Technology, Modelling and Simulation



A FOST perspective







- Current FOST damage control training developments and challenges
- Delivering realistic collective training to a forward deployed Navy
- Aim towards a 75/25 live/synthetic training environment by 2025, 50/50 by 2030





Training Challenges

- Training objective has not changed
- Maximise potential
 - People
 - Platforms

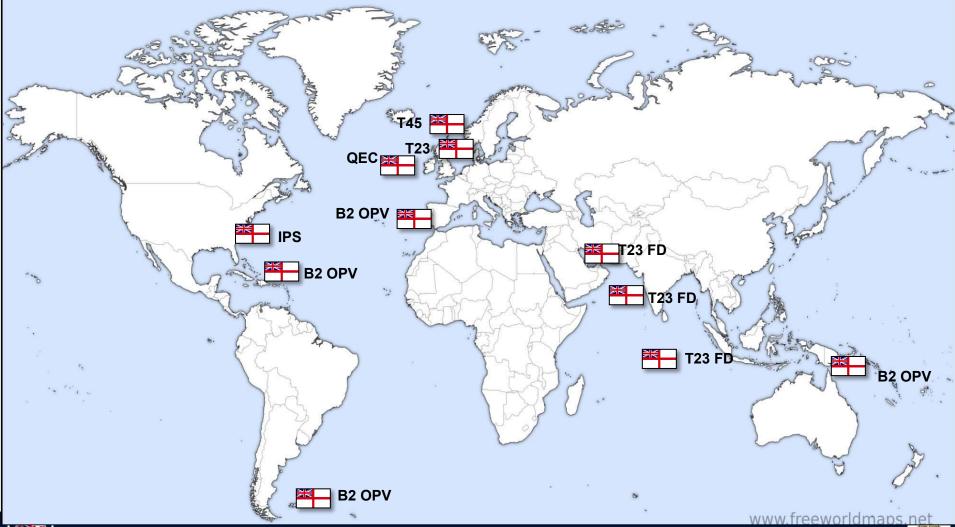
Evolving technology

- Procurement cycle maintaining the cutting edge
- New Platform Cell
- Agility
- Blended training solutions
- Survivability vs Lethality





Global Forward Deployed & Embedded Training - 2022







Forward Deployed

Challenges

- Live training assets in UK
- Managing workforce turnover
- Training intensity
- Training environment
- Assurance levels





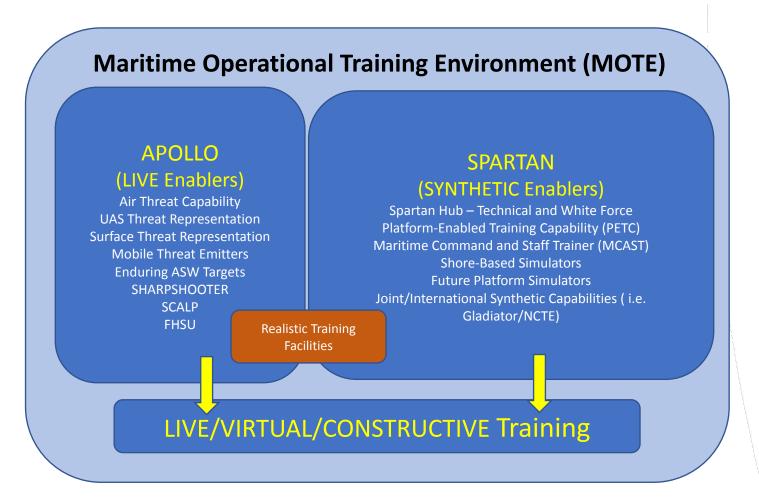
Opportunities

- Embed:
 - Rapport
 - Time with crew
- Organic training organisation
- Technology
- Synthetic Training





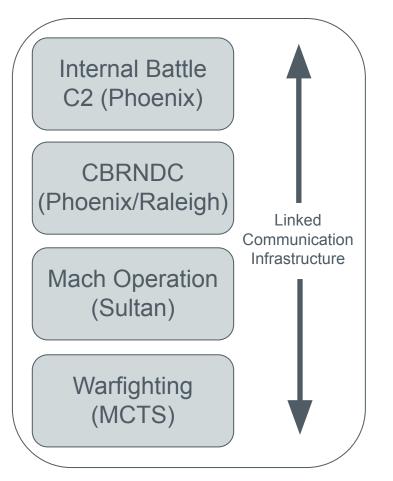
MOTE Collective Training







Blended Training in the DCFF arena

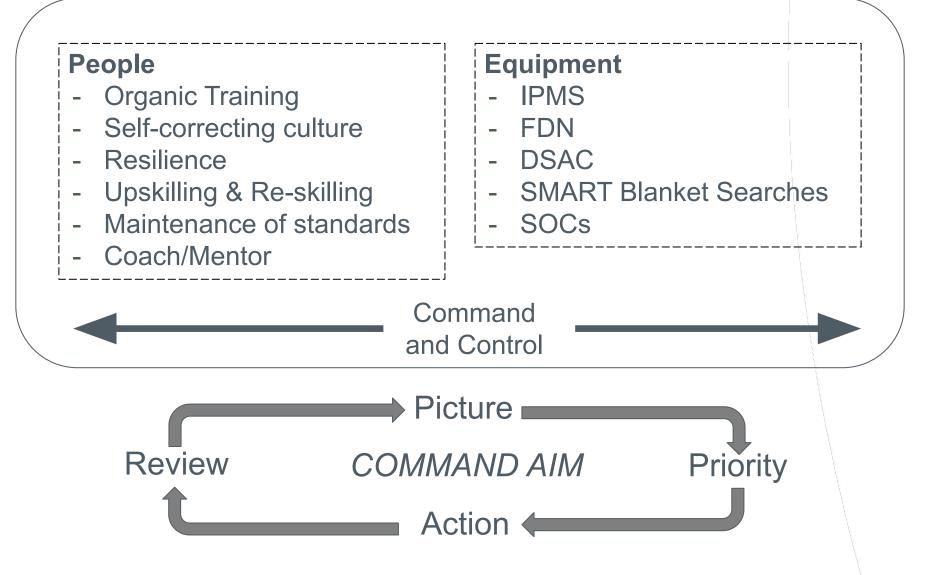


- Staggered approach
- Standalone training can evolve into fused training
- Ability to vary complexity
- Reduce training burden on ships
- Time efficient
- Safe training environment





FOST 2023







DSAC – QEC – Case Study

| OFR SUC STS STS Store State Store Stat | Image: Second condition | COMMAND ATM |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| DSAC/IPMS System integration Common operating philosophy (T26/T31) CBRNDC in the digital age Staged response to DCFF incidents Minimise impact on FD operations | O4 DECK O3 DECK O2 DECK O1 DECK Flight Deck Flight Deck D DECK D DECK C D DECK | AREAS PSOWY RAS RED-O SHLTR MED BA ATUVAPU WRT SMART SEARCH STATUS AMMO / HAZARD MAG HAZARD PPLY REPLY EMBRK SYSTEMS AGMA VSS AVTUR AVCAT HV LV CITAD AVCAT HV LV CITAD MCHY UPRDN MHPSW CW DIESO BLLST B & S FIRE PROTECT INSUL BULK DECK SPRAY VALVES |
| 7 8 9 DB + + 5 4 3 2 1 C B A C C B A C C B A C C B A C C C B A C C C C C C C C C C C C C C C C C C C | 5 DECK 5 DECK | FIRESTOP PNLS |



Conclusions

- Final outcome of training delivery unchanged
- Agility in training will be required to meet future demands
 - Forward Deployed
 - Introduction of new platforms and technologies
- A interconnected live / synthetic training environment central to future plans – MOTE
- Technology represents an opportunity to enhance training
- Live DCFF training remains central to a collective training solution



