



Human Placebos & The Path to Offensive Autonomous Weapons

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AGENDA

- Lethal Autonomous Weapons (LAWS)
 - “Defined”
 - Distinguished
- Autonomy
 - Increases in Machine Capabilities
 - Swarming
 - Societal Factors
- LAWS Future

What Are Lethal Autonomous Weapon Systems?

- Once activated can select and engage targets without further human intervention
- Not new → 30/30 Casualties
- Automated/automatic/autonomous



Terminology

- Autonomy
Not binary/levels

Not AI



“Autonomous” Systems

- Capability of the larger system enabled by the integration of human and machine abilities



Increase in Machine Capabilities



Swarming Autonomous Systems



Societal Factors

- Civil Society Advances → Desensitization/Placebo?



LAWS Future

- Development inversely related to risk of civilian harm
- Distinction and the law of armed conflict
- Sequencing
 - Water
 - High Altitude
 - Land

LAWS Future

Importance to the Naval Forces

- Royal Navy
 - Unmanned Warrior



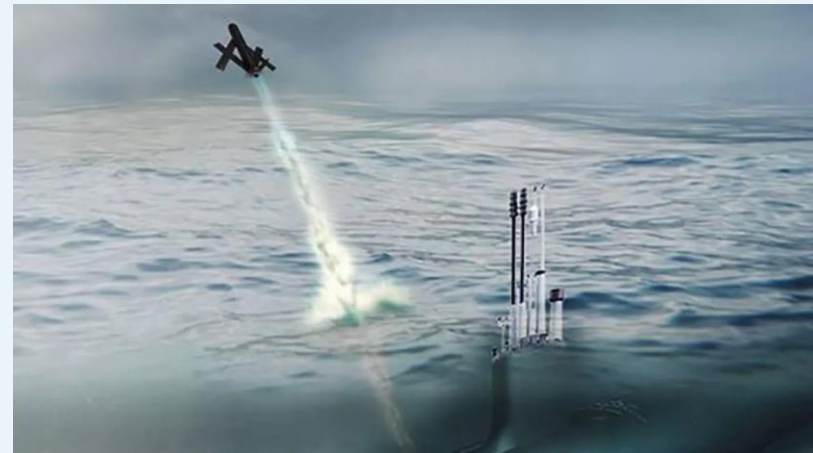
Surface & Subsurface

- UUV



- Sea Hunter

- Black wing



Other Naval Examples

- **Drone command center established aboard aircraft carrier for the 1st time**
- **Navy Plans To Deploy A Submarine Drone Squadron By 2020**