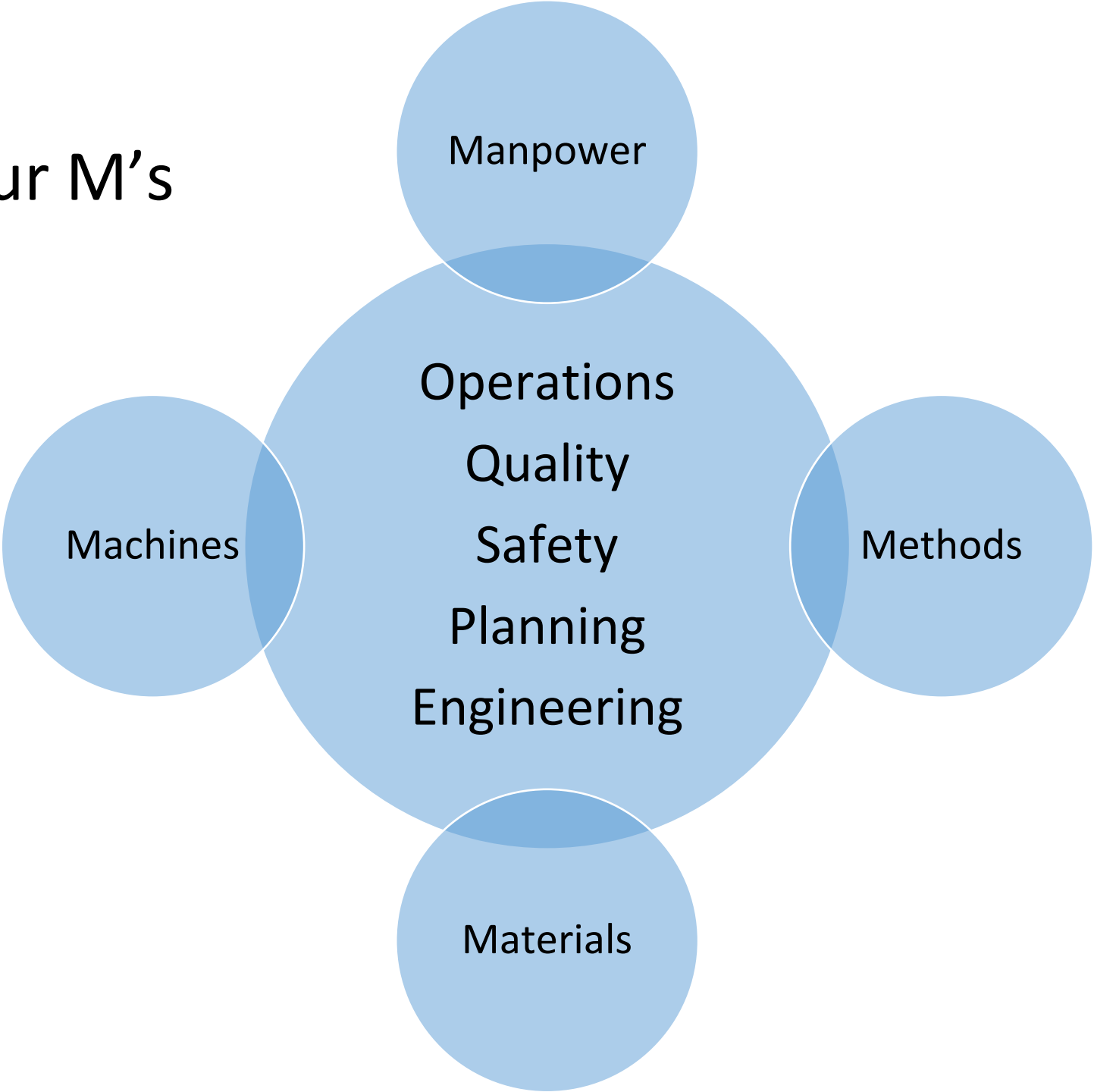
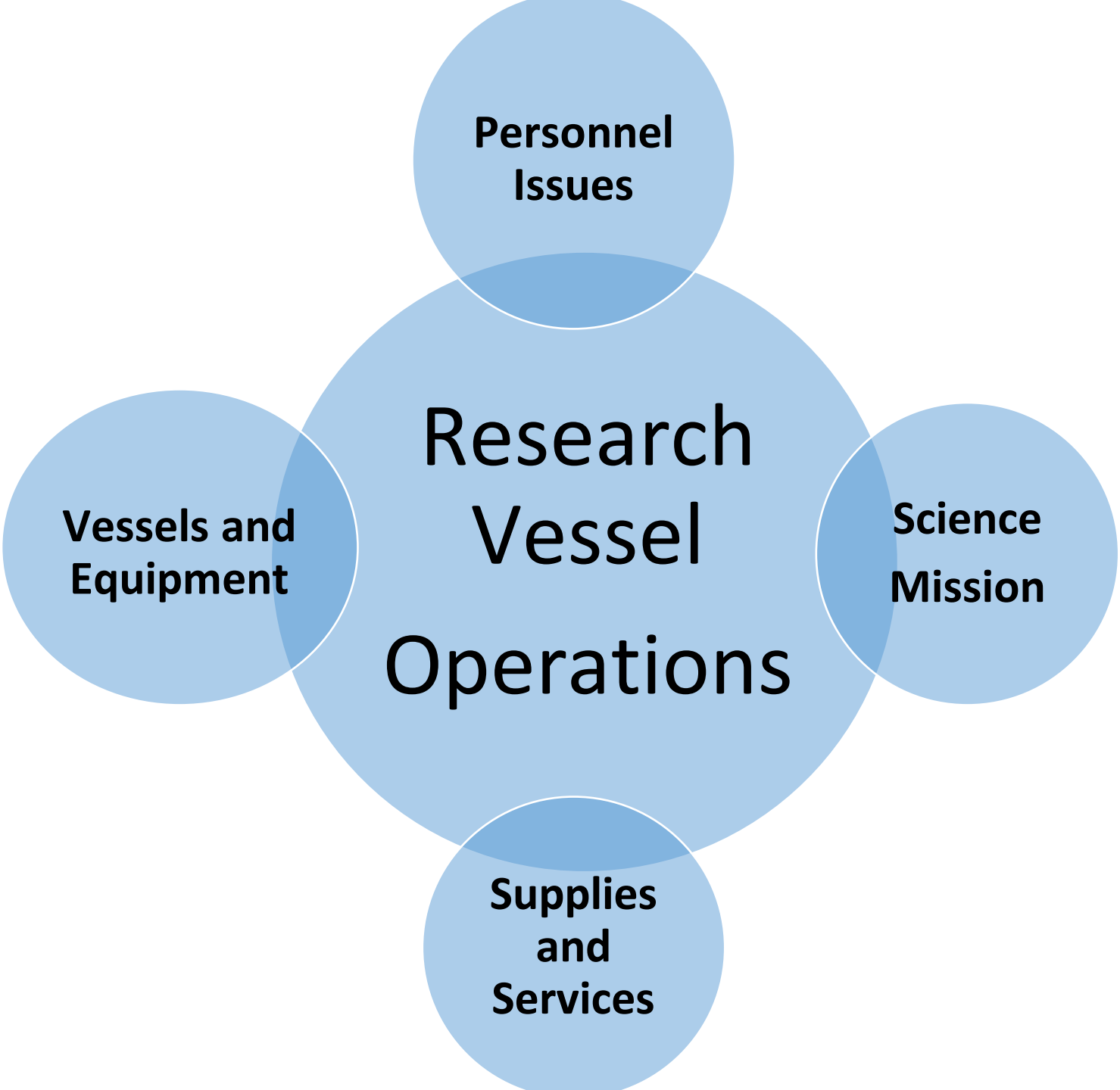


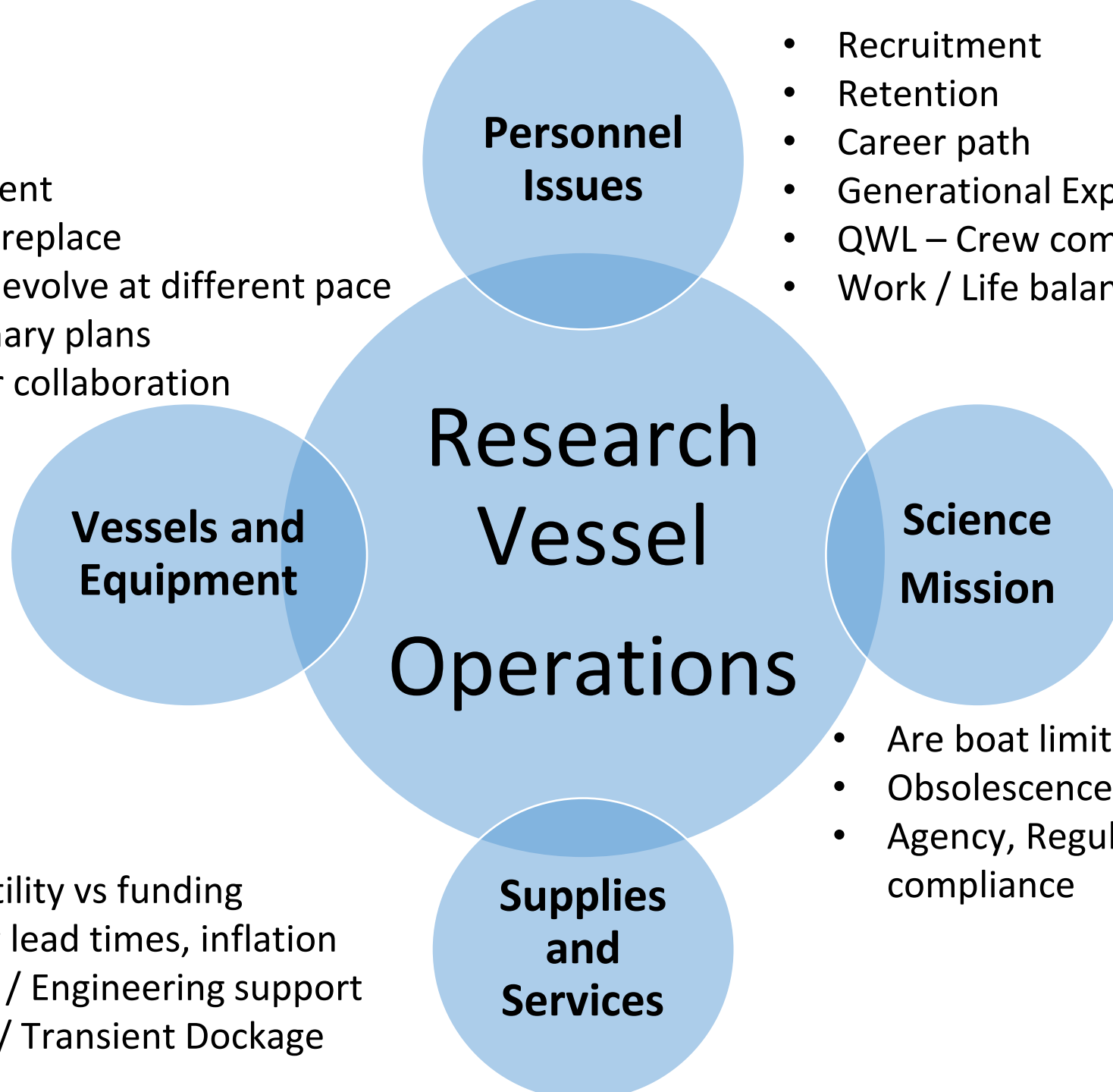
# Operational Challenges

# The Four M's





- Life Cycle Management
- Repurpose, rebuild, replace
- Vessels and Science evolve at different pace
- Strategic or reactionary plans
- Fleet competition or collaboration



- Cost volatility vs funding
- Fuel, long lead times, inflation
- Technical / Engineering support
- Seasonal / Transient Dockage