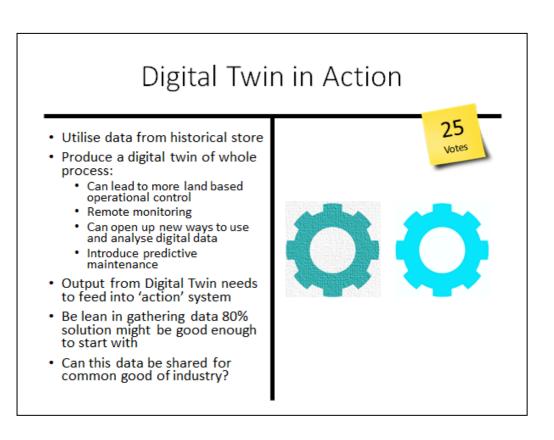
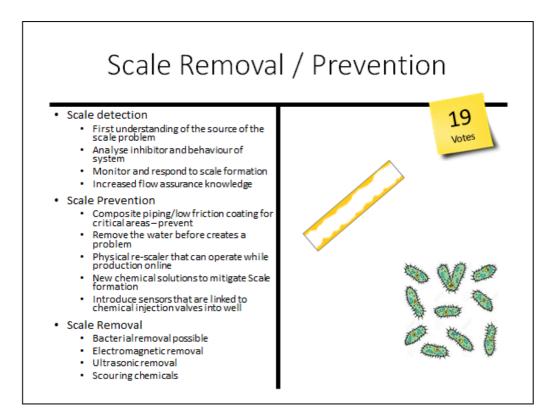


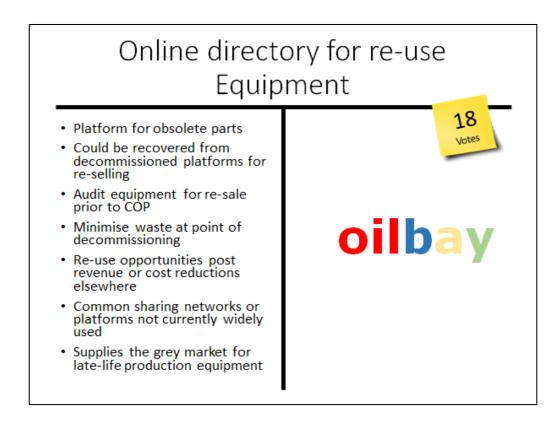


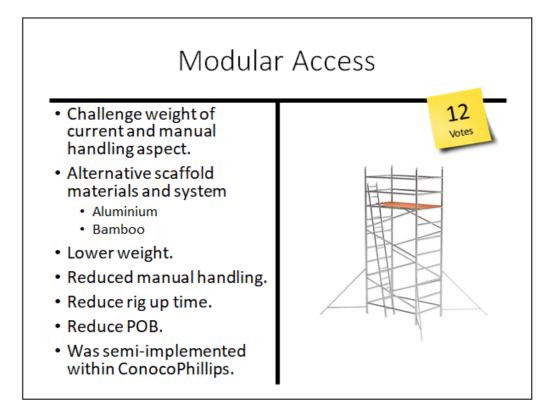
Norwegian Ministry of Petroleum and Energy itf

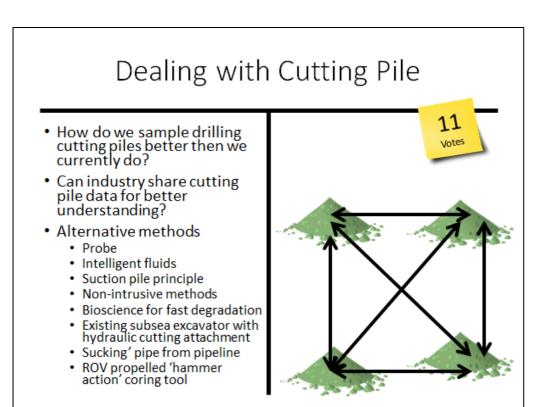
UK and Norway Technology Hackathon Output Report Gallery

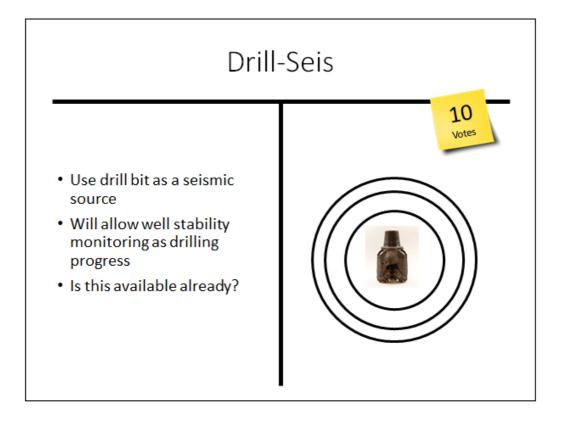


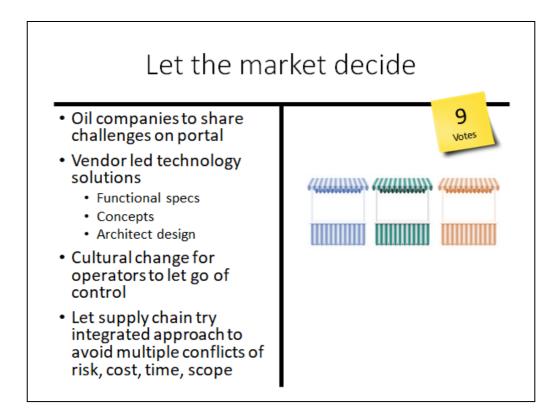


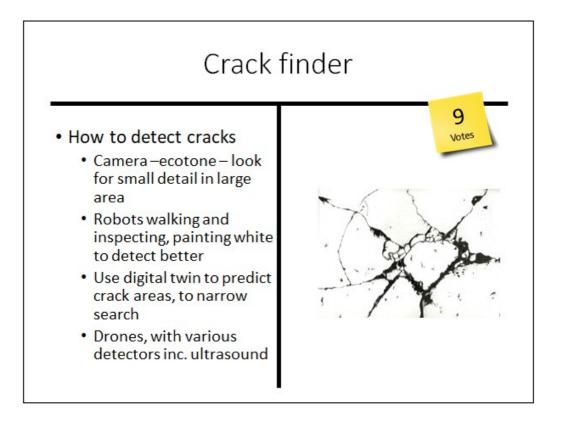


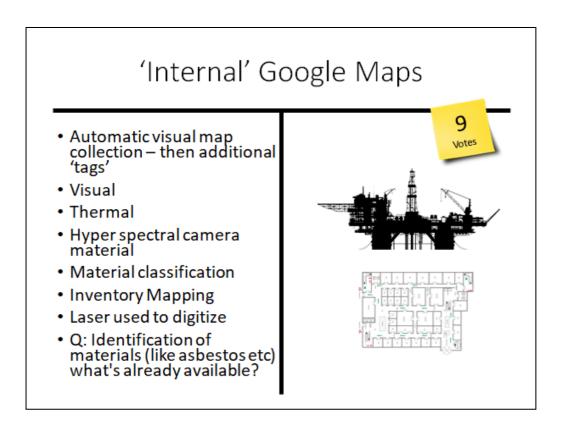


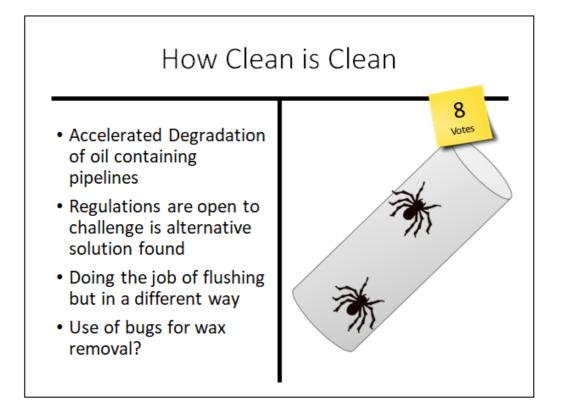


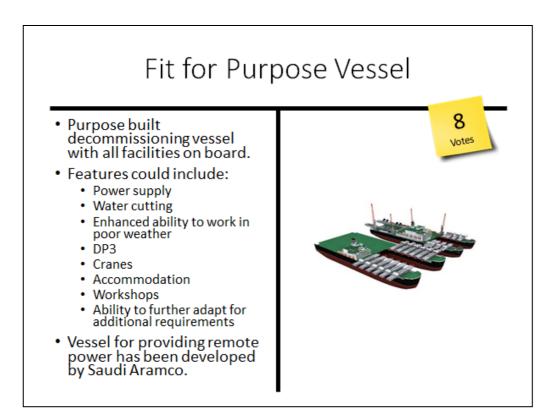


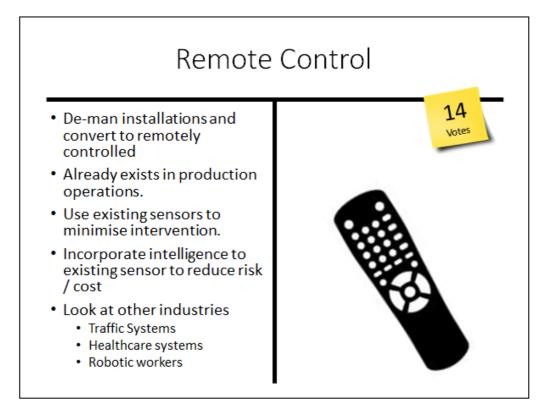


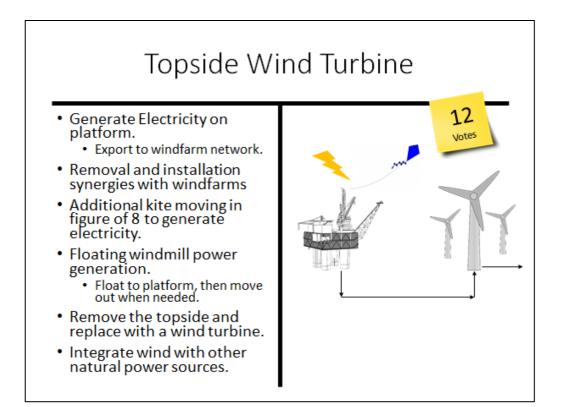








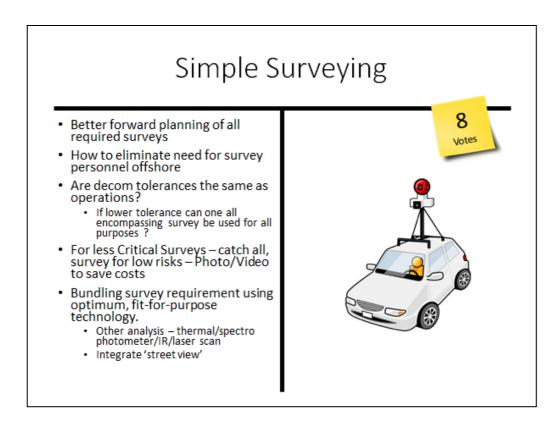


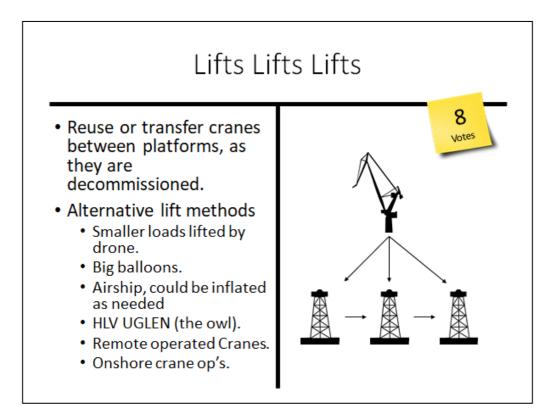


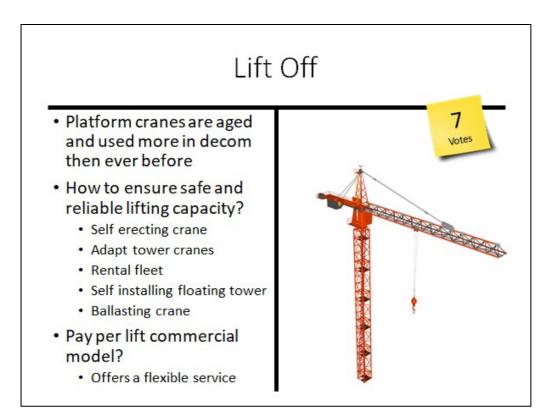
Produce Thicker Crudes at Lower Temperatures

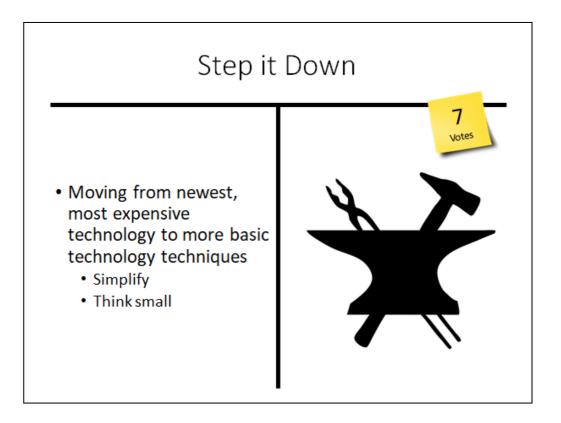
- Refer to Heriot Watt University for studies on chemical in/separation.
- Outsource separation optimisation- risk reward sharing.
- Use big data- share the benefits.

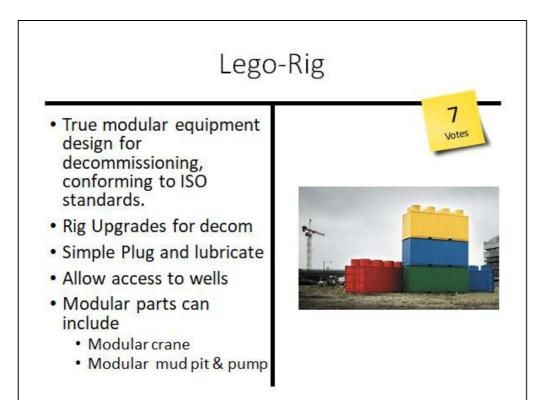


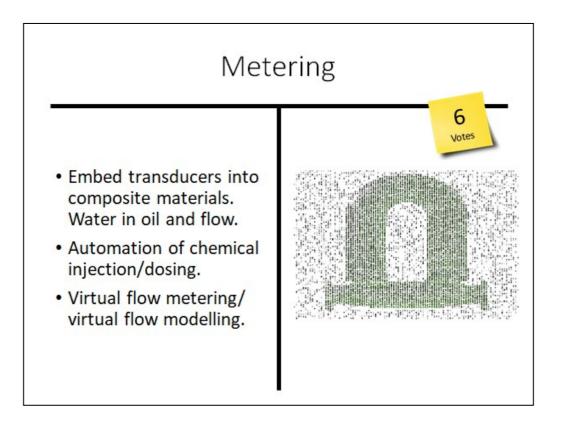


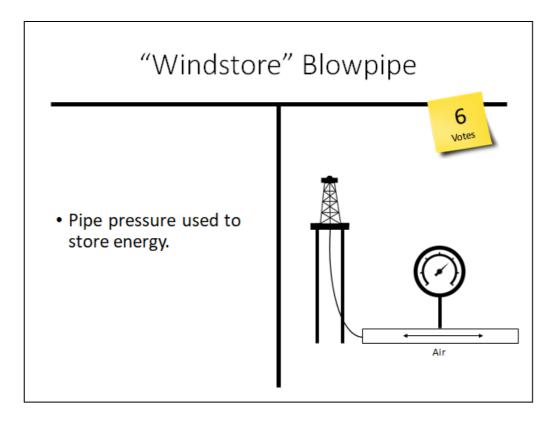


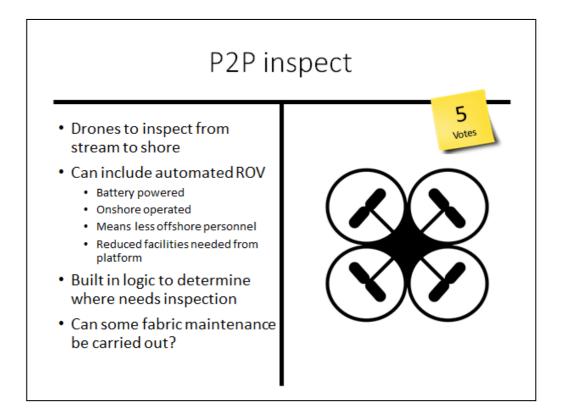


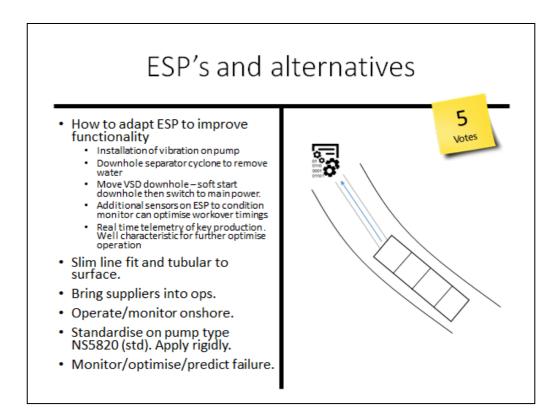


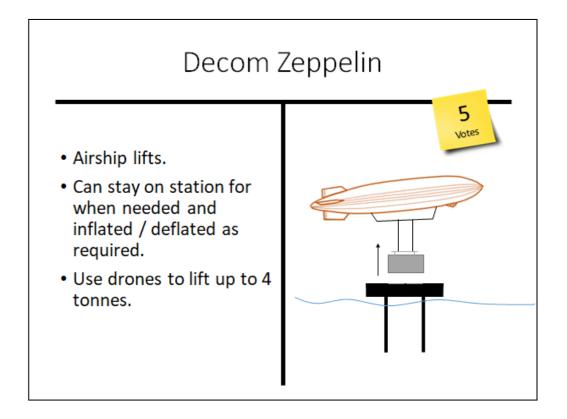


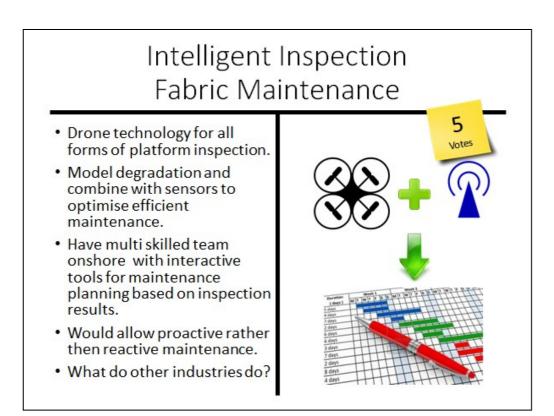


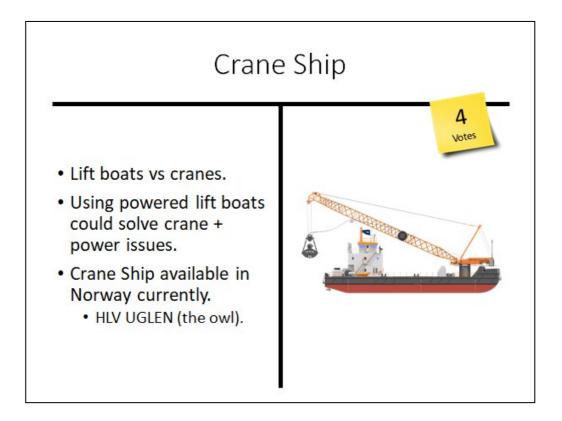


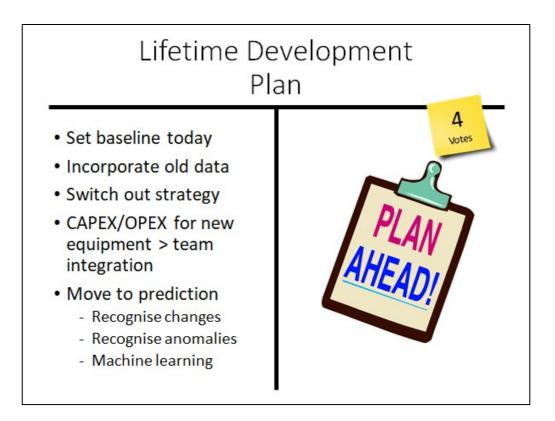


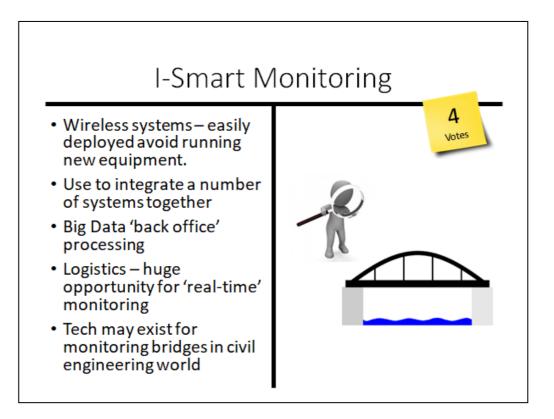


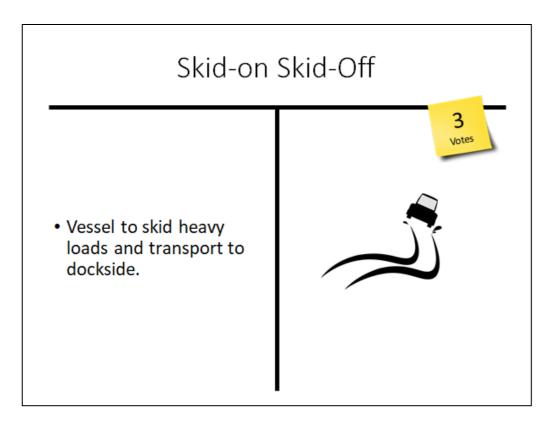


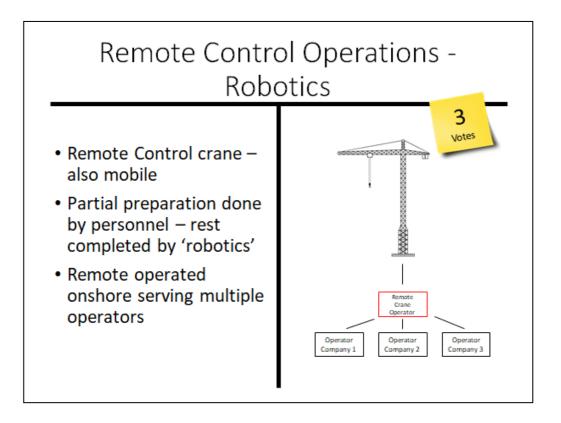


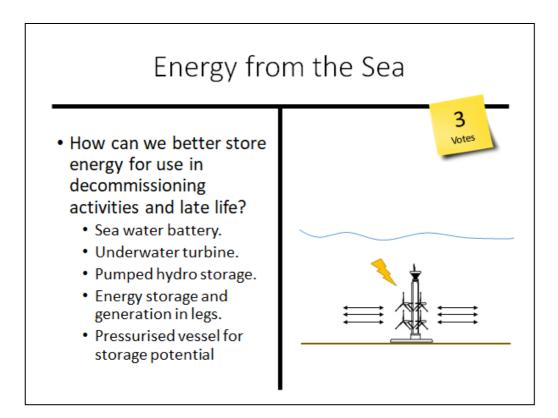








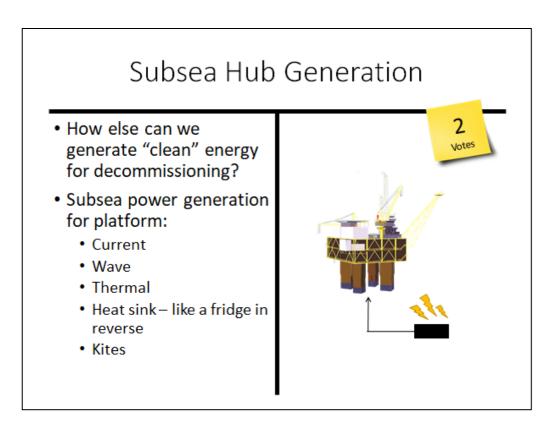


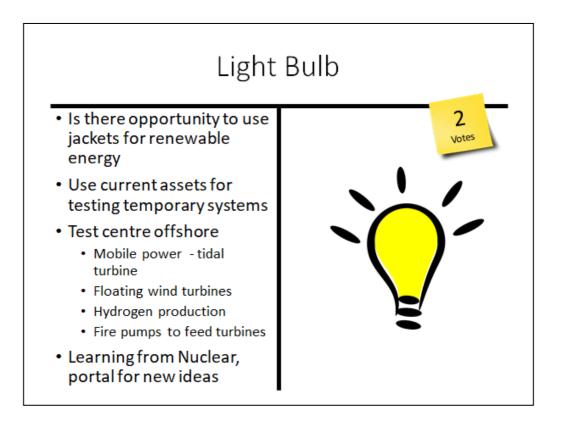


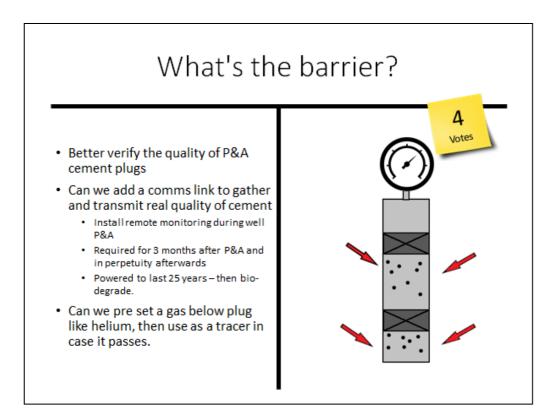
Mooring Systems: Wear, Tear and Chain Failure

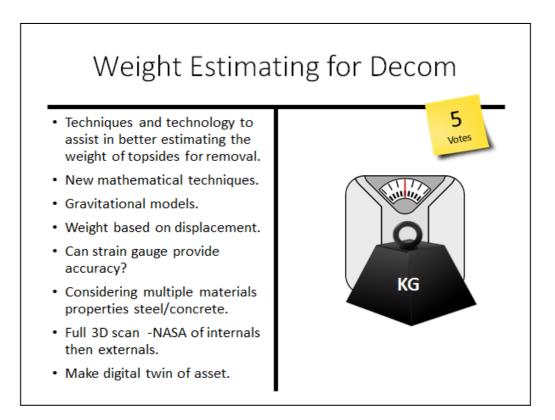
- Chain crawlers to inspect chains along length.
- Localise wear and regularly change the weak link.
- Combination of neutral buoyancy + ROV + chain crawler technology to replace links/chains.
- "Bike chain" type linkage for new builds.
- Seabed storage of spare moorings.
- Conductivity/corrosion/baselining.
- Acoustic inspection "hit it" and listen.
- Magnetic force buffer between links.
- Link design- contact point, surface area etc.
- Distributed wear mechanism on links.

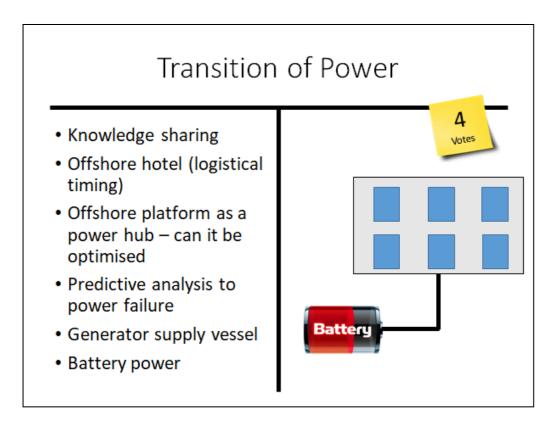


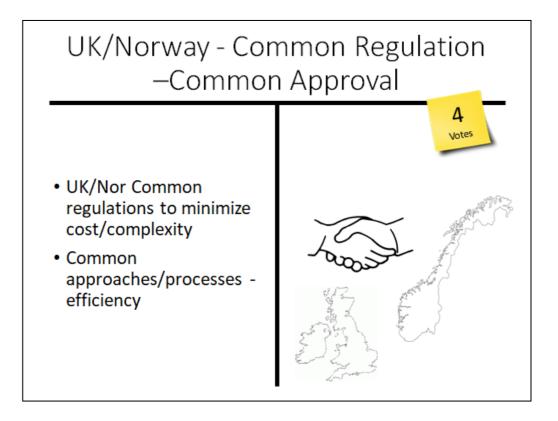


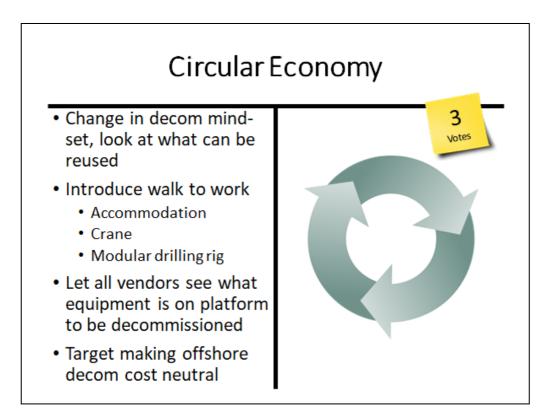


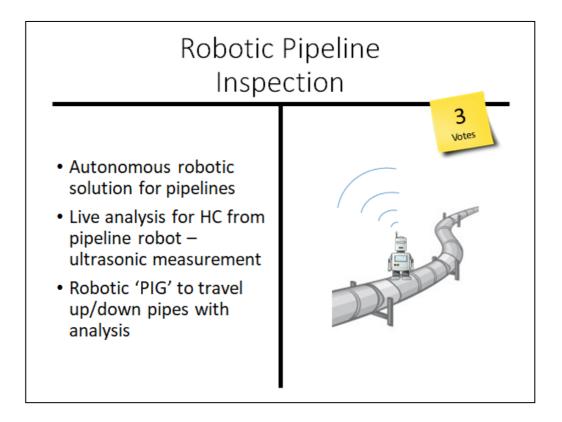


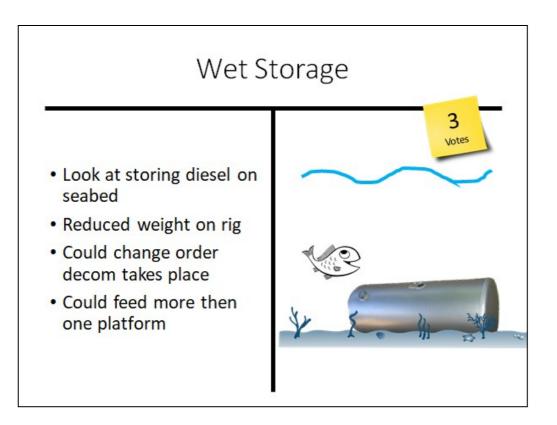


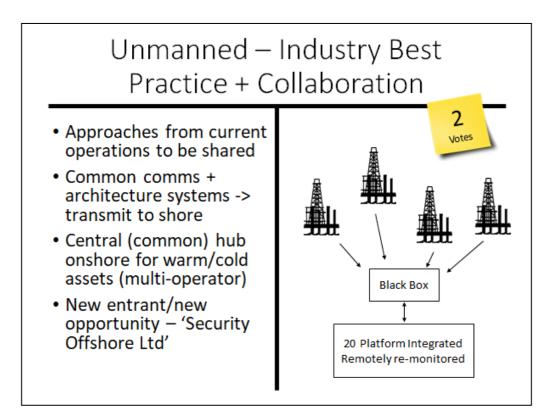


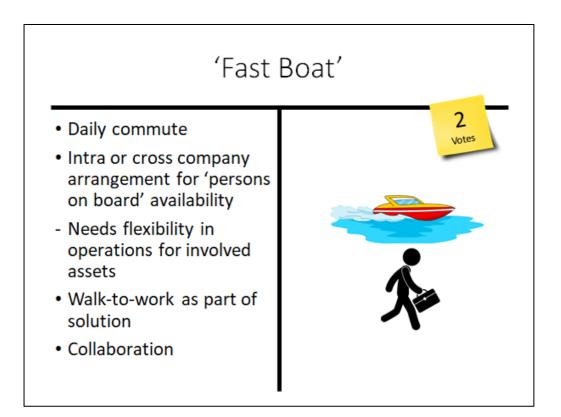


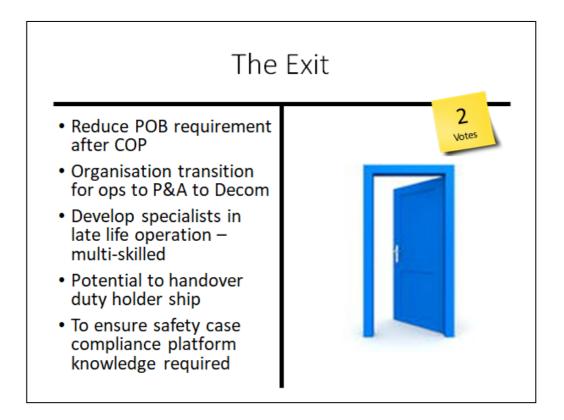


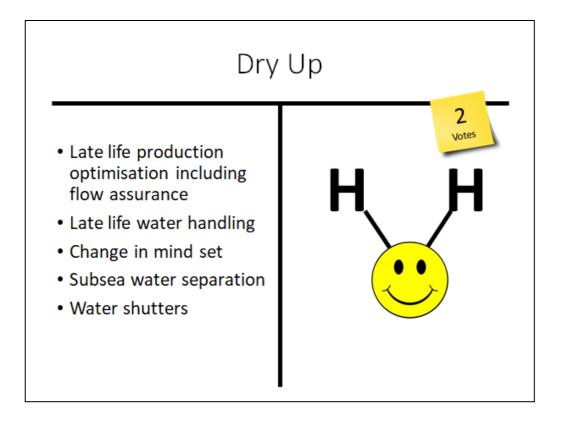


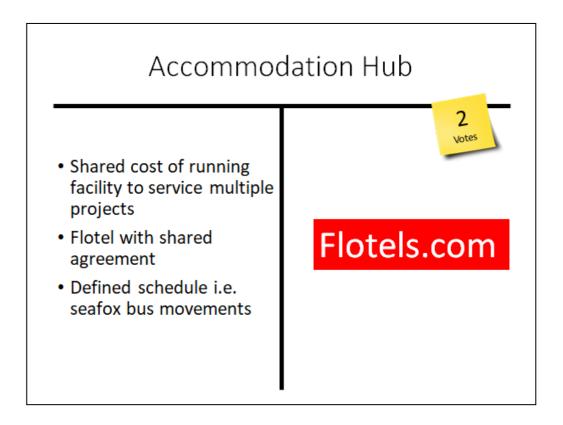


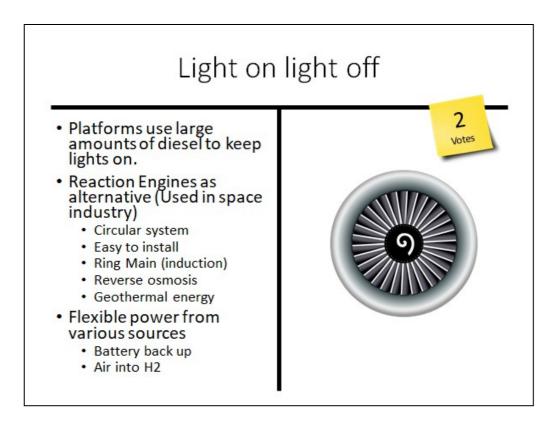


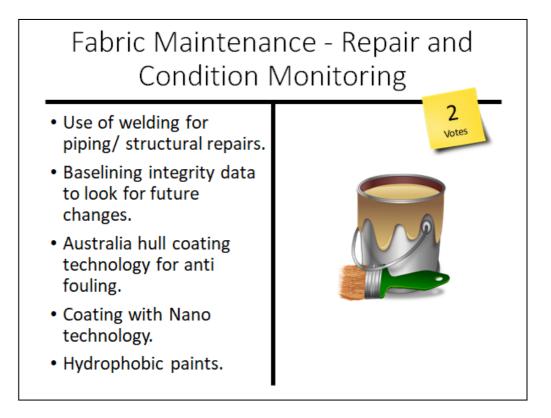


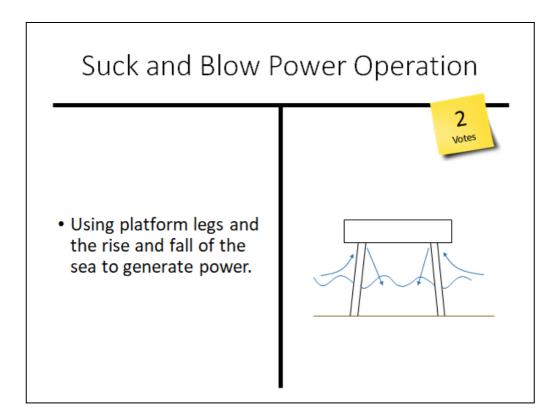


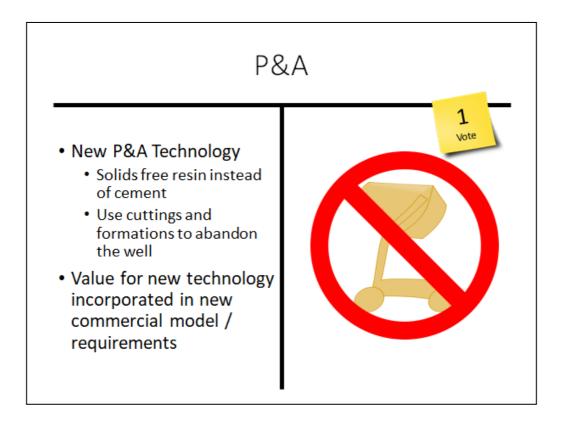


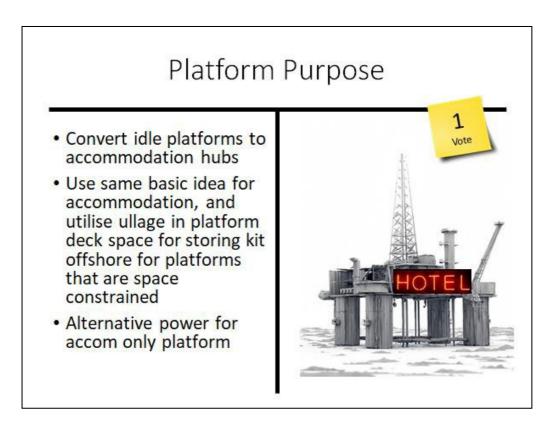


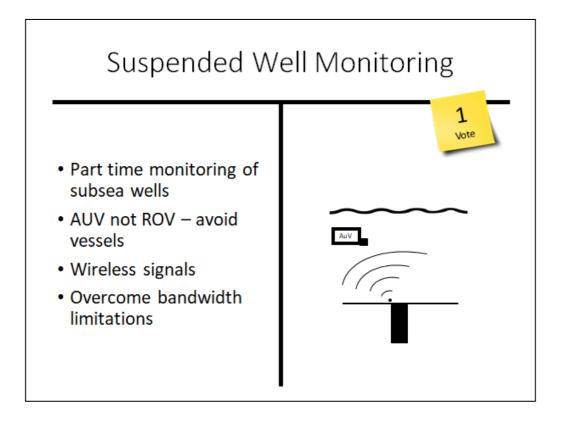


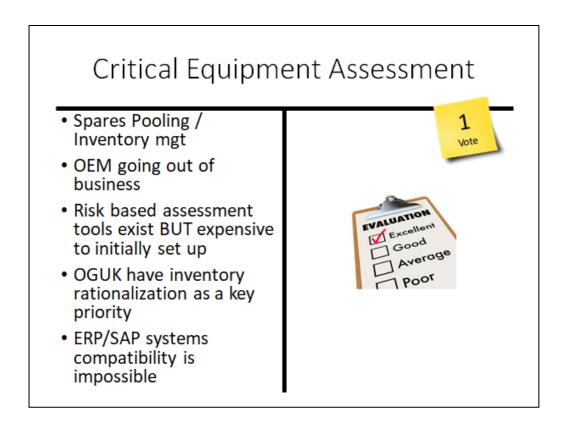


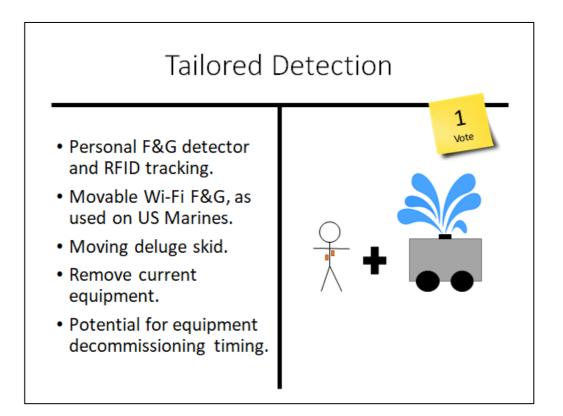


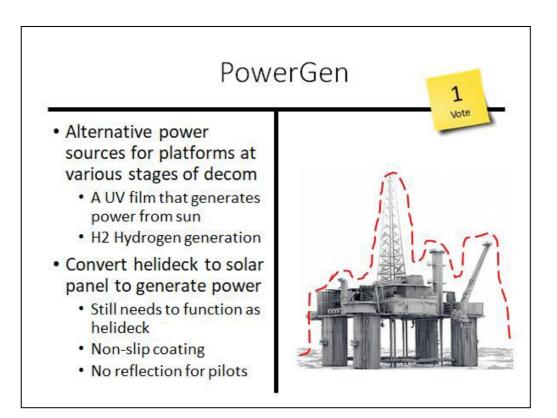


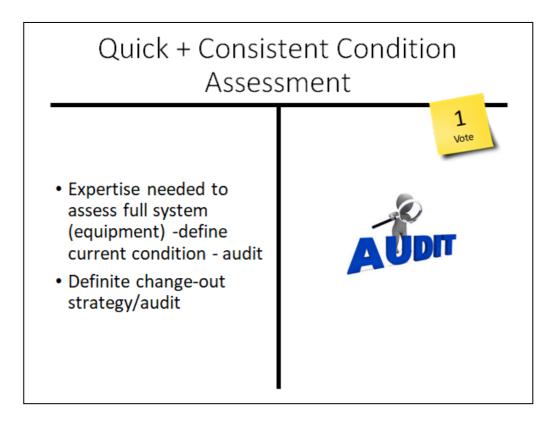


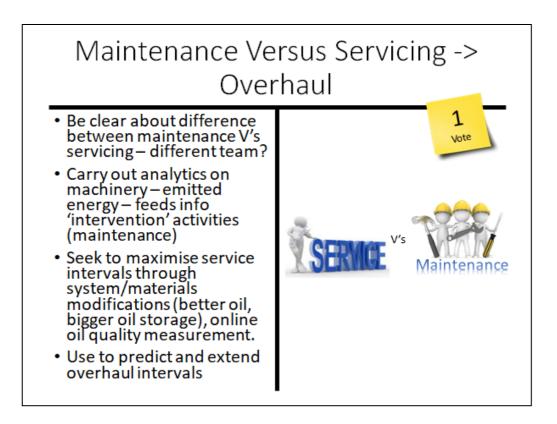


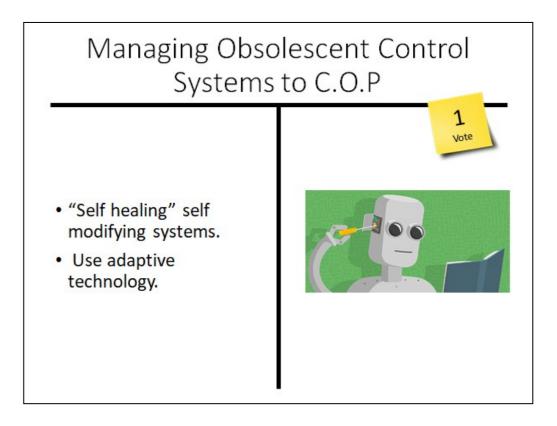


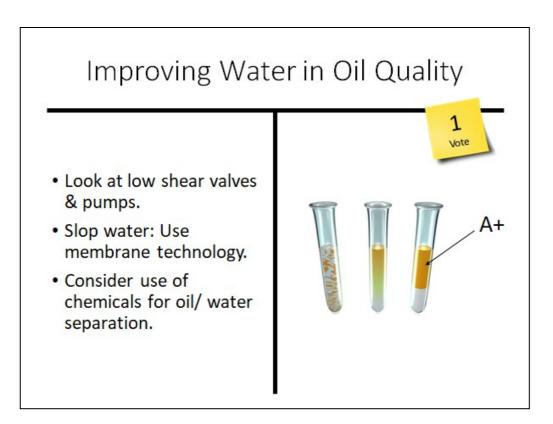


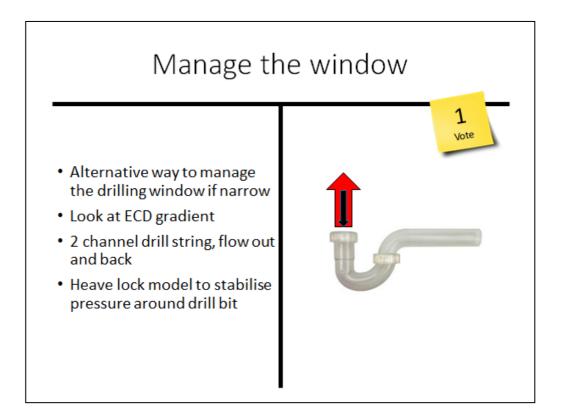


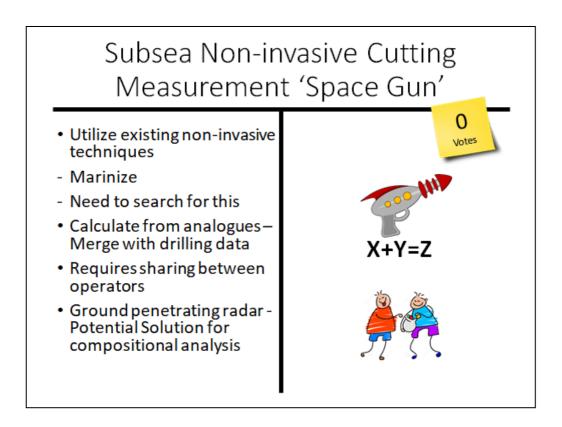


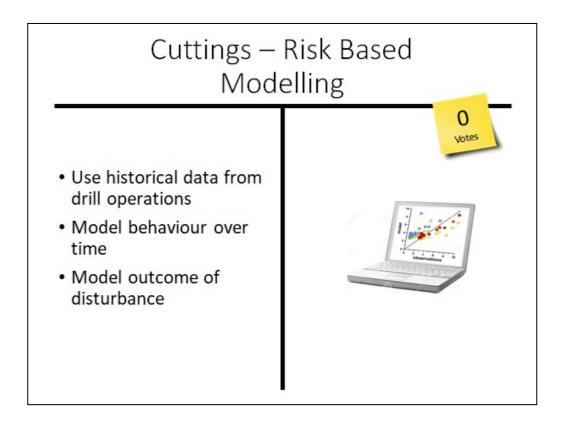


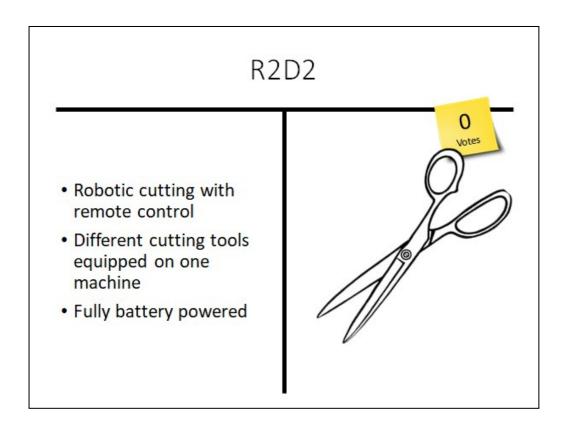


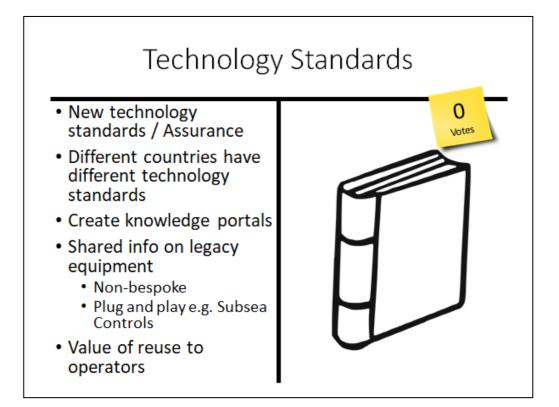


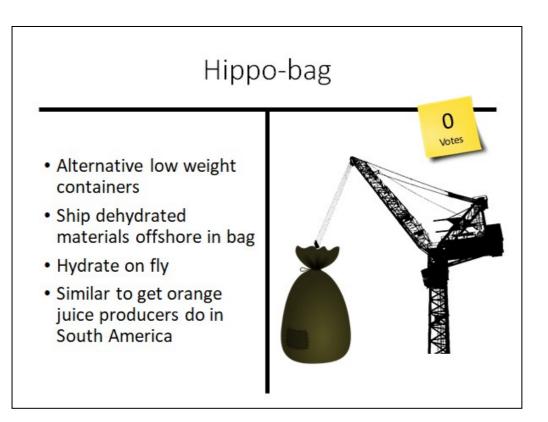


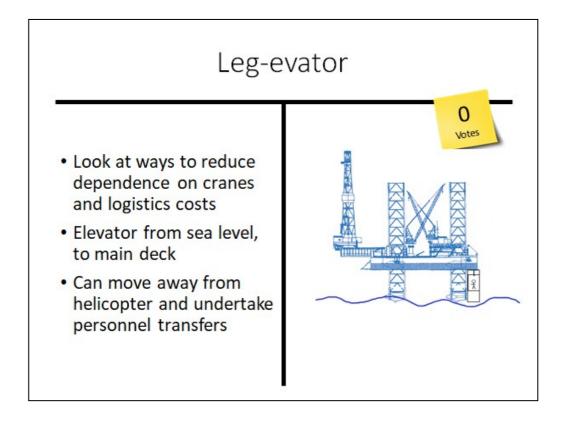


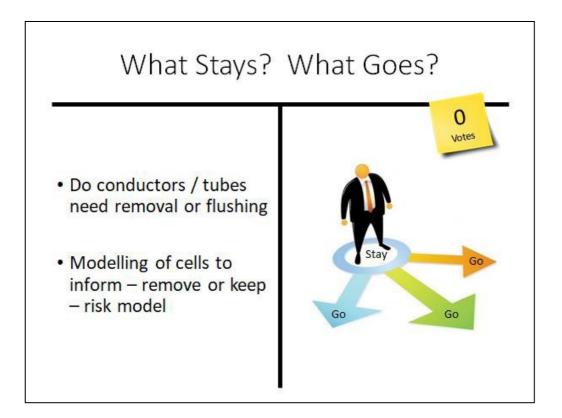


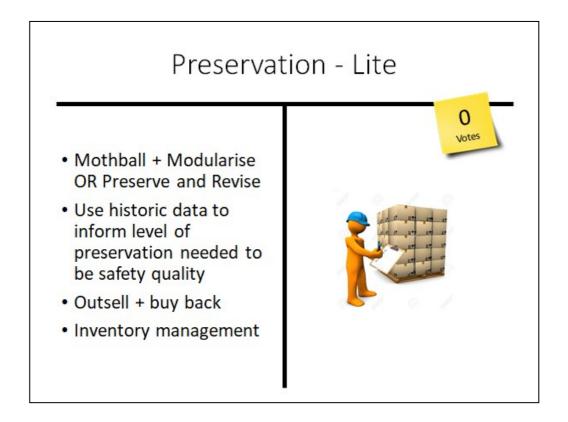


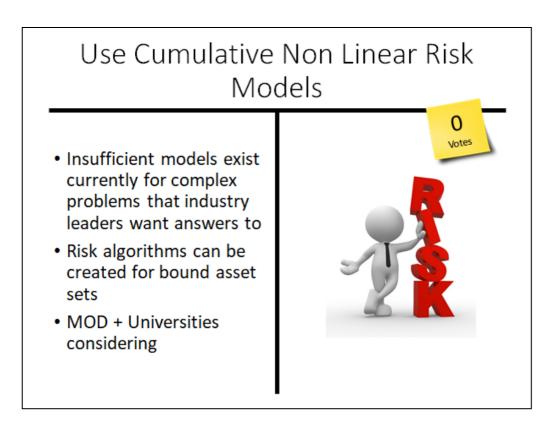


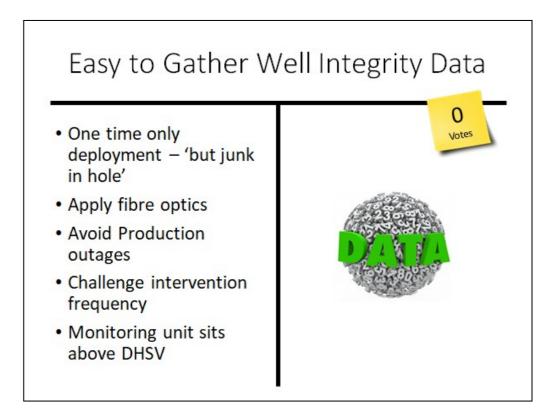


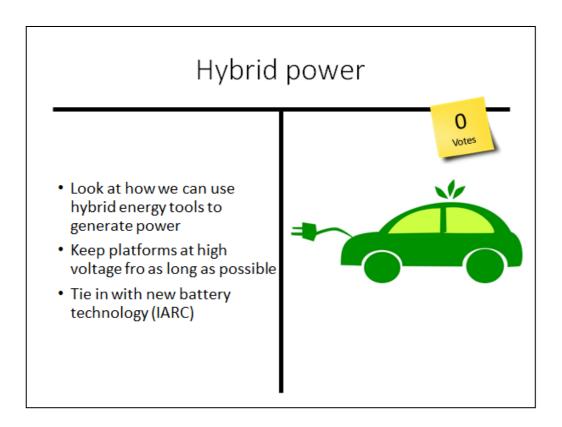


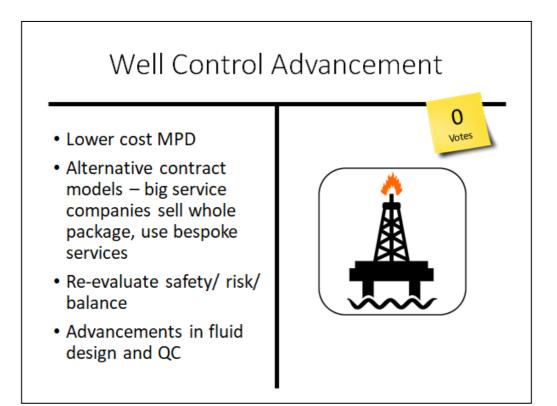


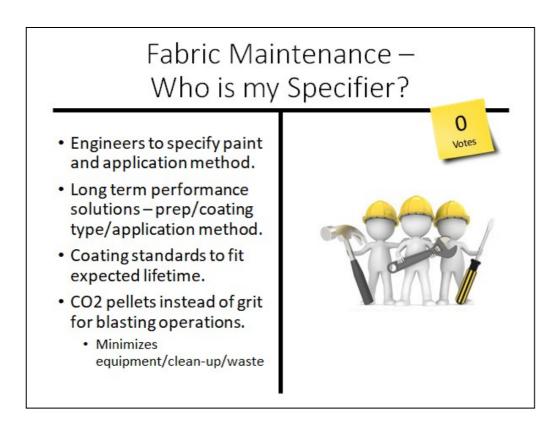


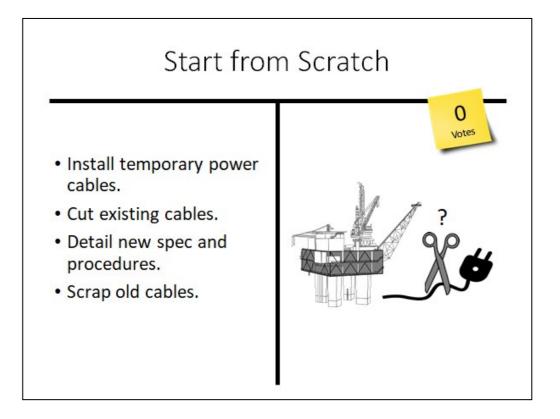


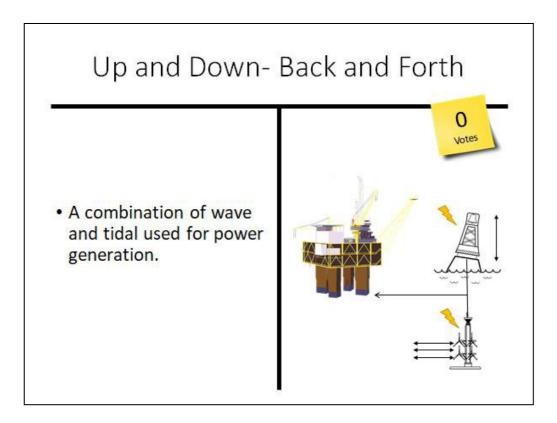


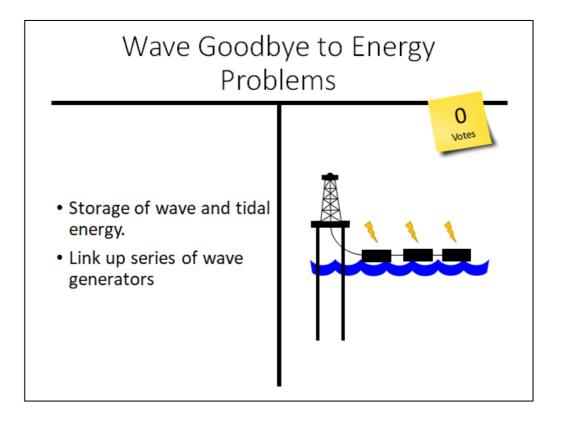


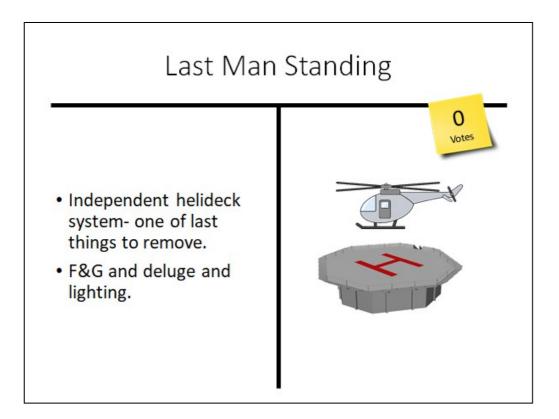


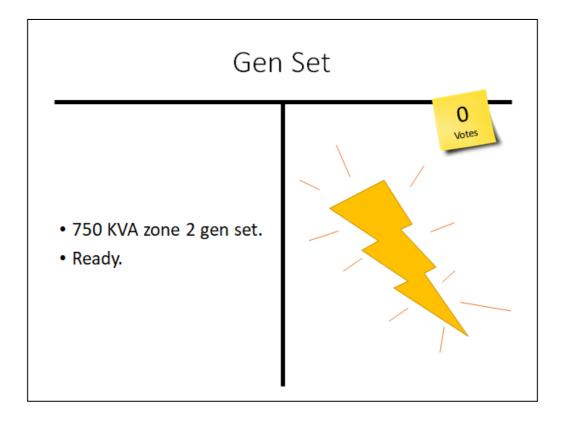




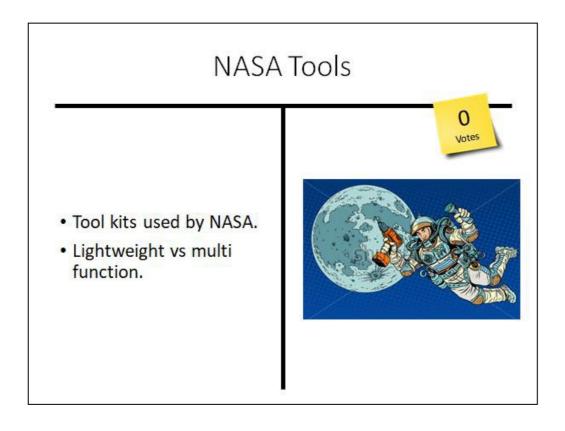


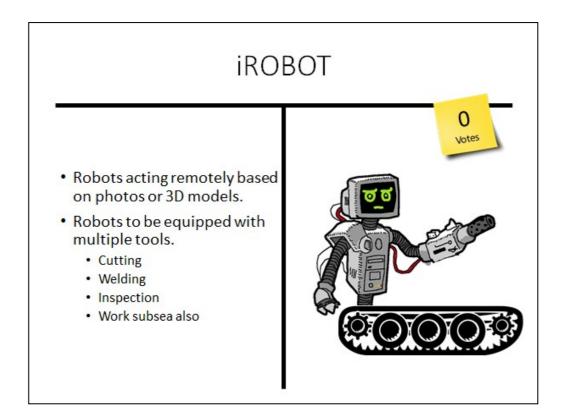


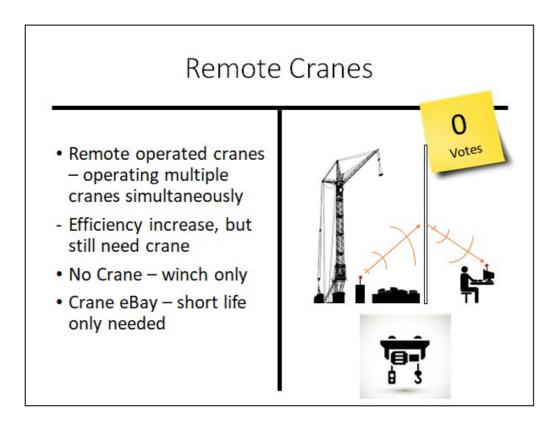


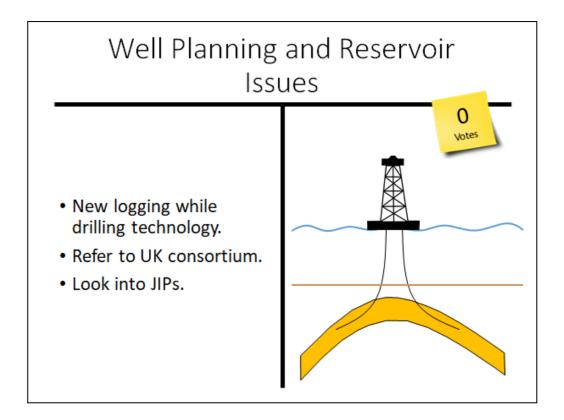


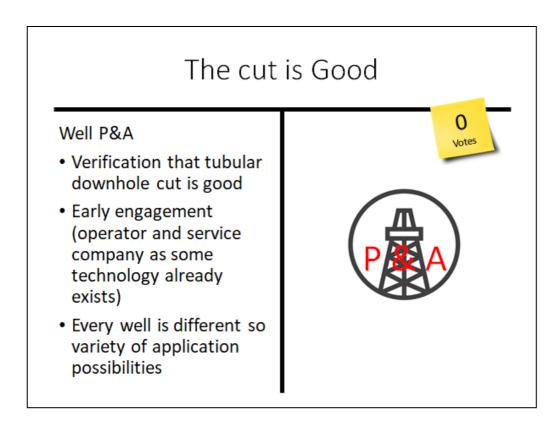


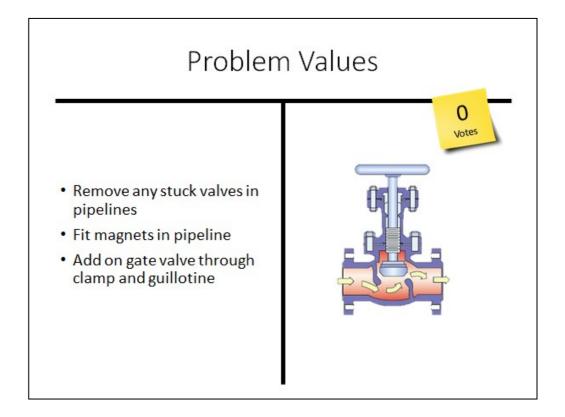


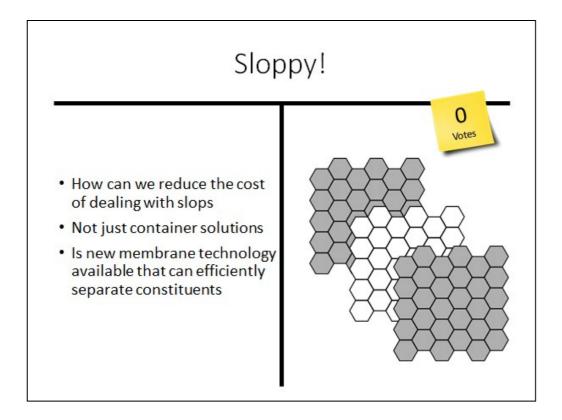


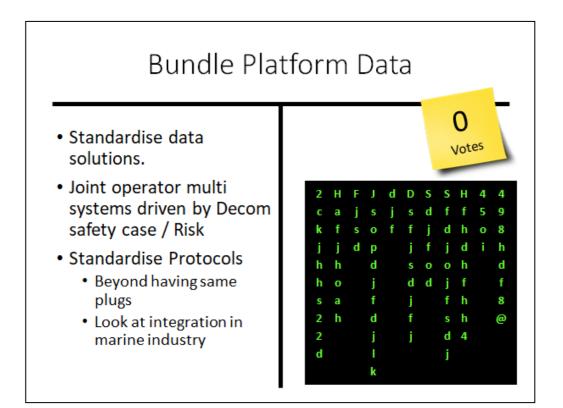


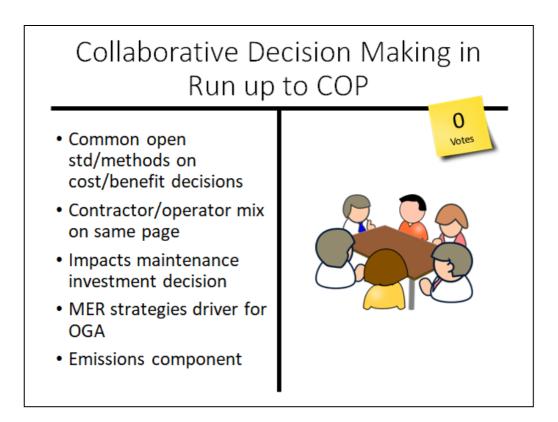


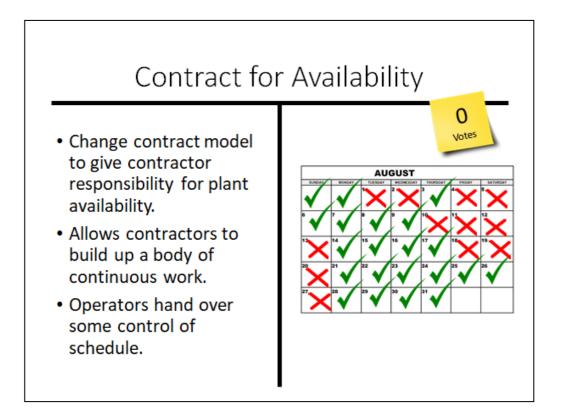


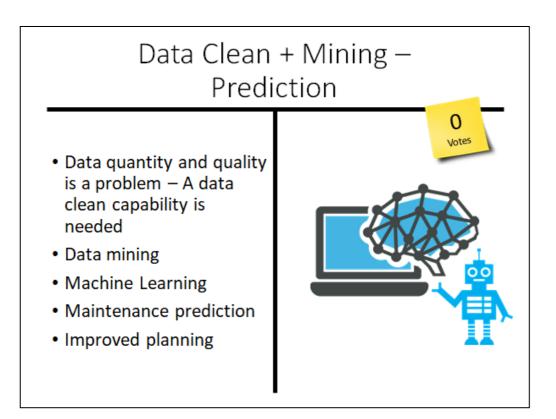


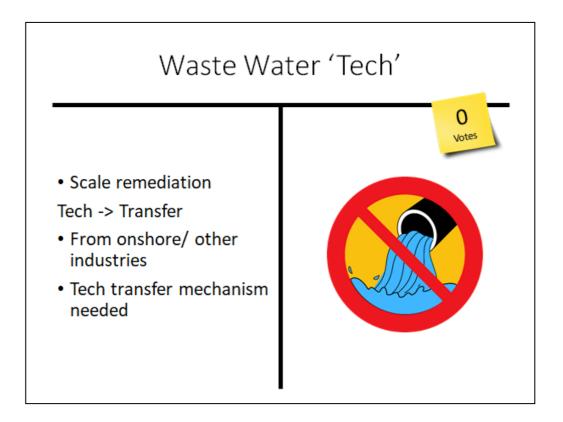


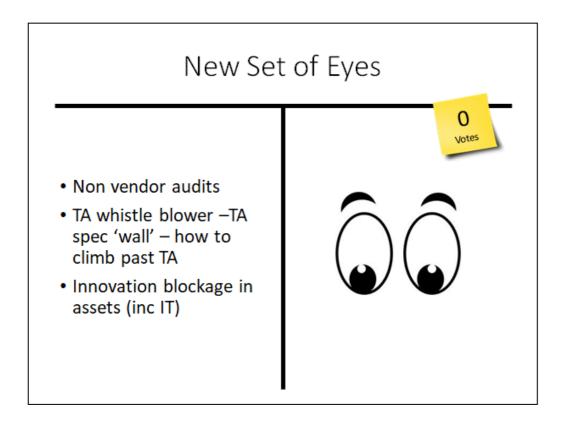


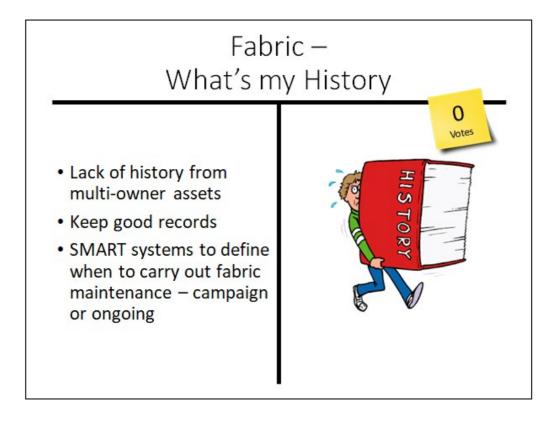














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