# **Naval Warfare Evolution**

Ancient and Medieval Ages



Age of Sail





Digital Age



# Advances in Digital Technologies and Business Models that will Transform the Naval Sector

Speaker:

Scott Clark
Vice President
Global Program Director - Defence



## **How Digitalised is Defence?**

# **Product Development** (RDT&E, manufacturing)





Stepping into Manufacturing 4.0 (Rapid prototyping, predictive modelling, 3D printing, automated manufacturing processes virtual reality, real time transport and supply management, etc.)

Image source: NLR, BAE Systems, USN, GE, Diginext Inscapec

#### **Product Deployment**

(delivery, applications and operations in battlefield)





#### **Digital Battlespace**

(Joint collaborative networks, unmanned systems,, manned-unmanned teaming, evolving architecture of systems, augmented reality, connected wearable devices, etc.)

#### **Product Sustainment**

(maintenance, upgrades, retirement)





#### **Improving Product Life Cycle**

(Health Usage Monitoring Systems, smart sensors to measure attrition rates, swarm of robots for inspection, Connected Distribution Center Voice Technology etc..)

## **Digital Technologies**

Key Leading Digital Technologies Empowering the Digital Transformation

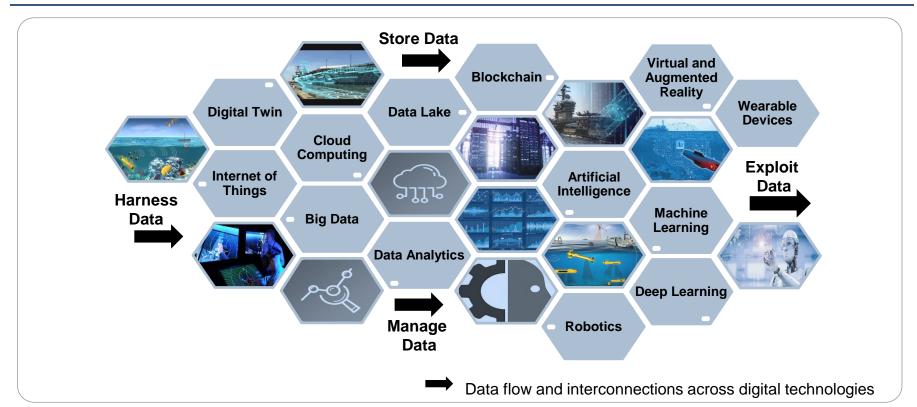
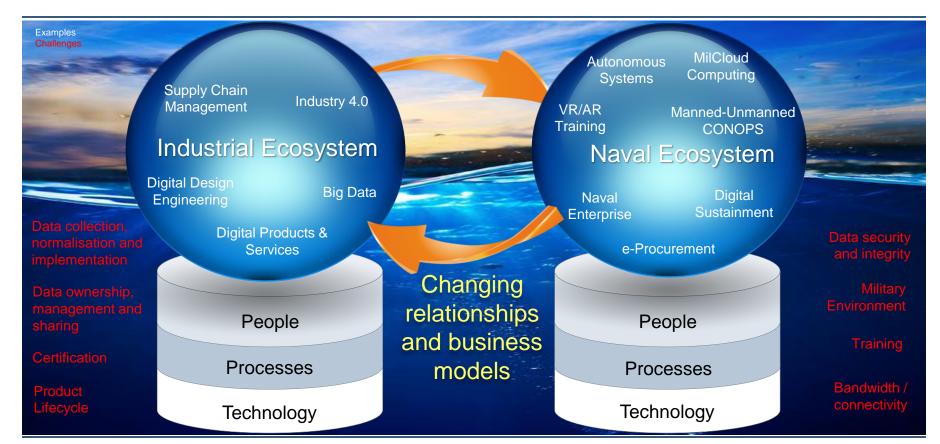


Image source: US DoD, USN, Huntington Ingalls, Getty Images

# **Future Navies and Digital Transformation**



#### **New Business Models**

Will the military be ready to sacrificed its independence over lower ownership costs on equipment?

#### Digitalisation in Defence: Assessing Potential Advantages of Business Models

