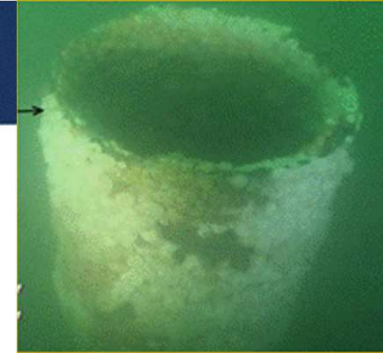
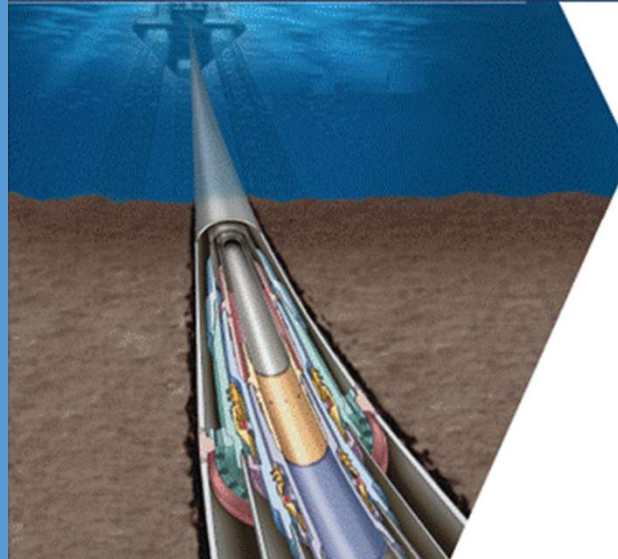


Onshore decommissioning



Offshore decommissioning

nexstep NATIONAL PLATFORM
FOR RE-USE & DECOMMISSIONING



Joint Campaigns to Abandon Stand-alone Wells Offshore

Mudline suspension operations

NAM Decom & Energy Hubs

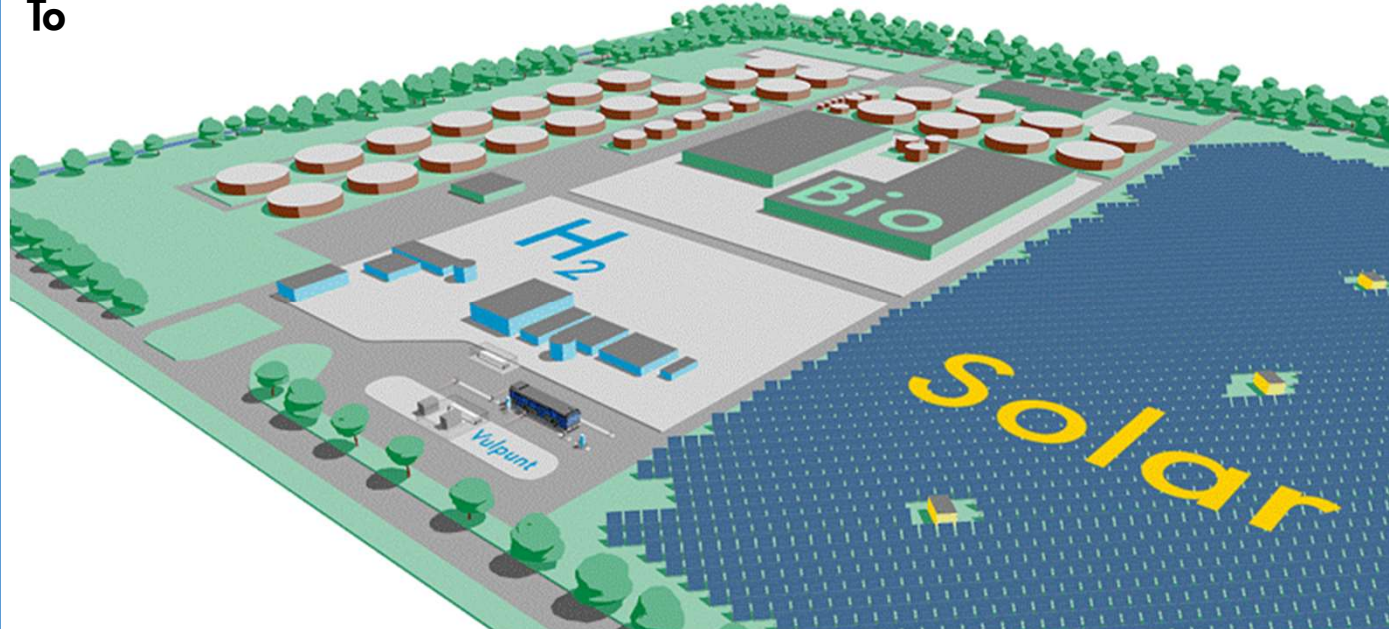


Energy hubs (re-use)

FROM

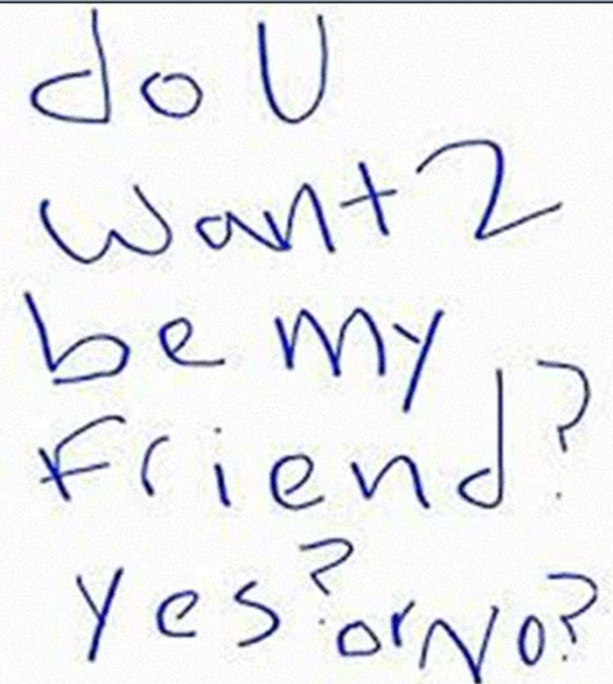


To



Who wants to be my friend?

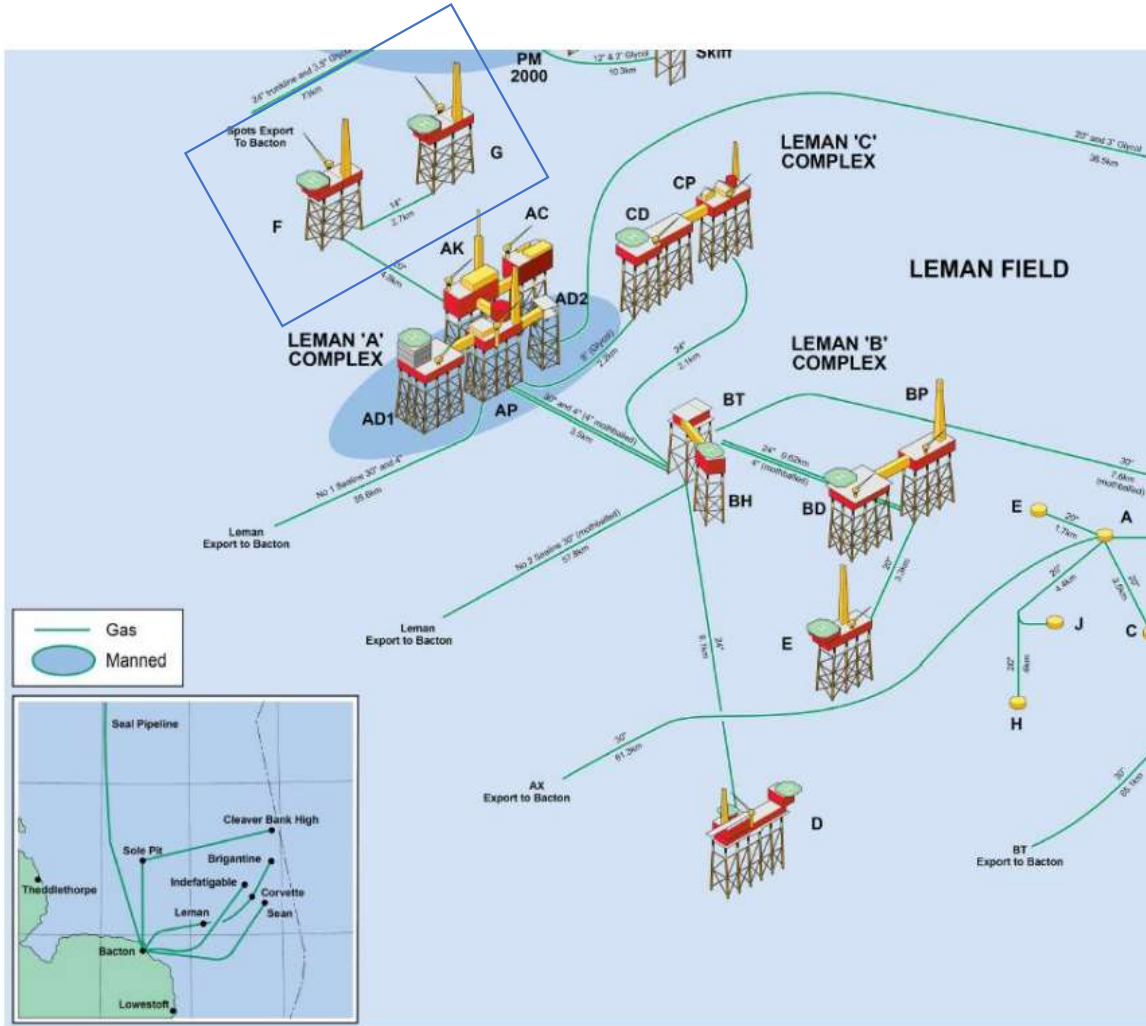
- Where could be opportunities?
- Where do you see hurdles?
- Where do you see risks?



do U
want?
be my
friend?
yes? or no?



Leman Foxtrot & Golf



Leman Foxtrot		Leman Golf
35	Waterdepth [m]	22
14	Wells	12
2.223	Topside Weight [mt]	2.054
1.001	Jacket Weight [mt]	1.101
1.032	Pile Weight [mt]	917