



# Global Maritime EOD: 'Where we are and where we're going'

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## Scope:

- RN Fleet Diving Squadron
- UK Minewarfare Laydown
- Maritime EOD 'where we are':
  - . Conventional Threats
  - . State Actors
  - . Technology
- Maritime EOD 'where we're going':
  - . Unconventional Threats
  - . Non-State Actors
  - . Threat evolution / migration
- . So What?
- . Multi-National Exercising:
  - Ex NORTHERN CHALLENGE
- . Questions



# The Royal Navy's Fleet Diving Squadron





## Northern & Southern Diving Groups

UK Homeland Resilience / Support to Ships & Submarines

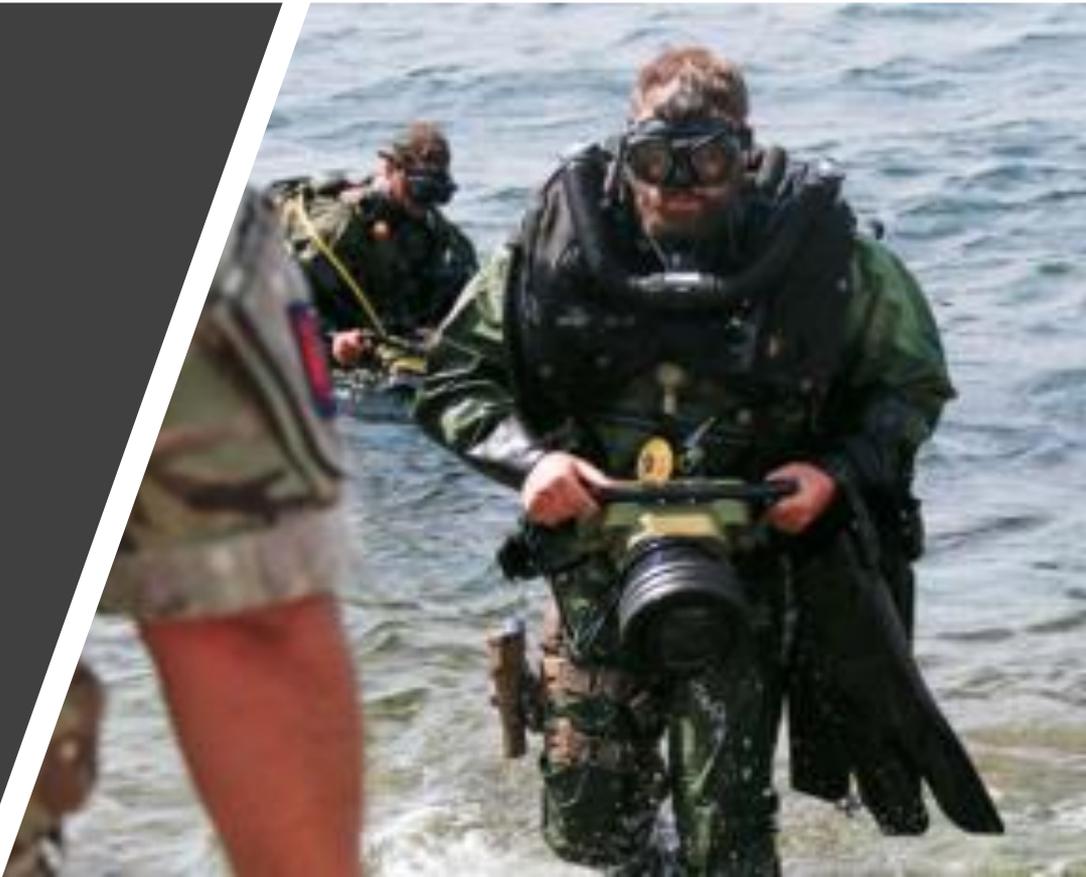
- Military Aid to Civil Authority EOD
- Maritime and Land EOD
- CMD Tasks – 500+ per year
- IED Disposal – 30+ per year
- Diving Minutes – 30,000+ per year



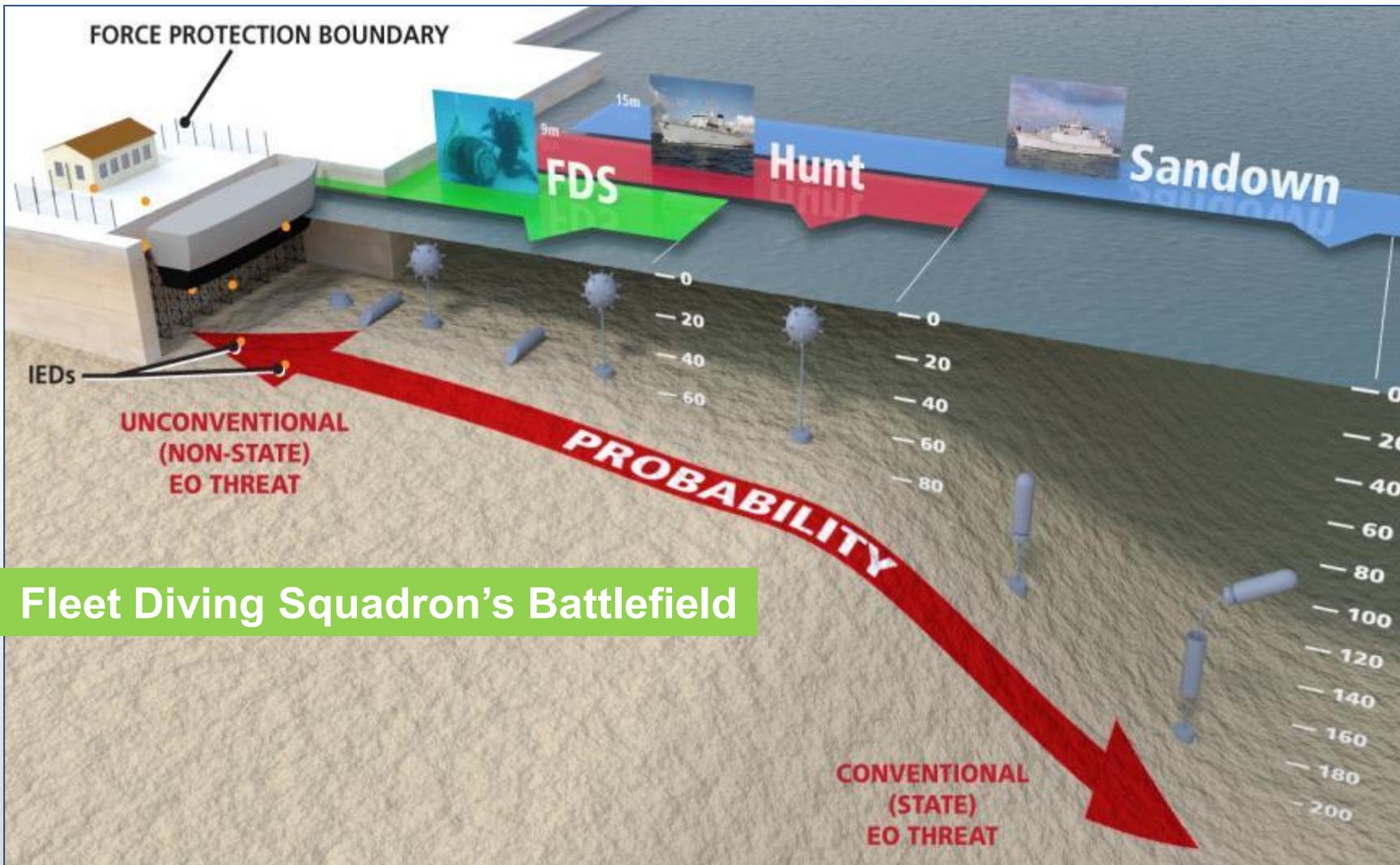


## Fleet Diving Group Expeditionary MCM

- Maritime Counter-Terrorism
- Very Shallow Water (VSW) MCM
- Mine Investigation & Exploitation
- Global Maritime IED Disposal



# UK Mine Warfare Laydown

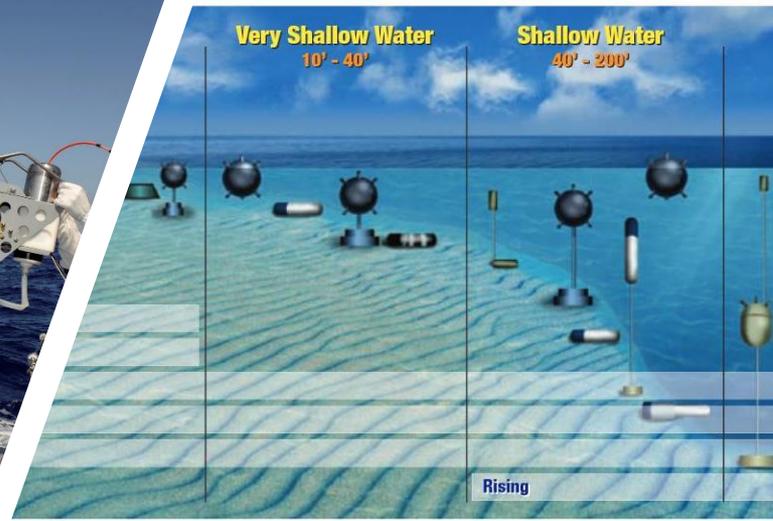
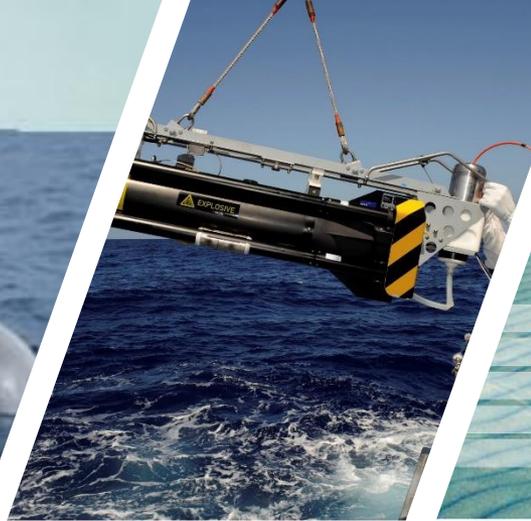


**Fleet Diving Squadron's Battlefield**



## Global Maritime EOD: 'Where we are...





## Where we are...

- Conventional Threats
- State Actors
- Advanced Sonar Systems
- Maritime Autonomous Systems
- **Mine Warfare?**



## Global Maritime EOD: Where we're going...





مع لـ PKK المرتدين بقذيفة من طائرة مسيرة قرب

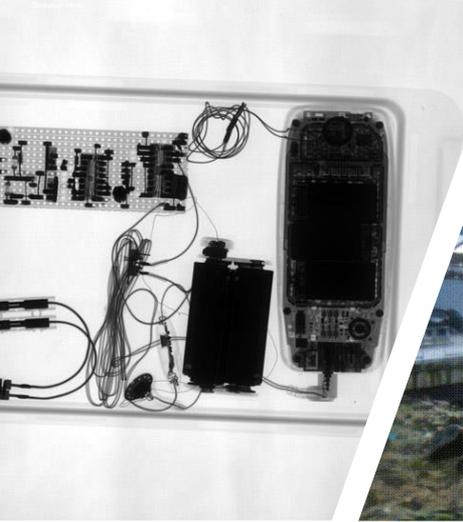


SCHEMA 2: EXPLOSIVE TRAIN

# Where we're going...

- Un-Conventional Threats
  - IED vs Mil-Grade (Mersad)
- State & Non-State Actors
- Hybrid Warfare 'Little Blue Sailors'
- Remote Technology (UAS, WBIED)
- Migration threat from Land?





## So What?

- Land vs Maritime Operator
- Remote Technology
- Protective Equipment
- Through Barrier Detection
  
- The enemy gets a vote!



**Exercise**  
**NORTHERN CHALLENGE**  
Multi-National Maritime IED Disposal Exercise

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**CO Southern Diving Group**  
**Royal Navy**



## Ex NORTHERN CHALLENGE

### NATO IED Disposal Exercise - Iceland

- Ex NC 2018:
  - 300 Operators
  - 15 Countries (**Italy**, **UK** Iceland, France, Holland, Denmark, Norway, Sweden, USA, Poland, Canada, Germany, Austria, Belgium, Finland)
  - UK (FDS) Exercise Commander
  - 31 IED Disposal Teams
  - 'Bomb Making' Training





## Summary:

- What is Maritime EOD
  - 'In, On, Under, Near'
  - Not only an UW problem
  
- Maritime EOD 'where we are':
  - . Conventional Threats
  - . State Actors
  - . Technology
  - . Relatively well understood
  
- Maritime EOD 'where we're going':
  - . Unconventional Threats
  - . Non-State Actors
  - . Hybrid Warfare
  - . Threat evolution/migration
  
- . So What?
  
- . Multi-National Exercising



# Questions?

